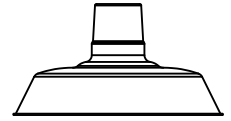




SPS-0448 REV C

THE ORIGINAL™ INTEGRATED LED SERIESJOB NAME: Lowcountry Pickleball FIXTURE TYPE: Original Warehouse

ATTACHMENT 4



BLE - G	- WHS20	- 800	- G22	-	-	- NA	-
A	B	C	D	E	F	G	
		- LED16	- 2700K	-			
H	I	J	K	L			

Order Example: BLE - G - WHS16 - 600 - G22 - 980 - NA - ACR - 600 - NA - LED38 - 2700K - DL

A - MOUNTING STYLE

C	Cord Hung
CN	Chain Hung
F	Flush Mount ¹
G	Gooseneck
S	Stem Mount

B - SHADE SIZE**THE ORIGINAL™:**

WHS12	12" Shade
WHS14	14" Shade
WHS16	16" Shade
WHS18	18" Shade
WHS20 ²	20" Shade

C - SHADE FINISH**PORCELAIN FINISHES³:**

150	Black
250	White
350	Vintage Green
355	Jadite
455	Cherry Red
550	Yellow
650	Bronze
750	Cobalt Blue
765	Delphite Blue
850	Graphite
950	Metallic Chrome

POWDER COAT FINISHES⁴:

100	Black
105	Textured Black
106	Matte Black
200	White
206	Matte White
300	Dark Green
307	Emerald Green
311	Jadite
370	Mint
380	Chartreuse
390	Teal
400	Barn Red
420	Orange
470	Watermelon
480	Blush Pink
490	Magenta
495	Sherbet Orange
500	Buttery Yellow
570	Sunflower
600	Bronze
601	Chocolate
605	Rust
615	Oil-Rubbed Bronze

C - SHADE FINISH (CONTINUED)**POWDER COAT FINISHES⁴:**

700	Royal Blue
705	Navy
710	Cobalt Blue
715	Delphite Blue
790	Lavender
800	Industrial Grey
805	Charcoal Granite
810	Graphite
975	Galvanized

NATURAL METALS⁵:

995	Raw Copper
996	Weathered Copper
997	Raw Brass
998	Weathered Brass
999	Oil-Rubbed Copper

D - MOUNTING

Please Note: If Flush Mount [F] is selected in Section A, please select **NA**

NA	Not Applicable
----	----------------

CSA LISTED CORDS:

SBK	Standard Black
SWH	Standard White
CSB	Black Cloth
CSW	White Cloth
CMG	Grey Cloth
CSR	Red Cloth
CRZ	Red Chevron Cloth
CSBB	Black & Brown Cloth
CSRW	Red & White Cloth
CSGW	Gold & White Cloth
CSBG	Black & Gold Cloth
CSBW	Black & White Cloth
CSBP	Black & Pink Cloth
CSUW	Blue & White Cloth

CHAIN MOUNT OPTIONS²:

CN36	3' of Chain
CN48	4' of Chain
CN60	5' of Chain
CN72	6' of Chain

D - MOUNTING (CONTINUED)**GOOSENECK OPTIONS:**

G1 ²	G11 ²	G26 ²
G2 ²	G12 ²	G32
G3 ^{2,6}	G13	G34 ²
G4 ⁶	G14	G35 ²
G5 ²	G15	G36 ²
G6	G16 ²	G64 ²
G7	G17	G65 ²
G8	G22	
G9	G24	
G10	G25	

STEM MOUNT OPTIONS:

ST506	.5" Stem Mount, 6" ²
ST512	.5" Stem Mount, 12" ²
ST518	.5" Stem Mount, 18" ²
ST524	.5" Stem Mount, 24" ²
ST536	.5" Stem Mount, 36" ²
ST548	.5" Stem Mount, 48" ²
ST706	.75" Stem Mount, 6"
ST712	.75" Stem Mount, 12"
ST718	.75" Stem Mount, 18"
ST724	.75" Stem Mount, 24"
ST736	.75" Stem Mount, 36"
ST748	.75" Stem Mount, 48"

E - MOUNTING FINISH

Please Note: See **Section C** for Finish Options. 980-Brushed Aluminum is also available for Gooseneck (Except G36, G64 & G65) and Stem mounting styles. If a Porcelain shade finish is selected, mounting will be powder coat painted-to-match. Porcelain shade finishes are not available with a Natural Metal mounting finish
(I) If Cord Hung [C], selection identifies canopy finish
(II) If Chain Hung [CN] Mounting Style, selection identifies chain and canopy finish. Natural Metals are not applicable
(III) If Stem Mount [S] Mounting Style, selection identifies stem and canopy finish
(IV) If Flush Mount [F] Mounting Style, selection identifies hex coupler and canopy finish. Natural Metals are not applicable

980	Brushed Aluminum
-----	------------------

F - CORDS⁷

Please Note: See **Section D** for all applicable CSA Listed Cord Options

NA	Not Applicable
----	----------------

G - SHADE ACCESSORIES²

NA	None
WC	Wire Cage
ACR	Acrylic Diffuser ^{8,9}

H - SHADE ACCESSORY FINISH

Please Note: See **Section C** for Finish Options. Natural Metals not applicable. If Porcelain Finish is selected, accessory will be powder coat painted-to-match

NA	Not Applicable
----	----------------

I - MOUNTING ACCESSORY

Please Note: Mounting Accessories below are only applicable with select Mounting Styles. Please refer to product listings on our website for further detail.

NA	None/Not Applicable
HSC	Hang Straight Canopy ^{2,10}
LDBPC	LED Decorative Backing Plate Cover ^{11,12}
LDCHX	LED Decorative Backing Plate Cover & Hex Cover ^{11,12}

J - LIGHT SOURCE

LED11	850 Lumen, 11W LED
LED16	1250 Lumen, 16W LED
LED27	2000 Lumen, 27W LED
LED38	3000 Lumen, 38W LED
LED43	4000 Lumen, 43W LED ¹

K - COLOR TEMPERATURE

2700K	2700K, Warm White
3000K	3000K, Neutral White
3500K	3500K, Bright White
4000K	4000K, Cool White

L - LED LENS

DL	Domed Lens
FL	Flat Lens

IMPORTANT: (1) Not available with Acrylic Diffuser shade accessory (2) Not available in Natural Metals (3) All Porcelain Enamel finished shades feature a white interior and a black outer rim (4) All Powder Coat finished shades, Galvanized excluded, feature a white interior (5) Natural Metals have a longer estimated manufacturing time, please check the website for exact lead time. There are no returns accepted on Natural Metals (6) Not compatible with 16" shade size and larger (7) Only applicable if Chain Hung Mounting Style selected in Section A, select NA if another Mounting Style is selected (8) Acrylic Diffuser limits the maximum lumen selection as well as reduces lumens delivered and LPW. Selection Limits: 2000 Max for 12" and 14" shades; 3000 Max for 16" through 20" shades (9) Fixture is CSA Listed for Damp Location with Acrylic Diffuser (10) Only applicable if Stem Mounting Style is selected in Section A (11) Not available with G3, G4, G11, G15, G26, & G36 Gooseneck option (12) Only applicable if Gooseneck Mounting Style is selected in Section A

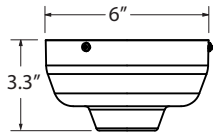
ATTACHMENT 4

BARN LIGHT ELECTRIC CO.

THE ORIGINAL™ INTEGRATED LED SERIES SPS-0448 REV C

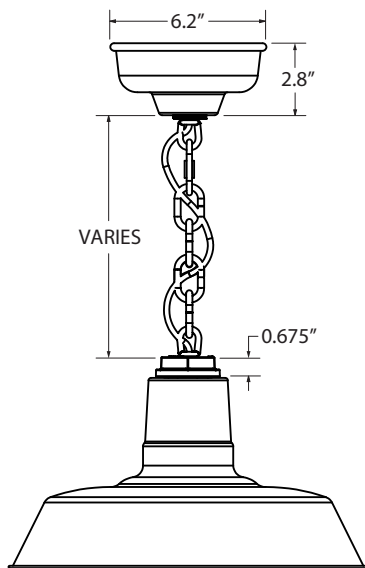
MOUNTING STYLE

HIGH LUMEN CANOPY FOR PENDANT & FLUSH MOUNT



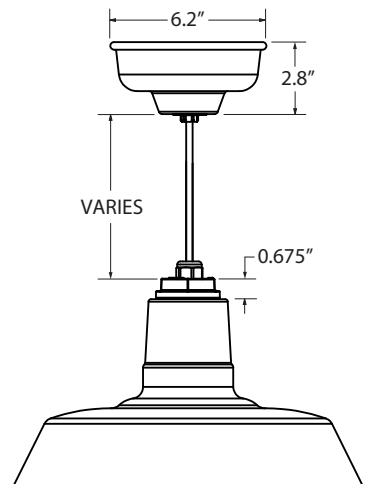
Required if LED 27, 38, 43 Light Source selected in Section J

CHAIN HUNG PENDANT (CN)



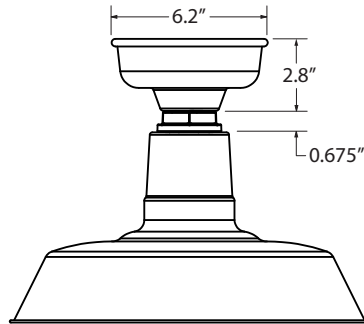
Canopy shown required if LED 11 & 16 Light Source selected in Section J

CORD HUNG PENDANT (C)



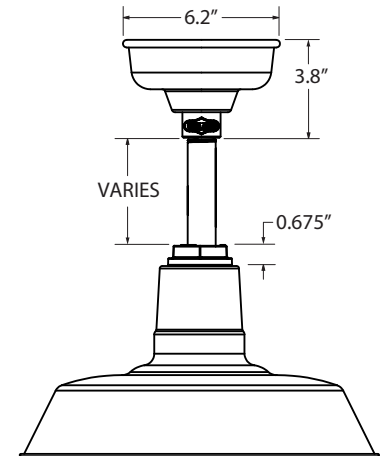
Canopy shown required if LED 11 & 16 Light Source selected in Section J

FLUSH MOUNT (F)



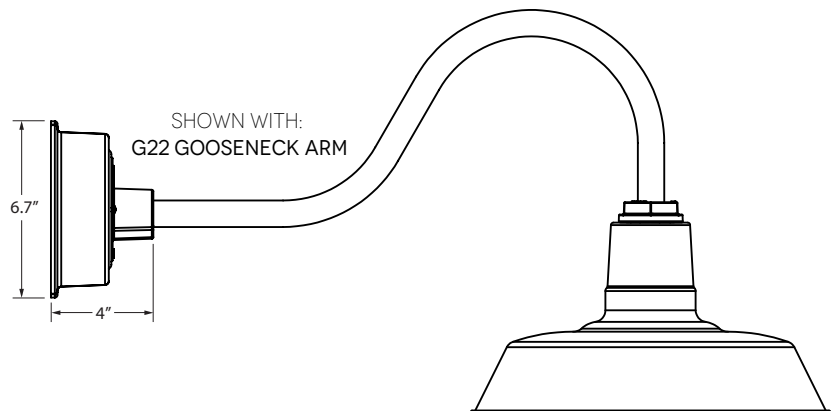
Canopy shown required if LED 11 & 16 Light Source selected in Section J

STEM MOUNT PENDANT (S)

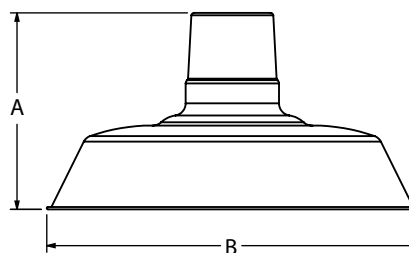


Canopy shown required if LED 11 & 16 Light Source selected in Section J

GOOSENECK (G)



LUMINAIRE DIMENSIONS

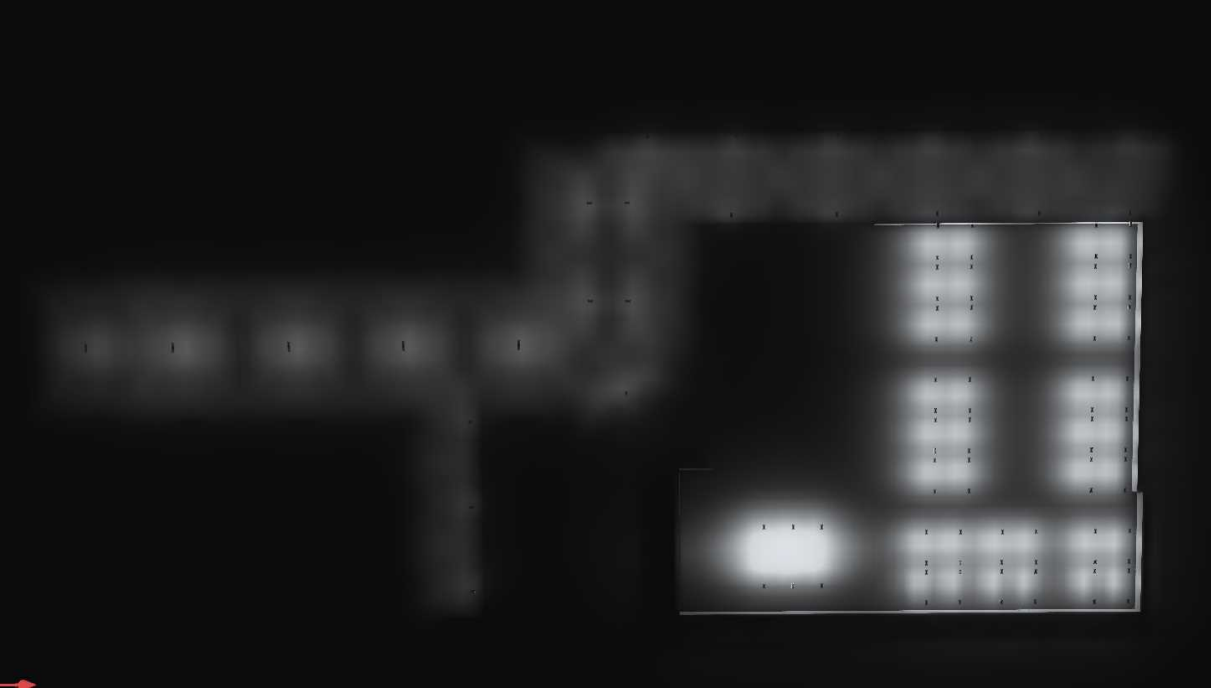


SHADE CODE	HEIGHT (A)	DIAMETER (B)
WHS12	7"	12"
WHS14	7.5"	14"
WHS16	7.75"	16"
WHS18	8.5"	18"
WHS20	9.25"	20"

ATTACHMENT 4

Date

3/28/2023



**Low Country Pickleball Club - Parking Lot & Court Lighting -
rev 230321**

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Contacts



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1 DIAMOND CAUSEWAY
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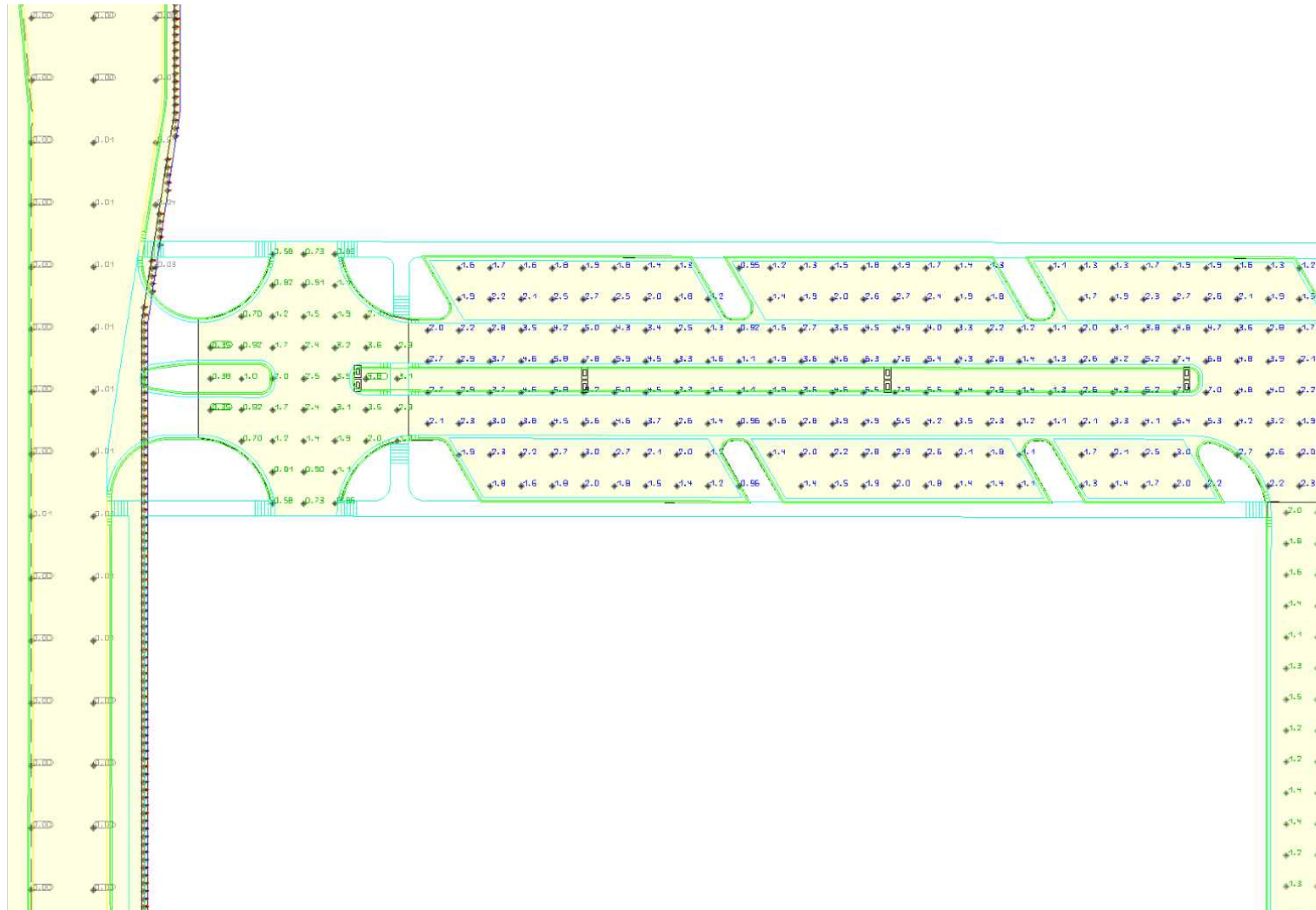
T 912-677-7716
wlaw@sdcsav.com

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321



Images

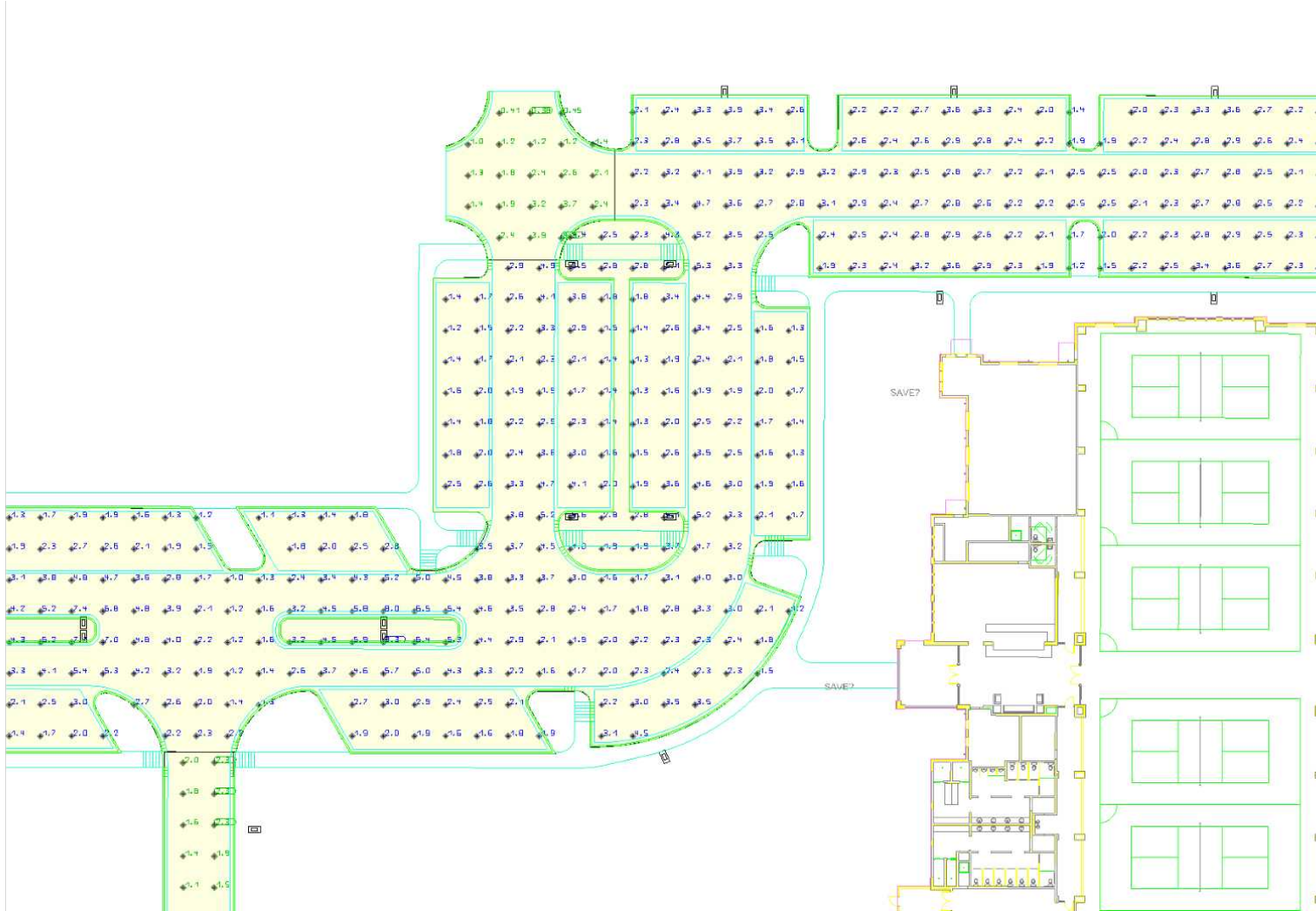


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Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Next Generation
LIGHTING South LLC

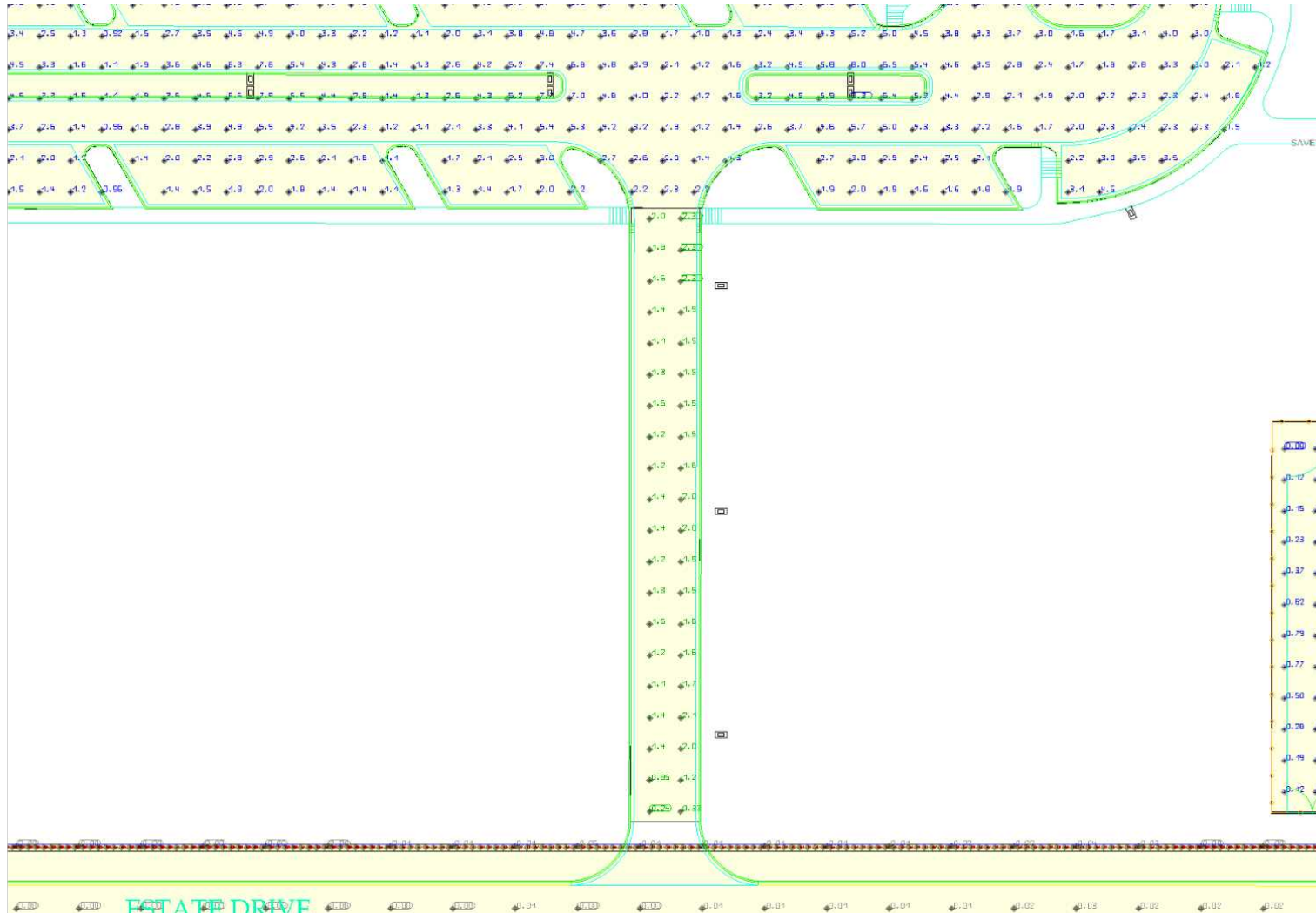
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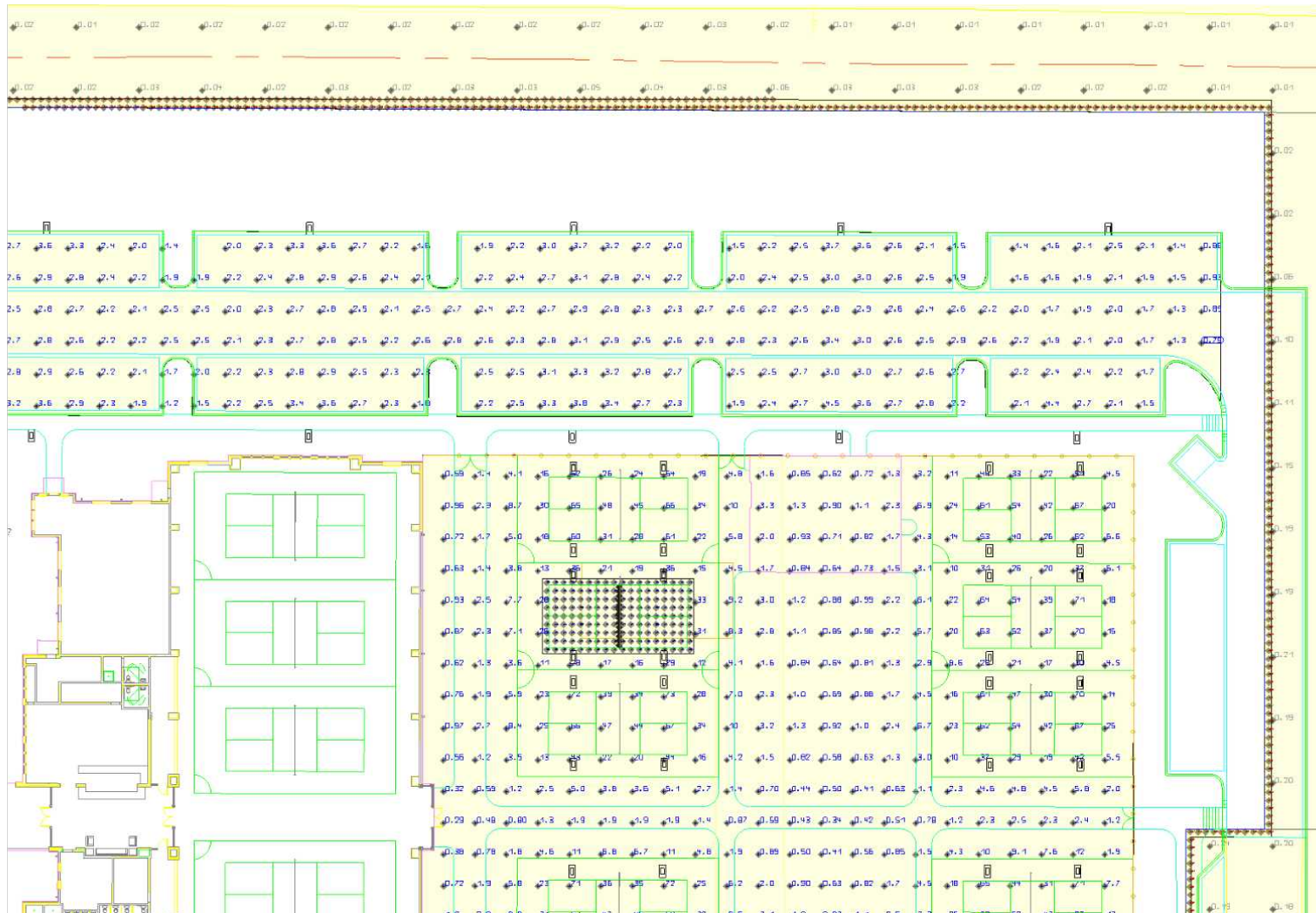
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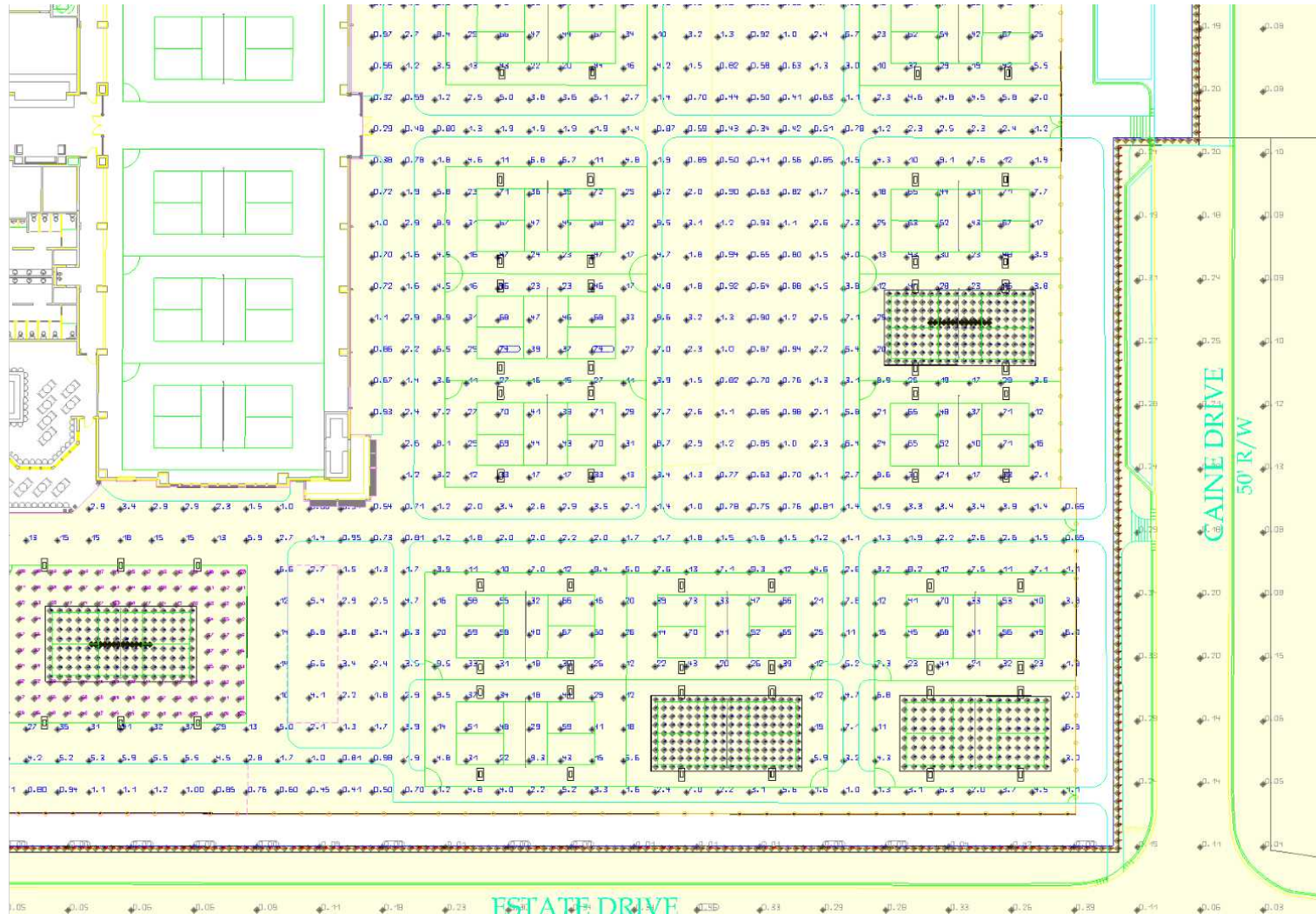
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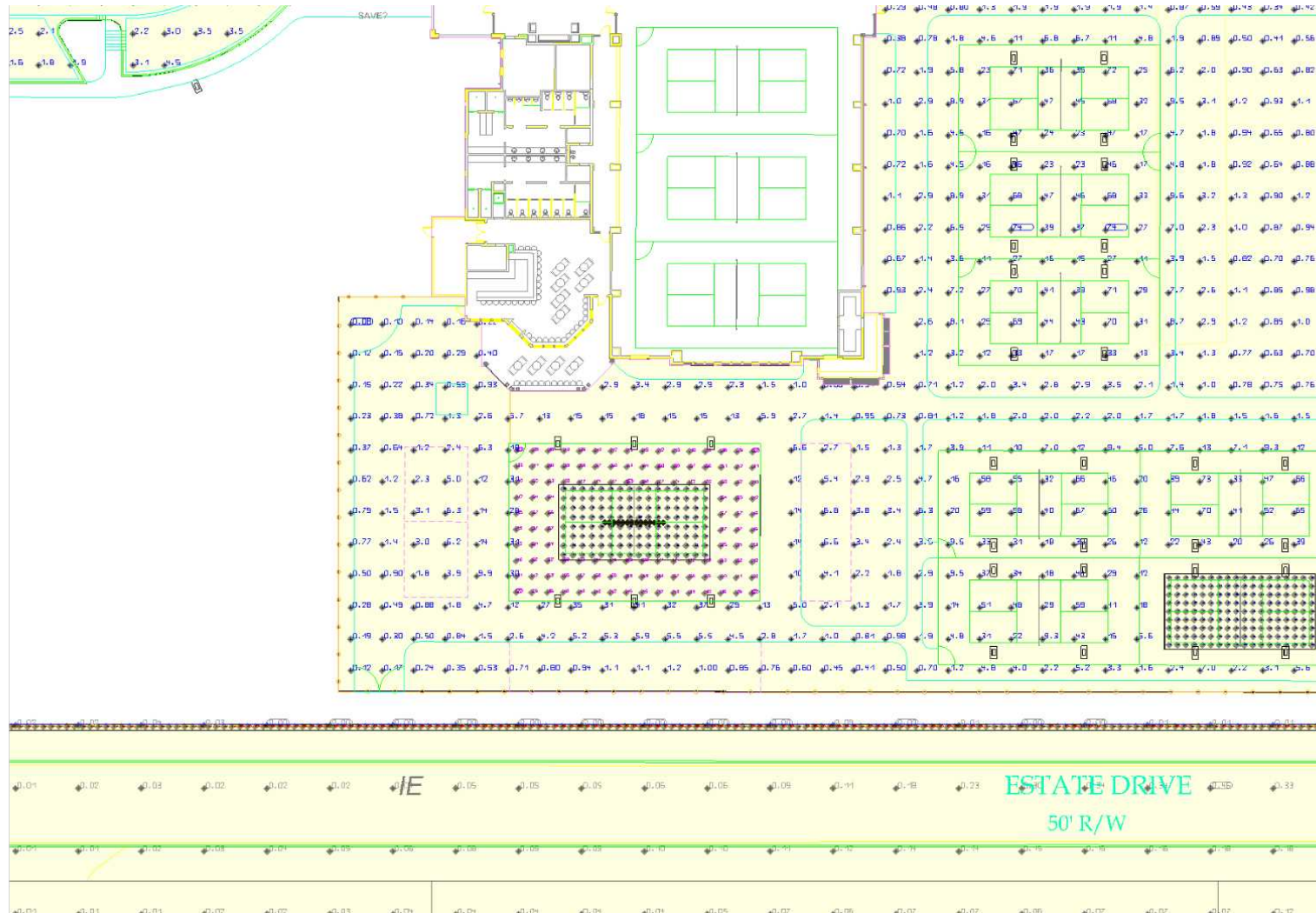
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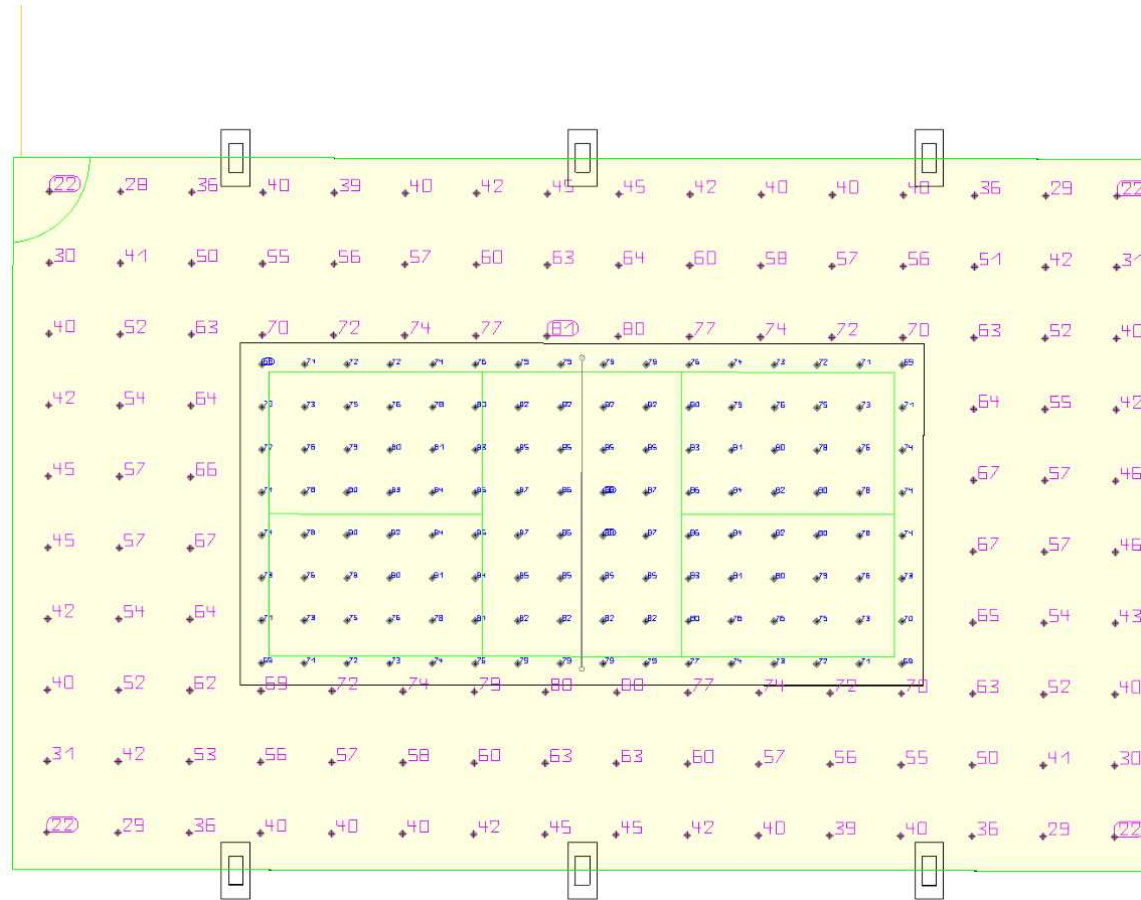
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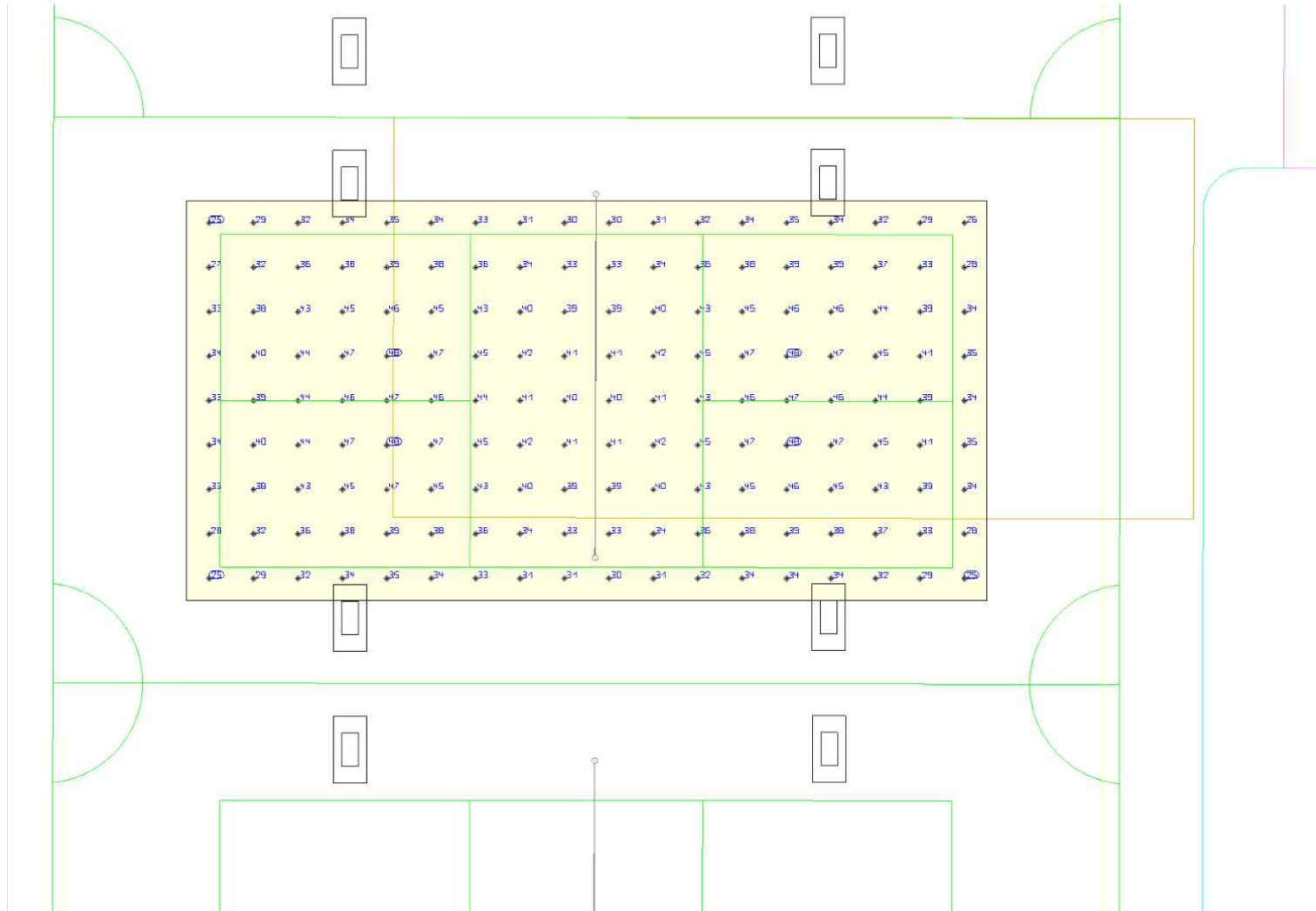
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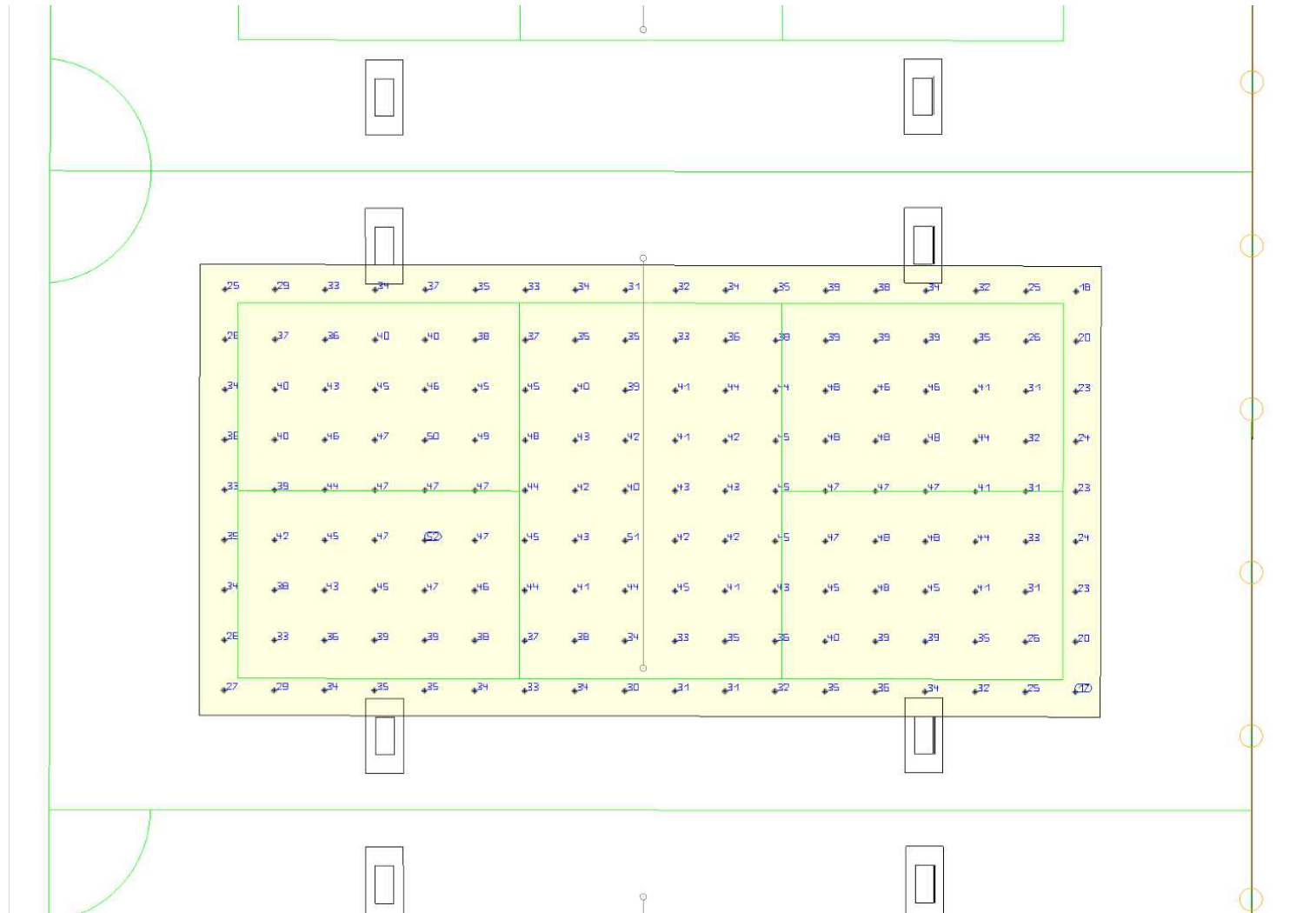
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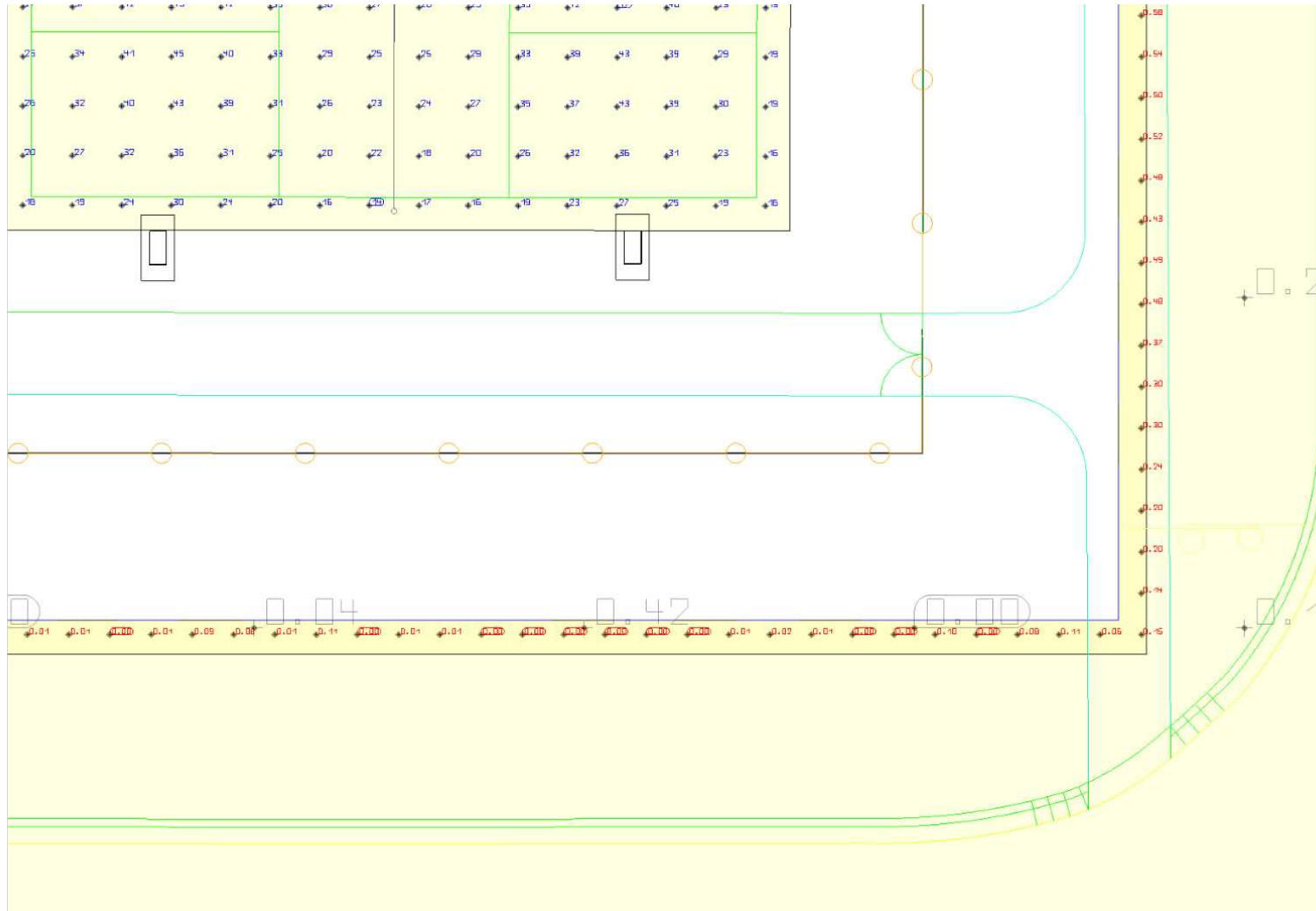
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Images



