



LED WATTAGE CHART

Drive Current	16L	32L	64L
350 milliamps	-	34W to 37W (3,112-4,193 Lumens)	-
400 milliamps	20W (1,439-2,396 Lumens)	-	-
530 milliamps	26W (1,907-3,174 Lumens)	52W to 57W (4,711-6,349 Lumens)	-
700 milliamps	34W (2,519-4,193 Lumens)	68W to 75W (5,874-8,385 Lumens)	137W (9,501-17,716 Lumens)
1000 milliamps	-	-	200W (18,667-23,703 Lumens)
1050 milliamps	51W to 56W (3,778-6,289 Lumens)	102W to 112W (9,334-12,578 Lumens)	-

FORM

- Elegant Die-Cast Aluminum Housing
- Corrosion resistant stainless steel external hardware
- Iconic sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- 10 architectural finishes standard, RAL colors available

FUNCTION

- High end club feel and design
- Designed specifically for indoor Pickleball applications
- Up Light option to eliminate cave effect
- Specific non-glare concealed optics, which cannot be seen by players on the opposite side of the net, across courts or by spectators
- 15°, 30°, 55°, 85°, T5W, and VCS Distributions
- 0-10V Dimming Drivers
- THD @ Max Load < 15%
- 70, 80 or 90 CRI options available
- 5 Mils Powder Coat Thickness
- Up to 23,703 Lumens
- Vandal Resistant Lens

RELIABILITY

- Silicone Micro Optics
- 5 Year Standard Warranty
- IP67 Optics
- IP66 Fixture

BUY AMERICAN

To ensure the latest BAA/TAA/BABA Standards are being met, please select BAA, TAA, or BABA in the options section. Please contact the factory before placing an order for any NLS products requesting BAA (Buy American Act), TAA (Trade Agreement Act), or BABA (Build America, Buy America).



Project Name:

Type:

ORX-2-PB ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Miliamps	Kelvin	Volts
Organix - 2 Pickleball (ORX-2-PB)	15° Very Narrow Beam (15)	16 LEDs (16L)	350mA (35)	3000K, 70 CRI (30K7)	120-277 (UNV)
	30° Narrow Beam (30)	32 LEDs (32L)	400mA (4)	3000K, 80 CRI (30K8) ³	347-480 (HV)
	55° Medium Beam (55)	64 LEDs (64L)	530mA (53)	3500K, 80 CRI (35K8) ³	
	85° Wide Beam (85)		700mA (7)	4000K, 70 CRI (40K7)	
	Type 5 Wide (T5W)		1000mA (1A)	4000K, 80 CRI (40K8) ³	
	Visual Comfort Symmetrical (VCS) ¹		1050mA (1) ²	5000K, 70 CRI (50K7)	
				5000K, 80 CRI (50K8) ³	

Mounting	Color	Controls Options	Options
Ceiling Mount (CM)	Bronze Textured (BRZ)	FSP-211 w/Motion Sensor/ Photocell (120/277VAC 230-240VAC)	Single Fuse (SF)
Pendant Mount 12" Length (PM12)	White Textured (WHT)	9'-20" Heights (FSP-20) ^{4, 8, 10}	Double Fuse (DF)
Pendant Mount 24" Length (PM24)	Smooth White Gloss (SWT)	21'-40' Heights (FSP-40) ^{4, 8, 10}	House Side Shield (HSS)
Pendant Mount 36" Length (PM36)	Silver Metallic (SVR)	FSP-221 w/Motion Sensor/ Photocell (100/347VAC 208/230/480VAC)	5 Conductor Dimming Leads (DL)
Pendant Mount Custom Length (PMX)	Black Textured (BLK)	9'-20" Heights (FSP-HV-20) ^{9, 10}	Up Light (UPL)
	Smooth Black Gloss (SBK)	21'-40' Heights (FSP-HV-40) ^{9, 10}	Black Optic Frame (includes black hardware) (BOF) ⁵
	Graphite Textured (GPH)	DALI-2 (D2) ⁵	Buy American Act (BAA) ¹²
	Grey Textured (GRY)	Emergency Battery 4W (EM4)	Trade Agreement Act (TAA) ¹²
	Green Textured (GRN)	Emergency Battery 8W (EM8)	Build America Buy American (BABA) ¹²
	Hunter Green Textured (HGN)	UL924-EMR (UL924) ⁶	
	Custom (CS)	Custom Controls Integration (CCI) ⁷	
		FSP Remote (FSIR) ¹¹	

NOTES:

1. VCS is backlit, comes with 64L, a diffused lens, and has a 700 max drive current
2. Not Available with 64L
3. Consult Factory for Lead Time. Consult Factory for 90 CRI Requests
4. Universal Voltage 120-277
5. Consult Factory
6. Not Available with any other options
7. Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, Dali II, Avi-On, or other control systems)
8. FSP-211, 120V/277V, 230-240VAC (single phase), 50/60 Hz
9. FSP-221, 100-347VAC (single phase) or 208/230/480VAC (phase-to-phase)
10. If VCS is chosen with FSP option then a side car is required
11. Projects with sensors require Qty. 1 FSIR per project
12. Consult factory for all BAA/TAA/BABA requests



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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 drivers, controls, and sensors housed in enclosed IP65 compartment
- CRI 70, 80 or 90
- Color temperatures: 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KVA supplied as standard

CONSTRUCTION

- Die-Cast Aluminum
- Internal cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP66 seal for electronics compartment

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

CONTROL OPTIONS

- FSP-211/FSP-221 (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 Agnostic: Please contact factory for your preferred controls option. (nLight, NX, WaveLinX, Crestron, DMX/RDM, Synapse, Casambi, DALI II, Avi-On, or other control systems)

OPTIONS

- Up Light (UPL)
- 5 Conductor Dimming Leads (DL)
- Black Optic Frame, includes black hardware (BOF)

FINISH

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

WARRANTY

Five-year limited warranty for drivers and LEDs.
Consult Factory for 7 or 10 year warranty

LISTINGS

- UL Listed in compliance with UL 1598, the Standard for Safety of Luminaires, including the applicable wet location requirements
- Compliant with UL 8750 LED driver design and test safety standards
- CSA C22.2 No. 250.0
- IP66 Rated Fixture
- IP67 Rated Optics
- IK10 Rated

BUY AMERICAN OPTION

While all of the NLS Lighting products listed in this document qualify for the Buy America(n) Act of 1933, we reserve the right to change our listings without notice.

The information provided above is for general informational purposes only. We encourage you to consult legal professionals for advice particular to your projects concerning BAA, TAA, BABA or Buy America.

Additional NLS Products that meet BAA, TAA standards can be found at the following link:

<https://nlsighting.com/buy-american/>



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.