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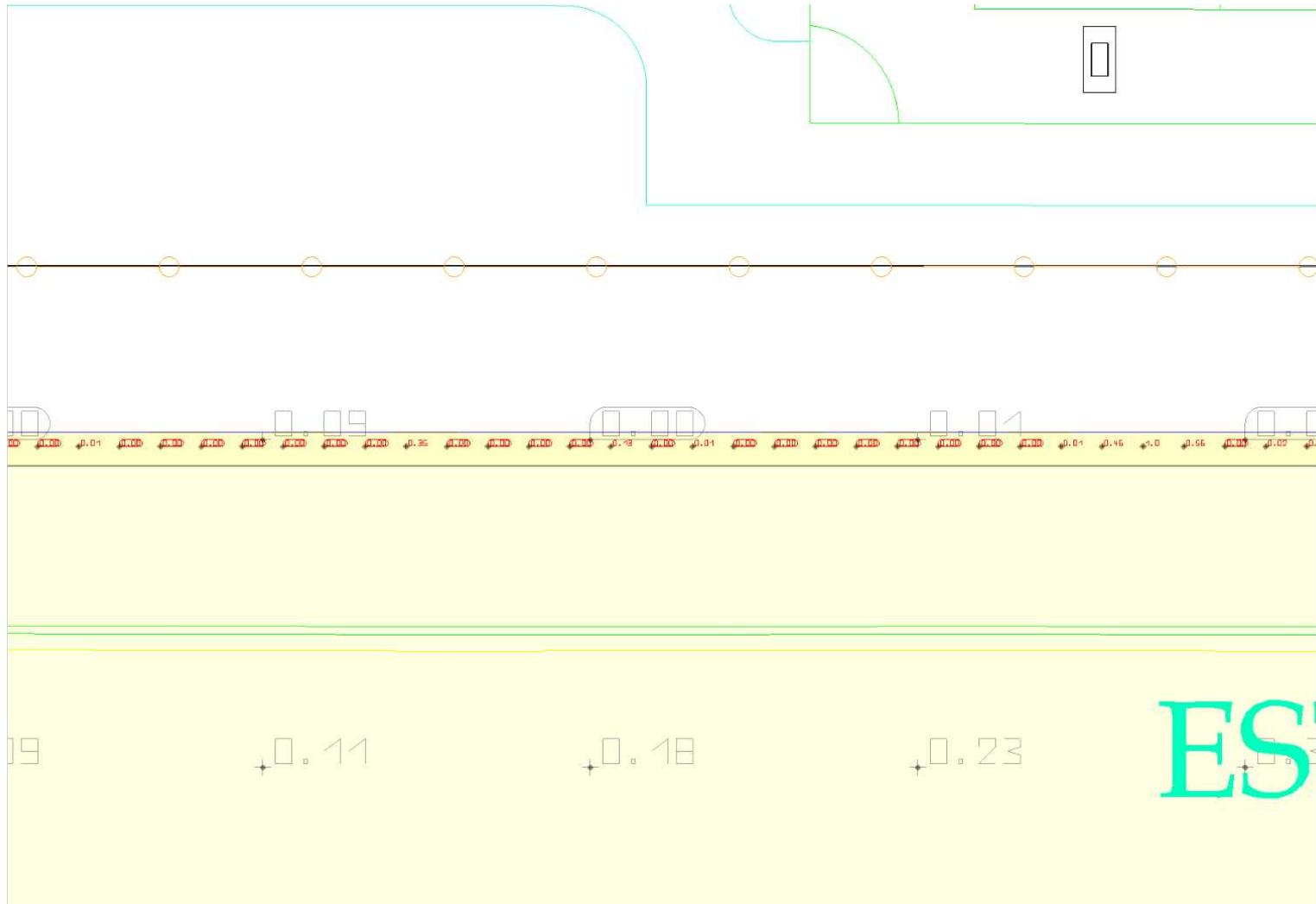
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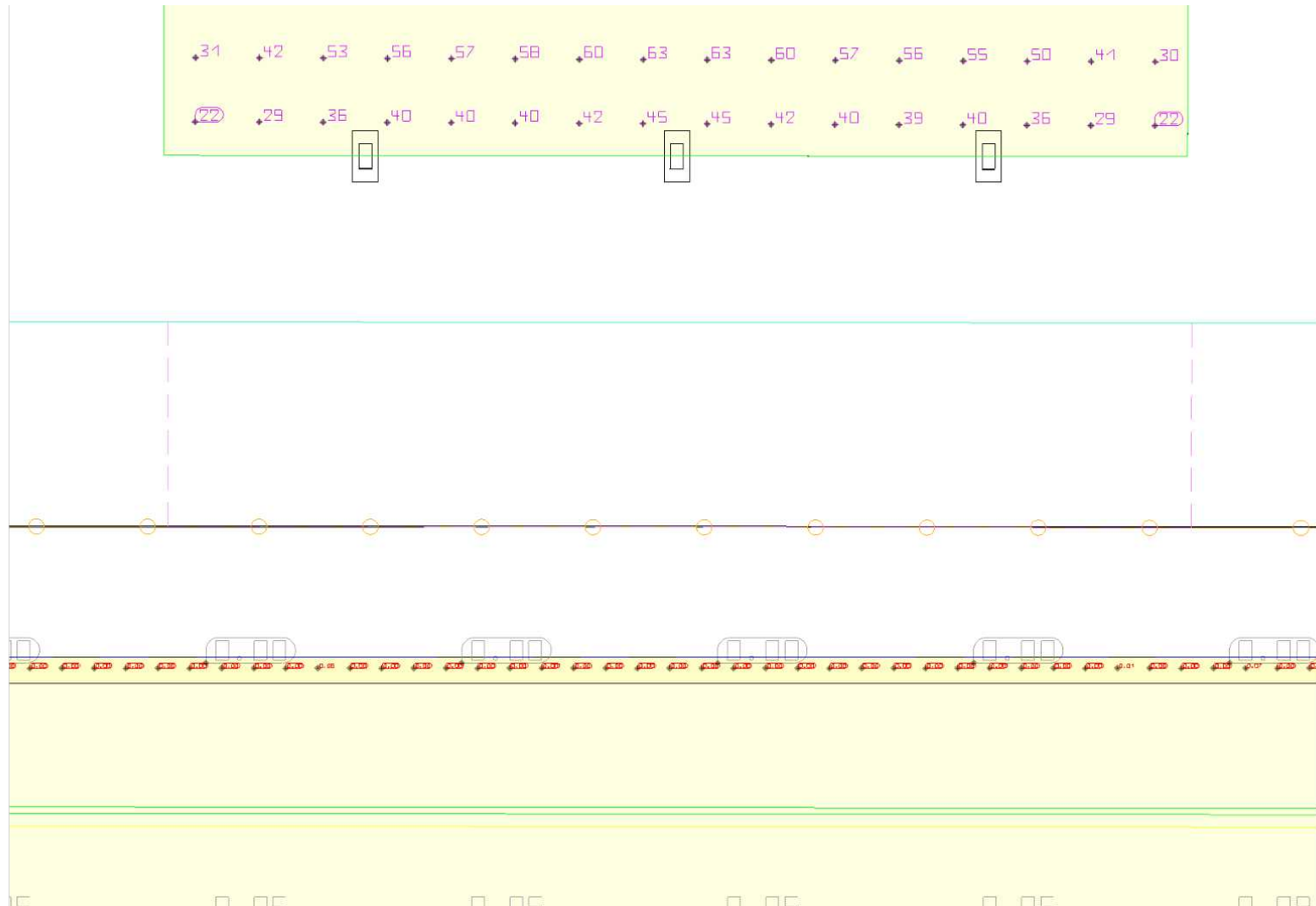
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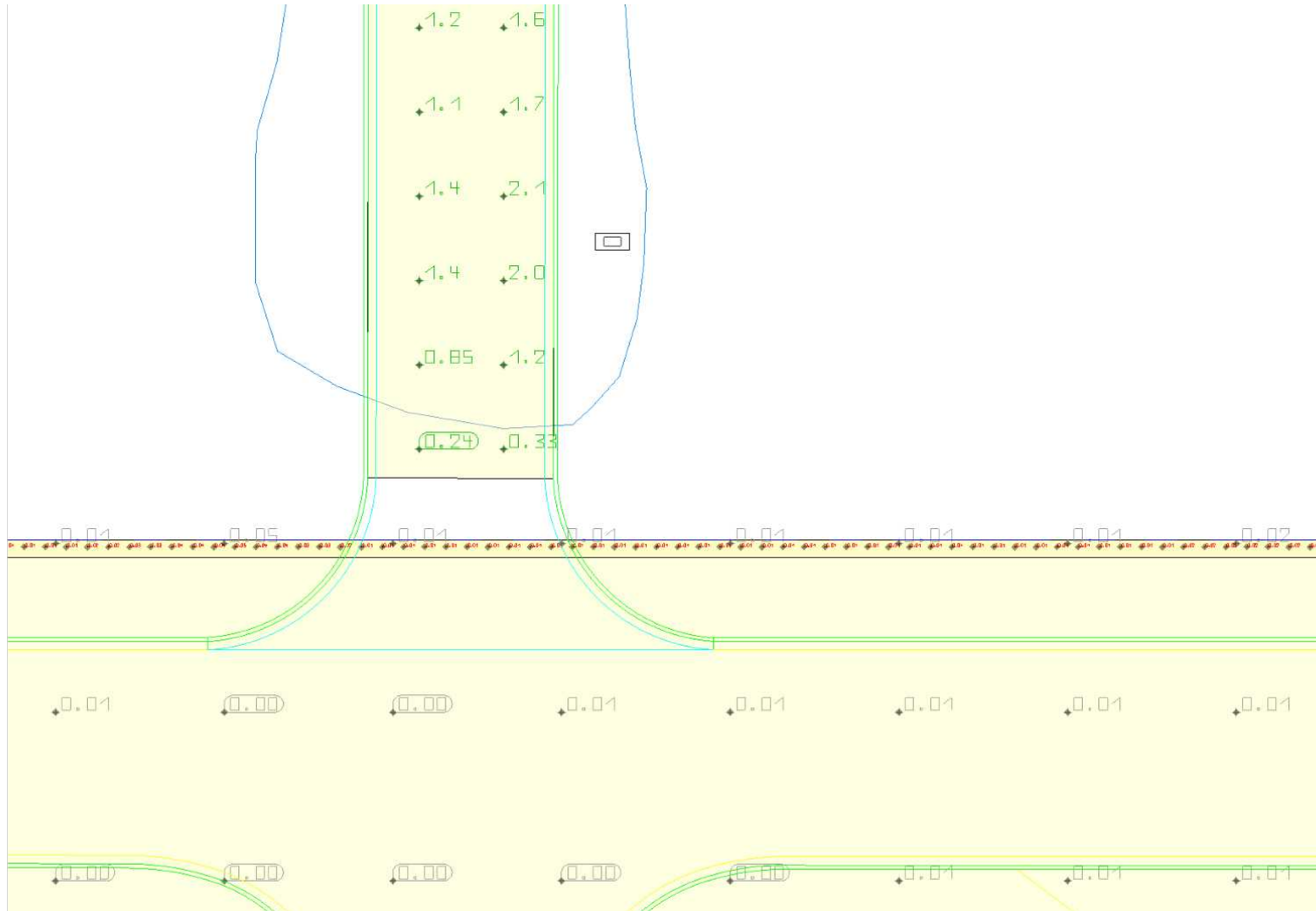
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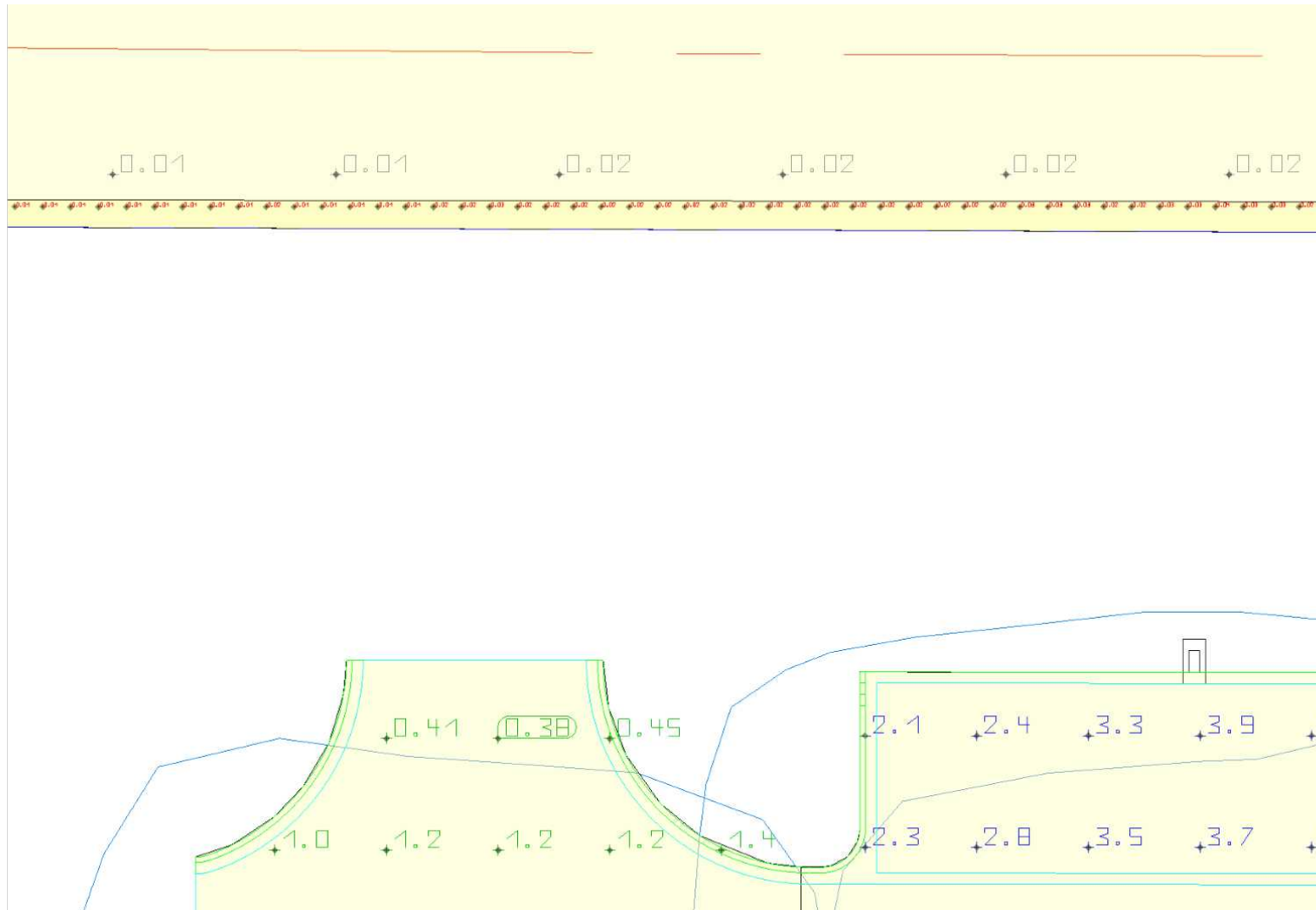


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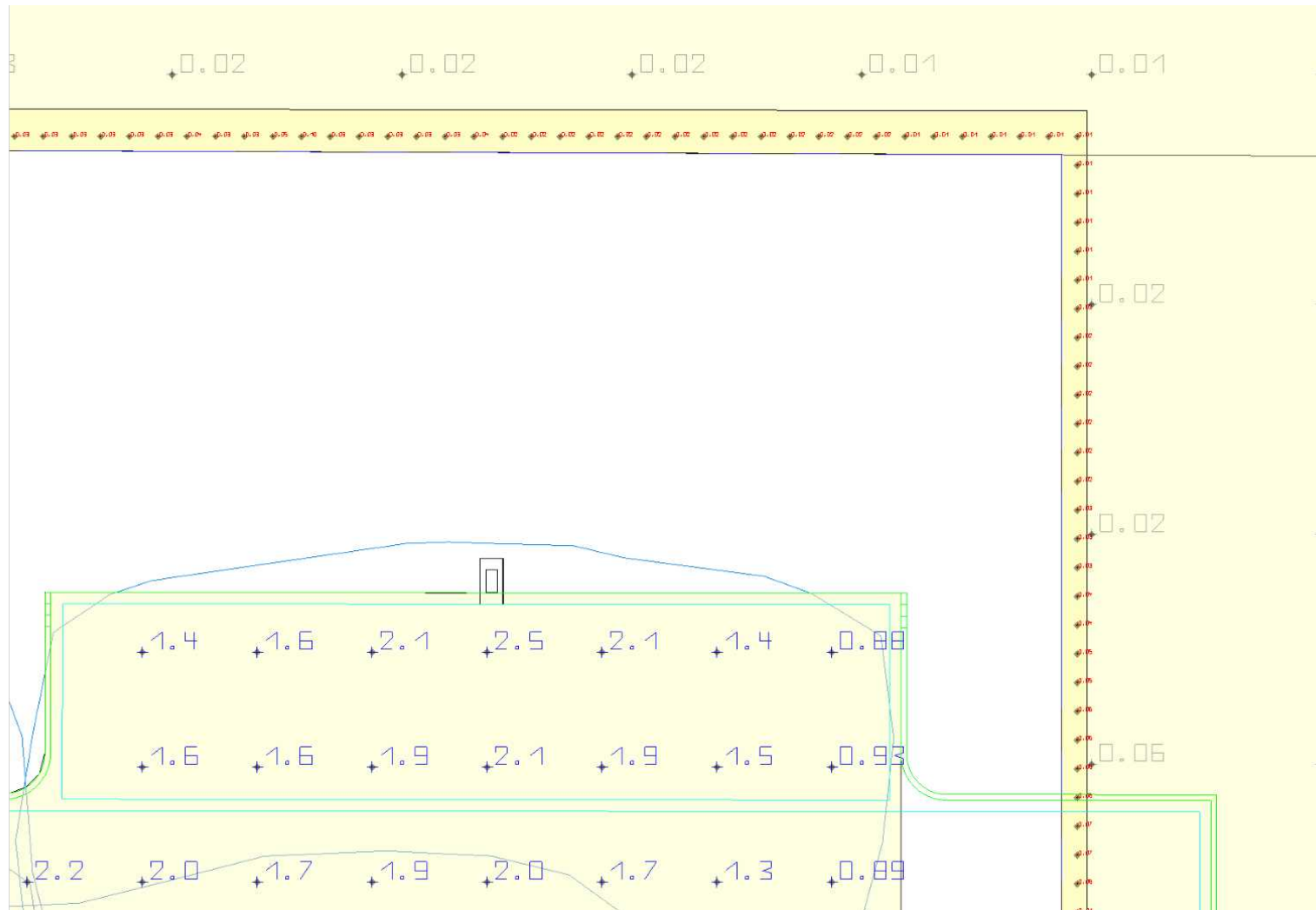


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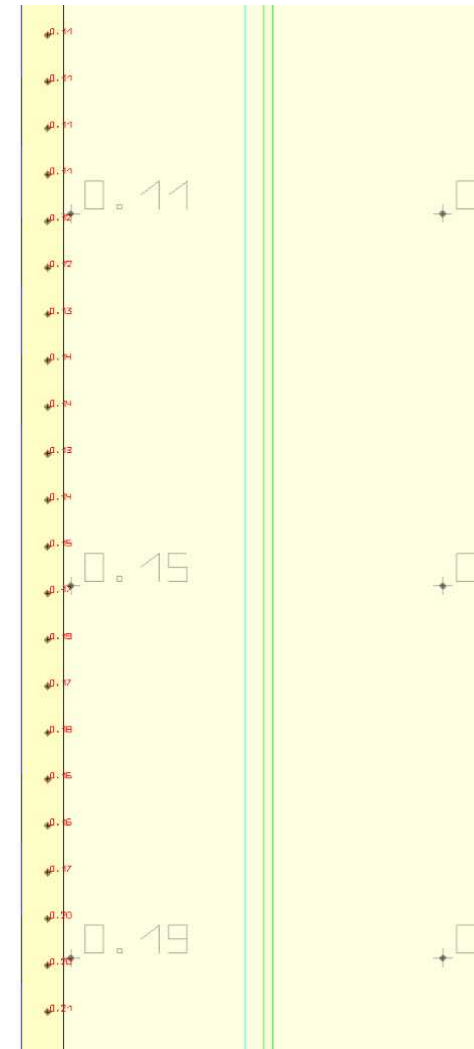
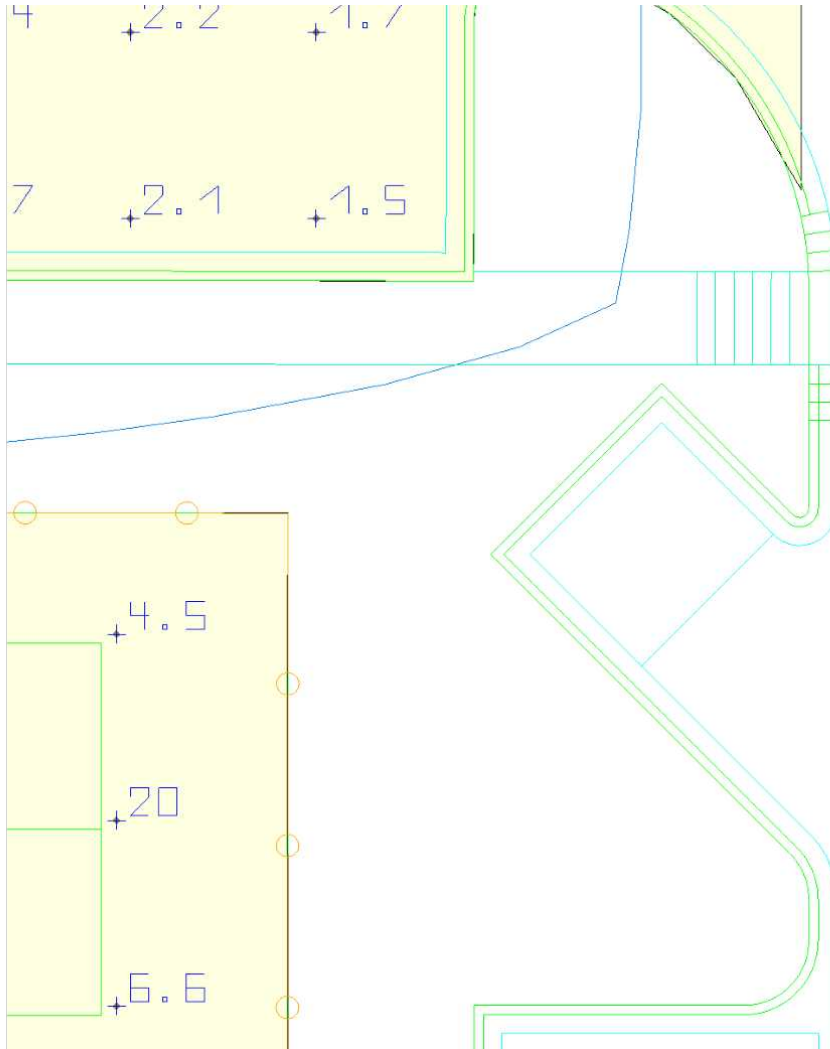
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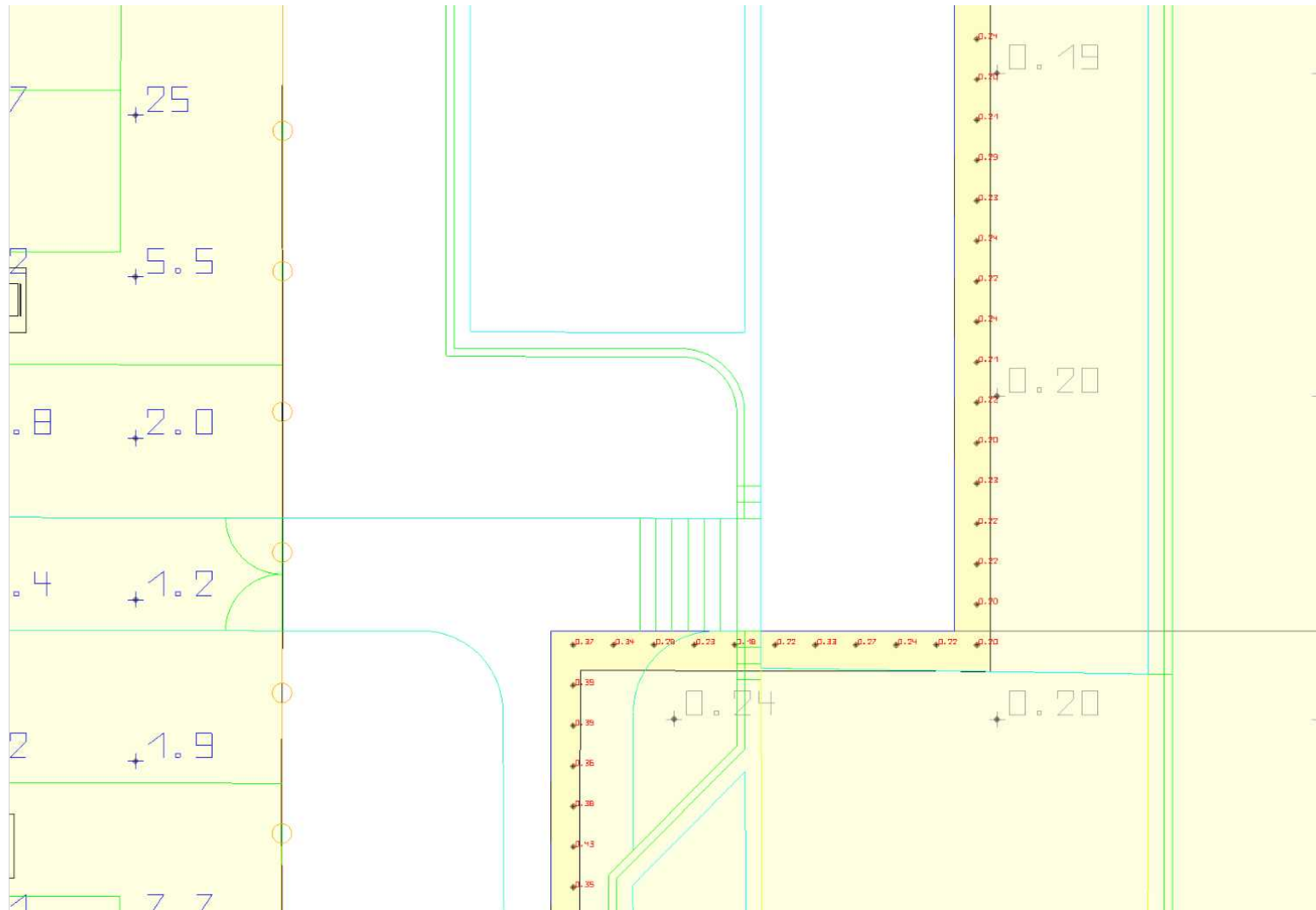


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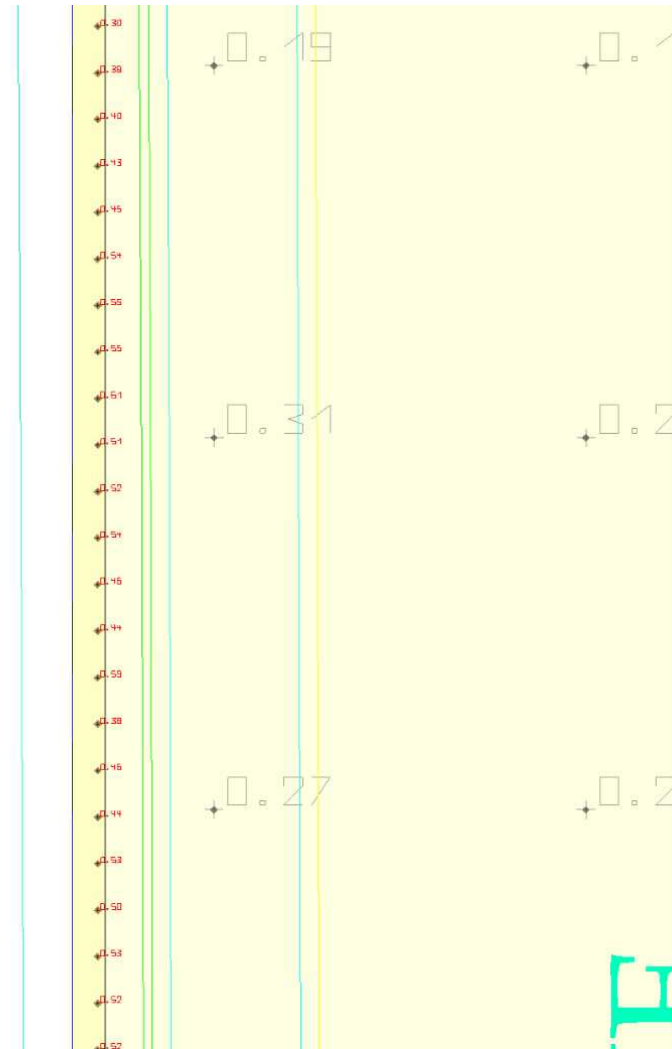
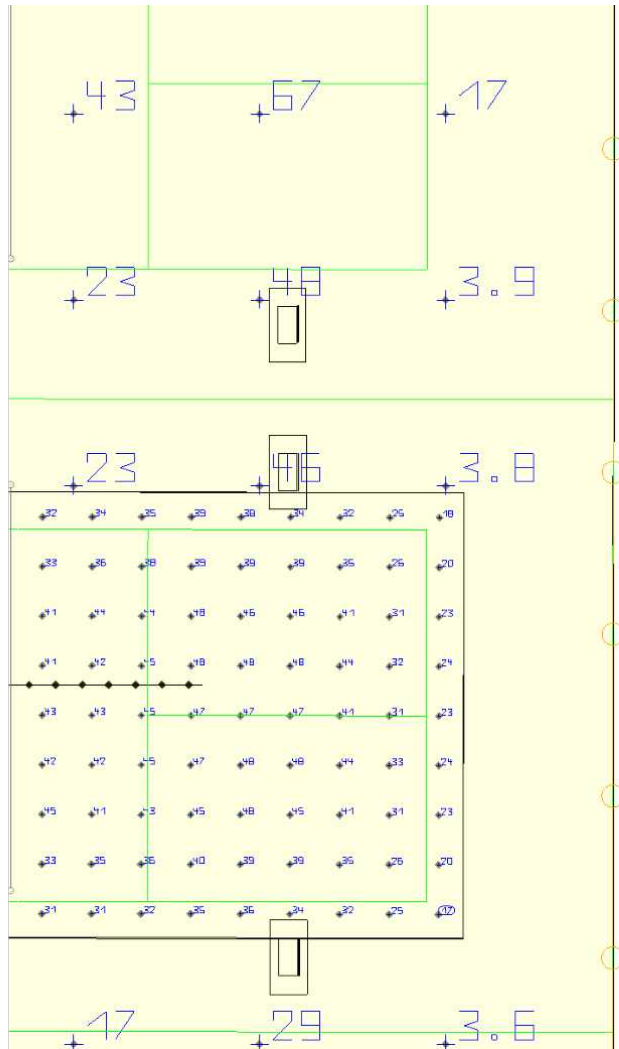
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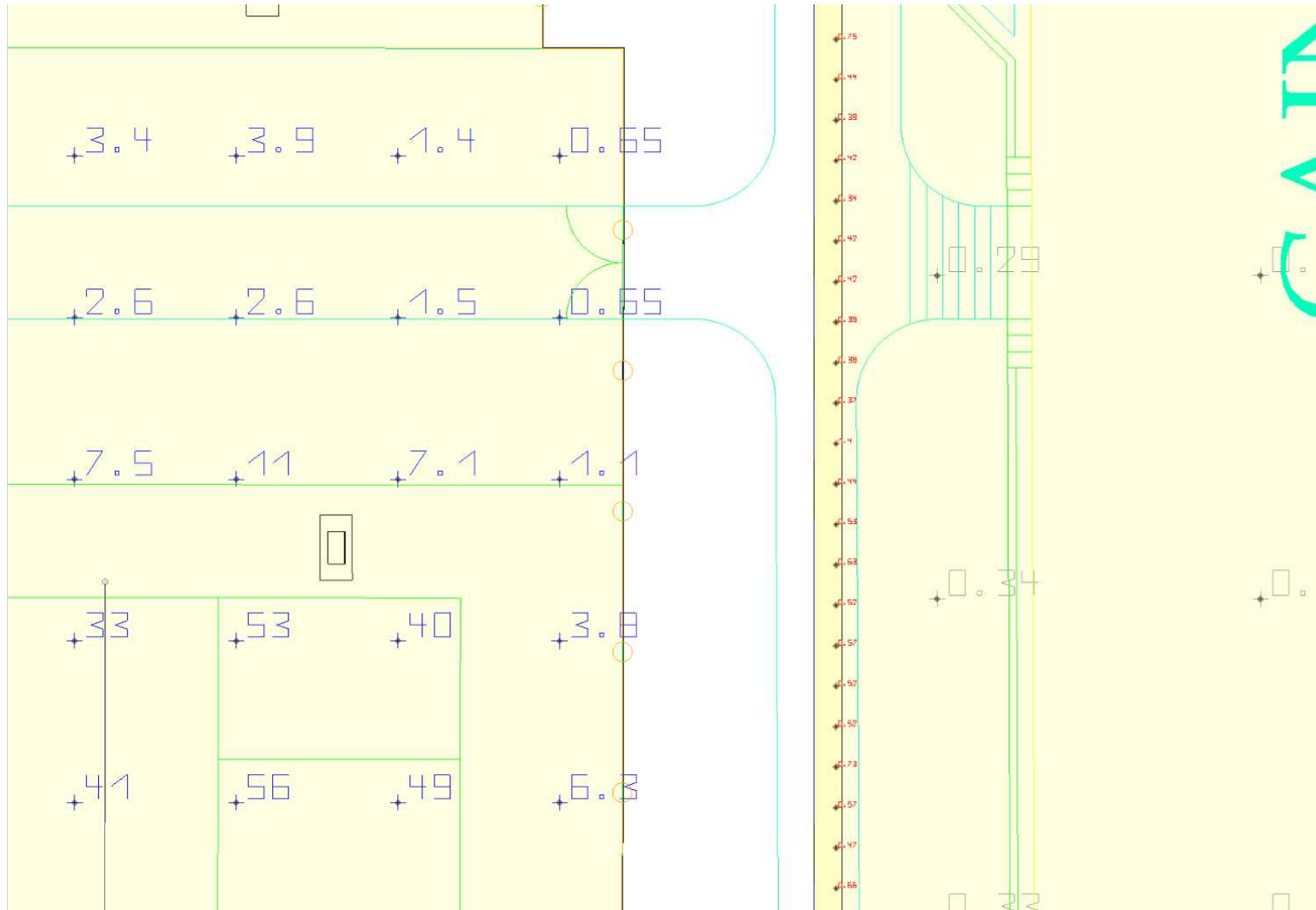
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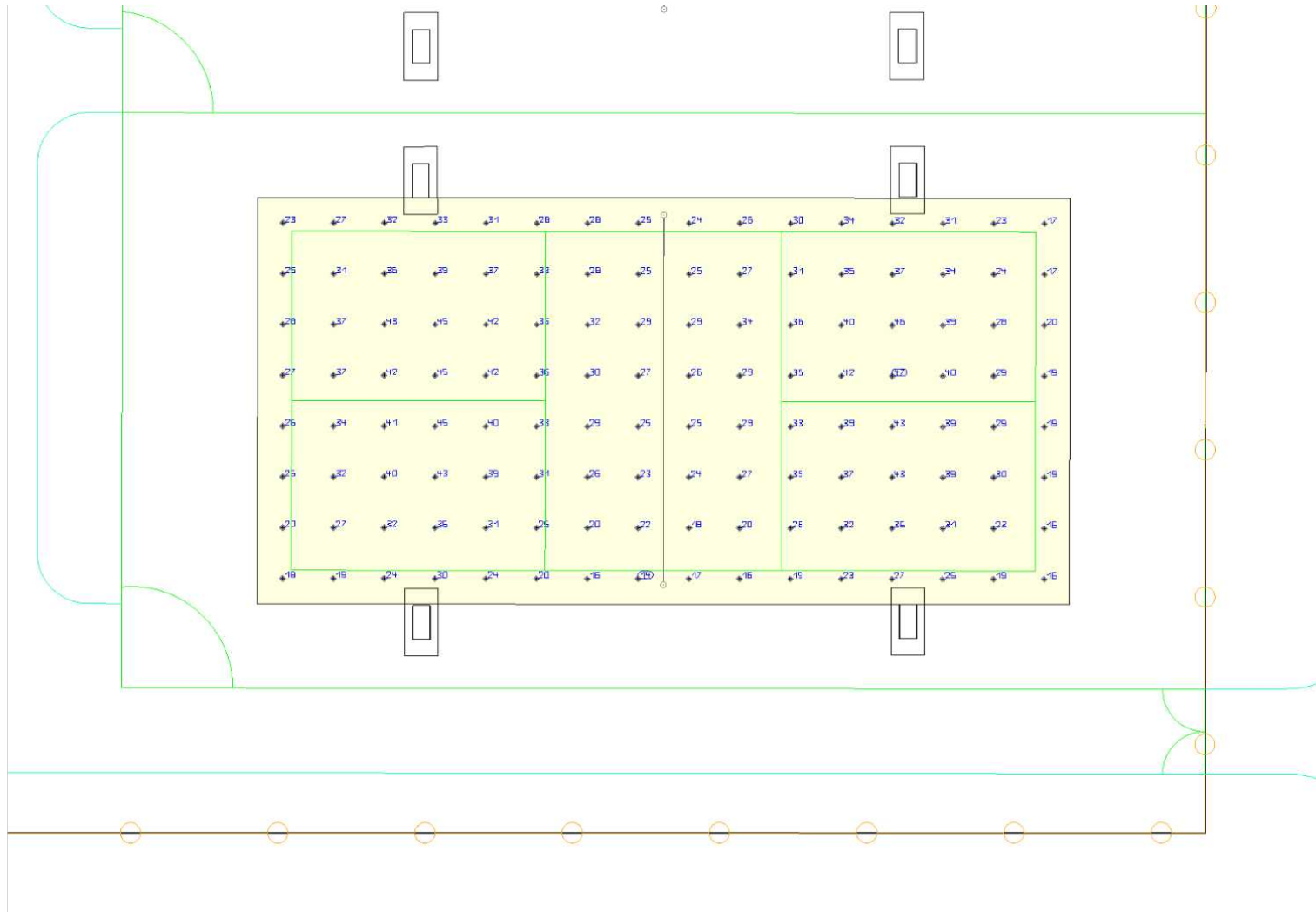
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Images