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PRODUCT SPECIFICATIONS

LUMEN CHART 16L											
Part Number	15°	LM/W	30°	LM/W	55°	LM/W	85°	LM/W	T5W	LM/W	WATTAGE
ORX-2-PB-16L-400-30K8	1439	72	1457	73	1516	76	1570	79	2059	103	20
ORX-2-PB-16L-400-30K7	1550	78	1569	78	1633	82	1691	85	2217	111	20
ORX-2-PB-16L-400-35K8	1439	72	1457	73	1516	76	1570	79	2059	103	20
ORX-2-PB-16L-400-40K8	1550	78	1569	78	1633	82	1691	85	2217	111	20
ORX-2-PB-16L-400-40K7	1675	84	1695	85	1765	88	1827	91	2396	120	20
ORX-2-PB-16L-400-50K8	1550	78	1569	78	1633	82	1691	85	2217	111	20
ORX-2-PB-16L-400-50K7	1675	84	1695	85	1765	88	1827	91	2396	120	20
ORX-2-PB-16L-530-30K8	1907	73	1930	74	2009	77	2081	80	2728	105	26
ORX-2-PB-16L-530-30K7	2054	79	2079	80	2164	83	2241	86	2938	113	26
ORX-2-PB-16L-530-35K8	1907	73	1930	74	2009	77	2081	80	2728	105	26
ORX-2-PB-16L-530-40K8	2054	79	2079	80	2164	83	2241	86	2938	113	26
ORX-2-PB-16L-530-40K7	2219	85	2246	86	2338	90	2421	93	3174	122	26
ORX-2-PB-16L-530-50K8	2054	79	2079	80	2164	83	2241	86	2938	113	26
ORX-2-PB-16L-530-50K7	2219	85	2246	86	2338	90	2421	93	3174	122	26
ORX-2-PB-16L-700-30K8	2519	74	2549	75	2654	78	2748	81	3603	106	34
ORX-2-PB-16L-700-30K7	2713	80	2746	81	2858	84	2960	87	3880	114	34
ORX-2-PB-16L-700-35K8	2519	74	2549	75	2654	78	2748	81	3603	106	34
ORX-2-PB-16L-700-40K8	2713	80	2746	81	2858	84	2960	87	3880	114	34
ORX-2-PB-16L-700-40K7	2931	86	2967	87	3088	91	3198	94	4193	123	34
ORX-2-PB-16L-700-50K8	2713	80	2746	81	2858	84	2960	87	3880	114	34
ORX-2-PB-16L-700-50K7	2931	86	2967	87	3088	91	3198	94	4193	123	34
ORX-2-PB-16L-1050-30K8	3778	74	3824	75	3980	78	4122	81	5404	97	51 to 56
ORX-2-PB-16L-1050-30K7	4069	80	4118	81	4287	84	4440	87	5820	104	51 to 56
ORX-2-PB-16L-1050-35K8	3778	74	3824	75	3980	78	4122	81	5404	97	51 to 56
ORX-2-PB-16L-1050-40K8	4069	80	4118	81	4287	84	4440	87	5820	104	51 to 56
ORX-2-PB-16L-1050-40K7	4397	86	4450	87	4632	91	4797	94	6289	112	51 to 56
ORX-2-PB-16L-1050-50K8	4069	80	4118	81	4287	84	4440	87	5820	104	51 to 56
ORX-2-PB-16L-1050-50K7	4397	86	4450	87	4632	91	4797	94	6289	112	51 to 56

3000K or lower, with fixed mounting options only, must be selected to meet International Dark Sky Association Certification