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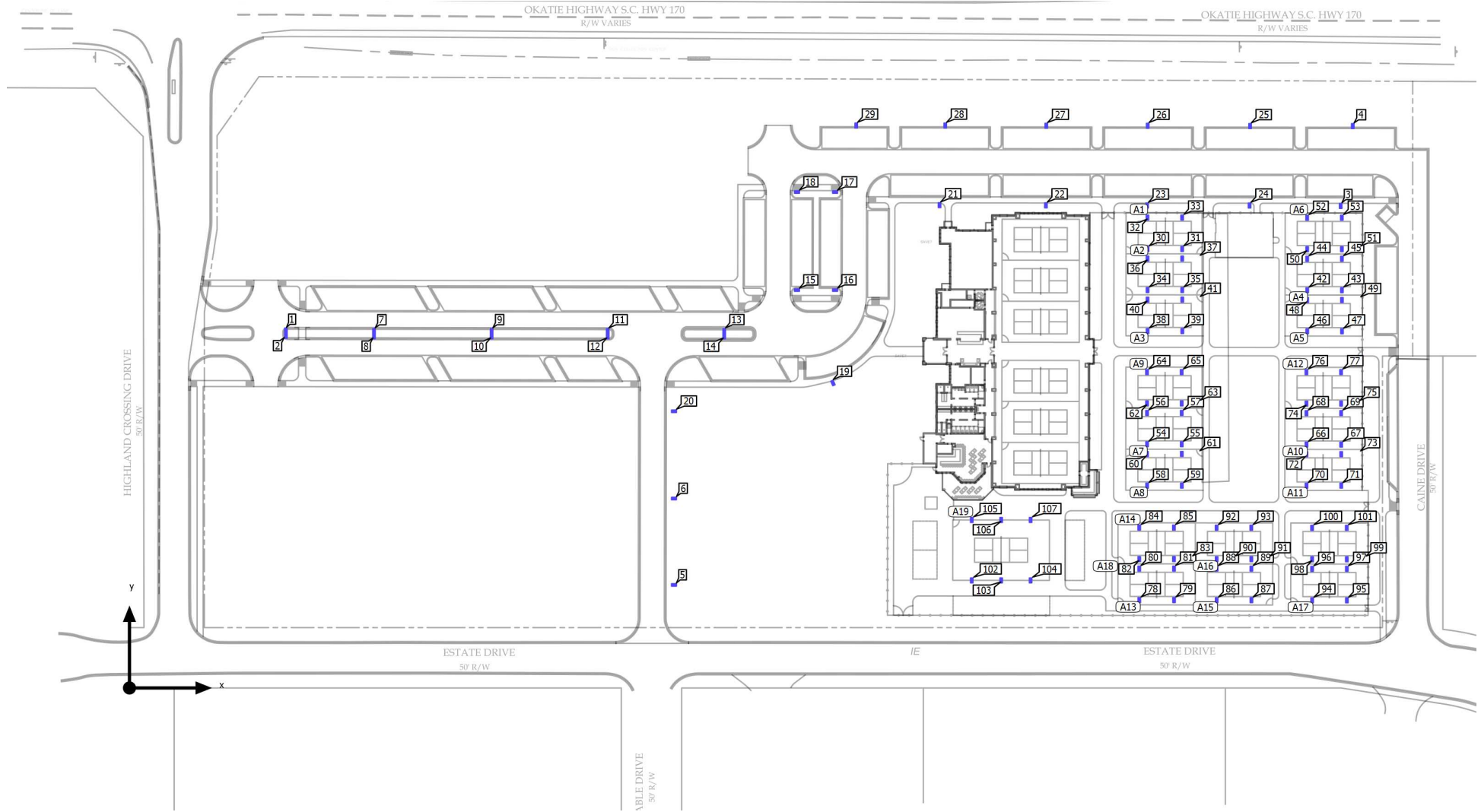
Luminaire list

Φ_{total} 2224939 lm		P_{total} 21843.0 W		Luminous efficacy 101.9 lm/W			
pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy	Index
72	NLS LIGHTING	VUE-2-TT-80L-1-50K-UNV	TT Court Optics 27.06" X 21.56"	215.0 W	22000 lm	102.3 lm/W	SP2
6	NLS LIGHTING	VUE-3-TT-192L-1-50K-UNV	TT Court Optics 32.94" X 26.17"	594.0 W	62372 lm	105.0 lm/W	SP1
2	NLS Lighting LLC	NV-1-T4-16L-1-40K-UNV	NV Series Area Lighting Fixture	56.0 W	6776 lm	121.0 lm/W	SA
13	NLS Lighting LLC	NV-1-T4-32L-1-40K-UNV	NV Series Area Lighting Fixture	106.0 W	12826 lm	121.0 lm/W	SC
9	NLS Lighting	NV-1-T4-32L-1-40K-UNV-HSS	T4 OPTICS WITH BLACK HSS	106.0 W	6998 lm	66.0 lm/W	SD
5	NLS Lighting	NV-1-T4-32L-7-40K-UNV-HSS	T4 OPTICS WITH BLACK HSS	71.0 W	4687 lm	66.0 lm/W	SB

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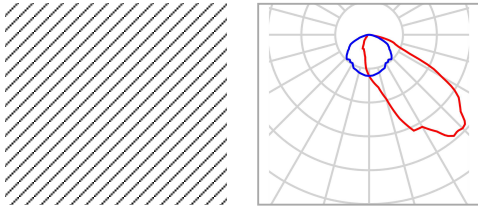
Luminaire layout plan



ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Luminaire layout plan



Manufacturer	NLS LIGHTING	P	215.0 W
Article No.	VUE-2-TT-80L-1-50K-UNV	$\Phi_{\text{Luminaire}}$	22000 lm
Article name	TT Court Optics 27.06" X 21.56"		
Fitting	1x		
Index	SP2		

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	842.524 ft / 363.596 ft / 20.000 ft	842.524 ft	363.596 ft	20.000 ft	30
X-direction	2 pcs., Center - center, Distances not equal	871.213 ft	363.633 ft	20.000 ft	31
		842.490 ft	389.678 ft	20.000 ft	32
Y-direction	2 pcs., Center - center, Distances not equal	871.179 ft	389.716 ft	20.000 ft	33
Arrangement	A1				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	842.556 ft / 329.604 ft / 20.000 ft	842.556 ft	329.604 ft	20.000 ft	34
		871.266 ft	329.642 ft	20.000 ft	35

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Luminaire layout plan

X-direction	2 pcs., Center - center, Distances not equal	X	Y	Mounting height	Luminaire
		842.522 ft	355.686 ft	20.000 ft	36
Y-direction	2 pcs., Center - center, Distances not equal	871.232 ft	355.724 ft	20.000 ft	37
Arrangement	A2				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	842.571 ft / 295.612 ft / 20.000 ft	842.571 ft	295.612 ft	20.000 ft	38
X-direction	2 pcs., Center - center, Distances not equal	871.340 ft	295.650 ft	20.000 ft	39
		842.537 ft	321.695 ft	20.000 ft	40
Y-direction	2 pcs., Center - center, Distances not equal	871.306 ft	321.732 ft	20.000 ft	41
Arrangement	A3				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	974.703 ft / 329.441 ft / 20.000 ft	974.703 ft	329.441 ft	20.000 ft	42
X-direction	2 pcs., Center - center, Distances not equal	1003.413 ft	329.478 ft	20.000 ft	43
		974.669 ft	355.523 ft	20.000 ft	44
Y-direction	2 pcs., Center - center, Distances not equal	1003.379 ft	355.561 ft	20.000 ft	45
Arrangement	A4				

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321



Luminaire layout plan

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	974.717 ft / 295.449 ft / 20.000 ft	974.717 ft	295.449 ft	20.000 ft	46
X-direction	2 pcs., Center - center, Distances not equal	1003.486 ft	295.486 ft	20.000 ft	47
		974.683 ft	321.367 ft	20.000 ft	48
Y-direction	2 pcs., Center - center, Distances not equal	1003.452 ft	321.405 ft	20.000 ft	49
Arrangement	A5				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	974.670 ft / 363.432 ft / 20.000 ft	974.670 ft	363.432 ft	20.000 ft	50
X-direction	2 pcs., Center - center, Distances not equal	1003.360 ft	363.470 ft	20.000 ft	51
		974.636 ft	389.515 ft	20.000 ft	52
Y-direction	2 pcs., Center - center, Distances not equal	1003.326 ft	389.552 ft	20.000 ft	53
Arrangement	A6				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	842.161 ft / 201.889 ft / 20.000 ft	842.161 ft	201.889 ft	20.000 ft	54
		870.871 ft	201.927 ft	20.000 ft	55

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Luminaire layout plan

X-direction	2 pcs., Center - center, Distances not equal	X	Y	Mounting height	Luminaire
		842.127 ft	227.807 ft	20.000 ft	56
Y-direction	2 pcs., Center - center, Distances not equal	870.837 ft	227.845 ft	20.000 ft	57
Arrangement	A7				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	842.176 ft / 167.570 ft / 20.000 ft	842.176 ft	167.570 ft	20.000 ft	58
X-direction	2 pcs., Center - center, Distances not equal	870.945 ft	167.607 ft	20.000 ft	59
		842.141 ft	193.816 ft	20.000 ft	60
Y-direction	2 pcs., Center - center, Distances not equal	870.910 ft	193.854 ft	20.000 ft	61
Arrangement	A8				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	842.128 ft / 235.717 ft / 20.000 ft	842.128 ft	235.717 ft	20.000 ft	62
X-direction	2 pcs., Center - center, Distances not equal	870.818 ft	235.755 ft	20.000 ft	63
		842.094 ft	261.635 ft	20.000 ft	64
Y-direction	2 pcs., Center - center, Distances not equal	870.784 ft	261.673 ft	20.000 ft	65
Arrangement	A9				

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321



Luminaire layout plan

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	974.094 ft / 201.562 ft / 20.000 ft	974.094 ft	201.562 ft	20.000 ft	66
X-direction	2 pcs., Center - center, Distances not equal	1002.804 ft	201.600 ft	20.000 ft	67
		974.060 ft	227.645 ft	20.000 ft	68
Y-direction	2 pcs., Center - center, Distances not equal	1002.770 ft	227.682 ft	20.000 ft	69
Arrangement	A10				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	974.109 ft / 167.570 ft / 20.000 ft	974.109 ft	167.570 ft	20.000 ft	70
X-direction	2 pcs., Center - center, Distances not equal	1002.878 ft	167.608 ft	20.000 ft	71
		974.075 ft	193.653 ft	20.000 ft	72
Y-direction	2 pcs., Center - center, Distances not equal	1002.844 ft	193.690 ft	20.000 ft	73
Arrangement	A11				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	974.062 ft / 235.554 ft / 20.000 ft	974.062 ft	235.554 ft	20.000 ft	74
		1002.751 ft	235.592 ft	20.000 ft	75

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Luminaire layout plan

X-direction	2 pcs., Center - center, Distances not equal	X	Y	Mounting height	Luminaire
		974.027 ft	261.637 ft	20.000 ft	76
Y-direction	2 pcs., Center - center, Distances not equal	1002.717 ft	261.674 ft	20.000 ft	77
Arrangement	A12				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	835.717 ft / 72.759 ft / 20.000 ft	835.717 ft	72.759 ft	20.000 ft	78
X-direction	2 pcs., Center - center, Distances not equal	864.486 ft	72.796 ft	20.000 ft	79
		835.683 ft	98.841 ft	20.000 ft	80
Y-direction	2 pcs., Center - center, Distances not equal	864.452 ft	98.879 ft	20.000 ft	81
Arrangement	A13				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	835.703 ft / 106.750 ft / 20.000 ft	835.703 ft	106.750 ft	20.000 ft	82
X-direction	2 pcs., Center - center, Distances not equal	864.413 ft	106.788 ft	20.000 ft	83
		835.669 ft	132.833 ft	20.000 ft	84
Y-direction	2 pcs., Center - center, Distances not equal	864.379 ft	132.870 ft	20.000 ft	85
Arrangement	A14				

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321



Luminaire layout plan

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	899.751 ft / 72.687 ft / 20.000 ft	899.751 ft	72.687 ft	20.000 ft	86
X-direction	2 pcs., Center - center, Distances not equal	928.520 ft	72.725 ft	20.000 ft	87
		899.716 ft	98.770 ft	20.000 ft	88
Y-direction	2 pcs., Center - center, Distances not equal	928.485 ft	98.807 ft	20.000 ft	89
Arrangement	A15				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	899.736 ft / 106.671 ft / 20.000 ft	899.736 ft	106.671 ft	20.000 ft	90
X-direction	2 pcs., Center - center, Distances not equal	928.446 ft	106.709 ft	20.000 ft	91
		899.702 ft	132.754 ft	20.000 ft	92
Y-direction	2 pcs., Center - center, Distances not equal	928.412 ft	132.791 ft	20.000 ft	93
Arrangement	A16				

4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	978.769 ft / 72.569 ft / 20.000 ft	978.769 ft	72.569 ft	20.000 ft	94
		1007.538 ft	72.606 ft	20.000 ft	95

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321



Luminaire layout plan

X-direction	2 pcs., Center - center, Distances not equal	X	Y	Mounting height	Luminaire
		978.735 ft	98.650 ft	20.000 ft	96
Y-direction	2 pcs., Center - center, Distances not equal				
		1007.504 ft	98.688 ft	20.000 ft	97
Arrangement	A17				

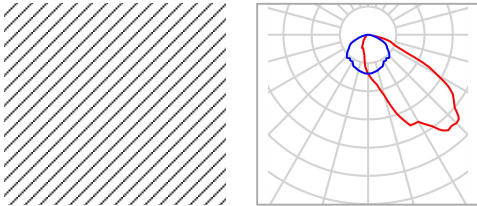
4 x NLS LIGHTING TT Court Optics 27.06" X 21.56"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	978.754 ft / 106.574 ft / 20.000 ft				
		978.754 ft	106.574 ft	20.000 ft	98
X-direction	2 pcs., Center - center, Distances not equal				
		1007.464 ft	106.611 ft	20.000 ft	99
		978.720 ft	132.656 ft	20.000 ft	100
Y-direction	2 pcs., Center - center, Distances not equal				
		1007.430 ft	132.693 ft	20.000 ft	101
Arrangement	A18				

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Luminaire layout plan



Manufacturer	NLS LIGHTING	P	594.0 W
Article No.	VUE-3-TT-192L-1-50K-UNV	$\Phi_{\text{Luminaire}}$	62372 lm
Article name	TT Court Optics 32.94" X 26.17"		
Fitting	1x		
Index	SP1		

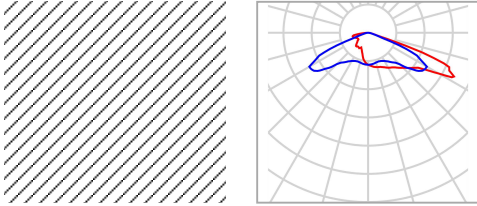
6 x NLS LIGHTING TT Court Optics 32.94" X 26.17"

Type	Field Arrangement	X	Y	Mounting height	Luminaire
1st luminaire (X/Y/Z)	697.061 ft / 89.109 ft / 25.000 ft	697.061 ft	89.109 ft	25.000 ft	102
X-direction	3 pcs., Center - center, 24.360 ft	721.421 ft	89.109 ft	25.000 ft	103
		745.781 ft	89.109 ft	25.000 ft	104
Y-direction	2 pcs., Center - center, 50.059 ft	697.061 ft	139.169 ft	25.000 ft	105
Arrangement	A19	721.421 ft	139.169 ft	25.000 ft	106
		745.781 ft	139.169 ft	25.000 ft	107

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Luminaire layout plan



Manufacturer	NLS Lighting LLC	P	56.0 W
Article No.	NV-1-T4-16L-1-40K-UNV	$\Phi_{\text{Luminaire}}$	6776 lm
Article name	NV Series Area Lighting Fixture		
Fitting	1x		
Index	SA		

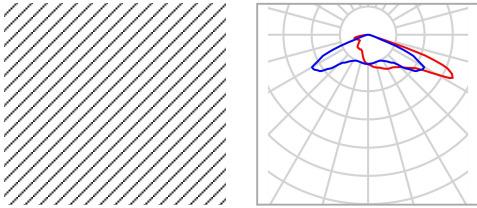
Individual luminaires

X	Y	Mounting height	Luminaire
129.470 ft	296.082 ft	20.000 ft	1
129.460 ft	291.663 ft	20.000 ft	2

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Luminaire layout plan



Manufacturer	NLS Lighting LLC	P	106.0 W
Article No.	NV-1-T4-32L-1-40K-UNV	$\Phi_{\text{Luminaire}}$	12826 lm
Article name	NV Series Area Lighting Fixture		
Fitting	1x		
Index	SC		

Individual luminaires

X	Y	Mounting height	Luminaire
202.370 ft	295.670 ft	20.000 ft	7
202.361 ft	291.250 ft	20.000 ft	8
299.705 ft	295.670 ft	20.000 ft	9
299.695 ft	291.250 ft	20.000 ft	10
395.798 ft	295.670 ft	20.000 ft	11
395.788 ft	291.250 ft	20.000 ft	12
492.209 ft	295.670 ft	20.000 ft	13
492.199 ft	291.250 ft	20.000 ft	14
552.431 ft	329.614 ft	20.000 ft	15
583.961 ft	329.614 ft	20.000 ft	16
583.961 ft	410.838 ft	20.000 ft	17

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

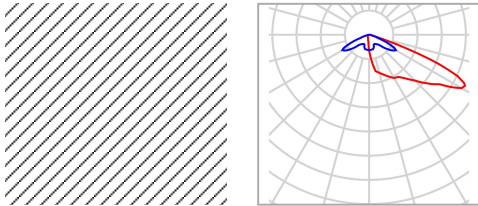
Luminaire layout plan

X	Y	Mounting height	Luminaire
552.431 ft	410.838 ft	20.000 ft	18
582.197 ft	252.629 ft	20.000 ft	19

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Luminaire layout plan



Manufacturer	NLS Lighting	P	106.0 W
Article No.	NV-1-T4-32L-1-40K-UNV-HSS	$\Phi_{\text{Luminaire}}$	6998 lm
Article name	T4 OPTICS WITH BLACK HSS		
Fitting	1x		
Index	SD		

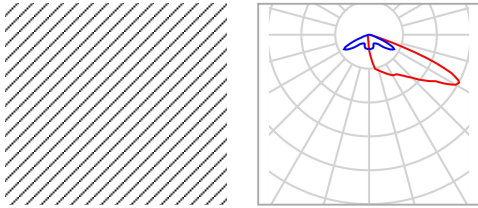
Individual luminaires

X	Y	Mounting height	Luminaire
670.412 ft	399.966 ft	20.000 ft	21
758.434 ft	399.804 ft	20.000 ft	22
842.164 ft	399.660 ft	20.000 ft	23
926.980 ft	399.673 ft	20.000 ft	24
927.410 ft	465.474 ft	20.000 ft	25
842.675 ft	465.721 ft	20.000 ft	26
758.752 ft	465.718 ft	20.000 ft	27
675.131 ft	465.889 ft	20.000 ft	28
601.469 ft	465.923 ft	20.000 ft	29

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Luminaire layout plan



Manufacturer	NLS Lighting	P	71.0 W
Article No.	NV-1-T4-32L-7-40K-UNV-HSS	$\Phi_{\text{Luminaire}}$	4687 lm
Article name	T4 OPTICS WITH BLACK HSS		
Fitting	1x		
Index	SB		

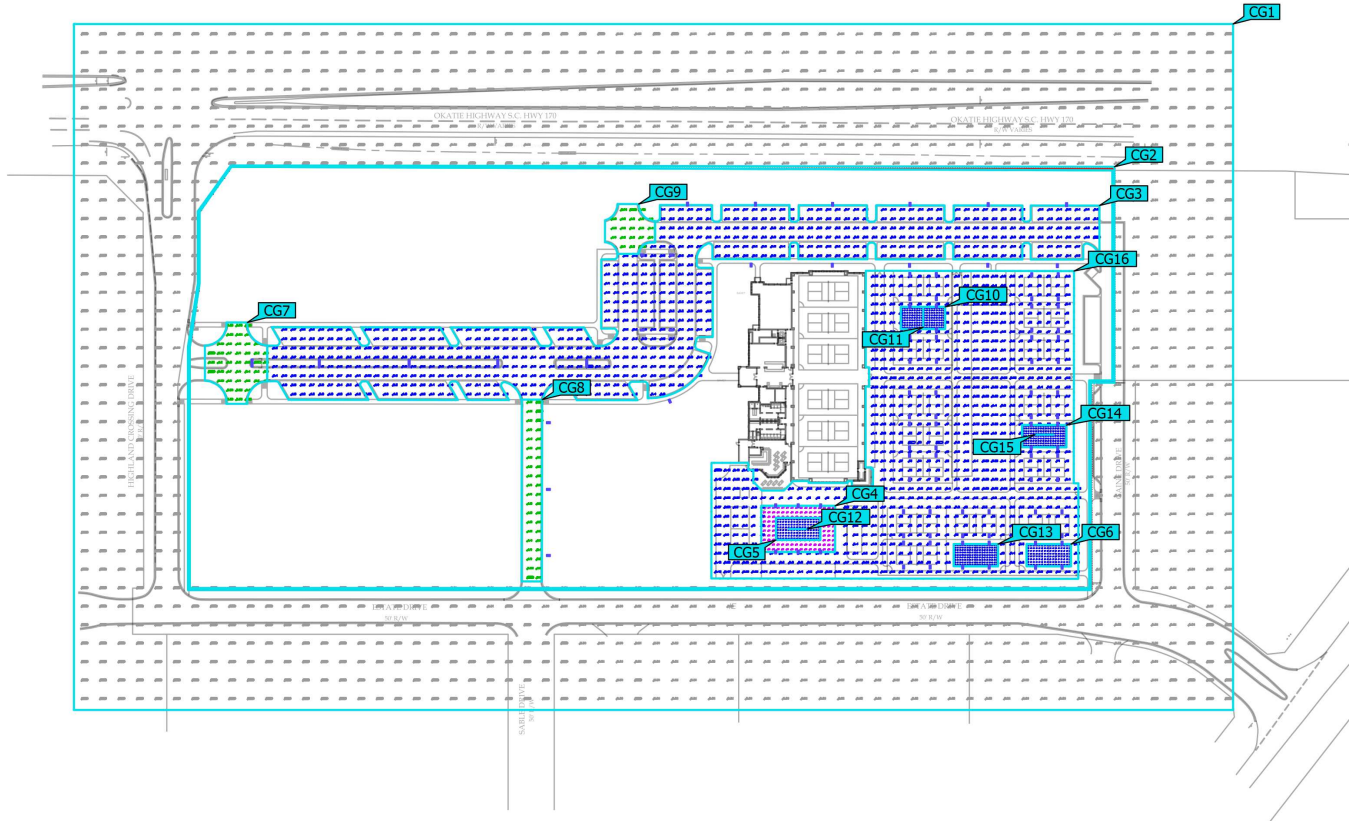
Individual luminaires

X	Y	Mounting height	Luminaire
1002.399 ft	399.307 ft	20.000 ft	3
1012.400 ft	465.462 ft	20.000 ft	4
450.636 ft	85.344 ft	20.000 ft	5
450.637 ft	156.916 ft	20.000 ft	6
450.636 ft	229.229 ft	20.000 ft	20

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

Calculation objects



ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321



Calculation objects

Calculation surfaces

Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
SPILL LIGHT Perpendicular illuminance Height: 0.000 ft	0.021 fc	0.000 fc	0.46 fc	-	-	CG1
PROPERTY LINE Perpendicular illuminance Height: 0.000 ft	0.069 fc	0.000 fc	2.10 fc	-	-	CG2
PARKING LOT Perpendicular illuminance Height: 0.000 ft	2.70 fc	0.79 fc	8.32 fc	3.43	10.6	CG3
CHAMPIONSHIP COURT AREA Perpendicular illuminance Height: 0.000 ft	52.3 fc	21.5 fc	80.7 fc	2.43	3.75	CG4
CHAMPIONSHIP COURT #1 Perpendicular illuminance Height: 0.000 ft	78.4 fc	68.4 fc	87.7 fc	1.15	1.28	CG5
COURT #25 (TYPICAL) Perpendicular illuminance Height: 0.000 ft	29.9 fc	14.3 fc	47.0 fc	2.09	3.29	CG6
ENTRANCE - HIGHLAND CROSSING Perpendicular illuminance Height: 0.000 ft	1.68 fc	0.35 fc	4.82 fc	4.77	13.7	CG7
ENTRANCE - ESTATE DR Perpendicular illuminance Height: 0.000 ft	1.50 fc	0.24 fc	2.31 fc	6.20	9.51	CG8
ENTRANCE - OKATIE HWY Perpendicular illuminance Height: 0.000 ft	1.96 fc	0.38 fc	4.86 fc	5.16	12.8	CG9
COURT #9 (TYPICAL) Perpendicular illuminance Height: 0.000 ft	38.3 fc	25.0 fc	48.0 fc	1.53	1.92	CG10

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321



Calculation objects

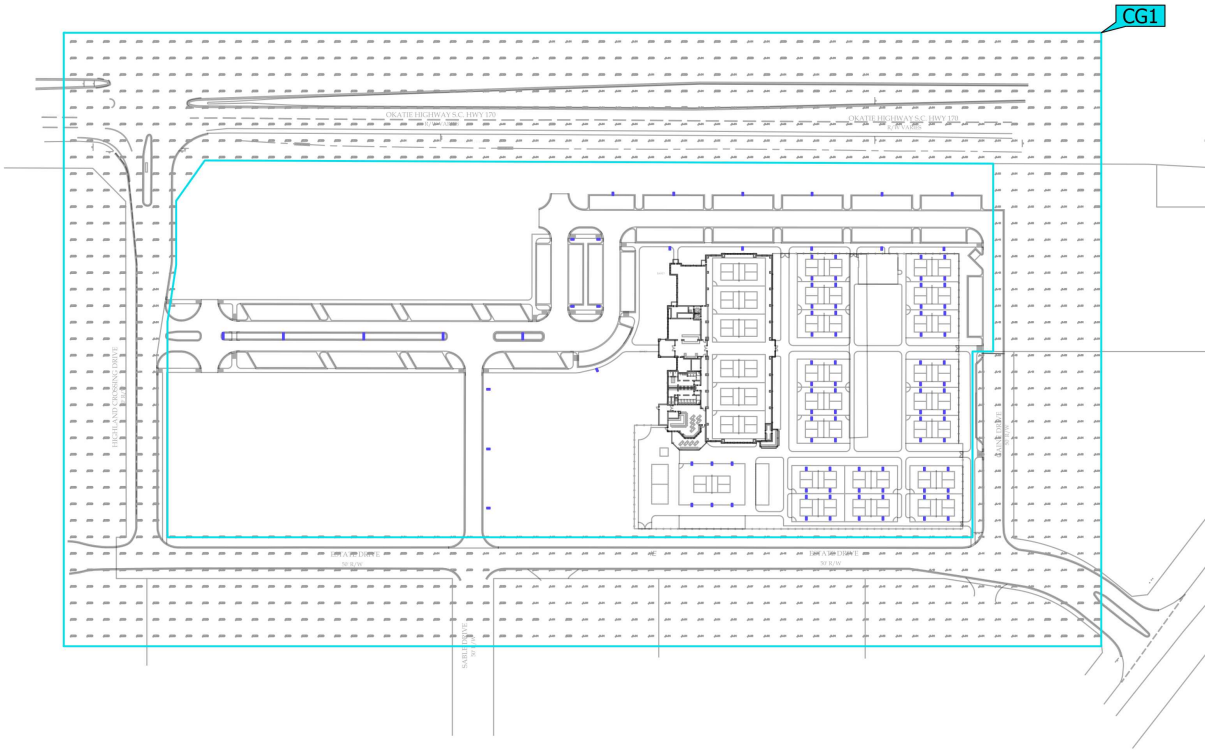
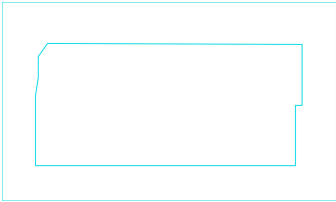
COURT #9 (TYPICAL) - VERTICAL FC Perpendicular illuminance Height: 5.000 ft	20.5 fc	13.7 fc	26.8 fc	1.49	1.95	CG11
COURT #9 (TYPICAL) - VERTICAL FC Vertical illuminance Rotation: 0.0°, Height: 5.000 ft	20.5 fc	13.7 fc	26.9 fc	1.50	1.96	CG11
CHAMPIONSHIP COURT #1 - VERTICAL FC Perpendicular illuminance Height: 5.000 ft	51.5 fc	48.4 fc	54.2 fc	1.06	1.12	CG12
CHAMPIONSHIP COURT #1 - VERTICAL FC Vertical illuminance Rotation: 0.0°, Height: 5.000 ft	27.7 fc	20.3 fc	36.5 fc	1.36	1.80	CG12
COURT #23 (TYPICAL) Perpendicular illuminance Height: 0.000 ft	31.4 fc	14.0 fc	47.2 fc	2.25	3.38	CG13
COURT #18 (TYPICAL) Perpendicular illuminance Height: 0.000 ft	38.2 fc	17.4 fc	51.9 fc	2.19	2.98	CG14
COURT #18 (TYPICAL) - VERTICAL FC Perpendicular illuminance Height: 5.000 ft	25.7 fc	19.6 fc	35.4 fc	1.31	1.80	CG15
COURT #18 (TYPICAL) - VERTICAL FC Vertical illuminance Rotation: 0.0°, Height: 5.000 ft	22.0 fc	13.5 fc	33.3 fc	1.63	2.47	CG15
COURTS SITE Perpendicular illuminance Height: 8.000 ft	15.2 fc	0.084 fc	74.3 fc	181	885	CG16
COURTS SITE Vertical illuminance Rotation: 0.0°, Height: 8.000 ft	8.13 fc	0.45 fc	38.8 fc	18.1	86.2	CG16

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

SPILL LIGHT



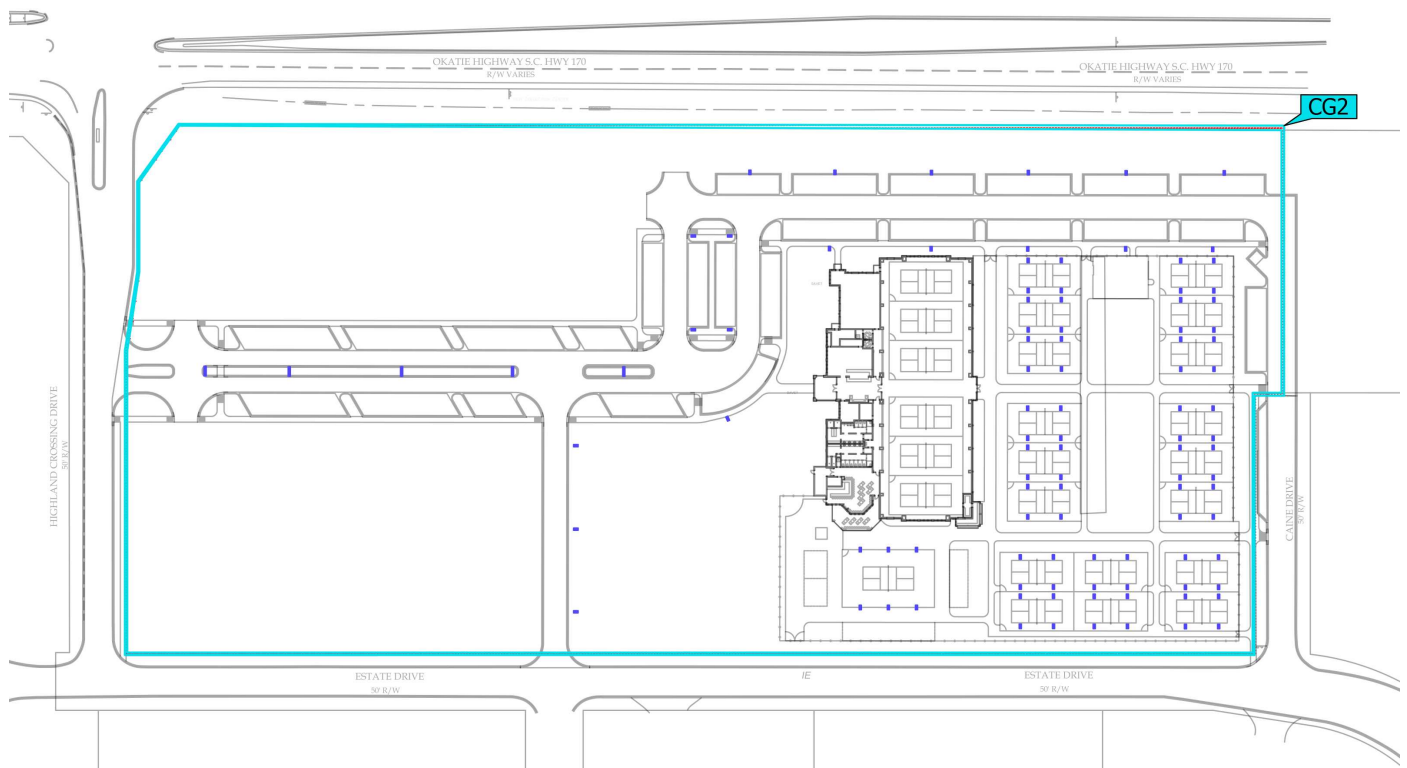
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
SPILL LIGHT Perpendicular illuminance Height: 0.000 ft	0.021 fc	0.000 fc	0.46 fc	-	-	CG1

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

PROPERTY LINE



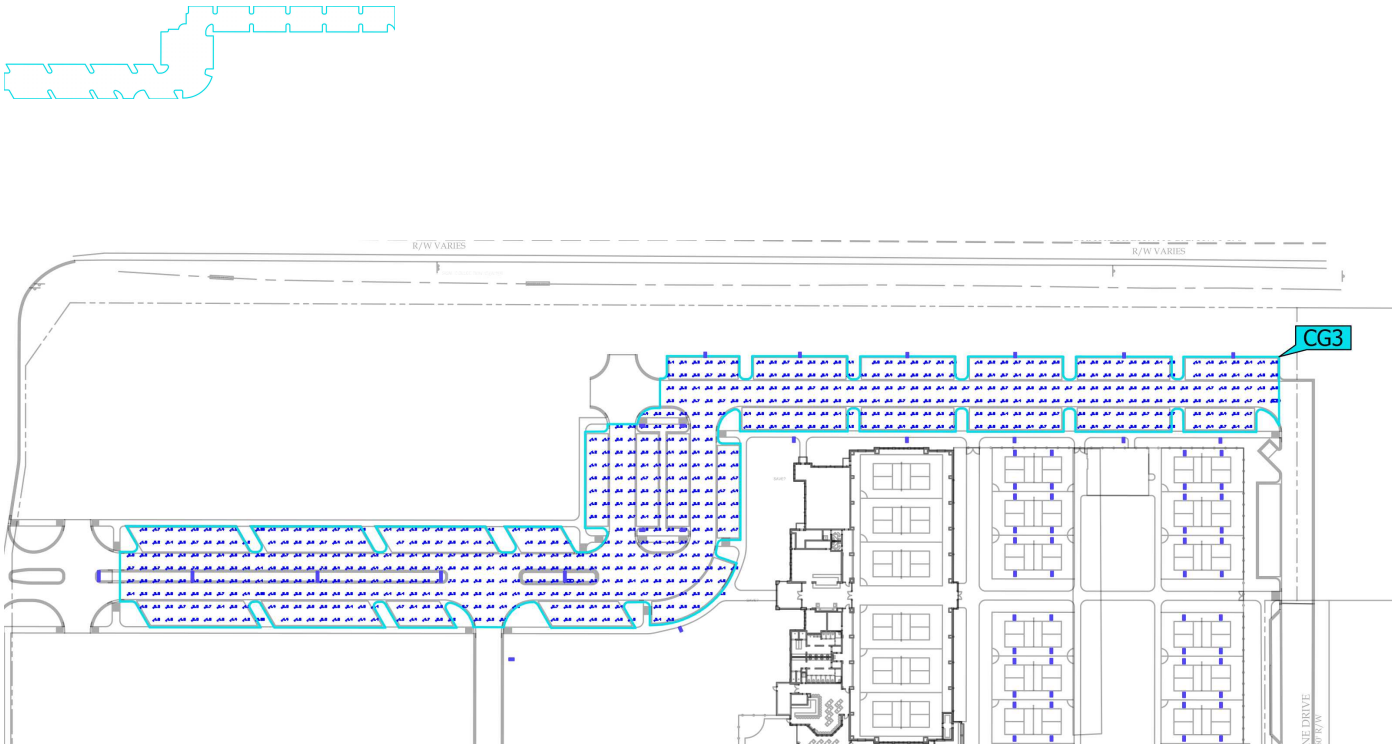
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
PROPERTY LINE Perpendicular illuminance Height: 0.000 ft	0.069 fc	0.000 fc	2.10 fc	-	-	CG2

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

PARKING LOT



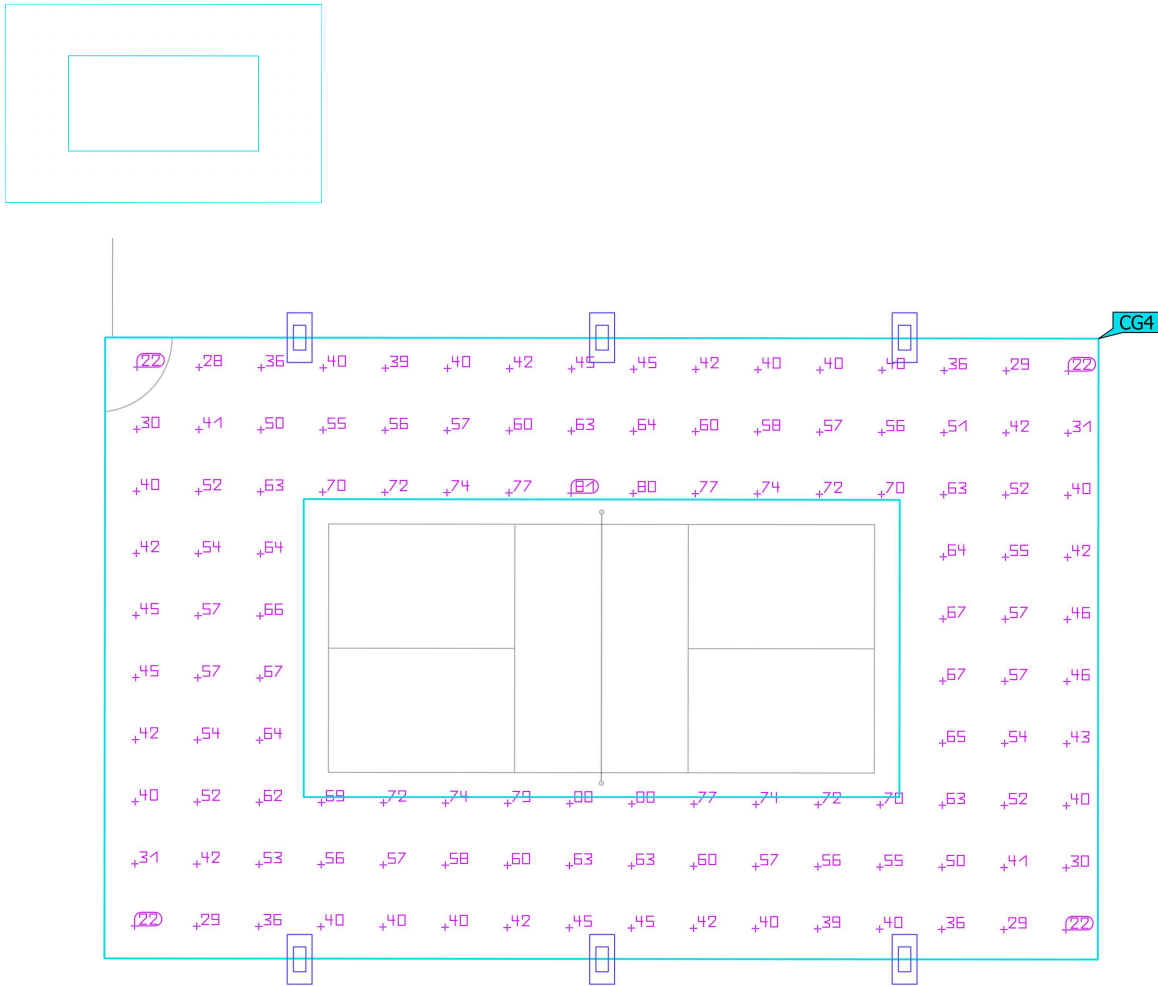
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
PARKING LOT Perpendicular illuminance Height: 0.000 ft	2.70 fc	0.79 fc	8.32 fc	3.43	10.6	CG3

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

CHAMPIONSHIP COURT AREA



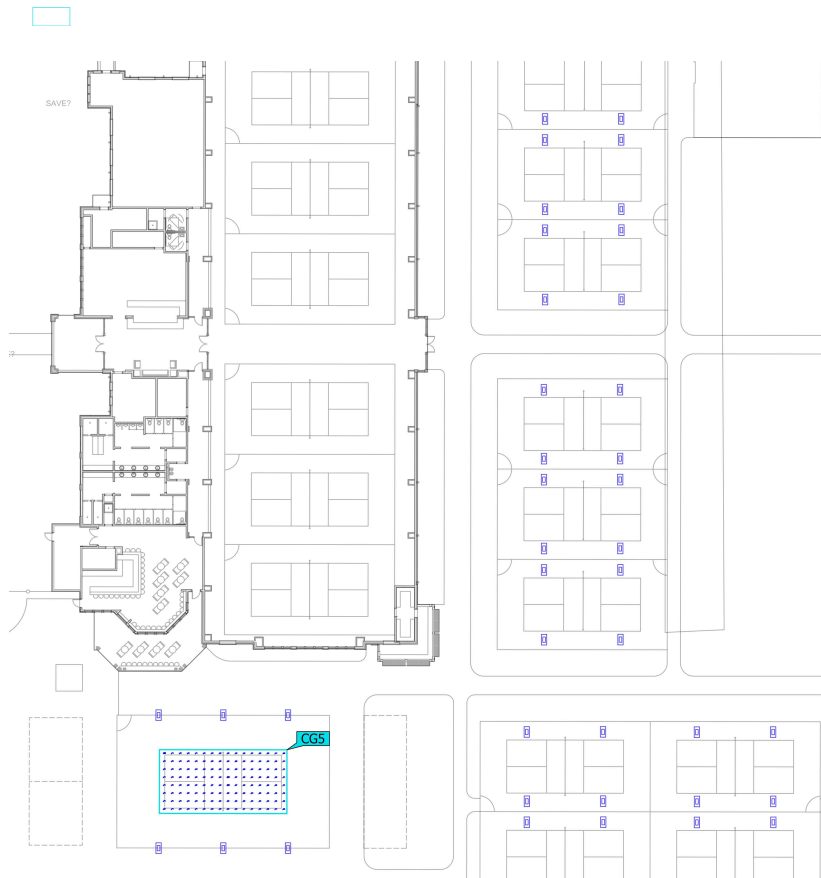
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
CHAMPIONSHIP COURT AREA Perpendicular illuminance Height: 0.000 ft	52.3 fc	21.5 fc	80.7 fc	2.43	3.75	CG4