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PRODUCT SPECIFICATIONS

LUMEN CHART 32L & 64L											
Part Number	15°	LM/W	30°	LM/W	55°	LM/W	85°	LM/W	T5W	LM/W	WATTAGE
ORX-2-PB-32L-350-30K8	3112	92	3149	93	3278	96	3564	105	3603	97	34 to 37
ORX-2-PB-32L-350-30K7	3351	99	3392	100	3531	104	3839	113	3881	105	34 to 37
ORX-2-PB-32L-350-35K8	3112	92	3149	93	3278	96	3564	105	3603	97	34 to 37
ORX-2-PB-32L-350-40K8	3351	99	3392	100	3531	104	3839	113	3881	105	34 to 37
ORX-2-PB-32L-350-40K7	3621	107	3665	108	3815	112	4148	122	4193	113	34 to 37
ORX-2-PB-32L-350-50K8	3351	99	3392	100	3531	104	3839	113	3881	105	34 to 37
ORX-2-PB-32L-350-50K7	3621	107	3665	108	3815	112	4148	122	4193	113	34 to 37
ORX-2-PB-32L-530-30K8	4711	79	4768	79	4964	83	5397	104	5456	96	52 to 57
ORX-2-PB-32L-530-30K7	5074	85	5136	86	5347	89	5813	112	5876	103	52 to 57
ORX-2-PB-32L-530-35K8	4711	79	4768	79	4964	83	5397	104	5456	96	52 to 57
ORX-2-PB-32L-530-40K8	5074	85	5136	86	5347	89	5813	112	5876	103	52 to 57
ORX-2-PB-32L-530-40K7	5482	91	5549	92	5777	96	6281	121	6349	111	52 to 57
ORX-2-PB-32L-530-50K8	5074	85	5136	86	5347	89	5813	112	5876	103	52 to 57
ORX-2-PB-32L-530-50K7	5482	91	5549	92	5777	96	6281	121	6349	111	52 to 57
ORX-2-PB-32L-700-30K8	7111	89	6298	79	6557	82	7129	105	7205	96	68 to 75
ORX-2-PB-32L-700-30K7	7659	96	6783	85	7062	88	7678	113	7760	103	68 to 75
ORX-2-PB-32L-700-35K8	7111	89	6298	79	6557	82	7129	105	7205	96	68 to 75
ORX-2-PB-32L-700-40K8	7659	96	6783	85	7062	88	7678	113	7760	103	68 to 75
ORX-2-PB-32L-700-40K7	8275	103	7329	92	7630	95	8296	122	8385	112	68 to 75
ORX-2-PB-32L-700-50K8	7659	96	6783	85	7062	88	7678	113	7760	103	68 to 75
ORX-2-PB-32L-700-50K7	8275	103	7329	92	7630	95	8296	122	8385	112	68 to 75
ORX-2-PB-32L-1050-30K8	9334	92	9447	93	9835	96	10185	100	10809	97	102 to 112
ORX-2-PB-32L-1050-30K7	10053	99	10175	100	10592	104	10969	108	11641	104	102 to 112
ORX-2-PB-32L-1050-35K8	9334	92	9447	93	9835	96	10185	100	10809	97	102 to 112
ORX-2-PB-32L-1050-40K8	10053	99	10175	100	10592	104	10969	108	11641	104	102 to 112
ORX-2-PB-32L-1050-40K7	10862	106	10994	108	11445	112	11852	116	12578	112	102 to 112
ORX-2-PB-32L-1050-50K8	10053	99	10175	100	10592	104	10969	108	11641	104	102 to 112
ORX-2-PB-32L-1050-50K7	10862	106	10994	108	11445	112	11852	116	12,578	112	102 to 112
ORX-2-PB-64L-700-30K8	12445	90	12597	91	13113	94	14258	104	15224	111	137
ORX-2-PB-64L-700-30K7	13403	96	13567	98	14123	102	15356	112	16396	120	137
ORX-2-PB-64L-700-35K8	12445	90	12597	91	13113	94	14258	104	15224	111	137
ORX-2-PB-64L-700-40K8	13403	96	13567	98	14123	102	15356	112	16396	120	137
ORX-2-PB-64L-700-40K7	14482	104	14659	105	15259	110	16592	121	17716	129	137
ORX-2-PB-64L-700-50K8	13403	96	13567	98	14123	102	15356	112	16396	120	137
ORX-2-PB-64L-700-50K7	14482	104	14659	105	15259	110	16592	121	17716	129	137
ORX-2-PB-64L-1-30K8	18667	94	18895	95	19669	99	20369	102	20282	101	200
ORX-2-PB-64L-1-30K7	20105	102	20350	103	21184	107	21937	110	21844	109	200
ORX-2-PB-64L-1-35K8	18667	94	18895	95	19669	99	20369	102	20282	101	200
ORX-2-PB-64L-1-40K8	20105	102	20350	103	21184	107	21937	110	21844	109	200
ORX-2-PB-64L-1-40K7	21723	110	21988	111	22889	116	23703	119	23602	118	200
ORX-2-PB-64L-1-50K8	20105	102	20350	103	21184	107	21937	110	21844	109	200
ORX-2-PB-64L-1-50K7	21723	110	21988	111	22889	116	23703	119	23,602	118	200

3000K or lower, with fixed mounting options only, must be selected to meet International Dark Sky Association Certification

LUMEN CHART 64L VCS			
Part Number	VCS	LM/W	WATTAGE
ORX-2-PB-64L-700-30K8	9501	69	137
ORX-2-PB-64L-700-30K7	10232	75	137
ORX-2-PB-64L-700-35K8	9501	69	137
ORX-2-PB-64L-700-40K8	10232	75	137
ORX-2-PB-64L-700-40K7	11056	81	137
ORX-2-PB-64L-700-50K8	10232	75	137
ORX-2-PB-64L-700-50K7	11056	81	137
3000K or lower, with fixed mounting options only, must be selected to meet International Dark Sky Association Certification			