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

CHAMPIONSHIP COURT #1



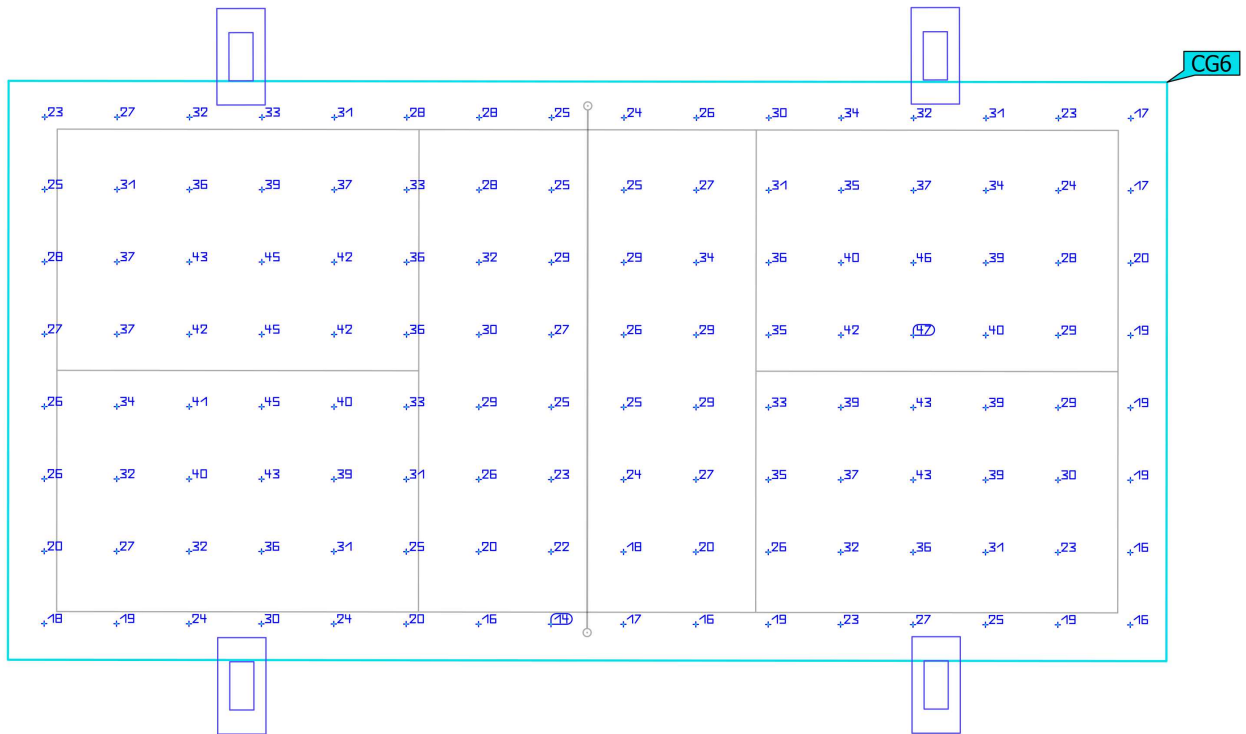
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
CHAMPIONSHIP COURT #1 Perpendicular illuminance Height: 0.000 ft	78.4 fc	68.4 fc	87.7 fc	1.15	1.28	CG5

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

COURT #25 (TYPICAL)



Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
COURT #25 (TYPICAL)	29.9 fc	14.3 fc	47.0 fc	2.09	3.29	CG6
Perpendicular illuminance						
Height: 0.000 ft						

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

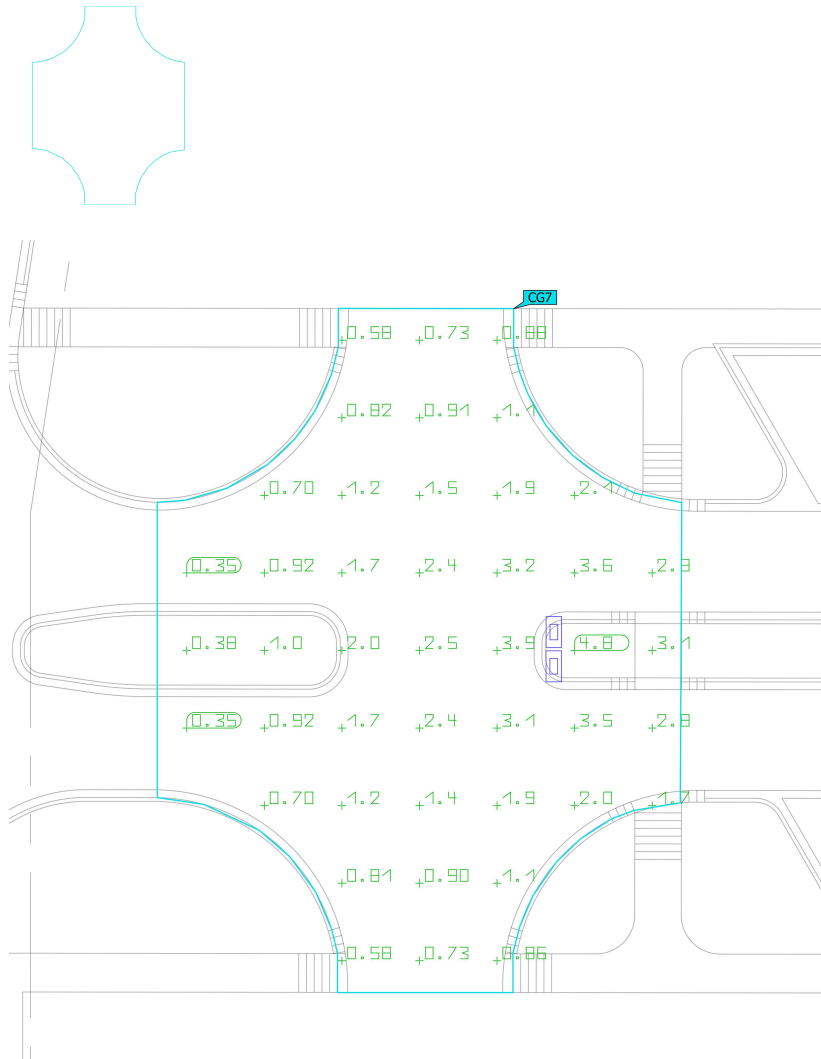
ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

**Next Generation
LIGHTING South** 
LLC

 **ALESco** company
A Division of Alesco Industries, Inc.

ENTRANCE - HIGHLAND CROSSING



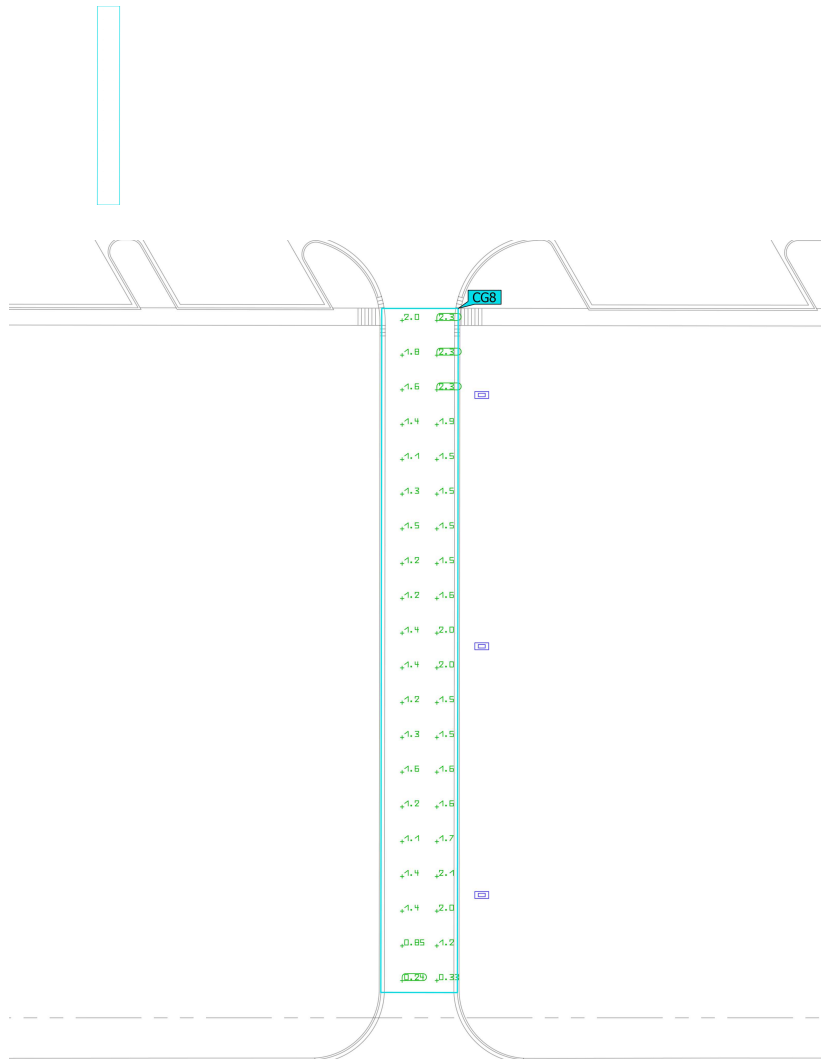
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
ENTRANCE - HIGHLAND CROSSING Perpendicular illuminance Height: 0.000 ft	1.68 fc	0.35 fc	4.82 fc	4.77	13.7	CG7

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

ENTRANCE - ESTATE DR



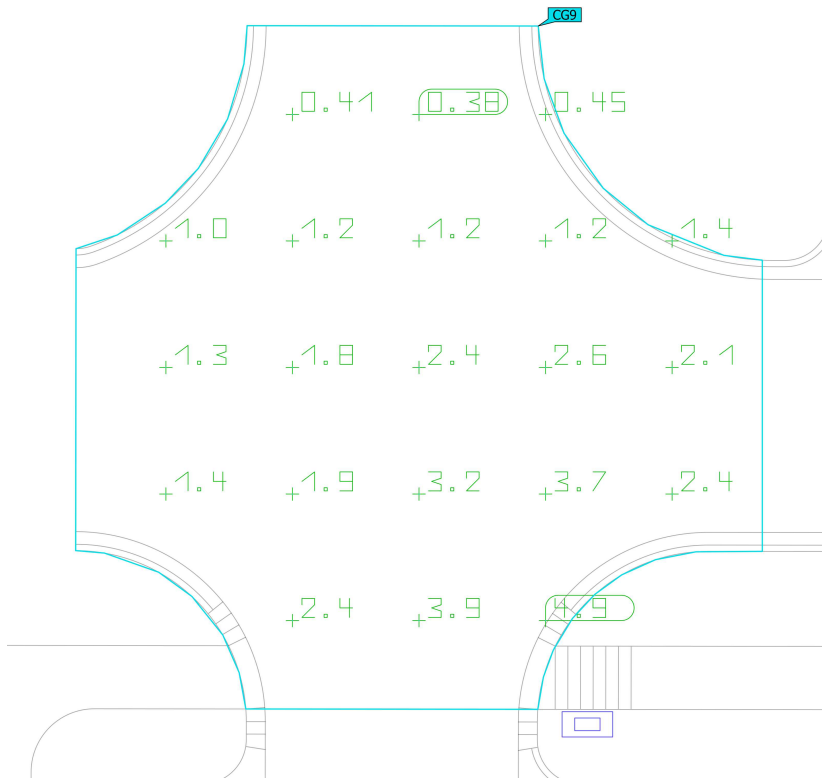
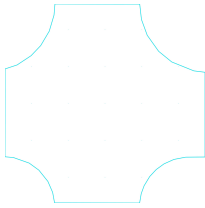
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
ENTRANCE - ESTATE DR Perpendicular illuminance Height: 0.000 ft	1.50 fc	0.24 fc	2.31 fc	6.20	9.51	CG8

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

ENTRANCE - OKATIE HWY



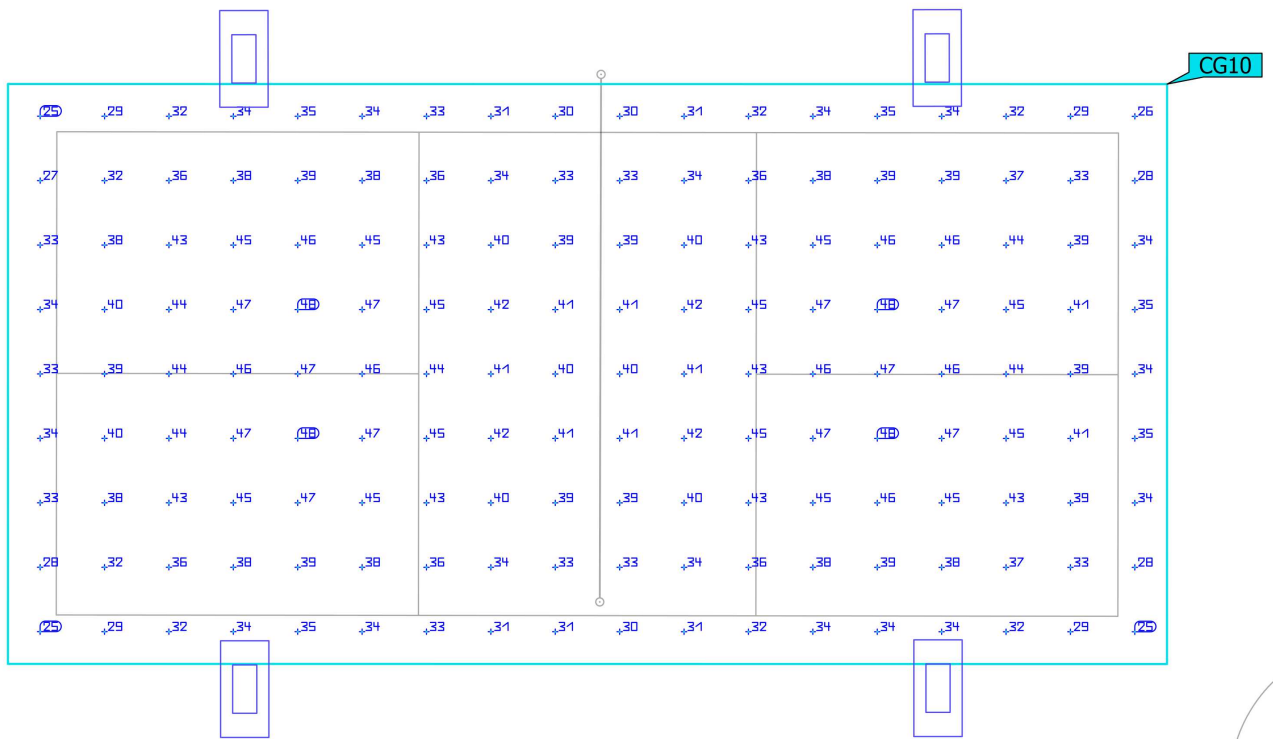
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
ENTRANCE - OKATIE HWY Perpendicular illuminance Height: 0.000 ft	1.96 fc	0.38 fc	4.86 fc	5.16	12.8	CG9

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

COURT #9 (TYPICAL)



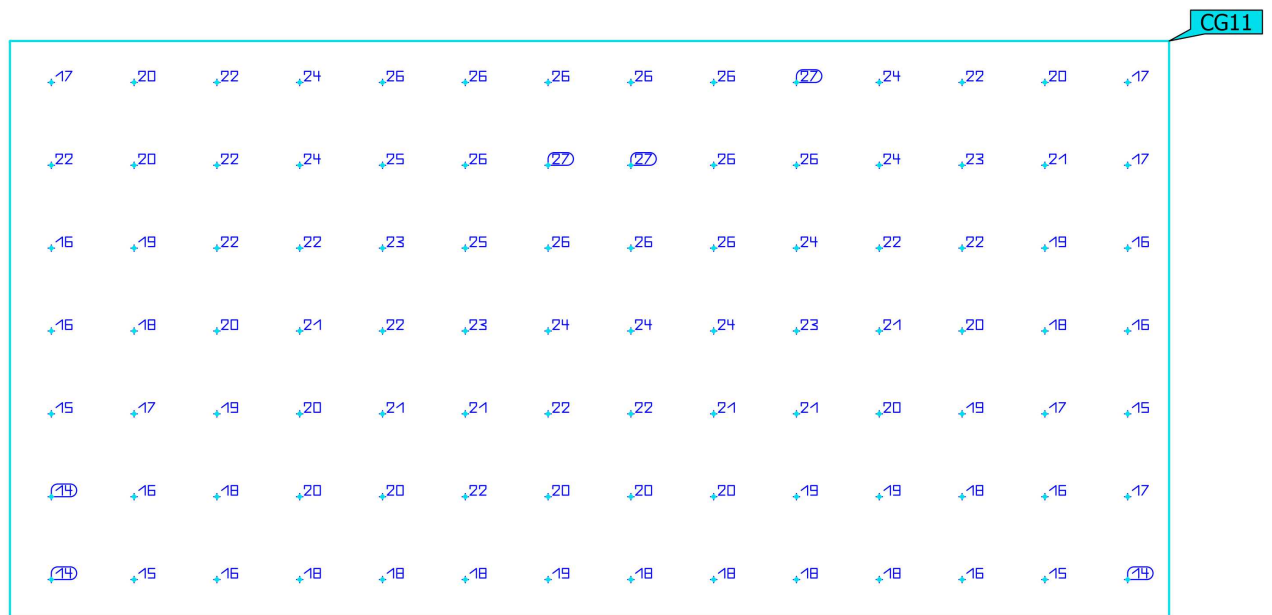
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
COURT #9 (TYPICAL)	38.3 fc	25.0 fc	48.0 fc	1.53	1.92	CG10
Perpendicular illuminance						
Height: 0.000 ft						

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

COURT #9 (TYPICAL) - VERTICAL FC



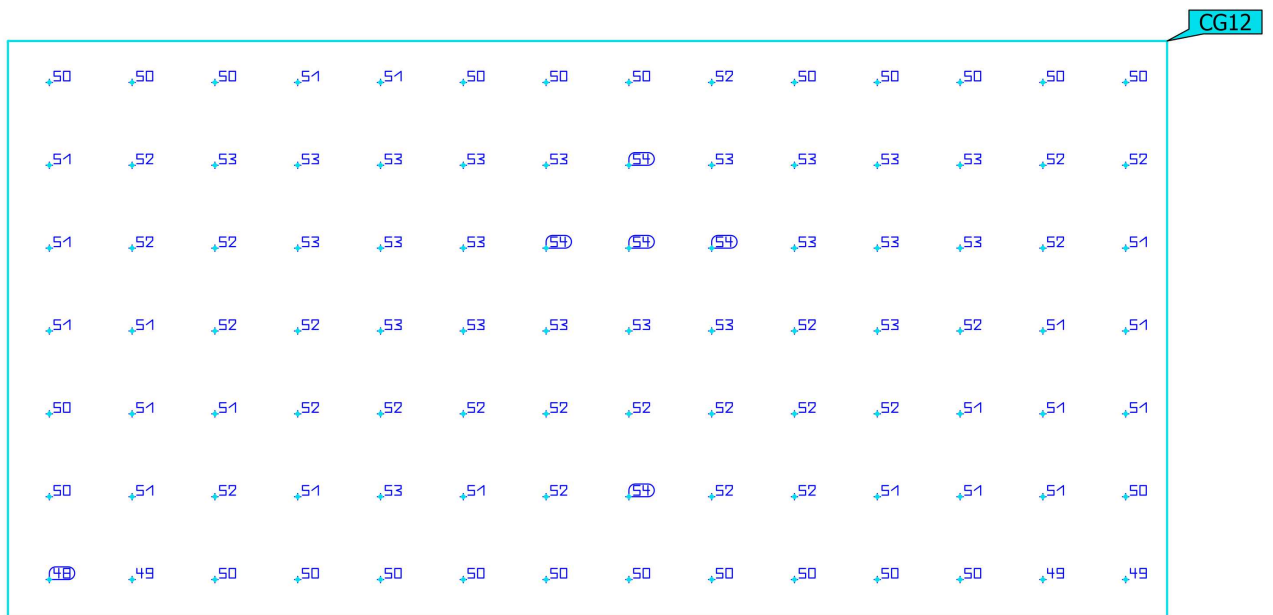
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
COURT #9 (TYPICAL) - VERTICAL FC Perpendicular illuminance Height: 5.000 ft	20.5 fc	13.7 fc	26.8 fc	1.49	1.95	CG11

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

CHAMPIONSHIP COURT #1 - VERTICAL FC



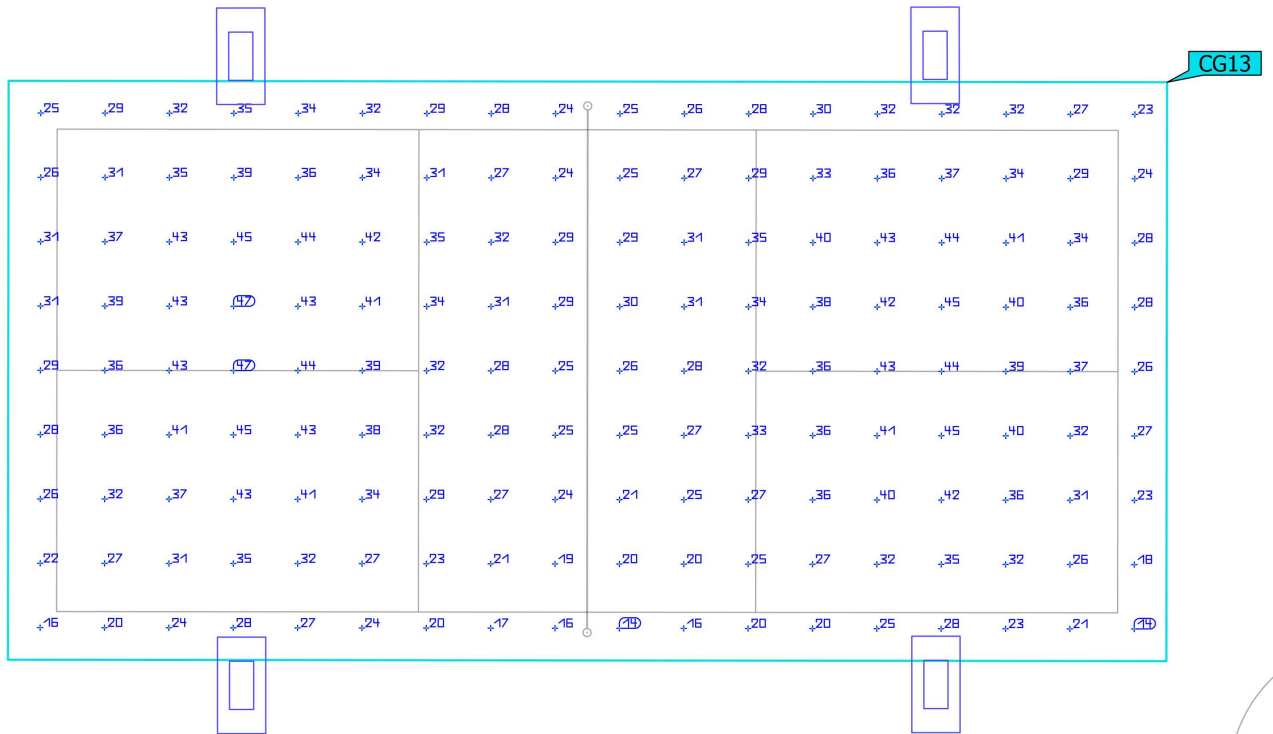
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
CHAMPIONSHIP COURT #1 - VERTICAL FC Perpendicular illuminance Height: 5.000 ft	51.5 fc	48.4 fc	54.2 fc	1.06	1.12	CG12

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

COURT #23 (TYPICAL)



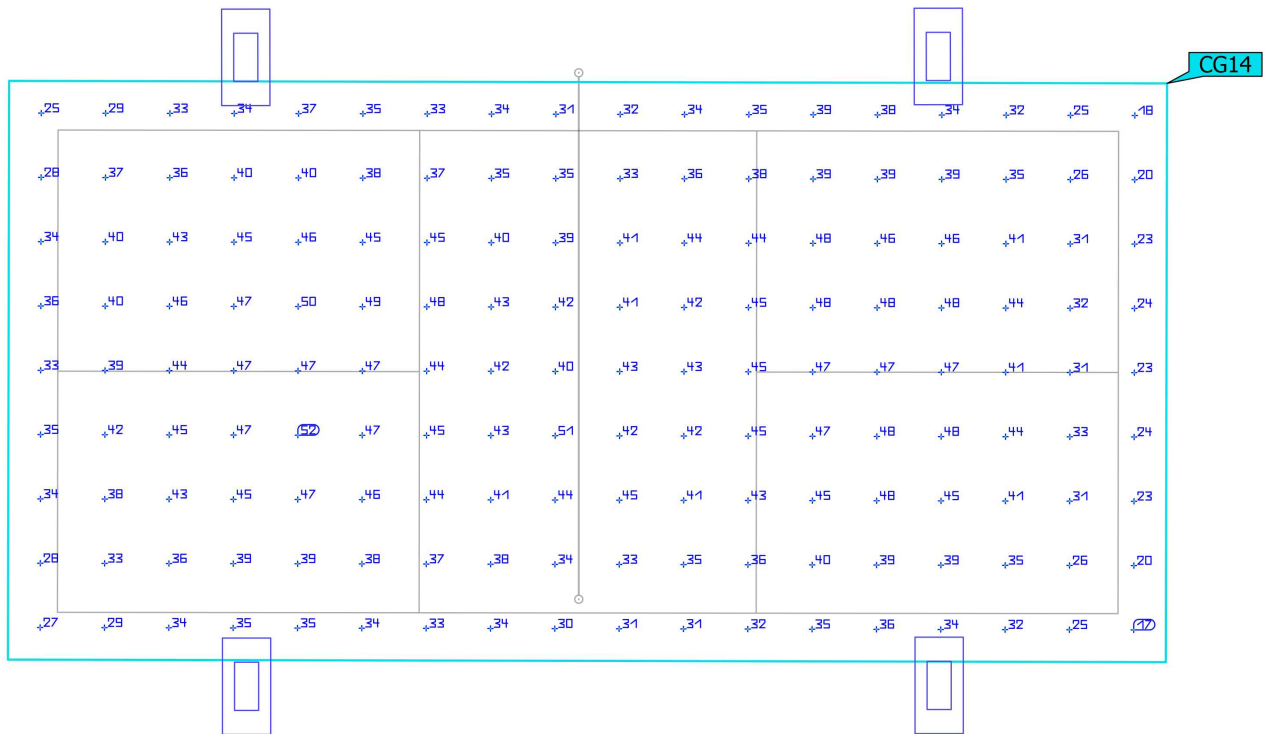
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
COURT #23 (TYPICAL)	31.4 fc	14.0 fc	47.2 fc	2.25	3.38	CG13
Perpendicular illuminance						
Height: 0.000 ft						

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

COURT #18 (TYPICAL)



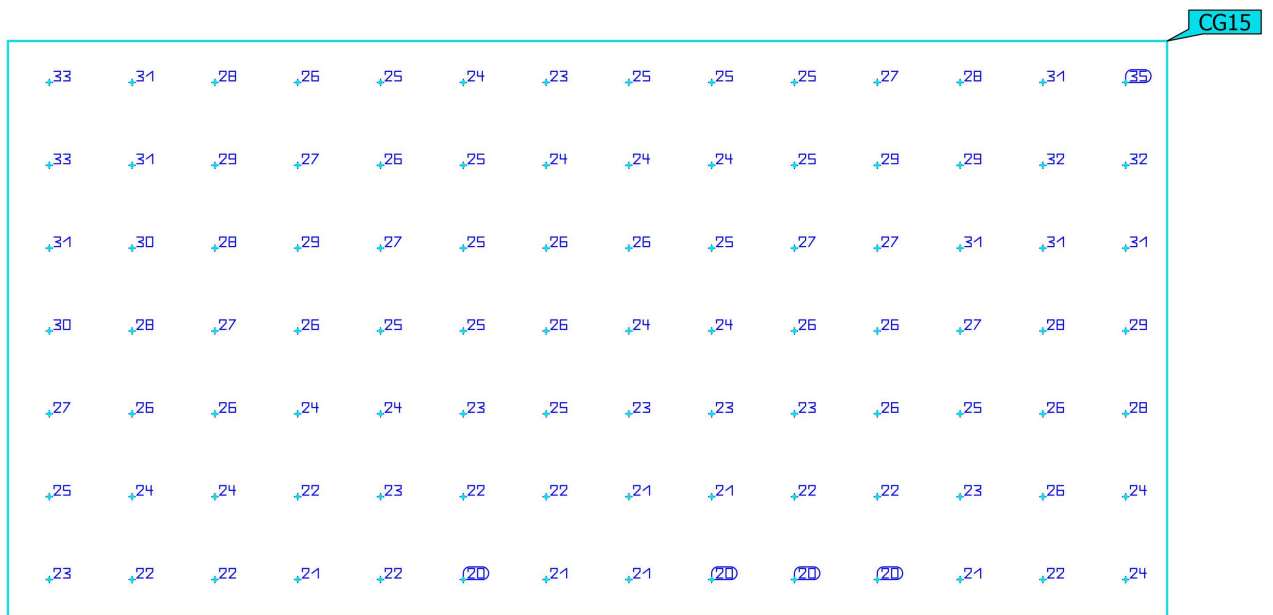
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
COURT #18 (TYPICAL)	38.2 fc	17.4 fc	51.9 fc	2.19	2.98	CG14
Perpendicular illuminance						
Height: 0.000 ft						

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

COURT #18 (TYPICAL) - VERTICAL FC



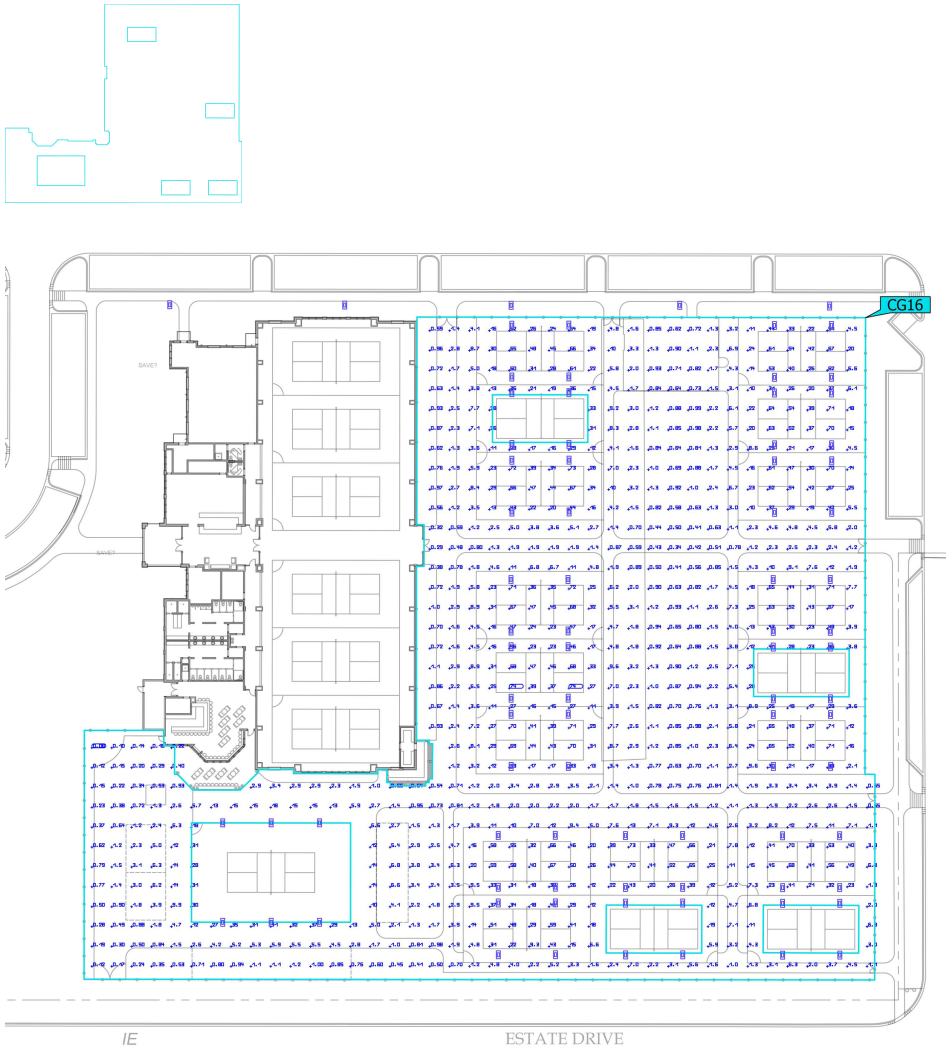
Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
COURT #18 (TYPICAL) - VERTICAL FC Perpendicular illuminance Height: 5.000 ft	25.7 fc	19.6 fc	35.4 fc	1.31	1.80	CG15

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Low Country Pickleball Club - Parking Lot & Court Lighting - rev 230321

COURTS SITE



Properties	$\bar{E}$	E_{min}	E_{max}	$\bar{E}/E_{min}$	E_{max}/E_{min}	Index
COURTS SITE	15.2 fc	0.084 fc	74.3 fc	181	885	CG16
Perpendicular illuminance						
Height: 8.000 ft						

Utilisation profile: DIALux preset, Default (Drive Aisles/Parking Areas)

ATTACHMENT 4

Recommended Illumination for Pickleball Facilities

Recommended Horizontal Illumination			
Performance Criteria	Category I	Category II	Category III
Average Maintained Horizontal Foot-candles within PPA (1,2,4)	75 (750 lux)	50 (500 lux)	30 (300 lux)
Minimum Maintained Horizontal Foot-candles within PPA (2,4)	60 (600 lux)	40 (400 lux)	20 (200 lux)
Maximum Uniformity Ratio (3)	1.7	2.0	2.0

Note: The diagram “Cut-Off (Low Mast) Lighting” shows typical lighting layouts for the three categories of lighting. Contact lighting manufacturers for specific details.

Recommended Vertical Illumination			
Performance Criteria	Category I	Category II	Category III
Average Maintained Vertical Foot-candles within PPA (1,2,4)	50 (500 lux)	30 (300 lux)	20 (200 lux)
Maximum Uniformity Ratio (3)	2.0	2.5	3.0

Notes:

1. Maintained foot-candles is determined by applying a light loss factor (LLF) to the initial or measured foot-candles. LLF is dependent upon lamp characteristics, fixture maintenance, voltage variations, and atmospheric conditions. It normally varies between 0.6 and 0.9. Consult the fixture manufacturer for proper LLF values.
2. Average maintained and minimum maintained foot-candles should be calculated within the Primary Playing Area (PPA) with the foot-candle values multiplied by the appropriate LLF.
3. Uniformity ratio is defined as the ratio of the maximum foot-candles divided by the minimum foot-candles.

ATTACHMENT 4

4. Primary Playing Area (PPA) is defined as the area that includes 2' beyond the sidelines and 2' behind the baseline.

Typical Facility Classifications		
Category I	Category II	Category III
Pickleball Clubs	Pickleball Clubs	Pickleball Clubs
Parks/Recreational	Parks/Recreational	Parks/Recreational
Residential	Residential	Residential
Tournament Venues	Indoor Clubs	
Indoor Clubs		

Note: Tournament venues with broadcast-quality television lighting will generally have 125+ average maintained horizontal foot-candles (1250 lux) within the PPA, with minimum maintained horizontal foot-candles of 100 (1000 lux). These facilities generally will include permanent spectator accommodations.

Some facility types appear in multiple categories. Illumination levels for a specific facility should be chosen based on the highest skill level, or spectator and television requirements that will take place. Facilities with older average player ages should be designed for higher levels of light.

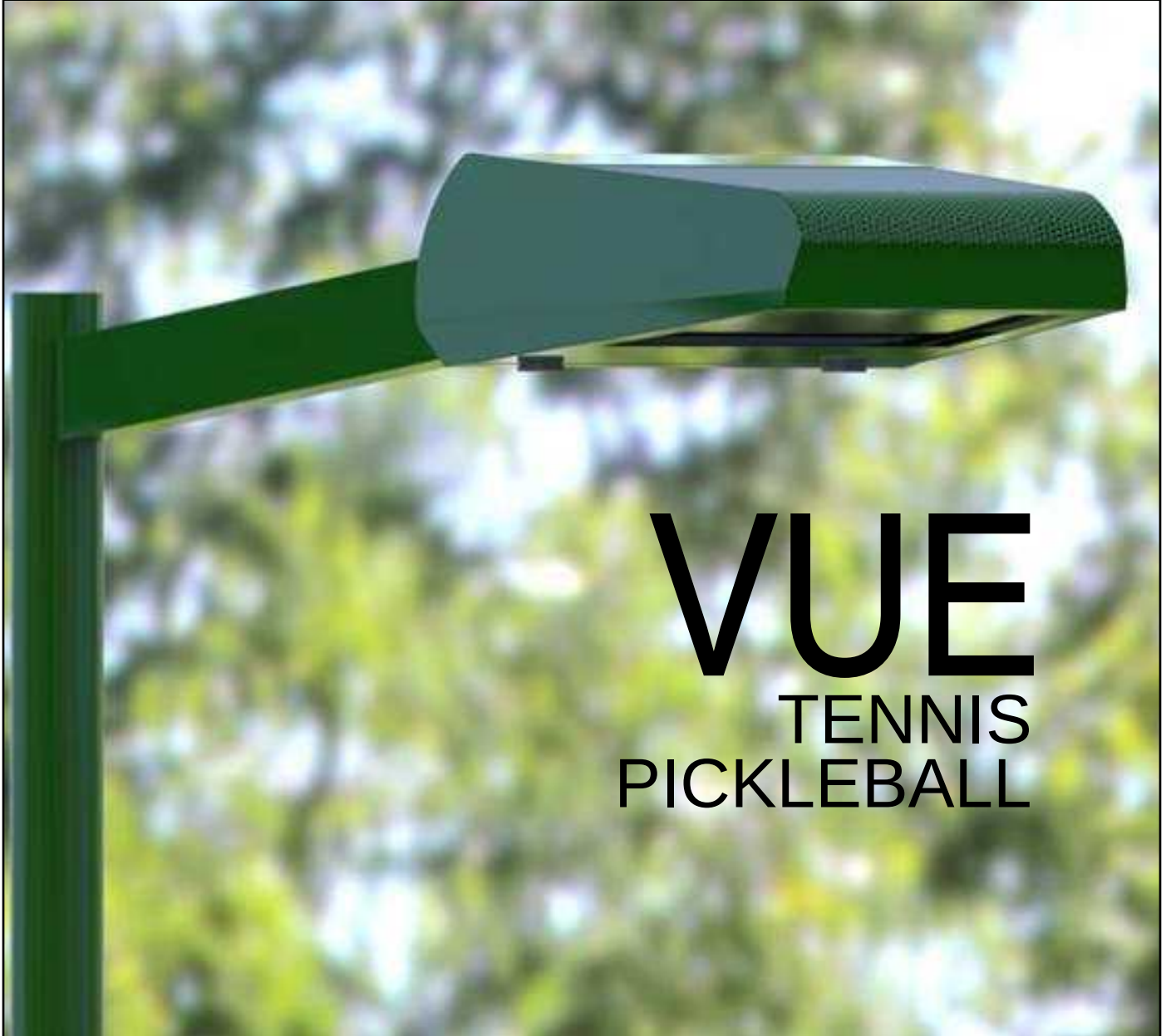
Quality of Light

Several factors affect the quality of illumination, including uniformity, glare, contrast, modeling and spill.

Uniformity concerns the difference in illumination levels between the darkest and lightest spots on the court. A large difference means it will be more difficult to follow the ball. A ratio of 2:1 means the brightest spot on the court is twice as bright as the darkest spot.

Color Rendering Index (CRI) is a number between 1 and 100 used to describe the ability of a light source to accurately render colors. A higher CRI rating is an indication that the light source has good color properties. For court lighting, it is recommended that the light source have a CRI rating between 65 and 80.

NLS
LIGHTING



VUE
TENNIS
PICKLEBALL

TENNIS & PICKLEBALL LIGHTING

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

VUE TENNIS & PICKLEBALL
LUMINAIRE

Notes:**COURT**

NEXTGEN SOUTH23-56764



VUE Tennis & Pickleball is Best for...

PROFESSIONAL, COMPETITIVE + RECREATIONAL TENNIS & PICKLEBALL

- Produces the highest and most uniform light levels in the industry for the most common mounting heights ranging from 18' to 22' foot without tilt.
- Is the only LED fixture to accomplish a true American Sports Builder Association Class I Primary Playing Area Lighting uniformity requirement with only 8 fixtures.
- Is the best LED fixture at controlling glare while requiring no tilt, using a reflector that is made from 95 percent diffused aluminum substrate. LEDs are positioned deep within the housing and are not seen during play.
- Is engineered and manufactured to the highest reliability level with respect to lifetime and performance utilizing the best possible electronics protected with an impact resistant safety glass.
- Low profile, traditionally and beautifully designed fixture which blends with any club or residential setting.
- In terms of the number of prestigious installations designed or sold over the past 20 years, the team behind the Vue brings some of the most tennis & pickleball court lighting experience to the table---on and off the court.

Job Name:

Low Country Pickleball Club - DESIGN
 Architect: Court Atkins Group (Bluffton)
 Electrical Engineer: Sustainable Design
 Consultants (Savannah)

ATTACHMENT 1**Product Number:**

VUE TENNIS & PICKLEBALL
 LUMINAIRE

Notes:**Type:**

COURT

NEXTGEN SOUTH23-56764



How is VUE over its competitors?

LESS GLARE + GREATER RELIABILITY

Before the Vue there were few, if any, LED fixtures which were practical, efficient and effective for tennis. Most of the existing fixtures have plastic lensed optics which stick out below the bottom of the fixture. The result of such design causes hundreds of points of light and glare to be seen during the point. Plastic lenses have been known to fail and also face the possibility of oxidizing. Oxidation disrupts the light pattern and prevents heat from escaping while decreasing life and increasing rates of depreciation. This is why the Vue does not utilize plastic lenses. The Vue recesses its LEDs two to three inches deep into the housing so they cannot be seen. Its design eliminates extraneous glare and provides protection with a single proven glass lens like tens of thousands of fixtures before it.

THE OPTICAL ADVANTAGE

No other LED companies have designed an optic or reflector specific for tennis. They might use a car dealership front row optic that has a very powerful but narrow strip of light, yet must be tilted in most cases in order to reach the center of the court. The Star Power™ optical system has a very thick and powerful light pattern, enabling it to function beautifully, designed for tennis and today's pickleball courts.



STAR POWER OPTICAL SYSTEM

THE POWER OF OUR REFLECTOR

The Vue series uses the Star Power™ patent-pending LED optical system, which is designed to the unique 120x60 dimensions of a Tennis Court. We combine our Star Power™ optical system with our unsurpassed knowledge and experience of tennis court lighting. Give us a call and we will design and manufacture the best system at the lowest cost with the least amount of energy and maintenance. We manufacture the entire fixture in the United States with our poles and mounting arms to complete your tennis or pickleball court lighting system.

In this brochure you will learn why it is now time to convert your existing light system or construct your new court lighting system with Vue luminaires. The Vue series is the only LED court luminaire that complies with the American Sports Builder Association "PPA" light level and uniformity requirements at standard pole heights without the need to tilt.

STAR POWER™, SPECIFICALLY DESIGNED FOR TENNIS SPORTS

Other LED companies talk about their high lumen packages. The total number of lumens coming out of a fixture are meaningless when it comes to courts. It's where the lumens go that counts. The Star Power™ optical system takes into account the dimensions of a 120 x 60 typical court and makes sure that the lumens go in the right places and are responsible for their own zone while providing beautiful light levels across at 3 feet, 6 feet, 10 feet and higher.



PLAY VERTICAL

COMPLIES WITH ASBA UNIFORMITY REQUIREMENTS BEYOND THE BASELINE AND BEYOND THE SERVICE LINES. GREAT FOOT CANDLES 10-FEET AND HIGHER.

ELIMINATE THE NEED TO TILT

Other companies tilt their fixtures in order to get the proper light levels in the right places. The patent pending Star Power™ optical system requires no tilting and as such is glare-free, Dark-Sky, and neighborhood friendly. We are committed to the International Dark Sky Association and have even named our optical system the Star Power™ system because we believe that artificial lighting should not impede a beautiful dark sky in which thousands of stars should be able to be seen and enjoyed by all.

INSTANT ON/OFF + DIMMABLE

The Vue is instant on and instant off. No more waiting for the lights to warm up. There needs to be no more fear of turning the lights off and then on again a few minutes later. The Vue can be ordered with timed motion sensors which automatically shut off the lights when no one is present. All Vue fixtures are dimmable. One can dial in how much light and energy is being used on the court at any time. And the lights can be dimmed down low for parties where only low levels of light may be desired. See dimming options for dimming events and schedules.

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

ATTACHMENT 4

Project Number:

VUE TENNIS & PICKLEBALL
LUMINAIRE

Notes:

Type:

COURT

NEXTGEN SOUTH23-56764



Marriot Hotel South Ridge
Palm Desert, CA

NLS
LIGHTING

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

ATTACHMENT 4

VUE TENNIS & PICKLEBALL
LUMINAIRE

Notes:

COURT

NEXTGEN SOUTH23-56764



NLS
LIGHTING



Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

ATTACHMENT 4

VUE TENNIS & PICKLEBALL
LUMINAIRE

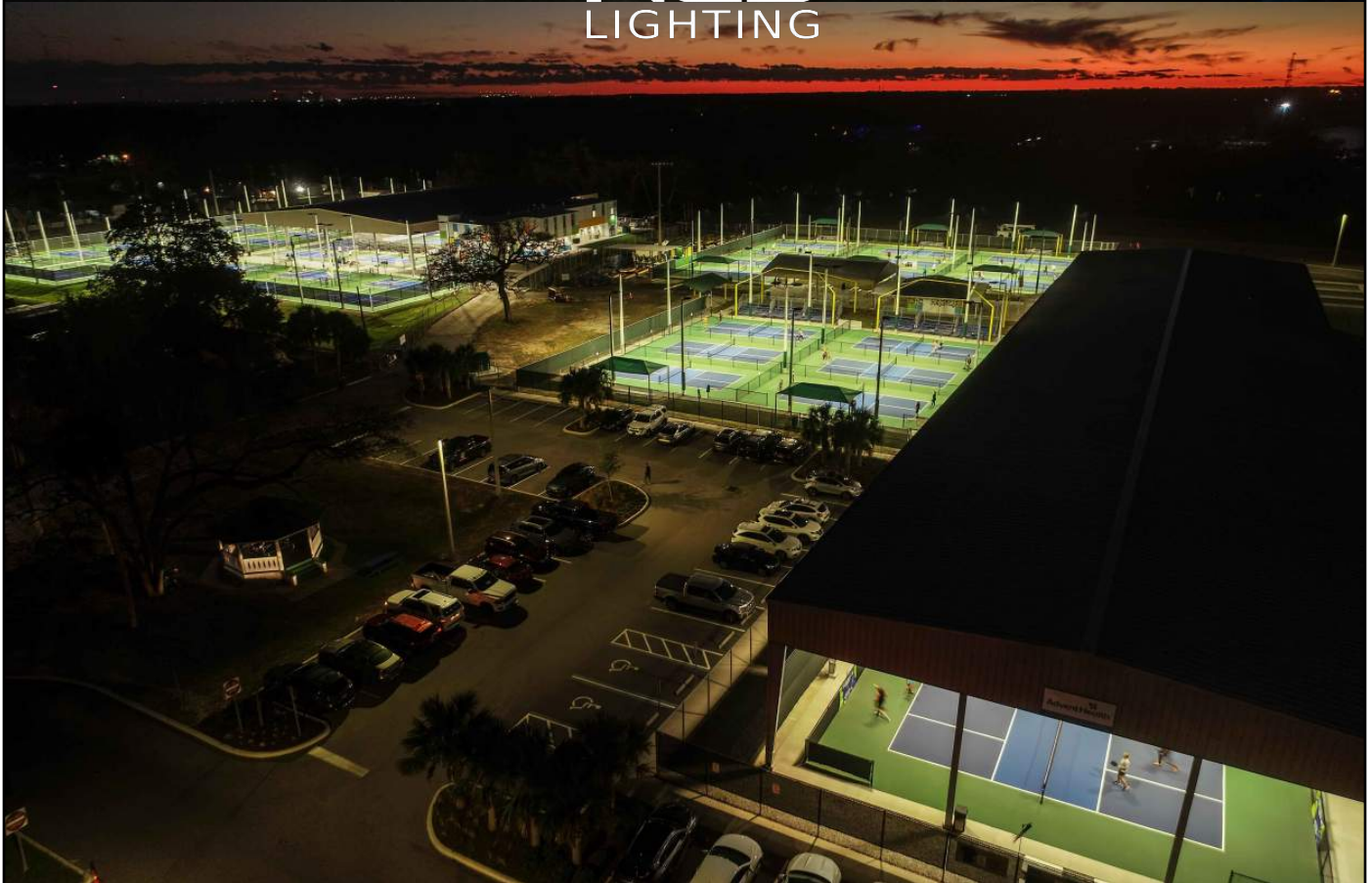
Notes:

COURT

NEXTGEN SOUTH23-56764



NLS
LIGHTING





"Photometric analysis should extend to the Primary Playing Area (PPA) of each court, which extends 6 feet outside the doubles sidelines and 10 feet behind the baselines.

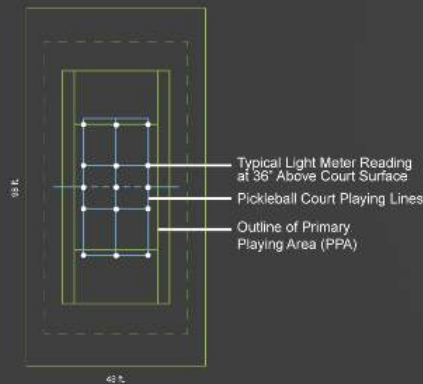
ASBA lighting standards have been established taking the PPA into account. The PPA is included because tennis is sport that is played not only within the court, so it is important to ascertain the adequacy of the lighting in all this space. If the lighting is not right, then the player's eyes will have difficulty tracking the ball as it moves through the court."

—Heather Blythe

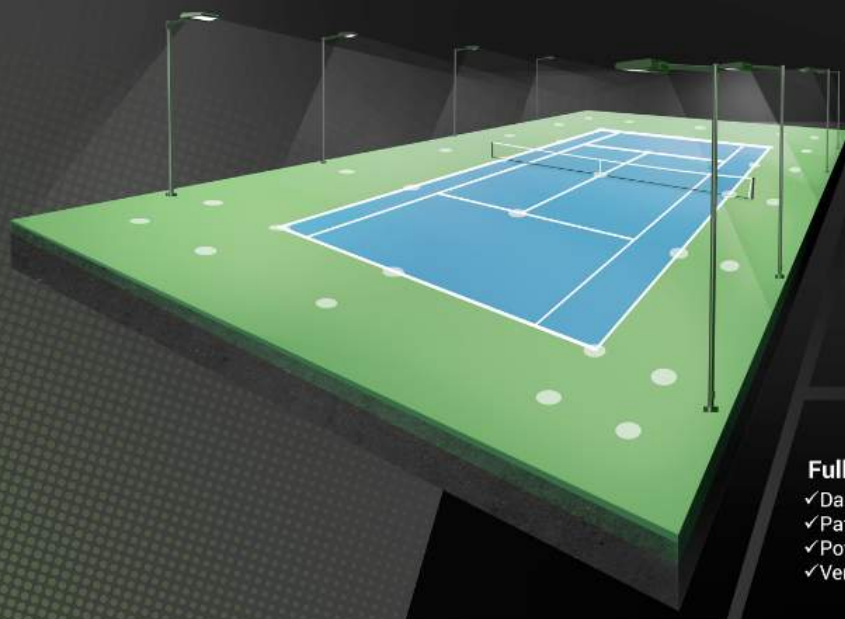
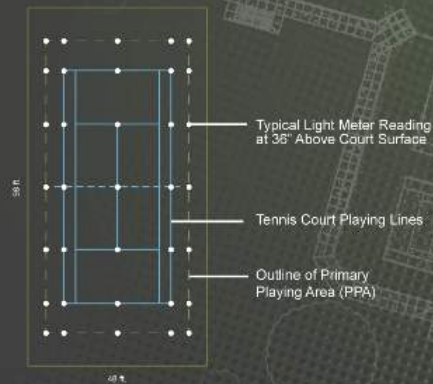
USTA PPA Lighting Requirements Letter Excerpt

Points comprising the U.S.T.A. Primary Playing Area (PPA)

PICKLEBALL



TENNIS



Complies with ASBA uniformity requirements beyond the baseline and beyond the service lines. Great 30 foot candles!



Full Cutoff Optical Systems

- ✓ Dark Sky Compliant
- ✓ Patented Optical Systems
- ✓ Powerful Uniformity
- ✓ Vertical & Horizontal Light Levels

RECOMMENDED ILLUMINATION FOR OUTDOOR TENNIS FACILITIES

RECOMMENDED HORIZONTAL ILLUMINATION				
Performance Criteria	Class I	Class II	Class III	Class IV
Average Maintained Horizontal Footcandles within PPA (1,2,4)	125+ (1250 lux)	75+ (750 lux)	50+ (500 lux)	30+ (300 lux)
Minimum Maintained Horizontal Footcandles within PPA (2,4)	100+ (1000 lux)	60+ (600 lux)	40+ (400 lux)	20+ (200 lux)
Maximum Uniformity Ratio (3)	1.5	1.7	2.0	2.0

RECOMMENDED VERTICAL ILLUMINATION				
Performance Criteria	Class I	Class II	Class III	Class IV
Average Maintained Vertical Footcandles within PPA (1,2,4)	50+ (500 lux)	30+ (300 lux)	20+ (200 lux)	NA
Maximum Uniformity Ratio (3)	2.0	3.0	3.0	NA

- Notes:
- Maintained footcandles is determined by applying a light loss factor (LLF) to the initial or measured footcandles. LLF is dependent upon lamp characteristics, fixture maintenance, voltage variations and atmospheric conditions. It normally varies between .6 and .85. Consult the Illuminating Engineering Society handbook and fixture manufacturer's publications for proper LLF values.
 - Average maintained and minimum maintained footcandles should be calculated within the Primary Playing Area (PPA) with the footcandle values multiplied by the appropriate LLF.
 - Uniformity ratio is defined as the ratio of the maximum footcandles divided by the minimum footcandles.
- Primary Playing Area (PPA) is defined as the area that includes 6' beyond the sidelines and 10' behind the baseline.

TYPICAL FACILITY CLASSIFICATIONS			
Class I (1)	Class II	Class III	Class IV
PROFESSIONAL	College (2)	College (4)	High School (6)
INTERNATIONAL	Tennis Clubs (6)	High School (6)	Tennis Clubs (6)
SATELLITE	Residential (6)	Tennis Clubs (6)	Parks & Recreation (6)
CHALLENGER	Parks & Recreation (6)	Residential (6)	College (5)
COLLEGE	-	Parks & Recreation (6)	-

- Notes:
- Class I facilities generally involve broadcast quality television production. These facilities will include permanent spectator accommodations.
 - Facilities that host intercollegiate play, but without broadcast television requirements. These facilities may have permanent or temporary seating.
 - Professional tennis events without broadcast television requirements.
 - Collegiate facilities primarily used for practice or for intramural or recreational play.
 - Collegiate facilities used strictly for recreational play.
- Please note that some facility types appear in multiple categories. Illumination levels for a specific facility should be chosen based on the highest skill level, or spectator and television requirements that will take place at the facility. It is recognized that older players require higher light levels. Facilities with older average player ages should be designed for higher levels of light.

RECOMMENDED ILLUMINATION FOR PICKLEBALL FACILITIES

RECOMMENDED HORIZONTAL ILLUMINATION

Performance Criteria	Category I	Category II	Category III
Average Maintained Horizontal Foot-candles within PPA (1,2,4)	75 (750 lux)	50 (500 lux)	30 (300 lux)
Minimum Maintained Horizontal Foot-candles within PPA (2,4)	60 (600 lux)	40 (400 lux)	20 (200 lux)
Maximum Uniformity Ratio (3)	1.7	2.0	2.0

RECOMMENDED VERTICAL ILLUMINATION

Performance Criteria	Category I	Category II	Category III
Average Maintained Vertical Foot-candles within PPA (1,2,4)	50 (500 lux)	30 (300 lux)	20 (200 lux)
Maximum Uniformity Ratio (3)	2.0	2.5	3.0

Notes:

- Maintained foot-candles is determined by applying a light loss factor (LLF) to the initial or measured foot-candles. LLF is dependent upon lamp characteristics, fixture maintenance, voltage variations, and atmospheric conditions. It normally varies between 0.6 and 0.9. Consult the fixture manufacturer for proper LLF values.
- Average maintained and minimum maintained foot-candles should be calculated within the Primary Playing Area (PPA) with the foot-candle values multiplied by the appropriate LLF.
- Uniformity ratio is defined as the ratio of the maximum foot-candles divided by the minimum foot-candles.
- Primary Playing Area (PPA) is defined as the area that includes 2' beyond the sidelines and 2' behind the baseline.

TYPICAL FACILITY CLASSIFICATIONS

Category I	Category II	Category III
Pickleball Clubs	Pickleball Clubs	Pickleball Clubs
Parks/Recreational	Parks/Recreational	Parks/Recreational
Residential	Residential	Residential
Tournament Venues	Indoor Clubs	
Indoor Clubs		

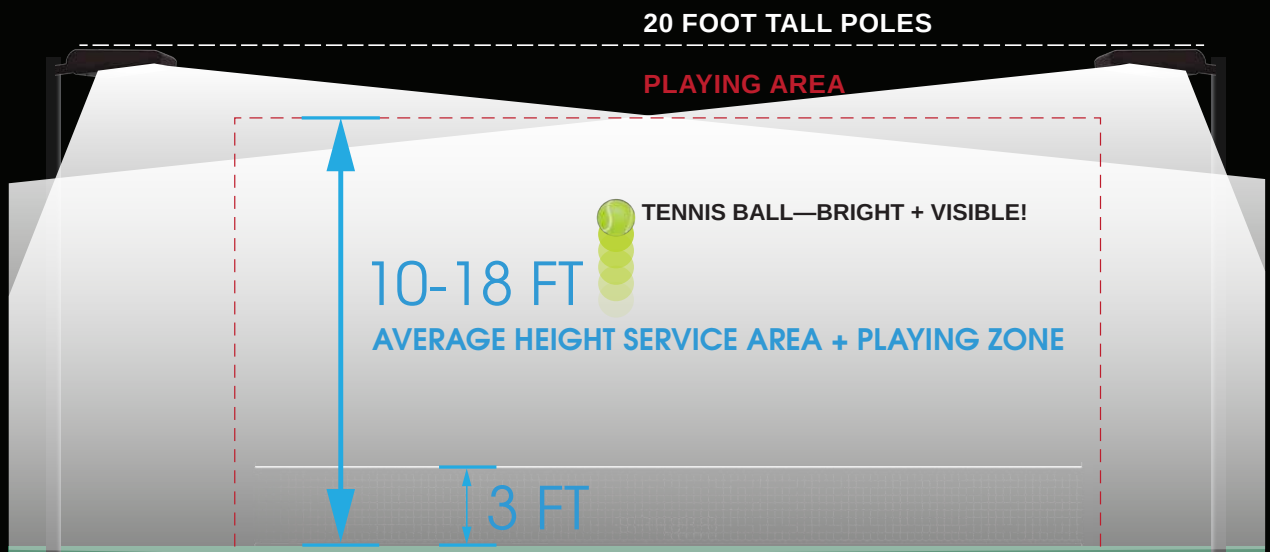
Note: Tournament venues with broadcast-quality television lighting will generally have 125+ average maintained horizontal foot-candles (1250 lux) within the PPA, with minimum maintained horizontal foot-candles of 100 (1000 lux). These facilities generally will include permanent spectator accommodations

Some facility types appear in multiple categories. Illumination levels for a specific facility should be chosen based on the highest skill level, or spectator and television requirements that will take place. Facilities with older average player ages should be designed for higher levels of light.

DON'T LOSE SIGHT OF YOUR GAME!

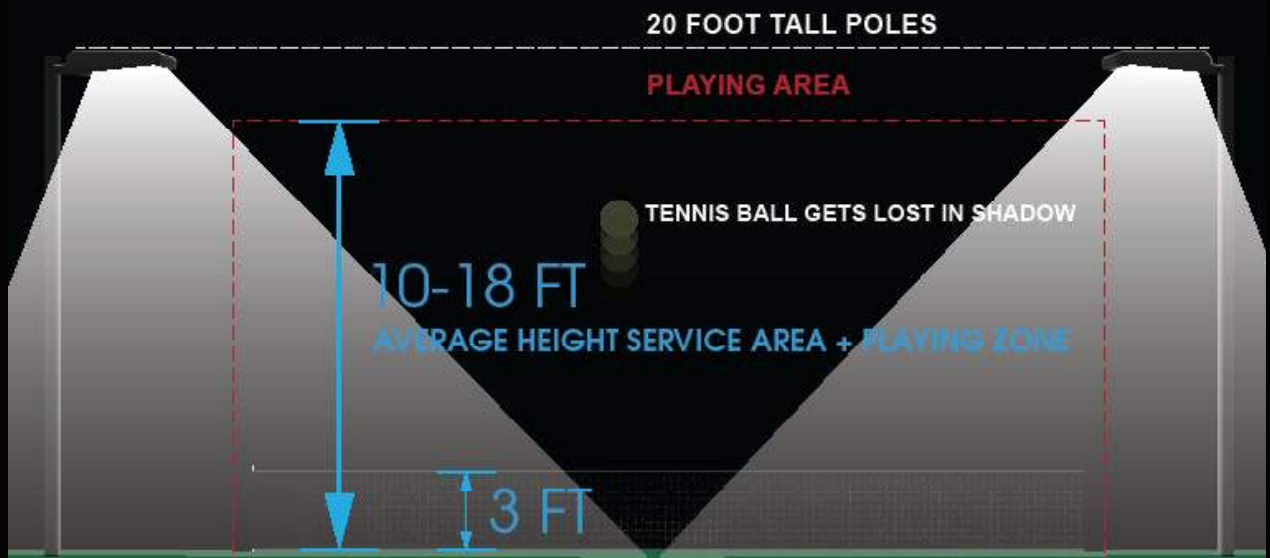
NLS LIGHTING LEVELS

Lighting is distributed at high vertical levels, providing a well lit service area and playing zone!



COMPETITOR LEVELS

Vertical light levels are not achieved in a consistent pattern.
Dark shadows in between poles create a poor service area and playing zone.



Submitted by ALESCO (Advantage Lighting & Energy Solutions, LLC) Inc. basky Next Generation LIGHTING South an ALESCO company	Job Name: Low Country Pickleball Club - DESIGN Architect: Court Atkins Group (Bluffton) Electrical Engineer: Sustainable Design Consultants (Savannah)	Attachment Number: VUE TENNIS & PICKLEBALL LUMINAIRE Notes:	Type: COURT NEXTGEN SOUTH23-56764
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NLS
LIGHTING

701 KINGSHILL PLACE, CARSON, CA 90746
PH (310) 341-2037 | NLSLIGHTING.COM

NLS
LIGHTING



NV
SPEC GRADE
LUMINAIRE



NV

FORM & FUNCTION

- ✓ **Silicone Micro Optics**—50% more heat resistant than acrylic to UV and heat exposure. Do not brittle, crack, or yellow.
- ✓ **Dark Sky Compliant**—Recessed LEDs. Full cut-off design. Specify HSS for applications with stringent property cut-off criteria.
- ✓ **Uniform light distribution**—using fewest number of fixture heads and poles while exceeding required IES foot-candles. *Less material, less energy, less cost.*
- ✓ Heavy Duty Die Cast Aluminum.
- ✓ **Surge Protection**
20KVA supplied as standard.

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

Notes:

FULL CUT OFF DESIGN RECESSED OPTICS DARK SKY COMPLIANT

NV-2 ASSEMBLY VIEW**DRIVERS**

0-10V Dimming Driver.
THD @ Max Load < 15%
Power Factor @ Max
Load < 0.95

HOUSING

Die Cast Aluminum

WIREWAY CHANNEL**FINISH**

Textured—3-5 mils powder
coated. Applied electrostatically.
NLS' standard high-quality
finishes prevent corrosion and
protect against extreme
environmental conditions

MICRO OPTICS

IP67 Rated, Silicone
Optic modules
designed to withstand
extreme weather
conditions. Thermal,
UV, vandal resistant.
Rated up to 200° C

OPTIC PLATE

NV Optic Plate laser
cut and clear
anodized standard.
Specify (OPP) and
Optic Plate Powder
Coated to match
specified fixture finish

OPTIONAL MOUNTING

ASA available for Square or Round
Pole. *See *Mountings* for additional
selections

DOOR FRAME

Die Cast Aluminum

FEATURES

MICRO OPTICS

IES Types T2, T3, T4, T5, N2, N3

KELVIN TEMPERATURE

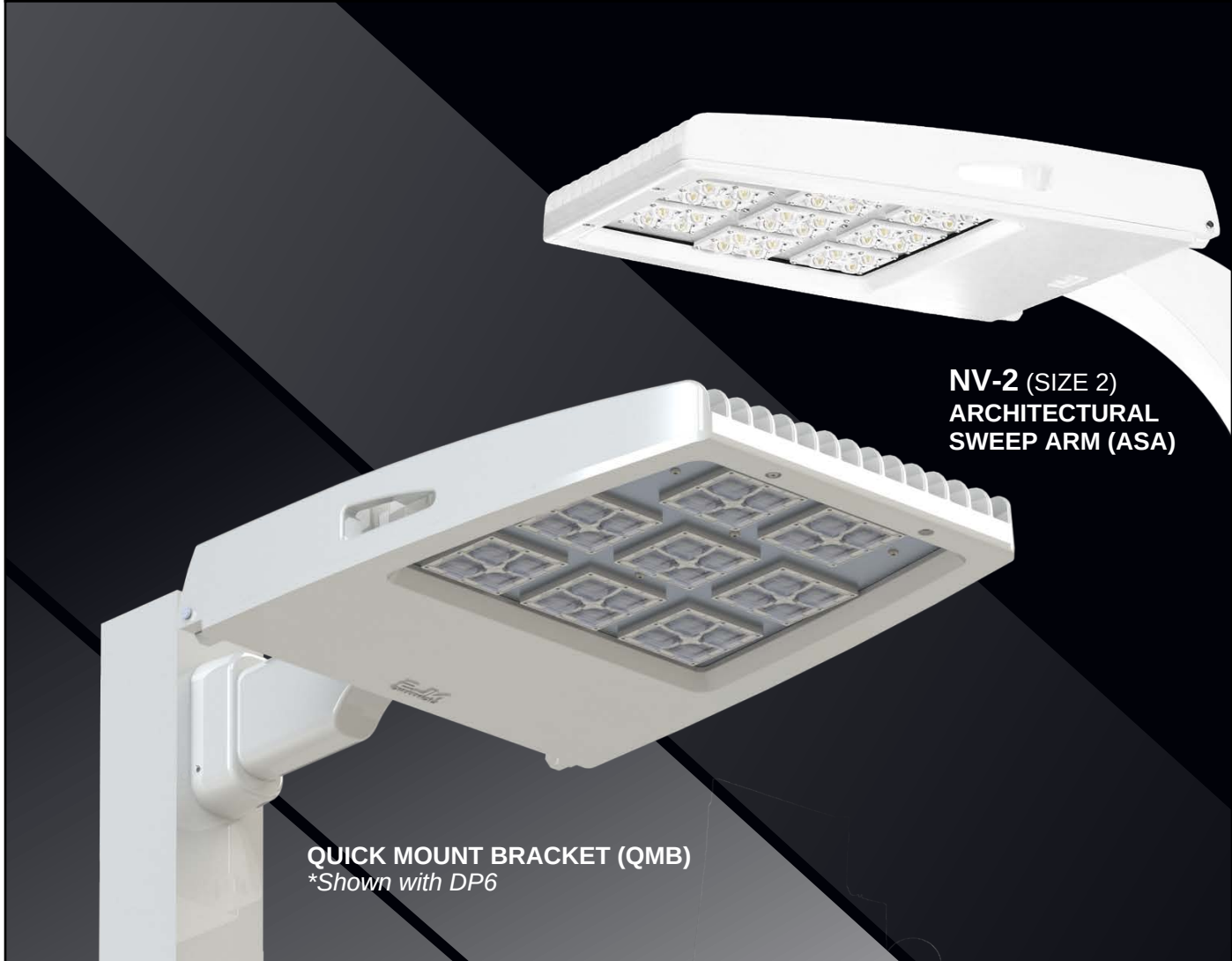
27K8, 30K7, 30K8, 35K8, 40K7, 40K8,
50K7, 50K8

CERTIFICATIONS

UL Listed
IP65 Rated Housing
IP67 Optics
DesignLights Consortium®
DesignLights Consortium Premium®
3G Vibration Rated ANSI C136.31-2010
IDA Dark Sky Approved

**OPTIONS**

Bird Spikes (BS)
Marine Grade Finish (MGF)
Nema 7-Pin Receptacle (PE7)
Photocell and Receptacle (PCR)
Receptacle and Shorting Cap (PER)
FSP-211 Event-Based Dimming | 20', 40' Hts. (FSP-X)
Quick Mount Bracket (QMB)
Retrofit Quick Mount Bracket (RQMB)
Optic Plate Painted to Match Fixture (OPP)
Rotated Optic Left/Right (ROL/ROR)
Automotive House Side Shield (AHS)
House Side Shield (HSS)



DIMENSIONS

Size One
NV-1

Weight 24 lbs.

Size Two
NV-2

Weight 42 lbs.

L70/L90 DATA

NV-1	TEMP 25°C
L70 (Up to 700mA)	> 173,000
L70 (1050mA)	> 143,000
L90 (Up to 700mA)	> 58,000
L90 (1050mA)	> 48,000

NV-2	TEMP 25°C
L70 (Up to 700mA)	> 173,000
L70 (1050mA)	> 143,000
L90 (Up to 700mA)	> 58,000
L90 (1050mA)	> 48,000

4

Job Name:
 Low Country Pickleball Club - DESIGN
 Architect: Court Atkins Group (Bluffton)
 Electrical Engineer: Sustainable Design
 Consultants (Savannah)

ATTACHMENT 1
Equipment Number:
 NV LUMINAIRE

Notes:

Type:**PARKING**

NEXTGEN SOUTH23-56764

SPEC GRADE

MAXIMUM PERFORMANCE

NV maximizes results for General Area Lighting, Parking Lots, Automotive Dealerships and Modern Architecture. Slim, Low Profile design for superior performance and optimal thermal management. This is maximum performance.



NV-1 (SIZE 1)
DIRECT POLE (DP)

WATTAGE

NV-1	16L	32L	48L	64L
350 mA	18W	-	-	-
530 mA	28W	-	-	-
700 mA	36W	71W	104W	136W
1050 mA	56W	106W	156W	205W

NV-2	80L	96L	112L	128L
700 mA	168W	200W	243W	265W
1050 mA	263W	316W	366W	409W

EPA

Single (SGL)		NV-1-DP3	0.46
		NV-1-KM	0.54
		NV-1-SA	0.75
Double (D90)		NV-1-DP7	1.14
		NV-1-KM	N/A
		NV-1-SA	1.29
Double (D180)		NV-1-DP3	0.92
		NV-1-KM	1.08
		NV-1-SA	1.50
Triple (T90)		NV-1-DP7	1.34
		NV-1-KM	N/A
		NV-1-SA	1.99
Triple (T120)		NV-1-DP7	1.37
		NV-1-KM	N/A
		NV-1-SA	2.05
Quad (QD)		NV-1-DP7	1.34
		NV-1-KM	N/A
		NV-1-SA	1.99
Single (SGL)		NV-2-DP6	0.89
		NV-2-KM	0.69
		NV-2-SA	0.98
Double (D90)		NV-2-DP11	1.22
		NV-2-KM	1.18
		NV-2-SA	1.96
Double (D180)		NV-2-DP6	1.78
		NV-2-KM	1.38
		NV-2-SA	1.75
Triple (T90)		NV-2-DP11	1.96
		NV-2-KM	1.85
		NV-2-SA	2.66
Triple (T120)		NV-2-DP11	1.91
		NV-2-KM	2.68
		NV-2-SA	2.62
Quad (QD)		NV-2-DP11	1.96
		NV-2-KM	1.85
		NV-2-SA	2.66

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

Notes:

Type:

PARKING

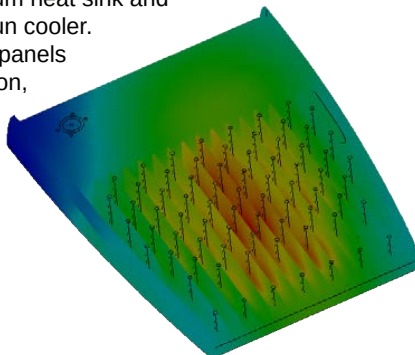
NEXTGEN SOUTH23-56764



THERMAL MANAGEMENT

Finite Element Analysis (FEA) Thermal Rendering shown below, displays how heat produced by LEDs is distributed and displaced throughout cooling cavity.

Die Cast Aluminum heat sink and fin designed to run cooler. Sleek side open panels for heat dissipation, cool air flow and water to exit.



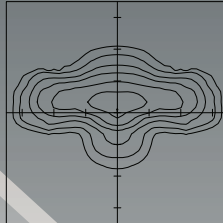
Job Name:

Low Country Pickleball Club - DESIGN
 Architect: Court Atkins Group (Bluffton)
 Electrical Engineer: Sustainable Design
 Consultants (Savannah)

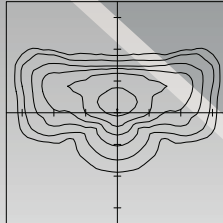
Notes:

IES DISTRIBUTIONS

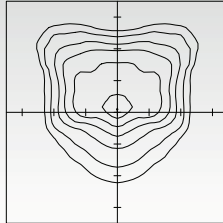
T2



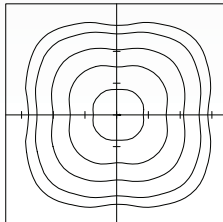
T3



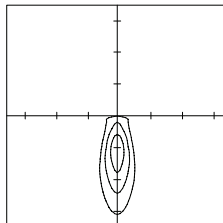
T4



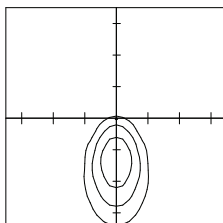
T5



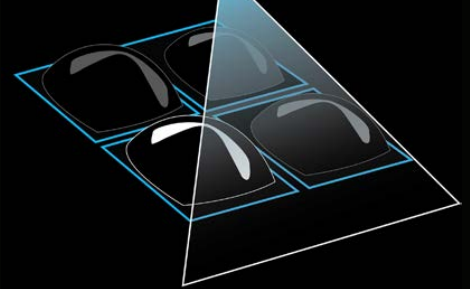
N2



N3



MICROOPTICS



SILICONE OPTICS

- Industry changing optical properties
- Silicone optic withstands harshest weather and dirt conditions
- Exceptional thermal and UV resistance
- Rated up to 200° C, whereas acrylic rated up to 85° C
- Does not yellow, or crack with age
- Vandal resistant, no fading or chalking
- Proven and warranted solution

HOUSE SIDE SHIELD (HSS)

Micro Optics' House Side Shield (HSS) is designed for full cut-off at property line.



MOUNTING OPTIONS

DP | KM | ASA | WM | TM | TA

DIRECT POLE (DP)

Extruded aluminum arm installs directly to Round or Square pole.

- Direct Pole for Square (DP)
- Specify RPA4/RPA5 for Round Poles from 3" to 6" round.

NV-1



***DP7 (7" Arm Length)**
D90, T90, T120, QD



***DP3 (3" Arm Length)**
Single, D180

NV-2



***DP11 (11" Arm Length)**
D90, T90, T120, QD



***DP6 (6" Arm Length)**
Single, D180

KNUCKLE MOUNT (KM)

Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon. Mounts over tenon and has wireway. Max uptilt of 114 degrees.



NV-1
0°-114°



NV-2
0°-90°

NV-1

NV-2

ARCHITECTURAL SWEEP ARM (ASA)

Cast Sweep Arm includes (standard) Internal Quick Mount Bracket.

NV-2



NV-1



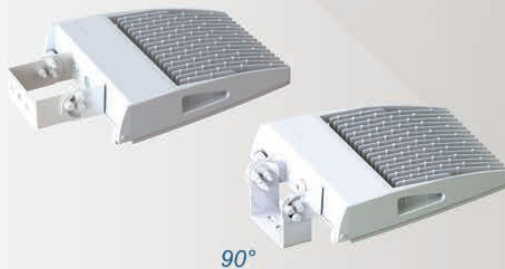
WALL MOUNT (WM)

Cast Aluminum Plate for direct wall mount. 3" extruded aluminum arm mounts directly to a cast wall mount box.



TRUNNION MOUNT (TM)

Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

**TENNIS ARM (TA)**

Steel fitter slips over 3.5" x 1.5' rectangular arm.

**OPTIONAL**

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures.



◀ **QUICK MOUNT BRACKET (QMB)**
2X4 Drill Pattern.

Longer slot to accommodate existing drill pattern.



◀ **RETROFIT QUICK MOUNT BRACKET (RQMB)**
Drill Pattern adjustable from 2X4/2X6.

3-STEP INSTALLATION**STEP 1**

Align cleat with fixture after installing on pole (apply over existing hole pattern).

**STEP 2**

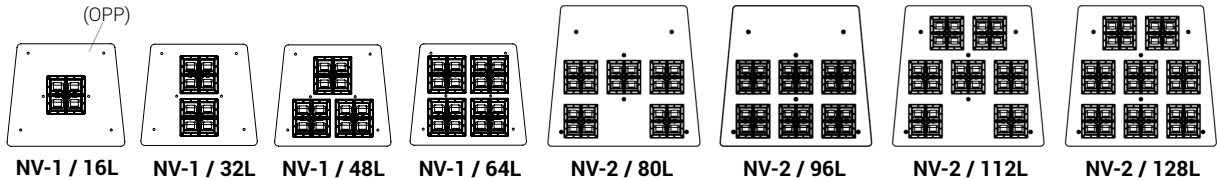
Hook fixture onto QMB/RQMB simplex.

**STEP 3**

Secure (2) Set Screws into QMB/RQMB.

OPTICAL CONFIGURATIONS

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.



*** OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)** – Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

LUMENS

PART NUMBER	N2	LM/W	N3	LM/W	T2	LM/W	DLC	T3	LM/W	DLC	T3 HSS	LM/W	T4	LM/W	DLC	T4 AHS	LM/W	T4 HSS	LM/W	T5	LM/W	DLC	W
NV-1-16L-35-30K	1944	108	2016	112	2106	117	P	2106	117	P	1134	63	2187	116	P	1296	72	1116	62	2231	118	P	18
NV-1-16L-35-40K	2016	112	2088	116	2268	126	P	2286	127	P	1206	67	2250	125	P	1368	76	1188	66	2304	128	P	18
NV-1-16L-35-50K	2088	116	2160	120	2376	132	P	2394	133	P	1278	71	2358	131	P	1440	80	1260	70	2412	134	P	18
NV-1-16L-53-30K	3024	108	3136	112	3192	114	P	3220	115	P	1764	63	3119	113	P	2016	72	1736	62	3248	116	P	28
NV-1-16L-53-40K	3136	112	3248	116	3472	124	P	3472	124	P	1876	67	3444	123	P	2128	76	1848	66	3500	125	P	28
NV-1-16L-53-50K	3248	116	3360	120	3612	129	P	3640	130	P	1988	71	3584	128	P	2240	80	1960	70	3668	131	P	28
NV-1-16L-7-30K	3888	108	4032	112	3960	110	P	3960	110	P	2268	63	3973	109	P	2592	72	2232	62	3996	111	P	36
NV-1-16L-7-40K	4032	112	4176	116	4428	123	P	4284	119	P	2412	67	4212	117	P	2736	76	2376	66	4320	120	P	36
NV-1-16L-7-50K	4176	116	4320	120	4644	129	P	4500	125	P	2556	71	4428	123	P	2880	80	2520	70	4500	125	P	36
NV-1-16L-1-30K	6048	108	6272	112	6160	110	S	6384	114	P	3528	63	6232	112	P	4032	72	3472	62	6440	115	P	56
NV-1-16L-1-40K	6272	112	6496	116	6832	122	P	6888	123	P	3752	67	6776	121	P	4256	76	3696	66	6944	124	P	56
NV-1-16L-1-50K	6496	116	6720	120	7168	128	P	7224	129	P	3976	71	7112	127	P	4480	80	3920	70	7280	130	P	56
NV-1-32L-7-30K	7668	108	7952	112	7810	110	S	7810	110	S	4473	63	7739	109	S	5112	72	4402	62	7881	111	S	71
NV-1-32L-7-40K	7952	112	8236	116	9017	127	P	8449	119	P	4757	67	8307	117	P	5396	76	4686	66	8520	120	P	71
NV-1-32L-7-50K	8236	116	8520	120	9159	129	P	8875	125	P	5041	71	8733	123	P	5680	80	4970	70	8946	126	P	71
NV-1-32L-1-30K	11448	108	11872	112	11660	110	S	12084	114	S	6678	63	11820	112	S	7632	72	6572	62	12190	115	S	106
NV-1-32L-1-40K	11872	112	12296	116	12932	122	P	13038	123	P	7102	67	12826	121	P	8056	76	6996	66	13144	124	P	106
NV-1-32L-1-50K	12296	116	12720	120	13568	128	P	13674	129	P	7526	71	13462	127	P	8480	80	7420	70	13780	130	P	106
NV-1-48L-7-30K	11232	108	11648	112	11440	110	S	11440	110	S	6552	63	11336	109	S	7488	72	6448	62	11544	111	S	104
NV-1-48L-7-40K	11648	112	12064	116	13208	127	P	12376	119	P	6968	67	12168	117	P	7904	76	6864	66	12480	120	P	104
NV-1-48L-7-50K	12064	116	12480	120	13520	130	P	13000	125	P	7384	71	12792	123	P	8320	80	7280	70	13104	126	P	104
NV-1-48L-1-30K	16848	108	17472	112	17160	110	S	17784	114	S	9828	63	17472	112	S	11232	72	9672	62	17940	115	S	156
NV-1-48L-1-40K	17472	112	18096	116	19032	122	P	19188	123	P	10452	67	18876	121	P	11856	76	10296	66	19344	124	P	156
NV-1-48L-1-50K	18096	116	18720	120	19968	128	P	20124	129	P	11076	71	19812	127	P	12480	80	10920	70	20280	130	P	156
NV-1-64L-7-30K	14688	108	15232	112	14960	110	S	14960	110	S	8568	63	14824	109	S	9792	72	8432	62	15096	111	S	136
NV-1-64L-7-40K	15232	112	15776	116	17272	127	P	16184	119	P	9112	67	15912	117	P	10336	76	8976	66	16320	120	P	136
NV-1-64L-7-50K	15776	116	16320	120	17680	130	P	17000	125	P	9656	71	16728	123	P	10880	80	9520	70	17136	126	P	136
NV-1-64L-1-30K	22140	108	22960	112	22550	110	S	23370	114	S	12915	63	22960	112	S	14760	72	12710	62	23575	115	S	205
NV-1-64L-1-40K	22960	112	23780	116	25010	122	P	25215	123	P	13735	67	24805	121	P	15580	76	13530	66	25420	124	P	205
NV-1-64L-1-50K	23780	116	24600	120	26240	128	P	26445	129	P	14555	71	26035	127	P	16400	80	14350	70	26650	130	P	205
NV-2-80L-7-30K	-	-	18816	112	19744	116	S	19218	113	S	9744	58	18992	112	S	12096	72	9576	57	19713	117	P	168
NV-2-80L-7-40K	-	-	19488	116	21000	125	P	20328	121	P	10416	62	20160	120	P	12768	76	10248	61	21168	126	P	168
NV-2-80L-7-50K	-	-	20160	120	21672	129	P	21168	126	P	11088	66	21000	125	P	13440	80	10920	65	21840	130	P	168
NV-2-80L-1-30K	-	-	29456	112	28141	107	S	27352	104	S	15254	58	30245	115	S	18936	72	14991	57	29193	111	S	263
NV-2-80L-1-40K	-	-	30508	116	30245	115	S	29456	112	S	16306	62	32086	122	S	19988	76	16043	61	31297	119	S	263
NV-2-80L-1-50K	-	-	31560	120	31297	119	P	30508	116	S	17358	66	33664	128	P	21040	80	17095	65	33138	126	P	263
NV-2-96L-7-30K	-	-	22400	112	23200	116	S	22600	113	S	11600	58	22400	112	S	14400	72	11400	57	23400	117	S	200
NV-2-96L-7-40K	-	-	23200	116	25000	125	P	24200	121	P	12400	62	24000	120	P	15200	76	12200	61	25200	126	P	200
NV-2-96L-7-50K	-	-	24000	120	25800	129	P	25200	126	P	13200	66	25000	125	P	16000	80	13000	65	26000	130	P	200
NV-2-96L-1-30K	-	-	35392	112	33812	107	S	32864	104	S	18328	58	36340	115	S	22752	72	18012	57	35076	111	S	316
NV-2-96L-1-40K	-	-	36656	116	36340	115	S	35392	112	S	19592	62	38552	122	S	24016	76	19276	61	37604	119	S	316
NV-2-96L-1-50K	-	-	37920	120	37604	119	P	36656	116	S	20856	66	40448	128	P	25280	80	20540	65	39816	126	P	316
NV-2-112L-7-30K	-	-	27216	112	28188	116	S	27459	113	S	14094	58	27216	112	S	17496	72	13851	57	28431	117	P	243
NV-2-112L-7-40K	-	-	28188	116	30375	125	P	29403	121	P	15066	62	29160	120	P	18468	76	14823	61	30618	126	P	243
NV-2-112L-7-50K	-	-	29160	120	31347	129	P	30618	126	P	16038	66	30375	125	P	19440	80	15795	65	31590	130	P	243
NV-2-112L-1-30K	-	-	40992	112	39162	107	S	38064	104	S	21228	58	42090	115	S	26352	72	20862	57	40626	111	S	366
NV-2-112L-1-40K	-	-	42456	116	42090	115	S	40992	112	S	22692	62	44652	122	S	27816	76	22326	61	43554	119	S	366
NV-2-112L-1-50K	-	-	43920	120	43554	119	P	42456	116	S	24156	66	46848	128	P	29280	80	23790	65	46116	126	P	366
NV-2-128L-7-30K	-	-	29680	112	30740	116	S	29945	113	S	15370	58	29680	112	S	19080	72	15105	57	31005	117	P	265
NV-2-128L-7-40K	-	-	30740	116	33125	125	P	32065	121	P	16430	62	31800	120	P	20140	76	16165	61	33390	126	P	265
NV-2-128L-7-50K	-	-	31800	120	34185	129	P	33390	126	P	17490	66	33125	125	P	21200	80	17225	65	34450	130	P	265
NV-2-128L-1-30K	-	-	45808	112	43763	107	S	42536	104	S	23722	58	47035	115	S	29448	72	23313	57	45399	111	S	409
NV-2-128L-1-40K	-	-	47444	116	47035	115	S	45808	112	S	25358	62	49898	122	S	31084	76	24949	61	48671	119	S	409
NV-2-128L-1-50K	-	-	49080	120	48671	119	P	47445	116	S	26994	66	52352	128	P	33129	81	26585	65	51534	126	P	409

*DLC S= Standard
P= Premium



Transmittal

ALESCO (Advantage Lighting & Energy)
dba Next Generation Lighting - South, L
Statesboro GA 30459
Phone: (912) 489-5471
From: Jason Pittman

Project Low Country Pickleball Club - DESIGN
Quote# NEXTGEN SOUTH23-56764
Location Bluffton SC
To Sustainable Design Consultants
1 Diamond Cuaseway
Suite 7
Savannah GA 31406
Contact: Warren Law

ATTACHED WE ARE SENDING YOU 1 COPY OF THE FOLLOWING ITEM:

- | | | |
|-----------------------------------|--|--------|
| ☐ Drawings | ☐ Specifications | Other: |
| ☐ Prints | ☐ Information | |
| ☐ Plans | ☒ Submittals | |

THESE ARE TRANSMITTED FOR:

- | | | |
|--|--|---------------------------------|
| ☐ Prior Approval | ☐ Resubmittal for Approval | ☐ Record |
| ☐ Approval | ☐ Corrections | Bids due on: |
| ☐ Approval as Submitted | ☐ Your Use | Other: |
| ☐ Approval as Noted | ☒ Review and Comment | |

Type	MFG	Part
SA	NLS Lighting	NV-1-T4-16L-1-(CCT)-(VOLTAGE)-(MOUNT)-(COLOR)
SB	NLS Lighting	NV-1-T4-32L-7-(CCT)-(VOLTAGE)-(MOUNT)-(COLOR)-HSS
SC	NLS Lighting	NV-1-T4-32L-1-(CCT)-(VOLTAGE)-(MOUNT)-(COLOR)
SD	NLS Lighting	NV-1-T4-32L-1-(CCT)-(VOLTAGE)-(MOUNT)-(COLOR)-HSS
SP1	NLS Lighting	VUE-3-TT-40-(CCT)-(VOLTAGE)-TA-(COLOR)
SP2	NLS Lighting	VUE-2-TT-80L-1-(CCT)-(VOLTAGE)-TA-(COLOR)

NLS
 LIGHTING

NV-1

AREA, SITE & ROADWAY

FORM AND FUNCTION

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
 - Parking Lots
 - Auto Dealerships
 - General Area Lighting

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

FINISH

- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion, protects against extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

**LED WATTAGE CHART**

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV-1 (NV-1)	Type 2 (T2)	16 (16L)	350 (35)	2700K, 70 CRI (27K7) ①	120-277 (UNV)	Architectural Sweep Arm (ASA)	Bronze Textured (BRZ)	Bird Spikes (BS)
	Type 3 (T3)	32 (32L)	530 (53)	2700K, 80 CRI (27K8) ① ②	347-480 (HV)	Direct Pole 3" Arm Single, D180 (DPS3) ③	White Textured (WHT)	Marine Grade Finish (MGF)
	Type 4 (T4)	48 (48L)	700 (7)	3000K, 70 CRI (30K7) ③		Direct Pole 7" Arm D180, D90, T90, T120, Quad (DPS7) ③	Smooth White Gloss (SWT)	Optic Plate Painted to Match Fixture (OPP)
	Type 5 (T5)	64 (64L)	1050 (1)	3000K, 80 CRI (30K8) ① ③		Knuckle Mount (KM)	Silver (SVR)	Nema 7-Pin Receptacle (PE7)
	Nema 2 24" Narrow Beam (N2)			3500K, 80 CRI (35K8)		Wall Mount (WM)	Black Textured (BLK)	Photocell + Receptacle (PCR)
	Nema 3 30" Narrow Beam (N3)			4000K, 70 CRI (40K7)		Trunnion Mount (TM) ④	Smooth Black Gloss (SBK)	Receptacle + Shorting Cap (PER)
				4000K, 80 CRI (40K8) ①		Tennis Arm (TA)	Graphite Textured (GPH)	FSP-211 with Motion Sensor
				5000K, 70 CRI (50K7)		Mast Arm (MA)	Grey Textured (GRY)	(FSP-20) ⑤ 9'-20" Heights
				5000K, 80 CRI (50K8) ①			Custom (CS)	(FSP-40) ⑤ 21'-40" Heights
								Quick Mount Bracket (QMB)

Notes:

- ① Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- ② For Round Pole Specify RPA4 or RPA5
- ③ Standard finish is stainless steel. Can be painted to match fixture
- ④ Universal Voltage 120-277
- ⑤ HSS not applicable with Nema 2 and Nema 3 Optics
- ⑥ 3000K or lower must be selected to meet International Dark-Sky Association certification.

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP65 compartment
- CRI 70, 80 or 90
- Color temperatures: 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KVA supplied as standard.

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

OPTIONS

- BIRD SPIKES (BS) - Offers a practical and humane deterrent for larger bird species and provides a cost-effective long-term solution to nuisance bird infestations and protects your property.
- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- OPTIC PLATE PAINTED TO MATCH FIXTURE (OPP) - Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.
- QUICK MOUNT BRACKET (QMB) - Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.
- RETROFIT MOUNT BRACKET - Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".
- ROUND POLE ADAPTER (RPA) - When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.
- ROTATED OPTICS (ROL) (ROR) - Rotated optics are designed for perimeter lighting for auto dealerships.
- SHIELDS (HSS, AHS) - House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- BLACK HARDWARE (BH) - Optional black, zinc coated steel hardware.
- BLACK OPTIC FRAME (BOF) - Optional black optic frame. Standard is white.

CONTROL OPTIONS

- FSP-211 (FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-20 mounting heights 9-20 feet
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
- FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostics: Please contact factory for your preferred controls option.
- NEMA 7-PIN RECEPTACLE (PE7) - An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCCELL + RECEPTACLE (PCR) - 7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER) - 7-Pin Receptacle and Shorting Cap.

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

OPTICS

Silicone optics high thermal stability and light output provide higher powered LEDs with minimized lumen depreciation. UV stability with scratch resistance increases exterior application durability. Silicone optics do not yellow, crack or brittle over time

LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010
- IDA Dark Sky Approved
- IK10 Rated



The information and specifications on this document are subject to change without any notification. All values are design, nominal, typical or prorated values when measured under internal and external laboratory conditions.

NLS
 LIGHTING

 701 Kingshill Place, Carson, CA 90746
 Call Us Today (310) 341-2037

nlsighting.com

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

Attachment Number:

NV-1-T4-16L-1-(CCT)-(VOLTAGE)-
(MOUNT)-(COLOR)

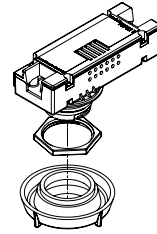
Notes:

Type:**SA**

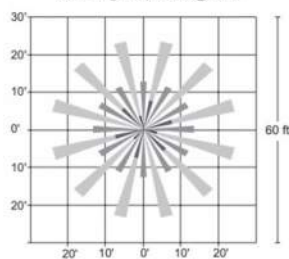
NEXTGEN SOUTH23-56764

PRODUCT SPECIFICATIONS**CONTROLS**

- **DIMMING CONTROL (FSP)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-8 mounting heights 8 feet and below
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

**FSP-8**

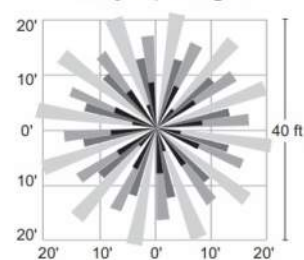
Coverage Top View @ 12ft.



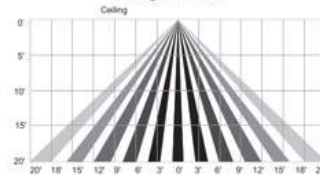
Coverage Side View

**FSP-20**

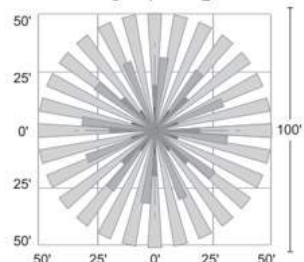
Coverage Top View @ 20 ft.



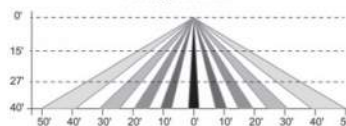
Coverage Side View

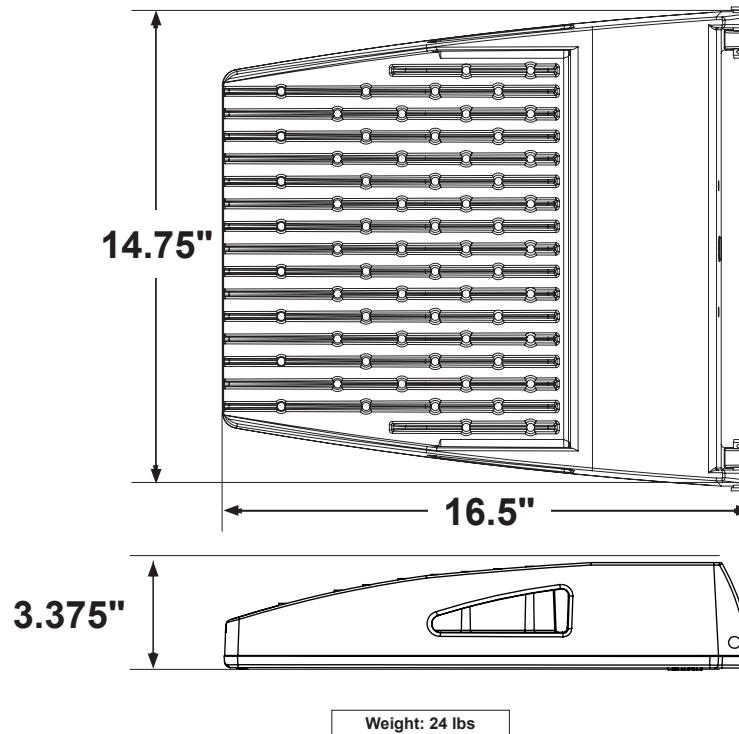
**FSP-40**

Coverage Top View @40ft



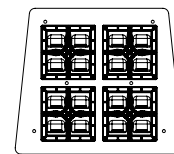
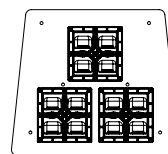
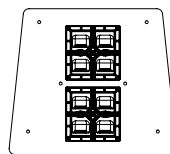
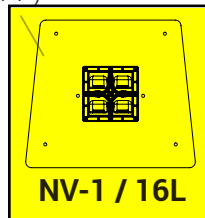
Coverage Side View



PRODUCT SPECIFICATIONS**OPTICAL CONFIGURATIONS**

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

(OPP)

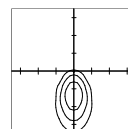
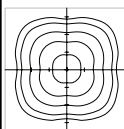
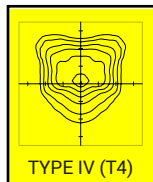
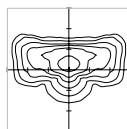
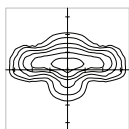


* **OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)**— Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

OPTICS

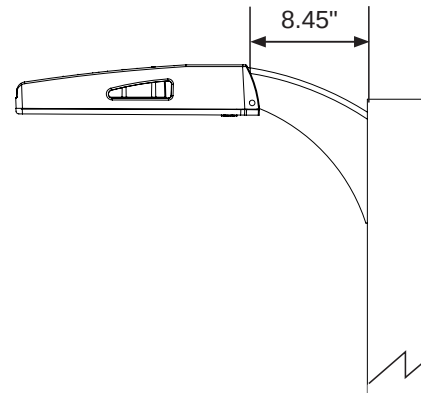
Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

- IES Types



MOUNTING OPTIONS**ARCHITECTURAL SWEEP ARM (ASA)**

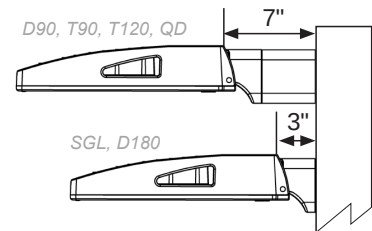
Cast Sweep Arm includes (as standard)
Internal Quick Mount Bracket.

**DIRECT POLE (DP)**

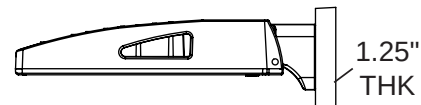
Standard mounting arm is extruded
aluminum in lengths of 3" and 7".
**Arm lengths may vary depending on configuration*

DPX ARM LENGTH

DPX ARM LENGTH	SGL	D90	D180	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"	7"

**WALL MOUNT (WM)**

Cast Aluminum Plate for direct wall
mount. 3" extruded aluminum arm
mounts directly to a cast wall mount box.

**EPA**

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP3	0.46		0.92			
NV-1-DP7		1.14	1.05	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-ASA	0.75	1.29	1.50	1.99	2.05	1.99

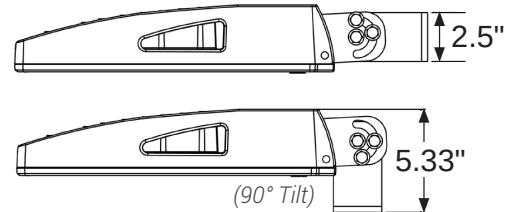
**MOUNTING
CONFIGURATION**

MOUNTING OPTIONS

TRUNNION MOUNT (TM)

Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

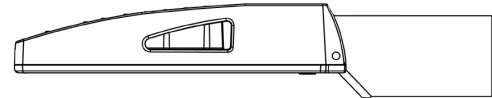
**Unpainted stainless steel is standard*



TENNIS ARM (TA)

Steel fitter slips over 3.5" x 1.5" rectangular arm.

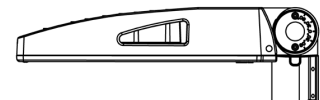
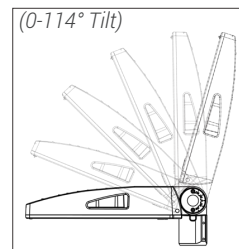
**See Tennis Arm Spec Sheet for details*



KNUCKLE MOUNT (KM)

Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Up-tilt of 90 degrees
- Adjustable in 6 degree increments
- 1.5G Vibration Rated per ANSI C136.31-2010



BIRD SPIKES (BS)

Bird Spikes offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.

MARINE GRADE FINISH (MGF)

The **(MGF)** is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.

**Powder Coat Finish**

3-5mm Powder Coat

Primer Layer

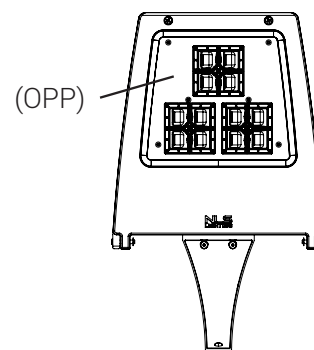
3-5mm Zinc Rich Super Durable Polyester Primer

Prepared Casting

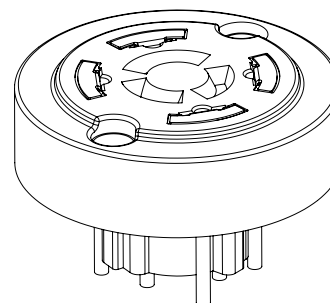
Chemically washed in multi Step 5 stage cleaning process

OPTIC PLATE PAINTED TO MATCH (OPP)

Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.

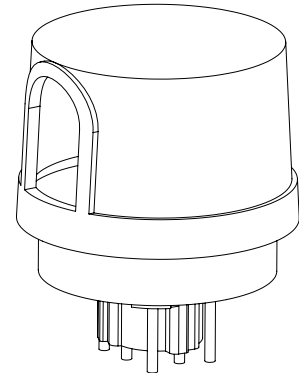
**NEMA 7-PIN RECEPTACLE (PE7)**

An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

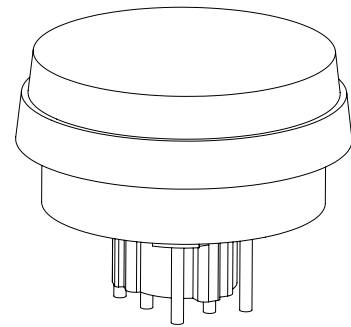


PHOTOCELL + RECEPTACLE (PCR)

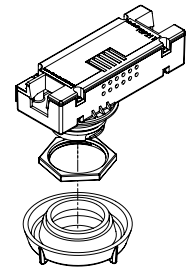
7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.

**RECEPTACLE + SHORTING CAP (PER)**

7-Pin Receptacle and Shorting Cap.

**FSP-211 WITH MOTION SENSOR (FSP-XX)**

- FSP-211 (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-20 mounting heights 9-20 feet
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-211**QUICK MOUNT BRACKET (QMB)**

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.



Job Name:

Low Country Pickleball Club - DESIGN
 Architect: Court Atkins Group (Bluffton)
 Electrical Engineer: Sustainable Design
 Consultants (Savannah)

ATTACHMENT 4**Part Number:**

NV-1-T4-16L-1-(CCT)-(VOLTAGE)-
 (MOUNT)-(COLOR)

Notes:**Type:****SA**

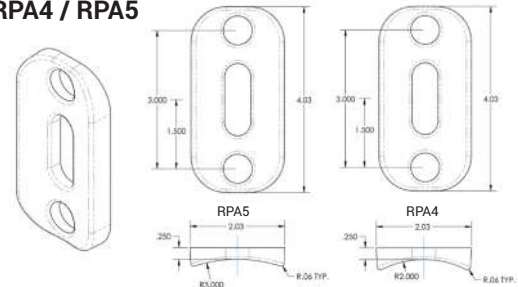
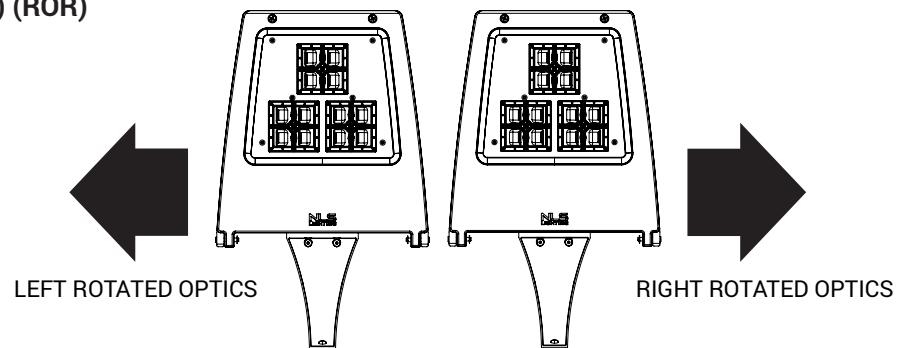
NEXTGEN SOUTH23-56764

RETROFIT MOUNT BRACKET (RQMB)

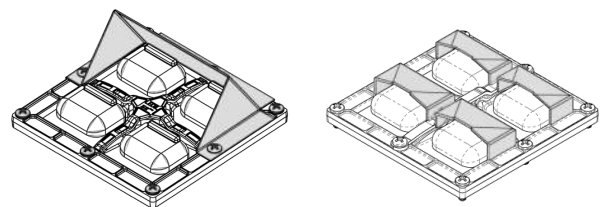
Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".

**ROUND POLE ADAPTER OPTIONS (RPA4) (RPA5)**

When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

RPA4 / RPA5**ROTATED OPTICS (ROL) (ROR)****SHIELDING OPTIONS (AHS) (HSS)**

SHIELDS (HSS, AHS)—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.

**AUTOMOTIVE
HOUSE SIDE SHIELD****HOUSE SIDE SHIELD**

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

ATTACHMENT 4**Part Number:**

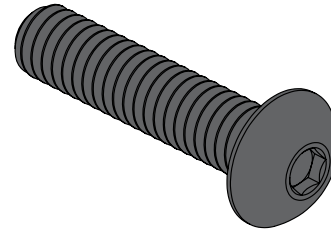
NV-1-T4-16L-1-(CCT)-(VOLTAGE)-
(MOUNT)-(COLOR)

Notes:**Type:****SA**

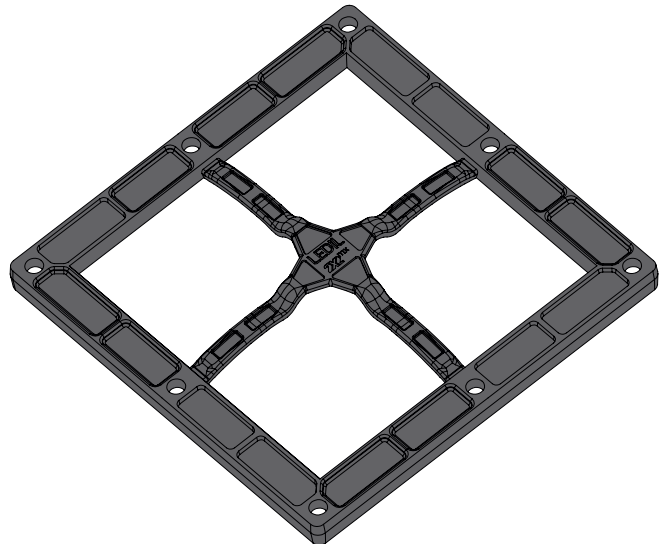
NEXTGEN SOUTH23-56764

BLACK HARDWARE

Optional black, zinc coated steel
hardware.

**BLACK OPTIC FRAME**

Optional Black Optic Frame.
Standard is white.



LUMENS																					
PART NUMBER	N3	LM/W	T2	LM/W	DLC	T3	LM/W	DLC	T3 HSS	LM/W	T4	LM/W	DLC	T4 AHS	LM/W	T4 HSS	LM/W	T5	LM/W	DLC	W
NV-1-16L-35-30K7	2016	112	2106	117	P	2106	117	P	1134	63	2187	116	P	1296	72	1116	62	2231	118	P	18
NV-1-16L-35-40K7	2088	116	2268	126	P	2286	127	P	1206	67	2250	125	P	1368	76	1188	66	2304	128	P	18
NV-1-16L-35-50K7	2160	120	2376	132	P	2394	133	P	1278	71	2358	131	P	1440	80	1260	70	2412	134	P	18
NV-1-16L-53-30K7	3136	112	3192	114	P	3220	115	P	1764	63	3119	113	P	2016	72	1736	62	3248	116	P	28
NV-1-16L-53-40K7	3248	116	3472	124	P	3472	124	P	1876	67	3444	123	P	2128	76	1848	66	3500	125	P	28
NV-1-16L-53-50K7	3360	120	3612	129	P	3640	130	P	1988	71	3584	128	P	2240	80	1960	70	3668	131	P	28
NV-1-16L-7-30K7	4032	112	3960	110	P	3960	110	P	2268	63	3973	109	P	2592	72	2232	62	3996	111	P	36
NV-1-16L-7-40K7	4176	116	4428	123	P	4284	119	P	2412	67	4212	117	P	2736	76	2376	66	4320	120	P	36
NV-1-16L-7-50K7	4320	120	4644	129	P	4500	125	P	2556	71	4428	123	P	2880	80	2520	70	4500	125	P	36
NV-1-16L-1-30K7	6272	112	6160	110	S	6384	114	P	3528	63	6232	112	P	4032	72	3472	62	6440	115	P	56
NV-1-16L-1-40K7	6496	116	6832	122	P	6888	123	P	3752	67	6776	121	P	4256	76	3696	66	6944	124	P	56
NV-1-16L-1-50K7	6720	120	7168	128	P	7224	129	P	3976	71	7112	127	P	4480	80	3920	70	7280	130	P	56
NV-1-32L-7-30K7	7952	112	7810	110	S	7810	110	S	4473	63	7739	109	S	5112	72	4402	62	7881	111	S	71
NV-1-32L-7-40K7	8236	116	9017	127	P	8449	119	P	4757	67	8307	117	P	5396	76	4686	66	8520	120	P	71
NV-1-32L-7-50K7	8520	120	9159	129	P	8875	125	P	5041	71	8733	123	P	5680	80	4970	70	8946	126	P	71
NV-1-32L-1-30K7	11872	112	11660	110	S	12084	114	S	6678	63	11820	112	S	7632	72	6572	62	12190	115	S	106
NV-1-32L-1-40K7	12296	116	12932	122	P	13038	123	P	7102	67	12826	121	P	8056	76	6996	66	13144	124	P	106
NV-1-32L-1-50K7	12720	120	13568	128	P	13674	129	P	7526	71	13462	127	P	8480	80	7420	70	13780	130	P	106
NV-1-48L-7-30K7	11648	112	11440	110	S	11440	110	S	6552	63	11336	109	S	7488	72	6448	62	11544	111	S	104
NV-1-48L-7-40K7	12064	116	13208	127	P	12376	119	P	6968	67	12168	117	P	7904	76	6864	66	12480	120	P	104
NV-1-48L-7-50K7	12480	120	13520	130	P	13000	125	P	7384	71	12792	123	P	8320	80	7280	70	13104	126	P	104
NV-1-48L-1-30K7	17472	112	17160	110	S	17784	114	S	9828	63	17472	112	S	11232	72	9672	62	17940	115	S	156
NV-1-48L-1-40K7	18096	116	19032	122	P	19188	123	P	10452	67	18876	121	P	11856	76	10296	66	19344	124	P	156
NV-1-48L-1-50K7	18720	120	19968	128	P	20124	129	P	11076	71	19812	127	P	12480	80	10920	70	20280	130	P	156
NV-1-64L-7-30K7	15232	112	14960	110	S	14960	110	S	8568	63	14824	109	S	9792	72	8432	62	15096	111	S	136
NV-1-64L-7-40K7	15776	116	17272	127	P	16184	119	P	9112	67	15912	117	P	10336	76	8976	66	16320	120	P	136
NV-1-64L-7-50K7	16320	120	17680	130	P	17000	125	P	9656	71	16728	123	P	10880	80	9520	70	17136	126	P	136
NV-1-64L-1-30K7	22960	112	22550	110	S	23370	114	S	12915	63	22960	112	S	14760	72	12710	62	23575	115	S	205
NV-1-64L-1-40K7	23780	116	25010	122	P	25215	123	P	13735	67	24805	121	P	15580	76	13530	66	25420	124	P	205
NV-1-64L-1-50K7	24600	120	26240	128	P	26445	129	P	14555	71	26035	127	P	16400	80	14350	70	26650	130	P	205
3000K or warmer must be selected to meet International Dark-Sky Association certification.																					

3000k or warmer must be selected to meet International Dark-Sky Association certification.

BUG RATINGS						
PART NUMBER	T2	T3	T3 HSS	T4	T4 HSS	T5
NV-1-16L-35-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G2
NV-1-16L-53-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-7-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-40K7	B1-U0-G1	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-16L-1-50K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-30K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-40K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-7-50K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-1-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B0-U0-G2	B4-U0-G2
NV-1-48L-7-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-48L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-48L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-64L-7-30K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-40K7	B3-U0-G3	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G3	B5-U0-G3
NV-1-64L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3
NV-1-64L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3

Lumen Maintenance Data							
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,00 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			

NLS
 LIGHTING

NV-1

AREA, SITE & ROADWAY

FORM AND FUNCTION

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
 - Parking Lots
 - Auto Dealerships
 - General Area Lighting

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

FINISH

- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion, protects against extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

**LED WATTAGE CHART**

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV-1 (NV-1)	Type 2 (T2)	16 (16L)	350 (35)	2700K, 70 CRI (27K7) ①	120-277 (UNV)	Architectural Sweep Arm (ASA)	Bronze Textured (BRZ)	Bird Spikes (BS) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP)
	Type 3 (T3)	32 (32L)	530 (53)	2700K, 80 CRI (27K8) ① ②	347-480 (HV)	Direct Pole 3" Arm Single, D180 (DPS3) ③	White Textured (WHT)	Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER) FSP-211 with Motion Sensor
	Type 4 (T4)	48 (48L)	700 (7)	3000K, 70 CRI (30K7) ③		Direct Pole 7" Arm D180, D90, T90, T120, Quad (DPS7) ③	Smooth White Gloss (SWT)	FSP-200 ④ 9'-20" Heights FSP-400 ④ 21'-40" Heights Quick Mount Bracket (QMB) Retrofit Mount Bracket (RQMB)
	Type 5 (T5)	64 (64L)	1050 (1)	3000K, 80 CRI (30K8) ① ③		Knuckle Mount (KM)	Silver (SVR)	Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5)
	Nema 2 24" Narrow Beam (N2)			3500K, 80 CRI (35K8)		Wall Mount (WM)	Black Textured (BLK)	Rotated Optic Left (ROL) Rotated Optic Right (ROR) Automotive House Side Shield (AHS)
	Nema 3 30" Narrow Beam (N3)			4000K, 70 CRI (40K7)		Trunnion Mount (TM) ⑤	Smooth Black Gloss (SBK)	House Side Shield (HSS) ⑥ Black Hardware (BH) Black Optic Frame (BOF)
				4000K, 80 CRI (40K8) ①		Tennis Arm (TA)	Graphite Textured (GPH)	
				5000K, 70 CRI (50K7)		Mast Arm (MA)	Grey Textured (GRY)	
				5000K, 80 CRI (50K8) ①			Custom (CS)	

Notes:

- ① Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- ② For Round Pole Specify RPA4 or RPA5
- ③ Standard finish is stainless steel. Can be painted to match fixture
- ④ Universal Voltage 120-277
- ⑤ HSS not applicable with Nema 2 and Nema 3 Optics
- ⑥ 3000K or lower must be selected to meet International Dark-Sky Association certification.

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP65 compartment
- CRI 70, 80 or 90
- Color temperatures: 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KVA supplied as standard.

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

OPTIONS

- BIRD SPIKES (BS) - Offers a practical and humane deterrent for larger bird species and provides a cost-effective long-term solution to nuisance bird infestations and protects your property.
- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- OPTIC PLATE PAINTED TO MATCH FIXTURE (OPP) - Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.
- QUICK MOUNT BRACKET (QMB) - Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.
- RETROFIT MOUNT BRACKET - Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".
- ROUND POLE ADAPTER (RPA) - When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.
- ROTATED OPTICS (ROL) (ROR) - Rotated optics are designed for perimeter lighting for auto dealerships.
- SHIELDS (HSS, AHS) - House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- BLACK HARDWARE (BH) - Optional black, zinc coated steel hardware.
- BLACK OPTIC FRAME (BOF) - Optional black optic frame. Standard is white.

CONTROL OPTIONS

- FSP-211 (FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-20 mounting heights 9-20 feet
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
- FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostics: Please contact factory for your preferred controls option.
- NEMA 7-PIN RECEPTACLE (PE7) - An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCCELL + RECEPTACLE (PCR) - 7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER) - 7-Pin Receptacle and Shorting Cap.

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

OPTICS

Silicone optics high thermal stability and light output provide higher powered LEDs with minimized lumen depreciation. UV stability with scratch resistance increases exterior application durability. Silicone optics do not yellow, crack or brittle over time

LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010
- IDA Dark Sky Approved
- IK10 Rated



The information and specifications on this document are subject to change without any notification. All values are design, nominal, typical or prorated values when measured under internal and external laboratory conditions.

NLS
 LIGHTING

 701 Kingshill Place, Carson, CA 90746
 Call Us Today (310) 341-2037

nlsighting.com

Job Name:

Low Country Pickleball Club - DESIGN
 Architect: Court Atkins Group (Bluffton)
 Electrical Engineer: Sustainable Design
 Consultants (Savannah)

ATTACHMENT 1**Product Number:**

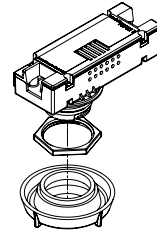
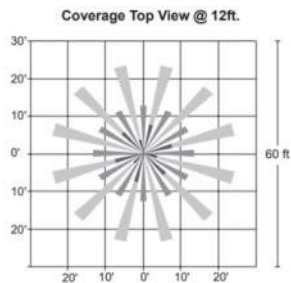
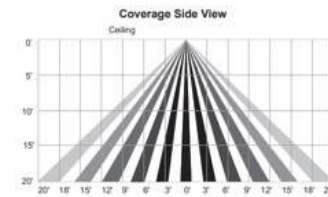
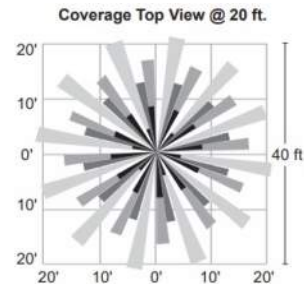
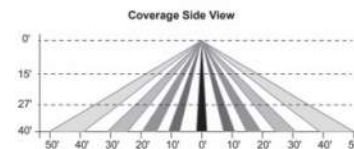
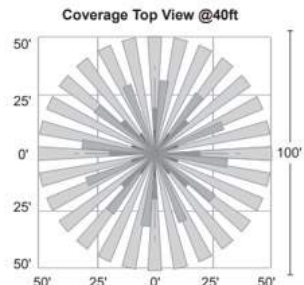
NV-1-T4-32L-7-(CCT)-(VOLTAGE)-
 (MOUNT)-(COLOR)-HSS

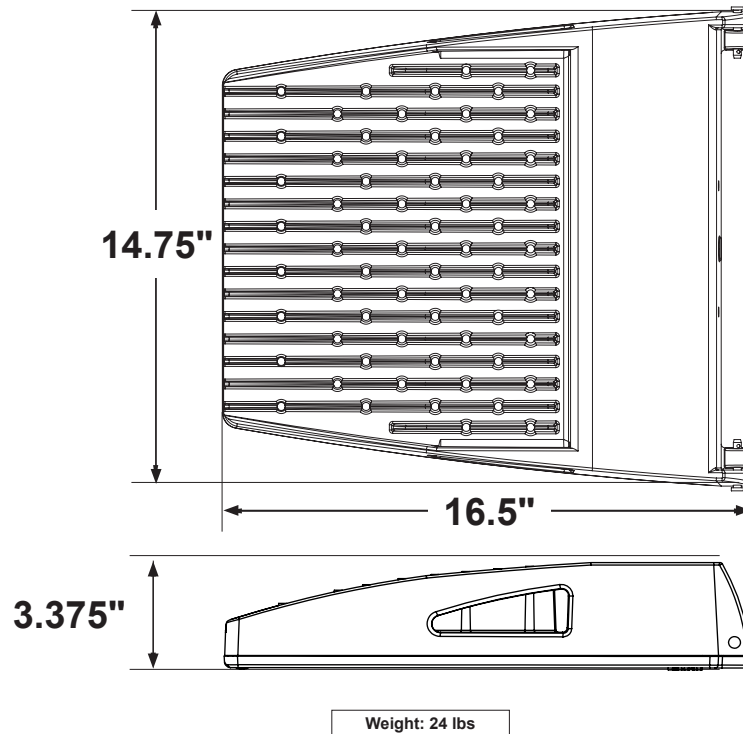
Notes:**Type:****SB**

NEXTGEN SOUTH23-56764

PRODUCT SPECIFICATIONS**CONTROLS**

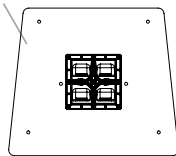
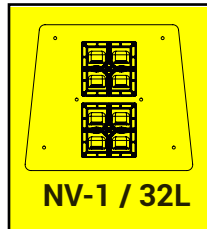
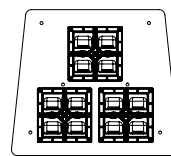
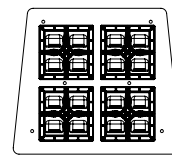
- **DIMMING CONTROL (FSP)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-8 mounting heights 8 feet and below
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

**FSP-8****FSP-20****FSP-40**

PRODUCT SPECIFICATIONS**OPTICAL CONFIGURATIONS**

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

(OPP)

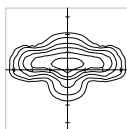
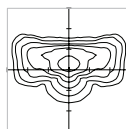
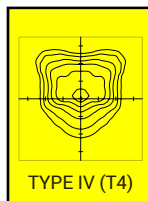
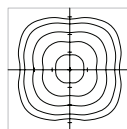
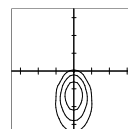
**NV-1 / 16L****NV-1 / 32L****NV-1 / 48L****NV-1 / 64L**

* **OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)**— Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

OPTICS

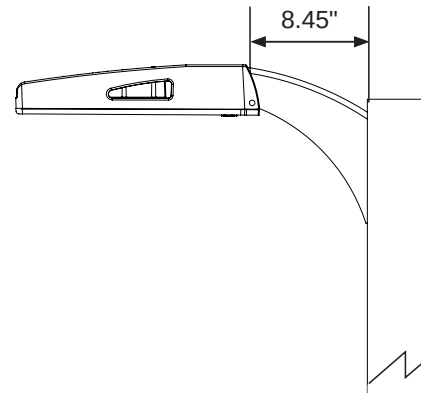
Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

- IES Types

**TYPE II (T2)****TYPE III (T3)****TYPE IV (T4)****TYPE V (T5)****NEMA 3 (N3)**

MOUNTING OPTIONS**ARCHITECTURAL SWEEP ARM (ASA)**

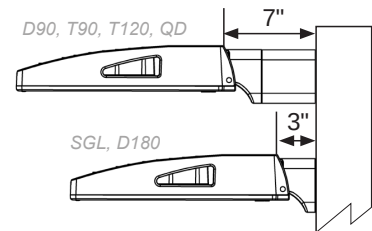
Cast Sweep Arm includes (as standard)
Internal Quick Mount Bracket.

**DIRECT POLE (DP)**

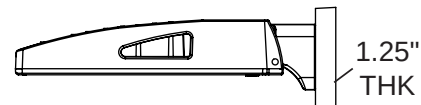
Standard mounting arm is extruded
aluminum in lengths of 3" and 7".
**Arm lengths may vary depending on configuration*

DPX ARM LENGTH

DPX ARM LENGTH	SGL	D90	D180	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"	7"

**WALL MOUNT (WM)**

Cast Aluminum Plate for direct wall
mount. 3" extruded aluminum arm
mounts directly to a cast wall mount box.

**EPA**

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP3	0.46		0.92			
NV-1-DP7		1.14	1.05	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-ASA	0.75	1.29	1.50	1.99	2.05	1.99

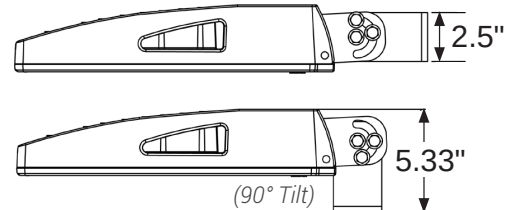
**MOUNTING
CONFIGURATION**

MOUNTING OPTIONS

TRUNNION MOUNT (TM)

Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

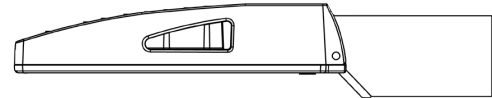
**Unpainted stainless steel is standard*



TENNIS ARM (TA)

Steel fitter slips over 3.5" x 1.5" rectangular arm.

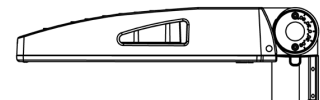
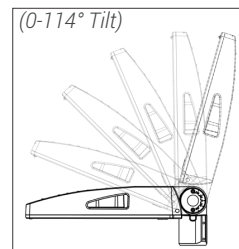
**See Tennis Arm Spec Sheet for details*



KNUCKLE MOUNT (KM)

Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Up-tilt of 90 degrees
- Adjustable in 6 degree increments
- 1.5G Vibration Rated per ANSI C136.31-2010



BIRD SPIKES (BS)

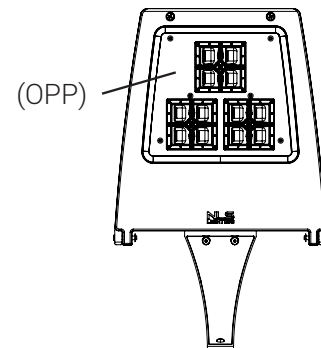
Bird Spikes offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.

MARINE GRADE FINISH (MGF)

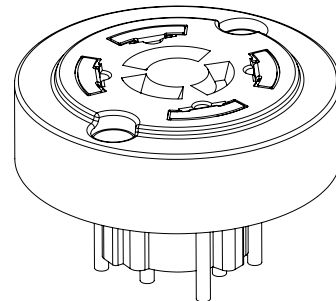
The **(MGF)** is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.

**OPTIC PLATE PAINTED TO MATCH (OPP)**

Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.

**NEMA 7-PIN RECEPTACLE (PE7)**

An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.



Job Name:

Low Country Pickleball Club - DESIGN
 Architect: Court Atkins Group (Bluffton)
 Electrical Engineer: Sustainable Design
 Consultants (Savannah)

ATTACHMENT 4**Product Number:**

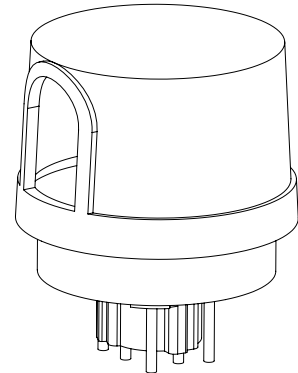
NV-1-T4-32L-7-(CCT)-(VOLTAGE)-
 (MOUNT)-(COLOR)-HSS

Notes:**Type:****SB**

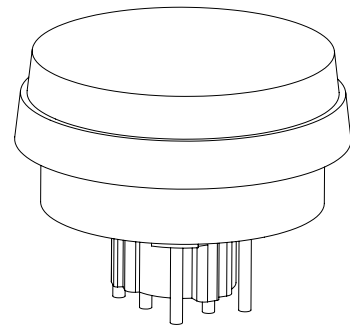
NEXTGEN SOUTH23-56764

PHOTOCELL + RECEPTACLE (PCR)

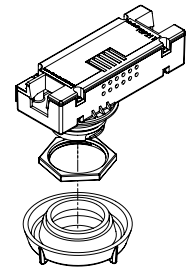
7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.

**RECEPTACLE + SHORTING CAP (PER)**

7-Pin Receptacle and Shorting Cap.

**FSP-211 WITH MOTION SENSOR (FSP-XX)**

- FSP-211 (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-20 mounting heights 9-20 feet
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-211**QUICK MOUNT BRACKET (QMB)**

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.

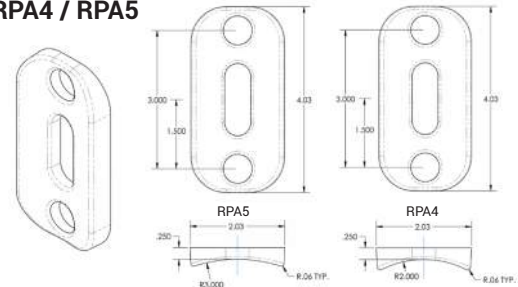
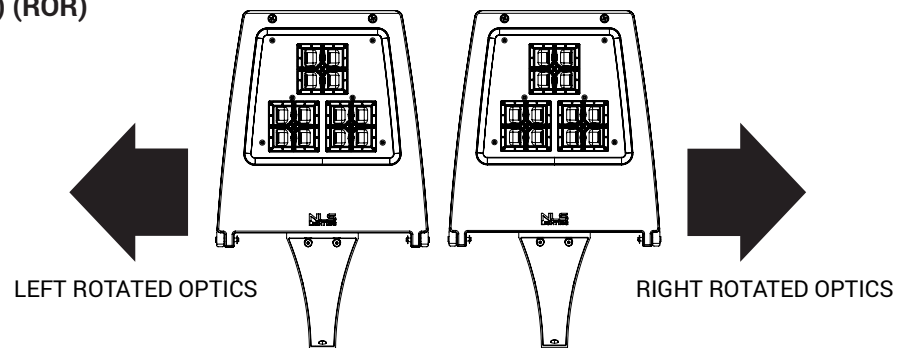


RETROFIT MOUNT BRACKET (RQMB)

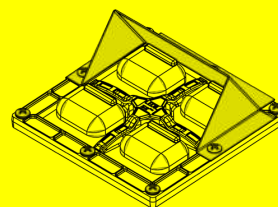
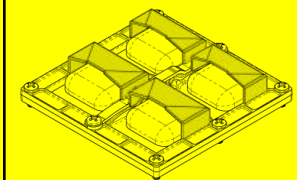
Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".

**ROUND POLE ADAPTER OPTIONS (RPA4) (RPA5)**

When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

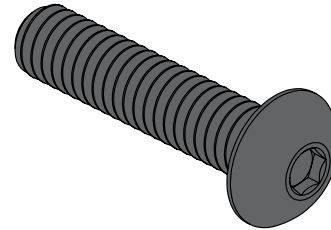
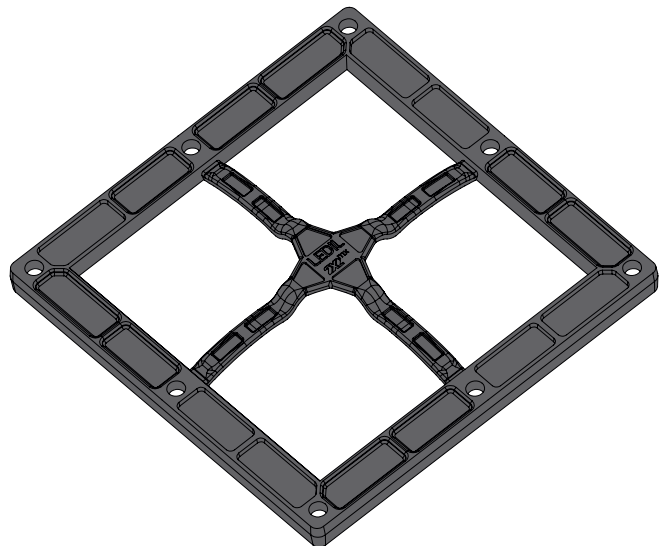
RPA4 / RPA5**ROTATED OPTICS (ROL) (ROR)****SHIELDING OPTIONS (AHS) (HSS)**

SHIELDS (HSS, AHS)—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.

**AUTOMOTIVE
HOUSE SIDE SHIELD****HOUSE SIDE SHIELD**

Job Name:Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)**ATTACHMENT 4****Part Number:**NV-1-T4-32L-7-(CCT)-(VOLTAGE)-
(MOUNT)-(COLOR)-HSS**Notes:****Type:****SB**

NEXTGEN SOUTH23-56764

BLACK HARDWAREOptional black, zinc coated steel
hardware.**BLACK OPTIC FRAME**Optional Black Optic Frame.
Standard is white.

Job Name:Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)NV-1-T4-32L-7-(CCT)-(VOLTAGE)-
(MOUNT)-(COLOR)-HSS

Notes:

SB

NEXTGEN SOUTH23-56764

LUMENS

PART NUMBER	N3	LM/W	T2	LM/W	DLC	T3	LM/W	DLC	T3 HSS	LM/W	T4	LM/W	DLC	T4 AHS	LM/W	T4 HSS	LM/W	T5	LM/W	DLC	W
NV-1-16L-35-30K7	2016	112	2106	117	P	2106	117	P	1134	63	2187	116	P	1296	72	1116	62	2231	118	P	18
NV-1-16L-35-40K7	2088	116	2268	126	P	2286	127	P	1206	67	2250	125	P	1368	76	1188	66	2304	128	P	18
NV-1-16L-35-50K7	2160	120	2376	132	P	2394	133	P	1278	71	2358	131	P	1440	80	1260	70	2412	134	P	18
NV-1-16L-53-30K7	3136	112	3192	114	P	3220	115	P	1764	63	3119	113	P	2016	72	1736	62	3248	116	P	28
NV-1-16L-53-40K7	3248	116	3472	124	P	3472	124	P	1876	67	3444	123	P	2128	76	1848	66	3500	125	P	28
NV-1-16L-53-50K7	3360	120	3612	129	P	3640	130	P	1988	71	3584	128	P	2240	80	1960	70	3668	131	P	28
NV-1-16L-7-30K7	4032	112	3960	110	P	3960	110	P	2268	63	3973	109	P	2592	72	2232	62	3996	111	P	36
NV-1-16L-7-40K7	4176	116	4428	123	P	4284	119	P	2412	67	4212	117	P	2736	76	2376	66	4320	120	P	36
NV-1-16L-7-50K7	4320	120	4644	129	P	4500	125	P	2556	71	4428	123	P	2880	80	2520	70	4500	125	P	36
NV-1-16L-1-30K7	6272	112	6160	110	S	6384	114	P	3528	63	6232	112	P	4032	72	3472	62	6440	115	P	56
NV-1-16L-1-40K7	6496	116	6832	122	P	6888	123	P	3752	67	6776	121	P	4256	76	3696	66	6944	124	P	56
NV-1-16L-1-50K7	6720	120	7168	128	P	7224	129	P	3976	71	7112	127	P	4480	80	3920	70	7280	130	P	56
NV-1-32L-7-30K7	7952	112	7810	110	S	7810	110	S	4473	63	7739	109	S	5112	72	4402	62	7881	111	S	71
NV-1-32L-7-40K7	8236	116	9017	127	P	8449	119	P	4757	67	8307	117	P	5396	76	4686	66	8520	120	P	71
NV-1-32L-7-50K7	8520	120	9159	129	P	8875	125	P	5041	71	8733	123	P	5680	80	4970	70	8946	126	P	71
NV-1-32L-1-30K7	11872	112	11660	110	S	12084	114	S	6678	63	11820	112	S	7632	72	6572	62	12190	115	S	106
NV-1-32L-1-40K7	12296	116	12932	122	P	13038	123	P	7102	67	12826	121	P	8056	76	6996	66	13144	124	P	106
NV-1-32L-1-50K7	12720	120	13568	128	P	13674	129	P	7526	71	13462	127	P	8480	80	7420	70	13780	130	P	106
NV-1-48L-7-30K7	11648	112	11440	110	S	11440	110	S	6552	63	11336	109	S	7488	72	6448	62	11544	111	S	104
NV-1-48L-7-40K7	12064	116	13208	127	P	12376	119	P	6968	67	12168	117	P	7904	76	6864	66	12480	120	P	104
NV-1-48L-7-50K7	12480	120	13520	130	P	13000	125	P	7384	71	12792	123	P	8320	80	7280	70	13104	126	P	104
NV-1-48L-1-30K7	17472	112	17160	110	S	17784	114	S	9828	63	17472	112	S	11232	72	9672	62	17940	115	S	156
NV-1-48L-1-40K7	18096	116	19032	122	P	19188	123	P	10452	67	18876	121	P	11856	76	10296	66	19344	124	P	156
NV-1-48L-1-50K7	18720	120	19968	128	P	20124	129	P	11076	71	19812	127	P	12480	80	10920	70	20280	130	P	156
NV-1-64L-7-30K7	15232	112	14960	110	S	14960	110	S	8568	63	14824	109	S	9792	72	8432	62	15096	111	S	136
NV-1-64L-7-40K7	15776	116	17272	127	P	16184	119	P	9112	67	15912	117	P	10336	76	8976	66	16320	120	P	136
NV-1-64L-7-50K7	16320	120	17680	130	P	17000	125	P	9656	71	16728	123	P	10880	80	9520	70	17136	126	P	136
NV-1-64L-1-30K7	22960	112	22550	110	S	23370	114	S	12915	63	22960	112	S	14760	72	12710	62	23575	115	S	205
NV-1-64L-1-40K7	23780	116	25010	122	P	25215	123	P	13735	67	24805	121	P	15580	76	13530	66	25420	124	P	205
NV-1-64L-1-50K7	24600	120	26240	128	P	26445	129	P	14555	71	26035	127	P	16400	80	14350	70	26650	130	P	205

3000k or warmer must be selected to meet International Dark-Sky Association certification.

BUG RATINGS

PART NUMBER	T2	T3	T3 HSS	T4	T4 HSS	T5
NV-1-16L-35-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G2
NV-1-16L-53-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-7-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-40K7	B1-U0-G1	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-16L-1-50K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-30K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-40K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-7-50K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-1-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B0-U0-G2	B4-U0-G2
NV-1-48L-7-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-48L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-48L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-64L-7-30K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-40K7	B3-U0-G3	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G3	B5-U0-G3
NV-1-64L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3
NV-1-64L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3

Lumen Maintenance Data

Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			

NLS
 LIGHTING

NV-1

AREA, SITE & ROADWAY

FORM AND FUNCTION

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
 - Parking Lots
 - Auto Dealerships
 - General Area Lighting

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

FINISH

- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion, protects against extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

**LED WATTAGE CHART**

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV-1 (NV-1)	Type 2 (T2)	16 (16L)	350 (35)	2700K, 70 CRI (27K7) ①	120-277 (UNV)	Architectural Sweep Arm (ASA)	Bronze Textured (BRZ)	Bird Spikes (BS) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP)
	Type 3 (T3)	32 (32L)	530 (53)	2700K, 80 CRI (27K8) ① ②	347-480 (HV)	Direct Pole 3" Arm Single, D180 (DPS3) ③	White Textured (WHT)	Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER)
	Type 4 (T4)	48 (48L)	700 (7)	3000K, 70 CRI (30K7) ③		Direct Pole 7" Arm D180, D90, T90, T120, Quad (DPS7) ③	Smooth White Gloss (SWT)	FSP-211 with Motion Sensor (FSP-20) ④ 9'-20" Heights (FSP-40) ④ 21'-40" Heights
	Type 5 (T5)	64 (64L)	1050 (1)	3000K, 80 CRI (30K8) ① ③		Knuckle Mount (KM)	Silver (SVR)	Quick Mount Bracket (QMB) Retrofit Mount Bracket (RQMB)
	Nema 2 24" Narrow Beam (N2)			3500K, 80 CRI (35K8)		Wall Mount (WM)	Black Textured (BLK)	Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5)
	Nema 3 30" Narrow Beam (N3)			4000K, 70 CRI (40K7)		Trunnion Mount (TM) ⑤	Smooth Black Gloss (SBK)	Rotated Optic Left (ROL) Rotated Optic Right (ROR) Automotive House Side Shield (AHS) House Side Shield (HSS) ⑥
				4000K, 80 CRI (40K8) ①		Tennis Arm (TA)	Graphite Textured (GPH)	Black Hardware (BH) Black Optic Frame (BOF)
				5000K, 70 CRI (50K7)		Mast Arm (MA)	Grey Textured (GRY)	
				5000K, 80 CRI (50K8) ①			Custom (CS)	

Notes:

- ① Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- ② For Round Pole Specify RPA4 or RPA5
- ③ Standard finish is stainless steel. Can be painted to match fixture
- ④ Universal Voltage 120-277
- ⑤ HSS not applicable with Nema 2 and Nema 3 Optics
- ⑥ 3000K or lower must be selected to meet International Dark-Sky Association certification.

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP65 compartment
- CRI 70, 80 or 90
- Color temperatures: 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KVA supplied as standard.

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

OPTIONS

- BIRD SPIKES (BS) - Offers a practical and humane deterrent for larger bird species and provides a cost-effective long-term solution to nuisance bird infestations and protects your property.
- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- OPTIC PLATE PAINTED TO MATCH FIXTURE (OPP) - Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.
- QUICK MOUNT BRACKET (QMB) - Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.
- RETROFIT MOUNT BRACKET - Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".
- ROUND POLE ADAPTER (RPA) - When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.
- ROTATED OPTICS (ROL) (ROR) - Rotated optics are designed for perimeter lighting for auto dealerships.
- SHIELDS (HSS, AHS) - House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- BLACK HARDWARE (BH) - Optional black, zinc coated steel hardware.
- BLACK OPTIC FRAME (BOF) - Optional black optic frame. Standard is white.

CONTROL OPTIONS

- FSP-211 (FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-20 mounting heights 9-20 feet
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
- FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostics: Please contact factory for your preferred controls option.
- NEMA 7-PIN RECEPTACLE (PE7) - An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCCELL + RECEPTACLE (PCR) - 7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER) - 7-Pin Receptacle and Shorting Cap.

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

OPTICS

Silicone optics high thermal stability and light output provide higher powered LEDs with minimized lumen depreciation. UV stability with scratch resistance increases exterior application durability. Silicone optics do not yellow, crack or brittle over time

LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010
- IDA Dark Sky Approved
- IK10 Rated



The information and specifications on this document are subject to change without any notification. All values are design, nominal, typical or prorated values when measured under internal and external laboratory conditions.

NLS
 LIGHTING

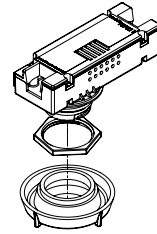
 701 Kingshill Place, Carson, CA 90746
 Call Us Today (310) 341-2037

nlsighting.com

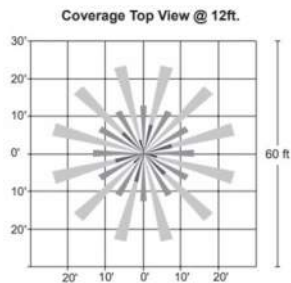
PRODUCT SPECIFICATIONS

CONTROLS

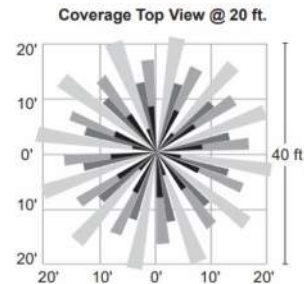
- **DIMMING CONTROL (FSP)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-8 mounting heights 8 feet and below
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.



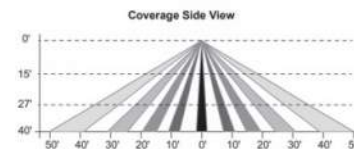
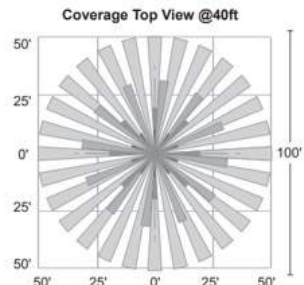
FSP-8

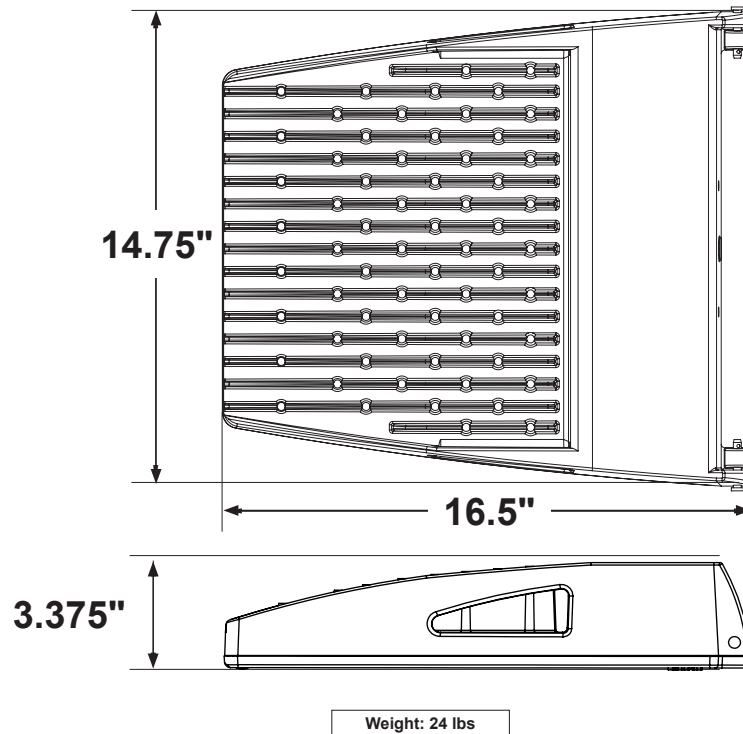


FSP-20



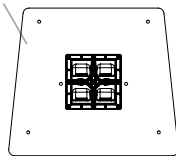
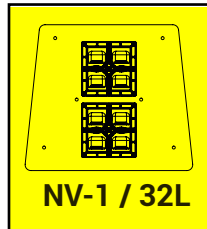
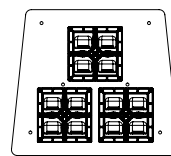
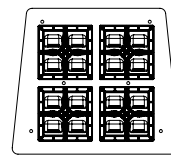
FSP-40



PRODUCT SPECIFICATIONS**OPTICAL CONFIGURATIONS**

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

(OPP)

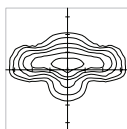
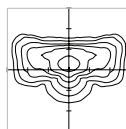
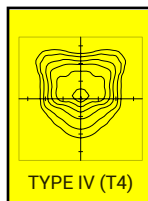
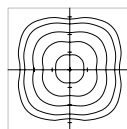
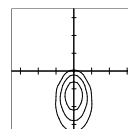
**NV-1 / 16L****NV-1 / 32L****NV-1 / 48L****NV-1 / 64L**

* **OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)**— Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

OPTICS

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

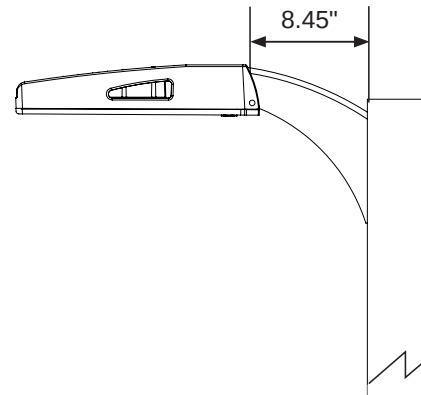
- IES Types

**TYPE II (T2)****TYPE III (T3)****TYPE IV (T4)****TYPE V (T5)****NEMA 3 (N3)**

MOUNTING OPTIONS

ARCHITECTURAL SWEEP ARM (ASA)

Cast Sweep Arm includes (as standard)
Internal Quick Mount Bracket.



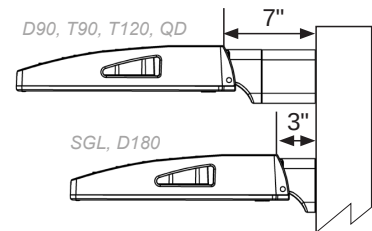
DIRECT POLE (DP)

Standard mounting arm is extruded
aluminum in lengths of 3" and 7".

**Arm lengths may vary depending on configuration*

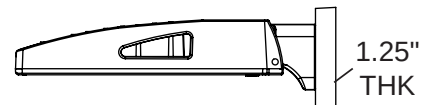
DPX ARM LENGTH

DPX ARM LENGTH	SGL	D90	D180	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"	7"



WALL MOUNT (WM)

Cast Aluminum Plate for direct wall
mount. 3" extruded aluminum arm
mounts directly to a cast wall mount box.



EPA

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP3	0.46		0.92			
NV-1-DP7		1.14	1.05	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-ASA	0.75	1.29	1.50	1.99	2.05	1.99

MOUNTING CONFIGURATION

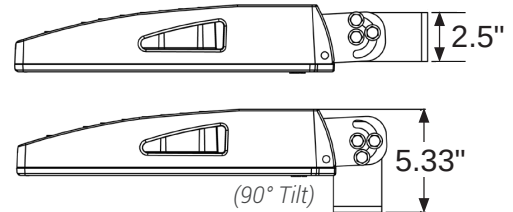


MOUNTING OPTIONS

TRUNNION MOUNT (TM)

Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

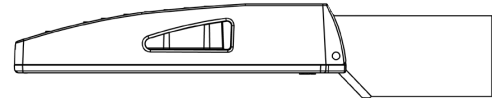
**Unpainted stainless steel is standard*



TENNIS ARM (TA)

Steel fitter slips over 3.5" x 1.5" rectangular arm.

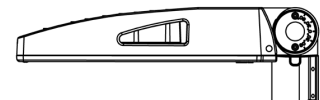
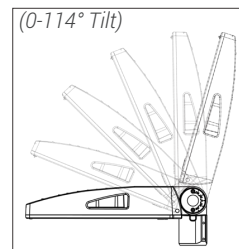
**See Tennis Arm Spec Sheet for details*



KNUCKLE MOUNT (KM)

Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Up-tilt of 90 degrees
- Adjustable in 6 degree increments
- 1.5G Vibration Rated per ANSI C136.31-2010

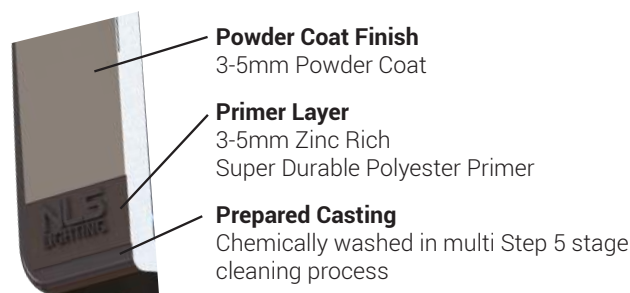


BIRD SPIKES (BS)

Bird Spikes offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.

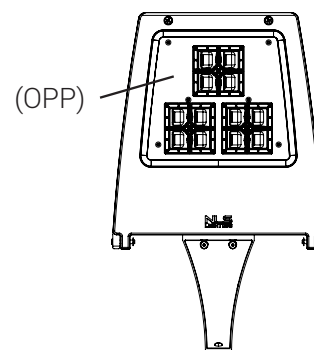
MARINE GRADE FINISH (MGF)

The **(MGF)** is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.



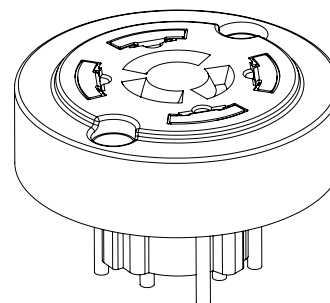
OPTIC PLATE PAINTED TO MATCH (OPP)

Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.



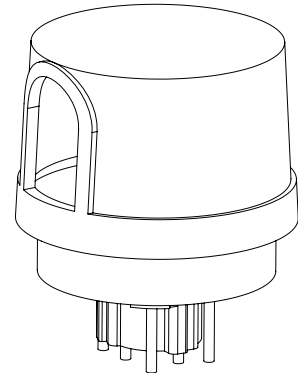
NEMA 7-PIN RECEPTACLE (PE7)

An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

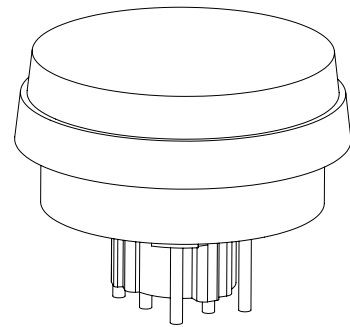


PHOTOCELL + RECEPTACLE (PCR)

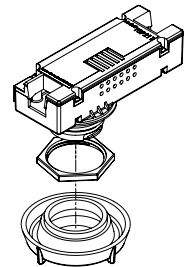
7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.

**RECEPTACLE + SHORTING CAP (PER)**

7-Pin Receptacle and Shorting Cap.

**FSP-211 WITH MOTION SENSOR (FSP-XX)**

- FSP-211 (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-20 mounting heights 9-20 feet
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-211**QUICK MOUNT BRACKET (QMB)**

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.



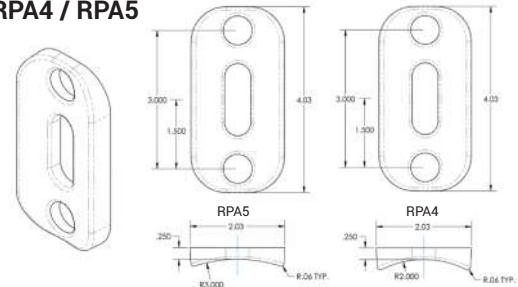
RETROFIT MOUNT BRACKET (RQMB)

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".

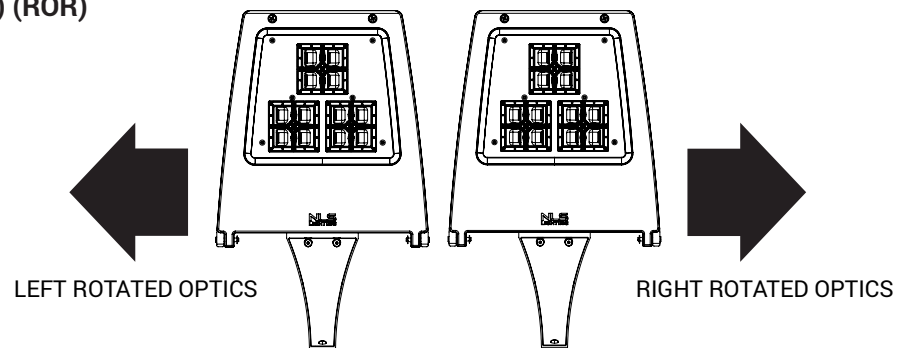


ROUND POLE ADAPTER OPTIONS (RPA4) (RPA5)

When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

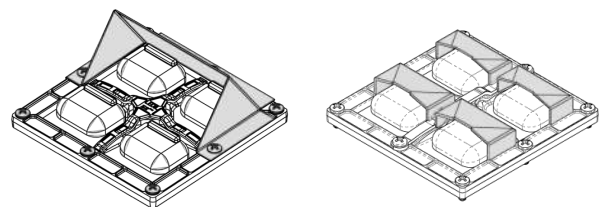
RPA4 / RPA5

ROTATED OPTICS (ROL) (ROR)



SHIELDING OPTIONS (AHS) (HSS)

SHIELDS (HSS, AHS)—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.

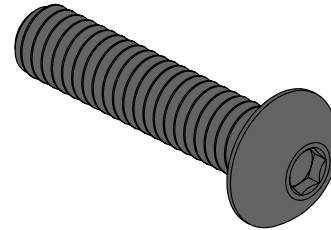
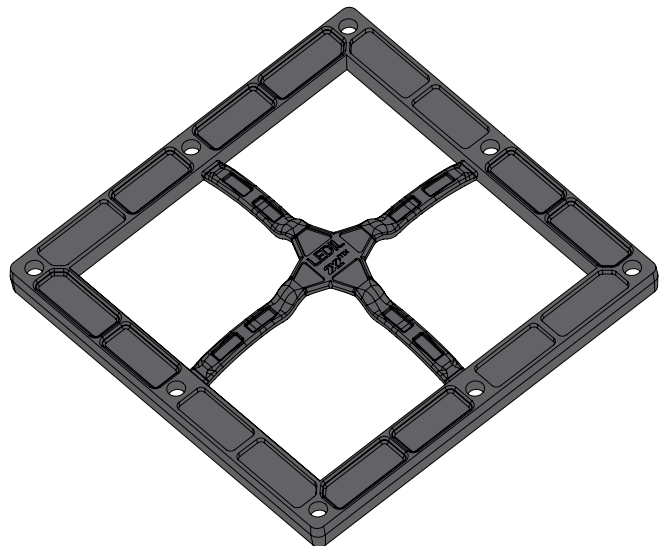
**AUTOMOTIVE
HOUSE SIDE SHIELD****HOUSE SIDE SHIELD**

Job Name:Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)**ATTACHMENT 1****Part Number:**NV-1-T4-32L-1-(CCT)-(VOLTAGE)-
(MOUNT)-(COLOR)

Notes:

Type:**SC**

NEXTGEN SOUTH23-56764

BLACK HARDWAREOptional black, zinc coated steel
hardware.**BLACK OPTIC FRAME**Optional Black Optic Frame.
Standard is white.

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

Attachment Number:

NV-1-T4-32L-1-(CCT)-(VOLTAGE)-
(MOUNT)-(COLOR)

Notes:**Type:****SC**

NEXTGEN SOUTH23-56764

LUMENS

PART NUMBER	N3	LM/W	T2	LM/W	DLC	T3	LM/W	DLC	T3 HSS	LM/W	T4	LM/W	DLC	T4 AHS	LM/W	T4 HSS	LM/W	T5	LM/W	DLC	W
NV-1-16L-35-30K7	2016	112	2106	117	P	2106	117	P	1134	63	2187	116	P	1296	72	1116	62	2231	118	P	18
NV-1-16L-35-40K7	2088	116	2268	126	P	2286	127	P	1206	67	2250	125	P	1368	76	1188	66	2304	128	P	18
NV-1-16L-35-50K7	2160	120	2376	132	P	2394	133	P	1278	71	2358	131	P	1440	80	1260	70	2412	134	P	18
NV-1-16L-53-30K7	3136	112	3192	114	P	3220	115	P	1764	63	3119	113	P	2016	72	1736	62	3248	116	P	28
NV-1-16L-53-40K7	3248	116	3472	124	P	3472	124	P	1876	67	3444	123	P	2128	76	1848	66	3500	125	P	28
NV-1-16L-53-50K7	3360	120	3612	129	P	3640	130	P	1988	71	3584	128	P	2240	80	1960	70	3668	131	P	28
NV-1-16L-7-30K7	4032	112	3960	110	P	3960	110	P	2268	63	3973	109	P	2592	72	2232	62	3996	111	P	36
NV-1-16L-7-40K7	4176	116	4428	123	P	4284	119	P	2412	67	4212	117	P	2736	76	2376	66	4320	120	P	36
NV-1-16L-7-50K7	4320	120	4644	129	P	4500	125	P	2556	71	4428	123	P	2880	80	2520	70	4500	125	P	36
NV-1-16L-1-30K7	6272	112	6160	110	S	6384	114	P	3528	63	6232	112	P	4032	72	3472	62	6440	115	P	56
NV-1-16L-1-40K7	6496	116	6832	122	P	6888	123	P	3752	67	6776	121	P	4256	76	3696	66	6944	124	P	56
NV-1-16L-1-50K7	6720	120	7168	128	P	7224	129	P	3976	71	7112	127	P	4480	80	3920	70	7280	130	P	56
NV-1-32L-7-30K7	7952	112	7810	110	S	7810	110	S	4473	63	7739	109	S	5112	72	4402	62	7881	111	S	71
NV-1-32L-7-40K7	8236	116	9017	127	P	8449	119	P	4757	67	8307	117	P	5396	76	4686	66	8520	120	P	71
NV-1-32L-7-50K7	8520	120	9159	129	P	8875	125	P	5041	71	8733	123	P	5680	80	4970	70	8946	126	P	71
NV-1-32L-1-30K7	11872	112	11660	110	S	12084	114	S	6678	63	11820	112	S	7632	72	6572	62	12190	115	S	106
NV-1-32L-1-40K7	12296	116	12932	122	P	13038	123	P	7102	67	12826	121	P	8056	76	6996	66	13144	124	P	106
NV-1-32L-1-50K7	12720	120	13568	128	P	13674	129	P	7526	71	13462	127	P	8480	80	7420	70	13780	130	P	106
NV-1-48L-7-30K7	11648	112	11440	110	S	11440	110	S	6552	63	11336	109	S	7488	72	6448	62	11544	111	S	104
NV-1-48L-7-40K7	12064	116	13208	127	P	12376	119	P	6968	67	12168	117	P	7904	76	6864	66	12480	120	P	104
NV-1-48L-7-50K7	12480	120	13520	130	P	13000	125	P	7384	71	12792	123	P	8320	80	7280	70	13104	126	P	104
NV-1-48L-1-30K7	17472	112	17160	110	S	17784	114	S	9828	63	17472	112	S	11232	72	9672	62	17940	115	S	156
NV-1-48L-1-40K7	18096	116	19032	122	P	19188	123	P	10452	67	18876	121	P	11856	76	10296	66	19344	124	P	156
NV-1-48L-1-50K7	18720	120	19968	128	P	20124	129	P	11076	71	19812	127	P	12480	80	10920	70	20280	130	P	156
NV-1-64L-7-30K7	15232	112	14960	110	S	14960	110	S	8568	63	14824	109	S	9792	72	8432	62	15096	111	S	136
NV-1-64L-7-40K7	15776	116	17272	127	P	16184	119	P	9112	67	15912	117	P	10336	76	8976	66	16320	120	P	136
NV-1-64L-7-50K7	16320	120	17680	130	P	17000	125	P	9656	71	16728	123	P	10880	80	9520	70	17136	126	P	136
NV-1-64L-1-30K7	22960	112	22550	110	S	23370	114	S	12915	63	22960	112	S	14760	72	12710	62	23575	115	S	205
NV-1-64L-1-40K7	23780	116	25010	122	P	25215	123	P	13735	67	24805	121	P	15580	76	13530	66	25420	124	P	205
NV-1-64L-1-50K7	24600	120	26240	128	P	26445	129	P	14555	71	26035	127	P	16400	80	14350	70	26650	130	P	205

3000k or warmer must be selected to meet International Dark-Sky Association certification.

BUG RATINGS

PART NUMBER	T2	T3	T3 HSS	T4	T4 HSS	T5
NV-1-16L-35-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G2
NV-1-16L-53-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-7-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-40K7	B1-U0-G1	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-16L-1-50K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-30K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-40K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-7-50K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-1-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B0-U0-G2	B4-U0-G2
NV-1-48L-7-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-48L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-48L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-64L-7-30K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-40K7	B3-U0-G3	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G3	B5-U0-G3
NV-1-64L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3
NV-1-64L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3

Lumen Maintenance Data

Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			

NLS
 LIGHTING

NV-1

AREA, SITE & ROADWAY

FORM AND FUNCTION

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
 - Parking Lots
 - Auto Dealerships
 - General Area Lighting

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

FINISH

- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion, protects against extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

**LED WATTAGE CHART**

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV-1 (NV-1)	Type 2 (T2)	16 (16L)	350 (35)	2700K, 70 CRI (27K7) ①	120-277 (UNV)	Architectural Sweep Arm (ASA)	Bronze Textured (BRZ)	Bird Spikes (BS) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP)
	Type 3 (T3)	32 (32L)	530 (53)	2700K, 80 CRI (27K8) ① ②	347-480 (HV)	Direct Pole 3" Arm Single, D180 (DPS3) ③	White Textured (WHT)	Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER) FSP-211 with Motion Sensor
	Type 4 (T4)	48 (48L)	700 (7)	3000K, 70 CRI (30K7) ③		Direct Pole 7" Arm D180, D90, T90, T120, Quad (DPS7) ③	Smooth White Gloss (SWT)	(FSP-20) ④ 9'-20" Heights (FSP-40) ④ 21'-40" Heights Quick Mount Bracket (QMB) Retrofit Mount Bracket (RQMB)
	Type 5 (T5)	64 (64L)	1050 (1)	3000K, 80 CRI (30K8) ① ③		Knuckle Mount (KM)	Silver (SVR)	Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5)
	Nema 2 24" Narrow Beam (N2)			3500K, 80 CRI (35K8)		Wall Mount (WM)	Black Textured (BLK)	Rotated Optic Left (ROL) Rotated Optic Right (ROR) Automotive House Side Shield (AHS)
	Nema 3 30" Narrow Beam (N3)			4000K, 70 CRI (40K7)		Trunnion Mount (TM) ⑤	Smooth Black Gloss (SBK)	House Side Shield (HSS) ⑥ Black Hardware (BH) Black Optic Frame (BOF)
				4000K, 80 CRI (40K8) ①		Tennis Arm (TA)	Graphite Textured (GPH)	
				5000K, 70 CRI (50K7)		Mast Arm (MA)	Grey Textured (GRY)	
				5000K, 80 CRI (50K8) ①			Custom (CS)	

Notes:

- ① Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- ② For Round Pole Specify RPA4 or RPA5
- ③ Standard finish is stainless steel. Can be painted to match fixture
- ④ Universal Voltage 120-277
- ⑤ HSS not applicable with Nema 2 and Nema 3 Optics
- ⑥ 3000K or lower must be selected to meet International Dark-Sky Association certification.

PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP65 compartment
- CRI 70, 80 or 90
- Color temperatures: 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KVA supplied as standard.

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

OPTIONS

- BIRD SPIKES (BS) - Offers a practical and humane deterrent for larger bird species and provides a cost-effective long-term solution to nuisance bird infestations and protects your property.
- MARINE GRADE FINISH (MGF) - A multi-step process creating protective finishing coat against harsh environments. Chemically washed in a 5 stage cleaning system. Pre-baked, Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- OPTIC PLATE PAINTED TO MATCH FIXTURE (OPP) - Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.
- QUICK MOUNT BRACKET (QMB) - Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.
- RETROFIT MOUNT BRACKET - Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".
- ROUND POLE ADAPTER (RPA) - When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.
- ROTATED OPTICS (ROL) (ROR) - Rotated optics are designed for perimeter lighting for auto dealerships.
- SHIELDS (HSS, AHS) - House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- BLACK HARDWARE (BH) - Optional black, zinc coated steel hardware.
- BLACK OPTIC FRAME (BOF) - Optional black optic frame. Standard is white.

CONTROL OPTIONS

- FSP-211 (FSP-X) - Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-20 mounting heights 9-20 feet
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
- FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- Controls Agnostics: Please contact factory for your preferred controls option.
- NEMA 7-PIN RECEPTACLE (PE7) - An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCCELL + RECEPTACLE (PCR) - 7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER) - 7-Pin Receptacle and Shorting Cap.

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

OPTICS

Silicone optics high thermal stability and light output provide higher powered LEDs with minimized lumen depreciation. UV stability with scratch resistance increases exterior application durability. Silicone optics do not yellow, crack or brittle over time

LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010
- IDA Dark Sky Approved
- IK10 Rated



The information and specifications on this document are subject to change without any notification. All values are design, nominal, typical or prorated values when measured under internal and external laboratory conditions.

NLS
 LIGHTING

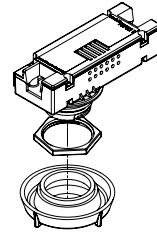
 701 Kingshill Place, Carson, CA 90746
 Call Us Today (310) 341-2037

nlsighting.com

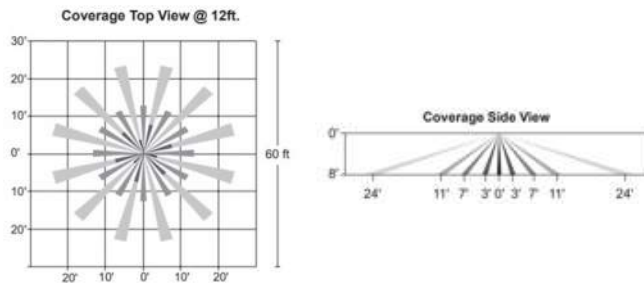
PRODUCT SPECIFICATIONS

CONTROLS

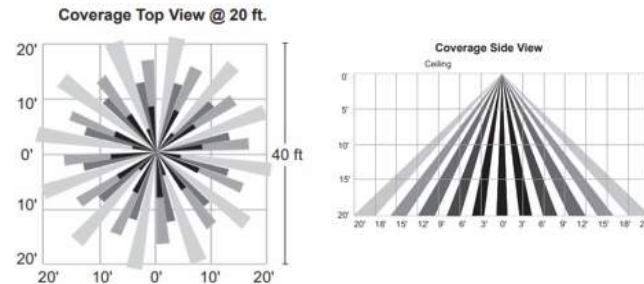
- **DIMMING CONTROL (FSP)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-8 mounting heights 8 feet and below
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.



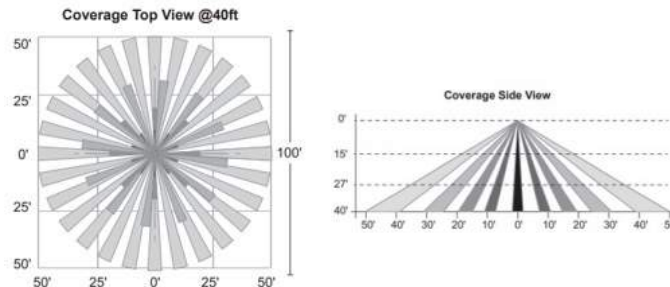
FSP-8

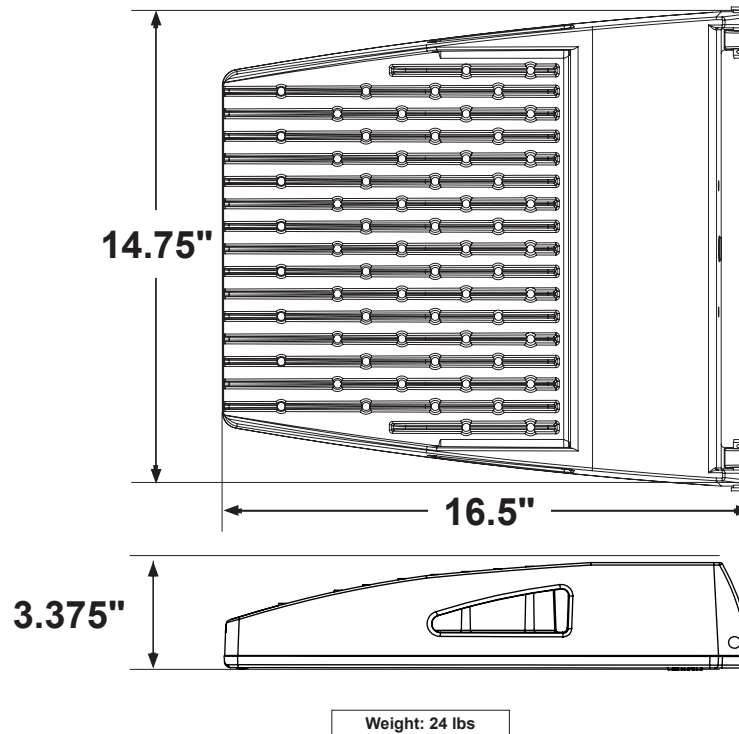


FSP-20



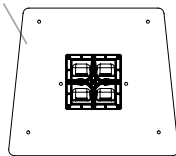
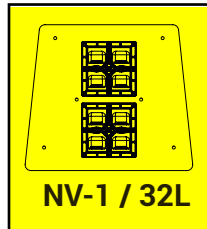
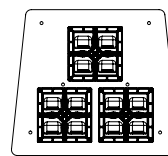
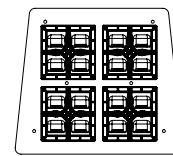
FSP-40



PRODUCT SPECIFICATIONS**OPTICAL CONFIGURATIONS**

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

(OPP)

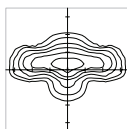
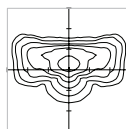
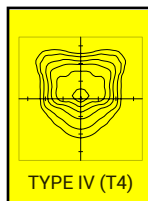
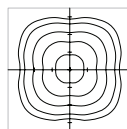
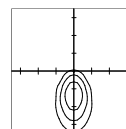
**NV-1 / 16L****NV-1 / 32L****NV-1 / 48L****NV-1 / 64L**

* **OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)**– Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

OPTICS

Silicone optics high photothermal stability and light output provides higher powered LEDs with minimized lumen depreciation LED life. UV and thermal stability with scratch resistance increases exterior application durability.

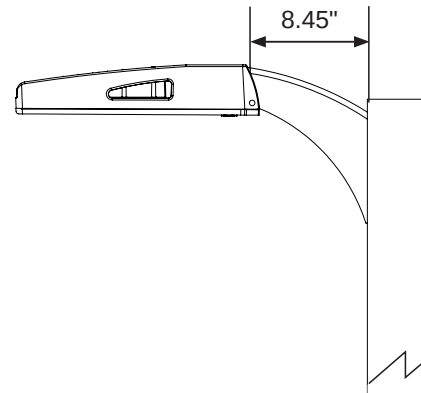
- IES Types

**TYPE II (T2)****TYPE III (T3)****TYPE IV (T4)****TYPE V (T5)****NEMA 3 (N3)**

MOUNTING OPTIONS

ARCHITECTURAL SWEEP ARM (ASA)

Cast Sweep Arm includes (as standard)
Internal Quick Mount Bracket.

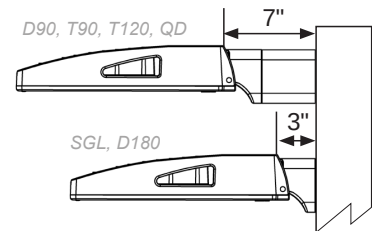


DIRECT POLE (DP)

Standard mounting arm is extruded
aluminum in lengths of 3" and 7".
**Arm lengths may vary depending on configuration*

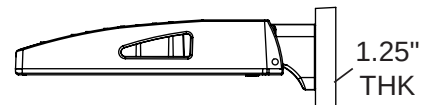
DPX ARM LENGTH

DPX ARM LENGTH	SGL	D90	D180	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"	7"



WALL MOUNT (WM)

Cast Aluminum Plate for direct wall
mount. 3" extruded aluminum arm
mounts directly to a cast wall mount box.



EPA

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP3	0.46		0.92			
NV-1-DP7		1.14	1.05	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-ASA	0.75	1.29	1.50	1.99	2.05	1.99

MOUNTING CONFIGURATION

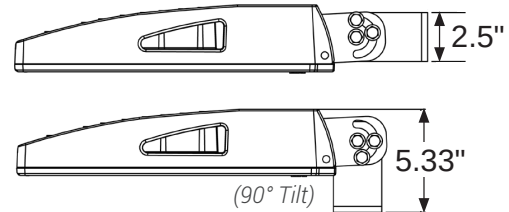


MOUNTING OPTIONS

TRUNNION MOUNT (TM)

Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

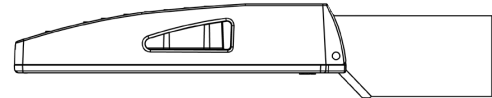
**Unpainted stainless steel is standard*



TENNIS ARM (TA)

Steel fitter slips over 3.5" x 1.5" rectangular arm.

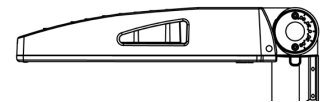
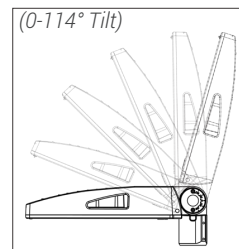
**See Tennis Arm Spec Sheet for details*



KNUCKLE MOUNT (KM)

Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Up-tilt of 90 degrees
- Adjustable in 6 degree increments
- 1.5G Vibration Rated per ANSI C136.31-2010



Job Name:

Low Country Pickleball Club - DESIGN
 Architect: Court Atkins Group (Bluffton)
 Electrical Engineer: Sustainable Design
 Consultants (Savannah)

Attachment Number:

NV-1-T4-32L-1-(CCT)-(VOLTAGE)-
 (MOUNT)-(COLOR)-HSS

Notes:**Type:****SD**

NEXTGEN SOUTH23-56764

BIRD SPIKES (BS)

Bird Spikes offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.

MARINE GRADE FINISH (MGF)

The **(MGF)** is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked. Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.

**Powder Coat Finish**

3-5mm Powder Coat

Primer Layer

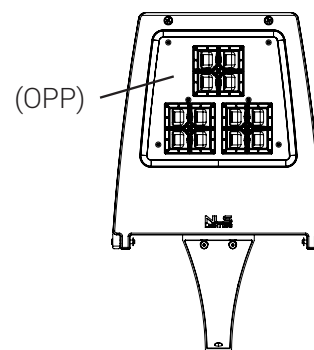
3-5mm Zinc Rich Super Durable Polyester Primer

Prepared Casting

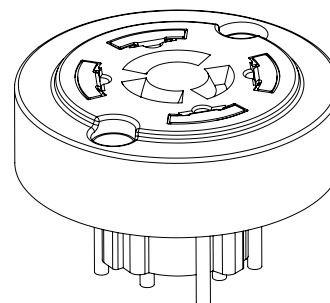
Chemically washed in multi Step 5 stage cleaning process

OPTIC PLATE PAINTED TO MATCH (OPP)

Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.

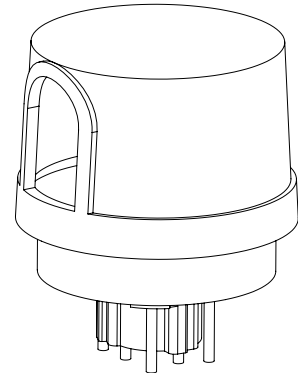
**NEMA 7-PIN RECEPTACLE (PE7)**

An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

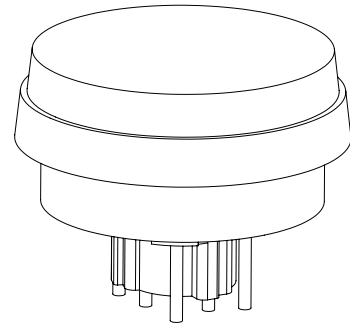


PHOTOCELL + RECEPTACLE (PCR)

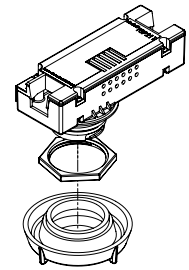
7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.

**RECEPTACLE + SHORTING CAP (PER)**

7-Pin Receptacle and Shorting Cap.

**FSP-211 WITH MOTION SENSOR (FSP-XX)**

- FSP-211 (FSP-X)—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
- All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
- FSP-20 mounting heights 9-20 feet
- FSP-40 mounting heights 21-40 feet.
- Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.

FSP-211**QUICK MOUNT BRACKET (QMB)**

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.



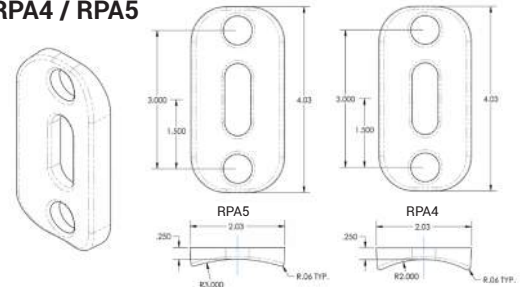
RETROFIT MOUNT BRACKET (RQMB)

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".

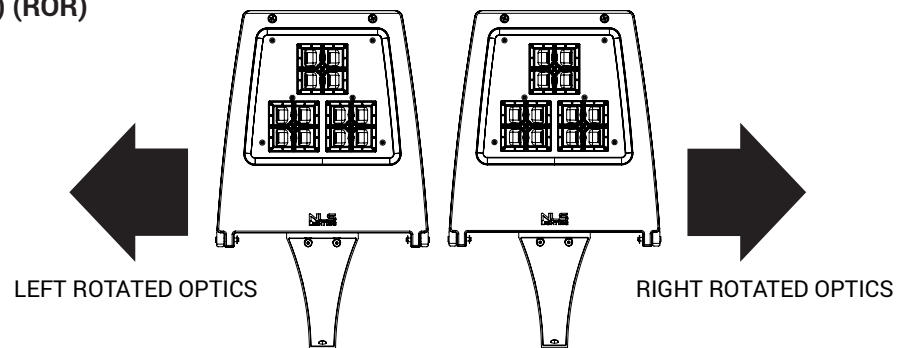


ROUND POLE ADAPTER OPTIONS (RPA4) (RPA5)

When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

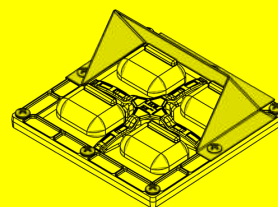
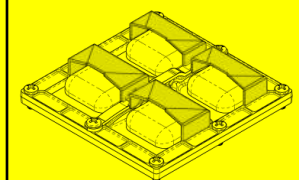
RPA4 / RPA5

ROTATED OPTICS (ROL) (ROR)



SHIELDING OPTIONS (AHS) (HSS)

SHIELDS (HSS, AHS)—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.

**AUTOMOTIVE
HOUSE SIDE SHIELD****HOUSE SIDE SHIELD**

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

ATTACHMENT 4**Part Number:**

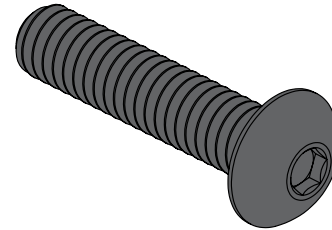
NV-1-T4-32L-1-(CCT)-(VOLTAGE)-
(MOUNT)-(COLOR)-HSS

Notes:**Type:****SD**

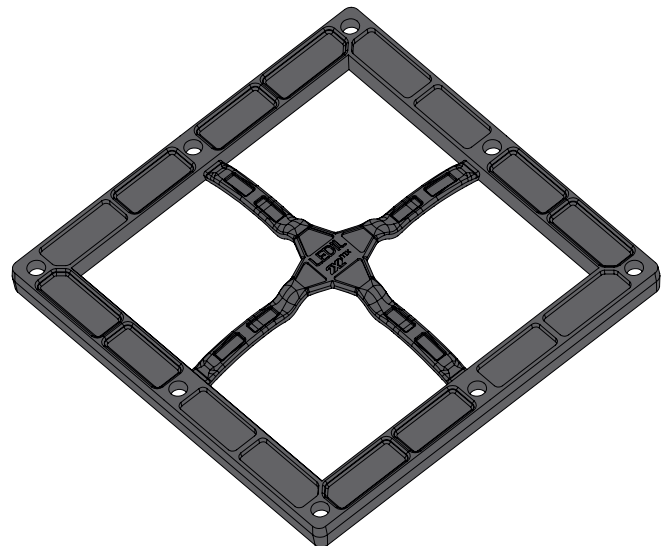
NEXTGEN SOUTH23-56764

BLACK HARDWARE

Optional black, zinc coated steel
hardware.

**BLACK OPTIC FRAME**

Optional Black Optic Frame.
Standard is white.



Job Name:Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

Attachment Number:

NV-1-T4-32L-1-(CCT)-(VOLTAGE)-
(MOUNT)-(COLOR)-HSS

Notes:

Type:

SD

NEXTGEN SOUTH23-56764

LUMENS

PART NUMBER	N3	LM/W	T2	LM/W	DLC	T3	LM/W	DLC	T3 HSS	LM/W	T4	LM/W	DLC	T4 AHS	LM/W	T4 HSS	LM/W	T5	LM/W	DLC	W
NV-1-16L-35-30K7	2016	112	2106	117	P	2106	117	P	1134	63	2187	116	P	1296	72	1116	62	2231	118	P	18
NV-1-16L-35-40K7	2088	116	2268	126	P	2286	127	P	1206	67	2250	125	P	1368	76	1188	66	2304	128	P	18
NV-1-16L-35-50K7	2160	120	2376	132	P	2394	133	P	1278	71	2358	131	P	1440	80	1260	70	2412	134	P	18
NV-1-16L-53-30K7	3136	112	3192	114	P	3220	115	P	1764	63	3119	113	P	2016	72	1736	62	3248	116	P	28
NV-1-16L-53-40K7	3248	116	3472	124	P	3472	124	P	1876	67	3444	123	P	2128	76	1848	66	3500	125	P	28
NV-1-16L-53-50K7	3360	120	3612	129	P	3640	130	P	1988	71	3584	128	P	2240	80	1960	70	3668	131	P	28
NV-1-16L-7-30K7	4032	112	3960	110	P	3960	110	P	2268	63	3973	109	P	2592	72	2232	62	3996	111	P	36
NV-1-16L-7-40K7	4176	116	4428	123	P	4284	119	P	2412	67	4212	117	P	2736	76	2376	66	4320	120	P	36
NV-1-16L-7-50K7	4320	120	4644	129	P	4500	125	P	2556	71	4428	123	P	2880	80	2520	70	4500	125	P	36
NV-1-16L-1-30K7	6272	112	6160	110	S	6384	114	P	3528	63	6232	112	P	4032	72	3472	62	6440	115	P	56
NV-1-16L-1-40K7	6496	116	6832	122	P	6888	123	P	3752	67	6776	121	P	4256	76	3696	66	6944	124	P	56
NV-1-16L-1-50K7	6720	120	7168	128	P	7224	129	P	3976	71	7112	127	P	4480	80	3920	70	7280	130	P	56
NV-1-32L-7-30K7	7952	112	7810	110	S	7810	110	S	4473	63	7739	109	S	5112	72	4402	62	7881	111	S	71
NV-1-32L-7-40K7	8236	116	9017	127	P	8449	119	P	4757	67	8307	117	P	5396	76	4686	66	8520	120	P	71
NV-1-32L-7-50K7	8520	120	9159	129	P	8875	125	P	5041	71	8733	123	P	5680	80	4970	70	8946	126	P	71
NV-1-32L-1-30K7	11872	112	11660	110	S	12084	114	S	6678	63	11820	112	S	7632	72	6572	62	12190	115	S	106
NV-1-32L-1-40K7	12296	116	12932	122	P	13038	123	P	7102	67	12826	121	P	8056	76	6996	66	13144	124	P	106
NV-1-32L-1-50K7	12720	120	13568	128	P	13674	129	P	7526	71	13462	127	P	8480	80	7420	70	13780	130	P	106
NV-1-48L-7-30K7	11648	112	11440	110	S	11440	110	S	6552	63	11336	109	S	7488	72	6448	62	11544	111	S	104
NV-1-48L-7-40K7	12064	116	13208	127	P	12376	119	P	6968	67	12168	117	P	7904	76	6864	66	12480	120	P	104
NV-1-48L-7-50K7	12480	120	13520	130	P	13000	125	P	7384	71	12792	123	P	8320	80	7280	70	13104	126	P	104
NV-1-48L-1-30K7	17472	112	17160	110	S	17784	114	S	9828	63	17472	112	S	11232	72	9672	62	17940	115	S	156
NV-1-48L-1-40K7	18096	116	19032	122	P	19188	123	P	10452	67	18876	121	P	11856	76	10296	66	19344	124	P	156
NV-1-48L-1-50K7	18720	120	19968	128	P	20124	129	P	11076	71	19812	127	P	12480	80	10920	70	20280	130	P	156
NV-1-64L-7-30K7	15232	112	14960	110	S	14960	110	S	8568	63	14824	109	S	9792	72	8432	62	15096	111	S	136
NV-1-64L-7-40K7	15776	116	17272	127	P	16184	119	P	9112	67	15912	117	P	10336	76	8976	66	16320	120	P	136
NV-1-64L-7-50K7	16320	120	17680	130	P	17000	125	P	9656	71	16728	123	P	10880	80	9520	70	17136	126	P	136
NV-1-64L-1-30K7	22960	112	22550	110	S	23370	114	S	12915	63	22960	112	S	14760	72	12710	62	23575	115	S	205
NV-1-64L-1-40K7	23780	116	25010	122	P	25215	123	P	13735	67	24805	121	P	15580	76	13530	66	25420	124	P	205
NV-1-64L-1-50K7	24600	120	26240	128	P	26445	129	P	14555	71	26035	127	P	16400	80	14350	70	26650	130	P	205

3000k or warmer must be selected to meet International Dark-Sky Association certification.

BUG RATINGS

PART NUMBER	T2	T3	T3 HSS	T4	T4 HSS	T5
NV-1-16L-35-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G2
NV-1-16L-53-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-7-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-40K7	B1-U0-G1	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-16L-1-50K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-30K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-40K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-7-50K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-1-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B0-U0-G2	B4-U0-G2
NV-1-48L-7-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-48L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-48L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-64L-7-30K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-40K7	B3-U0-G3	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G3	B5-U0-G3
NV-1-64L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3
NV-1-64L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3

Lumen Maintenance Data

Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			

NLS LIGHTING

VUE-3 TN-PKL

SPORTS / TENNIS / PICKLEBALL

The patented VUE-3 TN-PKL Luminaire provides the best lighting solution for Clubs, Upscale Homes, HOA's, Universities, High Schools and Recreation and Park projects. The VUE is number One ranked tennis and pickleball court light nationally in terms of Track Record installed on over 300 Multi-Court facilities.

Designed specifically for court lighting the VUE recesses and conceals its light source 2-3 inches above the bottom plane of the fixture reducing or eliminating fixture glare for players, spectators, neighbors and the dark sky environment while achieving USTA Lighting Criteria for foot candles and uniformity with fewer fixtures, poles, and wattage required compared to any other lighting manufacturer.

Product Features

- Traditionally designed to blend with any country club or private court setting.
- VUE can adapt to any existing fixture arm, cross arm, or pole.
- VUE is completely designed, tooled, extruded, cast, fabricated, powder coated, and assembled in the USA achieving the strictest Made in the USA requirements
- VUE optical system is patented and internally adjustable
- VUE LED light source is concealed and hidden from sight from neighbors, the environment, and dark sky.
- NLS also manufactures complimentary poles and arms with the same exact paint finish and texture
- 20 KV Surge protection comes standard in every fixture
- Low Iron Tempered Safety Glass Lens Standard
- VUE depreciation rate is 3-4 times slower than most import fixtures
- The VUE does not utilize plastic acrylic or polycarbonate lenses which yellow, crack, or leak.
- Experienced In House photometric design available at no charge.



Star Power Patent number: 10168023





STAR POWER™ OPTICAL SYSTEM

The Star Power™ reflector is an excellent system which provides great value and performance.

Project Name:						Type:		
Cat#	Light Dist.	Watts/Lumens	Kelvin	Volts	Mounting	Color	Options	
VUE-3 (VUE-3)	Tennis Optic (TT)	397 Watts (40)	4000K, 70 CRI (40K7)	120-277 (UNV)	Tennis Arm Adapter (TA)	Black Textured (BLK)	Bird Spikes (BS) Marine Grade Finish (MGF) Photocell (PC)Ⓢ	
		464 Watts (46)	5000K, 70 CRI (50K7)	347-480 (HV)	Davit Arm Adapter Slips Over 4" Round Tenon (DA)	Green (GRN)	Photocell + Receptacle (PCR)Ⓢ Receptacle + Shorting Cap (PER)Ⓢ	
		522 Watts (52)			Knuckle Mount (KM)Ⓢ	Bronze (BRZ)	Integral FSP-211	
		580 Watts (58)			Trunnion Mount (TM)ⓈⓈ	Custom (CS)	DimmingMotion Sensor (FSP-20)Ⓢ For 9' to 20'	
		609 Watts (60)			Mast Arm Slips Over 2-3/8" Round Tenon (MA)		(FSP-40)Ⓢ For 21' to 40' House Side Shield (HSS) Front Side Shield (FSS) Round Pole Adaptor 3"- 4" Pole (RPA4) 5"- 6" Pole (RPA5)	
					Direct Pole 6" Arm Single, D180 (DPS6)Ⓢ			
					Direct Pole 16" Arm D90, T90, T120, Quad (DPS16)Ⓢ			
Notes: Ⓢ For Round Pole Specify RPA4 or RPA5 Ⓢ Standard finish is stainless steel. Can be painted to match fixture Ⓢ Universal Voltage 120-277 Ⓢ 7-Pin Standard Ⓢ Max Tilt 20°								

REV. 12.16.22

1

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

VUE-3-TT-40-(CCT)-(VOLTAGE)-TA-
(COLOR)

Notes:**SP1**

NEXTGEN SOUTH23-56764

PRODUCT SPECIFICATIONS**ELECTRICAL**

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- LED Drivers Ambient Temp. Min is -40°C and Ambient Temp. Max ranges from 50°C to 55°C and, in some cases, even higher. Consult the factory for revalidation by providing the fixture catalog string before quoting and specifying it.
- All wiring UL certified for 600 VAC and 105°C
- CRI 70
- Color temperatures: 4000K, 5000K
- Surge Protection: 20KA supplied as standard.

CONSTRUCTION

- Formed Aluminum Housing
- External cooling fins
- Low Iron Lens - standard

OPTIONS

- **BIRD SPIKES (BS)** Offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.
- **MARINE GRADE FINISH (MGF)** A multi-step process creating protective finishing coat against harsh environments.
 - Chemically washed in a 5 stage cleaning system.
 - Pre-baked
 - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
 - Oven Baked.
 - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- **SHIELDS (HSS, FSS)** House Side Shield (HSS) is designed for full property line cut-off. Front-Side Shield (FSS) is a single-sided shield allowing partial cut-off on either side and front of luminaire.
- **ROUND POLE PLATE ADAPTER 3"-4" (RPA4) 5"-6" (RPA5)**

CONTROLS

- **FSP-211 (FSP-X)** Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet.
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, re-programmable in the field.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.
- **PHOTOCELL**
- **NEMA 7-PIN RECEPTACLE (PE7)** An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- **PHOTOCELL + RECEPTACLE**
- **RECEPTACLE + SHORTING CAP**

OPTICS

Recessed Star Power Optical System is 95% reflective material. Utilizes a linear diffused pattern, softening the light distribution and eliminating any dark shadows or striations.

- IES Types



TYPE IV (T4)

FINISH

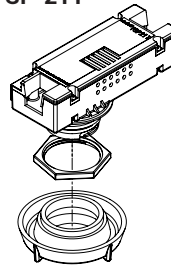
- 3-5 mils electrostatic powder coat.
- NLS' standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

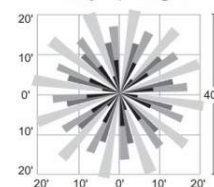
Five-year limited warranty for drivers and LEDs.

LISTINGS

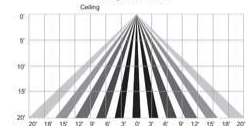
- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0

FSP-211**FSP-20**

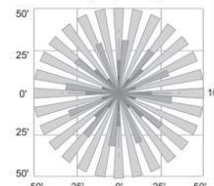
Coverage Top View @ 20 ft.



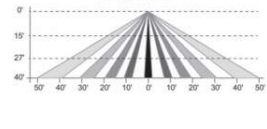
Coverage Side View

**FSP-40**

Coverage Top View @ 40ft



Coverage Side View

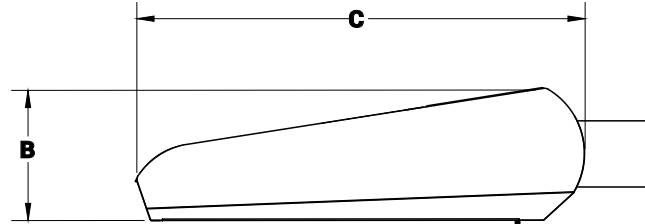
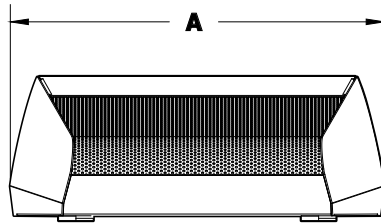


The information and specifications on this document are subject to change without any notification. All values are design, nominal, typical or prorated values when measured under internal and external laboratory conditions.

NLS
LIGHTING

701 Kingshill Place, Carson, CA 90746
Call Us Today (310) 341-2037

nlsighting.com

PRODUCT SPECIFICATIONS

DIMENSION	VUE-3
A	26.17 in
B	8.36 in
C	32.94 in

VUE-3
Weight: 55 lbs

						
SIDE	SGL	D90	D180	T90	T120	QD
VUE-3	1.66	3.36	3.32	5.02	4.38	5.02
VUE-3-FSS	1.91	4.30	3.81	6.21	5.45	6.21
VUE-3-HSS	1.66	4.91	3.32	6.57	7.48	6.57

VUE - LUMEN DATA CHART

PART NUMBER	TT OPTIC	Lm/W	B.U.G.	TT-HSS OPTIC	Lm/W	B.U.G.	TT-FSS OPTIC	Lm/W	B.U.G.	WATT
VUE-3-40-40K7	45,690	115	B4-U0-G3	44053	111	B3-U0-G3	44043	111	B4-U0-G3	397
VUE-3-40-50K7	45,690	115	B4-U0-G3	44053	111	B3-U0-G3	44043	111	B4-U0-G3	397
VUE-3-46-40K7	53,360	115	B4-U0-G4	51449	111	B3-U0-G4	51438	111	B4-U0-G3	464
VUE-3-46-50K7	53,360	115	B4-U0-G4	51449	111	B3-U0-G4	51438	111	B4-U0-G3	464
VUE-3-52-40K7	60,030	115	B4-U0-G4	57880	111	B3-U0-G4	57867	111	B4-U0-G3	522
VUE-3-52-50K7	60,030	115	B4-U0-G4	57880	111	B3-U0-G4	57867	111	B4-U0-G3	522
VUE-3-58-40K7	66,700	115	B4-U0-G4	64311	111	B3-U0-G4	64297	111	B4-U0-G4	580
VUE-3-58-50K7	66,700	115	B4-U0-G4	64311	111	B3-U0-G4	64297	111	B4-U0-G4	580
VUE-3-60-40K7	70,035	115	B4-U0-G4	67527	111	B3-U0-G4	67512	111	B4-U0-G4	609
VUE-3-60-50K7	70,035	115	B4-U0-G4	67527	111	B3-U0-G4	67512	111	B4-U0-G4	609

Lumen Maintenance Data

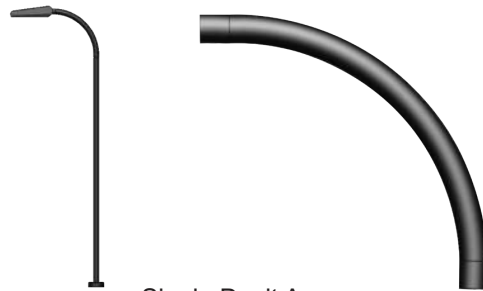
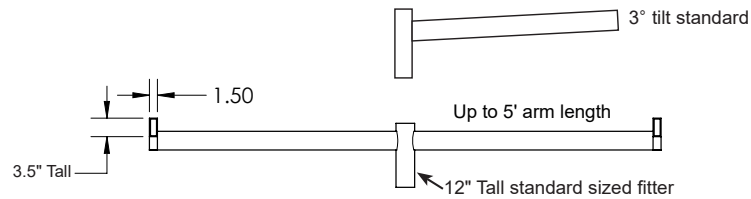
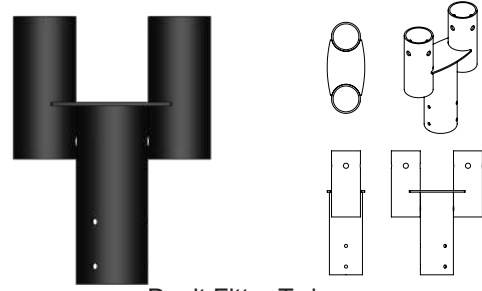
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	1050mA	43,000	117,000	93.9%	87.8%	84.9%	74.2%

*Reported extrapolations per IESNA TM-21

**Projected extrapolations per IESNA TM-21

PRODUCT OPTIONS**TENNIS ARMS AVAILABLE**

Single, D90, D70, D180, T90, T120, T135, Q90, Q120, U-Arm, H-Arms

Single Davit Arm
(DAV)Davit Fitter Twin
(DA-TWIN)Single Arm Tennis
(SAT)Double Arms Tennis
(DAT)Double Arms Tennis Square
Straight (DTSS)Double Arms Tennis Square
Diamondack (DTSDB)Triple Arms Tennis
(TAT)Quad Arms Tennis
(QAT)U-Arm Tennis for Double fixture
heads (UAT)Triple U-Arm Tennis
(TUAT)H-Arm Tennis for Quad fixture
heads (HAT)

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

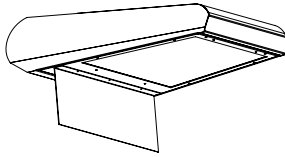
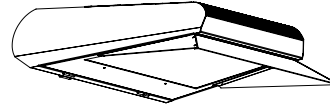
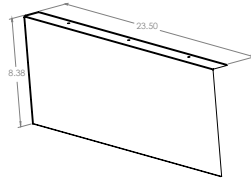
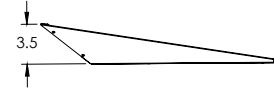
ATTACHMENT 1**Product Number:**

VUE-3-TT-40-(CCT)-(VOLTAGE)-TA-
(COLOR)

Notes:

Type:**SP1**

NEXTGEN SOUTH23-56764

PRODUCT OPTIONS**SHIELDING****HOUSE SIDE SHIELD (HSS)****FRONT SIDE SHIELD (FSS)****POLES AVAILABLE**

Direct Burial Round or Square
Anchor Base Round or Square

CONTROL SETTINGS

- Motion Based Percentage Outputs and Time Intervals
- (On, Dim, Off)
- Two Settings
- Full Output Setting 100%
- Backyard Party Setting 10%

NLS
 LIGHTING

VUE-2 TN-PKL

SPORTS / TENNIS / PICKLEBALL

The Vue Tennis and Pickleball luminaire is a collaboration of form, optics and thermal management. These combined high-quality features reduce energy costs, utilize the least amount of poles and fixtures per project while meeting IES minimum foot candle levels and extend maintenance cycles at a competitive price.

With specific optical systems designed for clubs, private courts, municipalities, and schools, the Vue can achieve powerful performance. Featuring the patent pending Star Power optical system, the flexibility and power of optics enable the Vue to gain a distinct advantage over its competitors for almost any distribution pattern. The system features 95% optical material, which goes through a linear diffusion process to stretch the virtual image of the diode—both magnifying it and creating a large range of angular flux both horizontally and vertically. This added range increases the width of the light pattern at a greater distance compared to optical systems, which rely on refraction principles using plastics. Star Power optics are also the most reliable; other plastic optics will oxidize over time as well as tend to lose its seal while exposed long term to the elements.

Product Features

The Vue TN-PKL is the Best Value Outdoor Lighting Solution

- Has an End of Life modular efficient chip upgrade solution.
- Has a beautiful, sleek and stealth shape made out of extruded aluminum.
- Can be mounted directly on to a Wall, Pole, Tennis Arm, or Davit Arm.
- 20 Degree maximum tilt available
- Light Distribution is Type Tennis Optic (TT).
- Is the Perfect Long Life Solution for any municipality, school, or infrastructure.
- The Vue TN-PKL conforms to the strictest Made in the USA standards.
- Designed, Tooled, Fabricated and Assembled in the USA



STAR POWER™ OPTICAL SYSTEM

The Star Power™ reflector is an excellent system which provides great value and performance.

LED WATTAGE CHART

	80L	96L
1050 milliamps	263W	316W

Project Name:

Type:

Cat #	Light Dist.	No. of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Shields	Options
VUE-2 (VUE-2)	Tennis Optic (TT)	80 (80L)	1050 (1)	4000K (40K)	120-277 (UNV)	Direct Pole Single, D18Q 6" (DPS6)	Black (BLK)	House Side Shield *Mounted on Back (HSS)	Bird Spikes (BS)
		96 (96L)		5000K (50K)	347-480 (HV)	D90, T90, T120, OD 12" (DPS12) Tennis Arm (TA) Davit Arm (DA) Knuckle Mount (KM) *See next page for Arm Configurations *For Round Pole, please specify RPA4 or RPA5	Green (GRN) Custom (CS)	Front Side Shield (FSS) 4 Sided Shield (4SS)	Marine Grade Finish (MGF) Photocell (PC) *Universal Voltage 120-277 Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER) Motion Sensor (MS) Surge Protector (10K) Low Iron Lens (LIL) Round Pole Adaptor 3"- 4" Pole (RPA4) 5"- 6" Pole (RPA5)

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 0-10V dimming driver by Philips Advance
- Driver power factor at maximum load is $\geq .95$, THD maximum load is 15%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- Lumileds Luxeon MX LEDs
- CRI >70
- Color temperatures: 4000K, 5000K

OPTIONS

- **BIRD SPIKES (BS)**—offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.
- **MARINE GRADE FINISH (MGF)**—A multi-step process creating protective finishing coat against harsh environments.
 - Chemically washed in a 5 stage cleaning system.
 - Pre-baked
 - Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer.
 - 1-2 feet inside pole coverage top and bottom.
 - Oven Baked.
 - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- **SHIELDS (HSS, FSS)**—Four-sided House Side Shield (HSS) is designed for full property line cut-off. Front-Side Shield (FSS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.

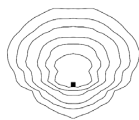
CONTROLS

- **FSP-211 (FSP-X)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-20 mounting heights 9-20 feet
 - FSP-40 mounting heights 21-40 feet.
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

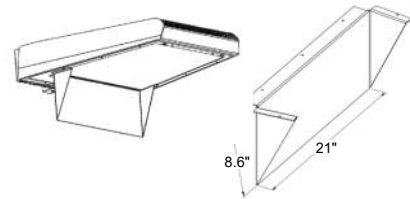
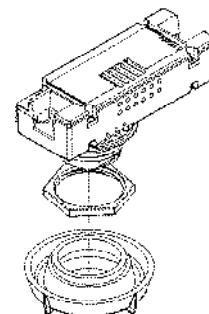
OPTICS

Recessed Star Power Optical System is 95% reflective material. Utilizes a linear diffused pattern, softening the light distribution and eliminating any dark shadows or striations.

- IES Types



TYPE T (TT)

OPTIONAL**HOUSE SIDE SHIELD (HSS)****FRONT SIDE SHIELD (FSS)****FOUR SIDE SHIELD (4SS)****FSP-211**

Job Name:

Low Country Pickleball Club - DESIGN
Architect: Court Atkins Group (Bluffton)
Electrical Engineer: Sustainable Design
Consultants (Savannah)

ATTACHMENT 1**Part Number:**

VUE-2-TT-80L-1-(CCT)-(VOLTAGE)-
TA-(COLOR)

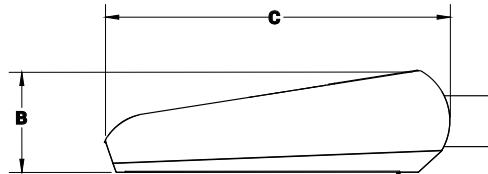
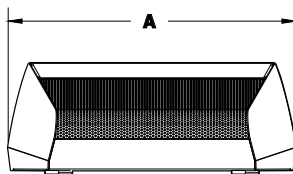
Notes:**Type:****SP2**

NEXTGEN SOUTH23-56764

PRODUCT SPECIFICATIONS**Housing:** Aluminum**LED:** Lumileds Luxeon MX. CRI 70**Optics:** Star Power Type Tennis (TT)**Watts:** 263-316**L70 Depreciation:** 483,000 Hours (@ 77°F/25°C)**Listings:** UL 1598 Listed , DLC QPL **Driver:** 0-10V Dimming driver as standard by Philips Advance

THD @ Max Load < 15%

Power Factor @ Max Load < 0.95

Kelvin: 4000 or 5000**Finish:** 5 mils Powder Coat**Warranty:** Standard Warranty is 5 years for Driver and LEDs**PRODUCT DIMENSIONS**

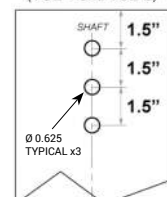
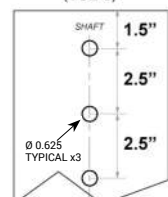
DIMENSION	VUE-2	EPA	VUE-2
A	21.56 in	Single	1.16
B	8.00 in	Double	2.32
C	27.06 in	Triple	2.5
		Quad	3.6

VUE - LUMEN DATA CHART									
PART NUMBER	TT LUMENS	TT Lm/W	TT-HSS LUMENS	TT-HSS Lm/W	TT-FSS LUMENS	TT-FSS Lm/W	TT-4SS LUMENS	TT-4SS Lm/W	WATT
VUE-2-80L-1-40K	26826	102	26037	99	27352	104	27089	103	263
VUE-2-80L-1-50K	27615	105	26826	102	28667	109	28404	108	263
VUE-2-96L-1-40K	32232	102	31284	99	32864	104	32548	103	316
VUE-2-96L-1-50K	33180	105	32232	102	34444	109	34128	108	316

* DLC approval may not apply to all configurations

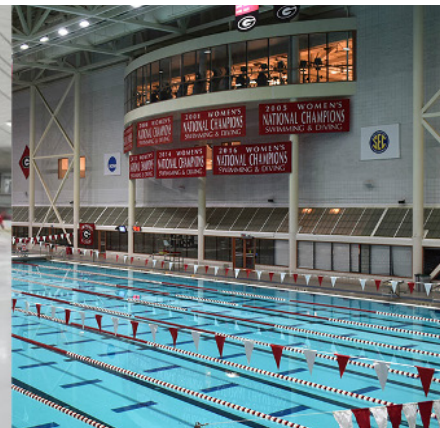


DesignLights Consortium (DLC) qualified Product. Some configurations of this product family may not be DesignLights Consortium (DLC) listed, please refer to the DLC qualified products list to confirm listed configurations. <http://www.designlights.org>

MOUNTING OPTIONS**Knuckle Mount****Tennis Arm****Trunnion Mount****Direct Pole Mount****2X4 DRILL PATTERN
(VUE-1 and VUE-2)****2X6 DRILL PATTERN
(VUE-3)**

SYNAPSE

SPORTS LIGHTING



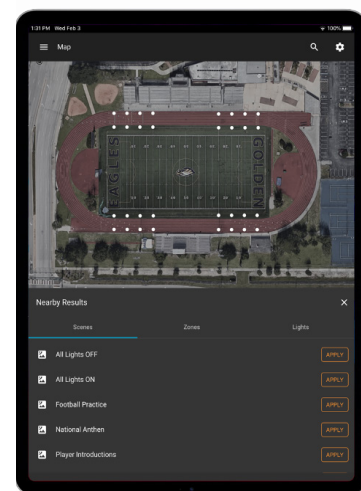
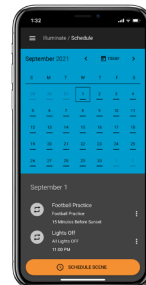
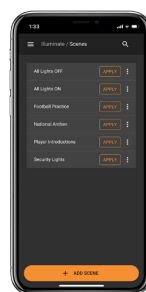
Easily manage your sports lights with SimplySnap, the easy to use, scalable lighting management solution that just works.

Our software is designed with core capabilities that help simplify managing indoor and outdoor sports lighting systems of all sizes. The SimplySnap user interface makes it easy to make minor adjustments to individual lights, groups of lights, or the entire lighting system. The built in scheduling features can be used to schedule the lights for practices, evening games, and special events. Scenes are the feature that allows multiple preset lighting configurations to be activated for special lighting needs. Quickly change between scenes for player introductions, the national anthem, or half time shows and then easily return to the action.

SIMPLE USER INTERFACE

With SimplySnap, users can access and control their lighting system from anywhere using a web browser on any computer or smart device.

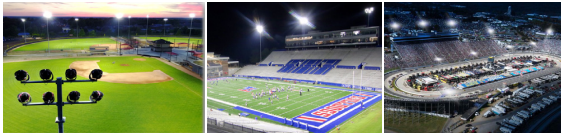
The responsive design and intuitive user interface works great on laptops, tablets, or phones for quick access and real time updates to the system. Our intelligent lighting system scales easily to support small sites with a single sports lighting application or installations with several sports fields across multiple locations.



SYNAPSE

KEY APPLICATIONS

OUTDOOR APPLICATIONS



- + Municipal Sports Complexes
- + K-12 Sports Fields
- + Collegiate Sports Fields
- + Professional Sports Fields

INDOOR APPLICATIONS

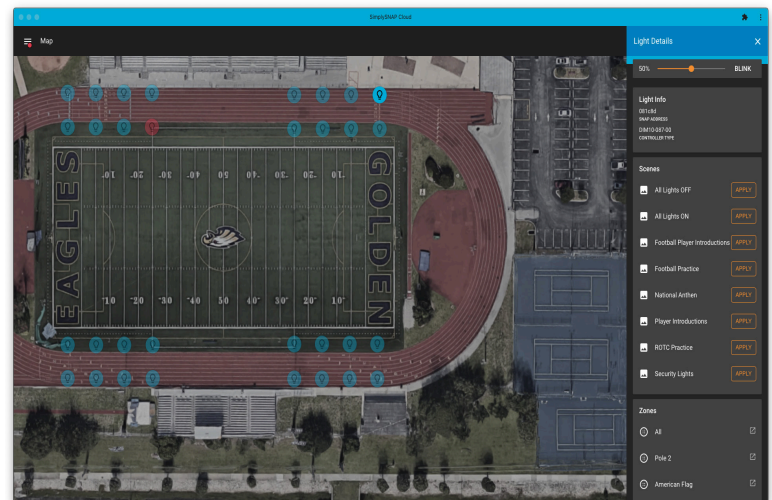


- + Indoor Sports Facilities
- + Arena Sports
- + Gymnasiums
- + Indoor Practice Fields

SOFTWARE FEATURES

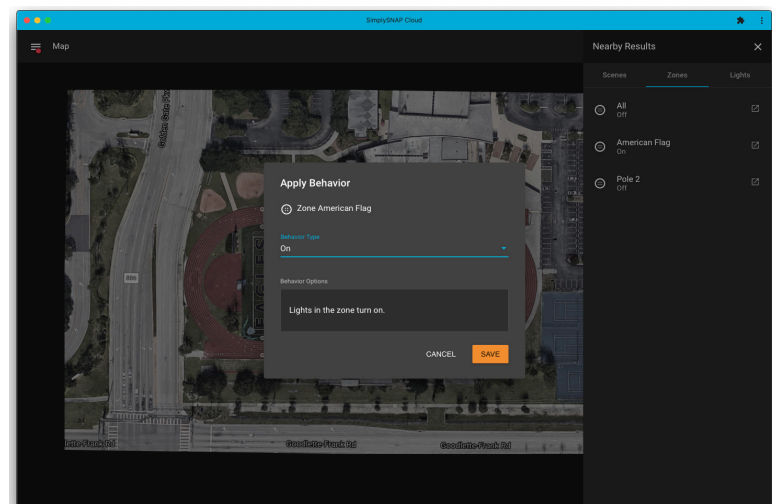
USER INTERFACE

The map based interface of SimplySnap provides fast and easy access to your sports lighting needs from anywhere. Adjust lights, activate scenes, or create schedules all from a user interface that was designed to be easy to learn and easy to use.



ZONES

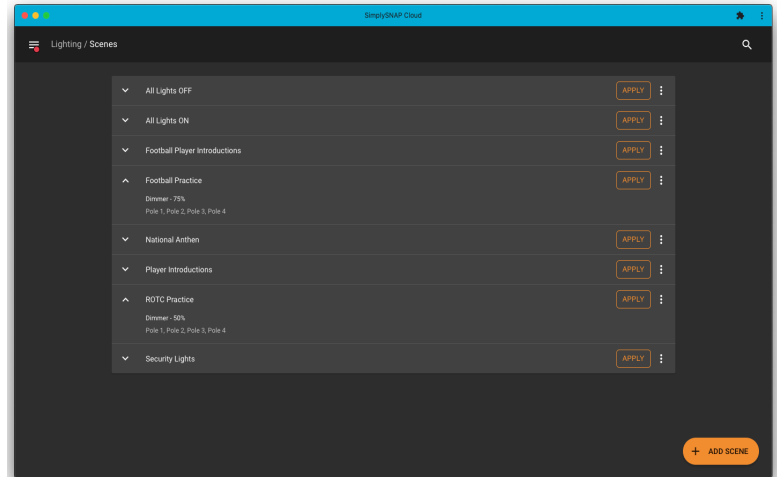
Lights can be organized and managed in easy-to-understand zones, supporting multiple sports fields or specific areas (End zone, Court 3, Softball Field 2, etc.).



SOFTWARE FEATURES

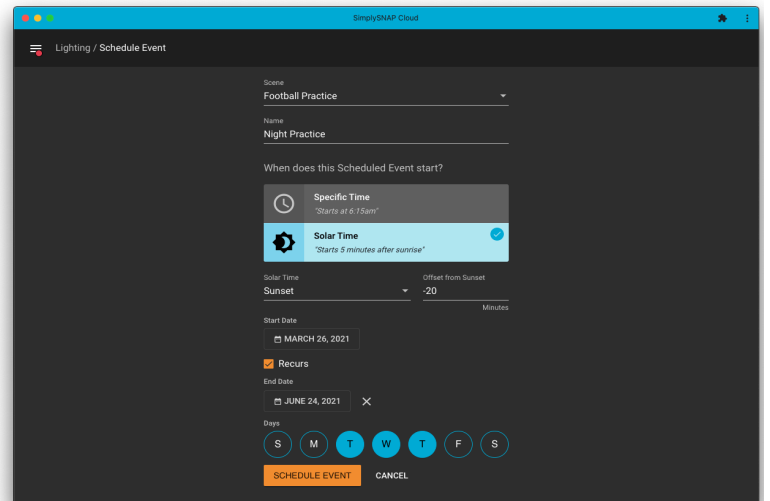
SCENES

Create a behavior or a group of behaviors for one or more control zones for lighting. Once created these scenes can be manually applied with a single click or set to a schedule.



SCHEDULES

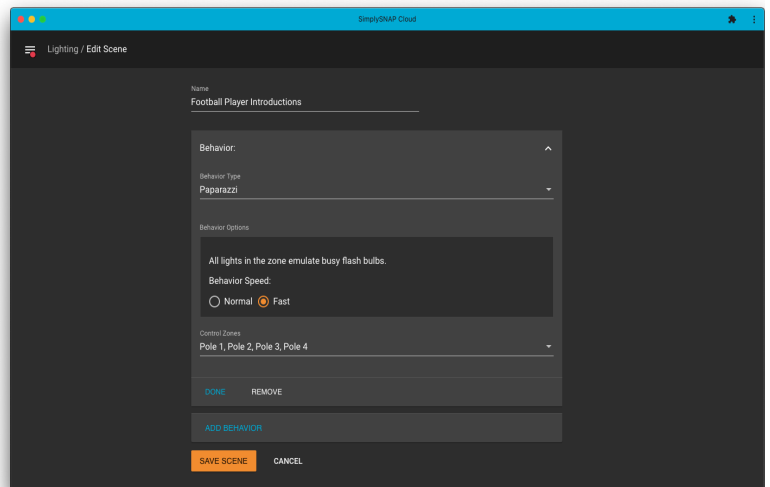
The built in calendar feature allows scenes to be scheduled for one time events or for reoccurring events out for several years. Create schedules for practices and games for the entire season to automate control.



DYNAMIC BEHAVIORS

Dynamic Behaviors* feature sends rapid dimming/on/off commands to groups of lights to create exciting light shows during sporting events. Create and save these as Scenes for events like scoring, player or team entrances, halftime introductions, and other special events.

Note* - Requires compatible Synapse embedded Controller, LED Drivers, and software package. Check with sales or review the Dynamics Behavior Technical Brief for more details.



OTHER SOFTWARE FEATURES

- + Mult-site management: Single log-in and one interface to manage multiple locations.
- + Multiple lighting systems: Easily manage parking lots, garages, and pathway lights in addition to the sports lights system
- + User Account Levels: Different user account levels restrict access and control to the system to provide basic users with only the tools they need
- + Alerts and alarms- notifications are sent immediately when issues are detected
- + Push Button Control- Program the CBS Site Controller buttons for direct control of light levels or to activate saved scenes and Dynamic Behaviors*
- + High-end Trim: Reduce energy use by adjusting the maximum light levels across the system
- + Sensor Support- Use Occupancy and Photocell sensors to manage behaviors across groups of lights
- + Task Tuning- Granular control to adjust light levels in specific areas for specific task

HARDWARE COMPONENTS

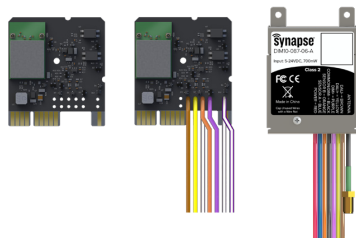


CBSSW-450-002

Site Controller

The CBS Site Controllers are key components of every SimplySnap lighting control solution from Synapse. Site Controllers coordinate communication out to all the Synapse-enabled devices that are part of the mesh network. They manage system configuration details, gather power and status information, apply zone behaviors, store scheduled events, generate notifications, and update controllers when new features or enhancements are added.

Each CBS also includes a 5 button switch that can be programmed and used to activate over 25 saved Scenes for fast direct control of different zones or the entire sporting complex.



DIM10-087-06, DIM10-087-06-A, DIM10-087-FW

Embedded Light Controllers



TL7-B2, TL7-HVG, and DIM10-220

Bolt-On and Twist-Lock Controllers

CLOUD BASED LIGHTING SOFTWARE AND OPTIONS

Part #	Description
LM-BASE	12 month subscription to the Base Lighting Management Package
LM-SPORT	12 month subscription to the Sport Lighting Management Package with Dynamic Behaviors*

Note* - Requires compatible Synapse embedded Controller and LED Drivers. Check with sales or review the Dynamics Behavior Technical Brief for more details.