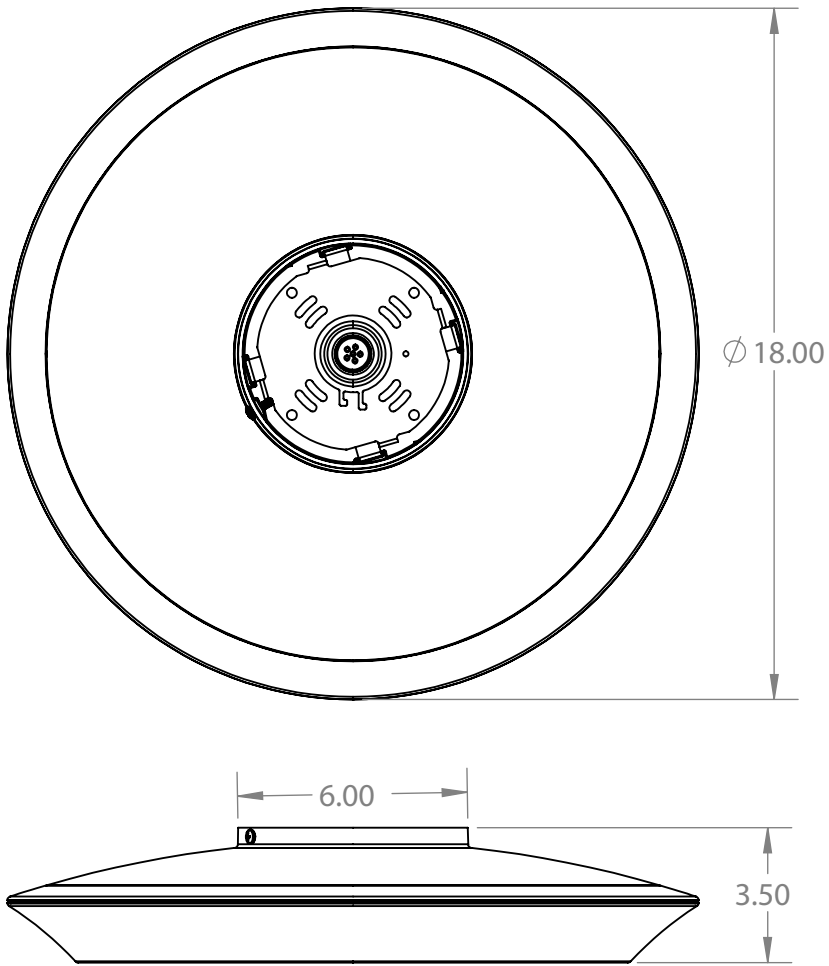


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PRODUCT SPECIFICATIONS

MODEL	WIDTH	HEIGHT	WEIGHT
ORX-2-PB	18"	3.5"	15 LBS



SCAN FOR INSTALLATION INSTRUCTIONS

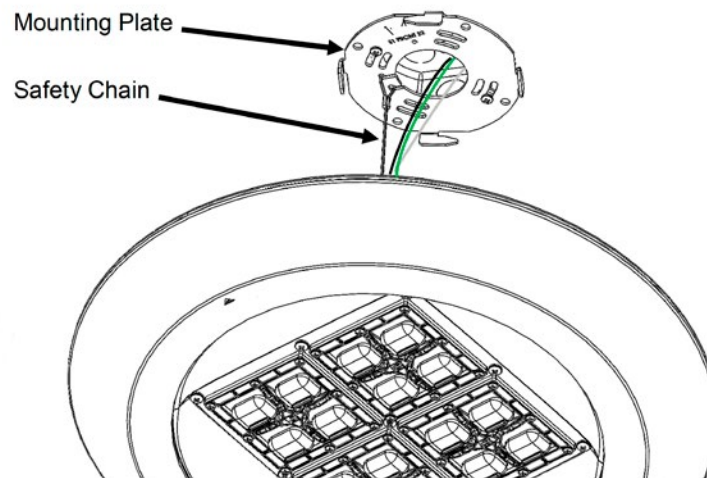
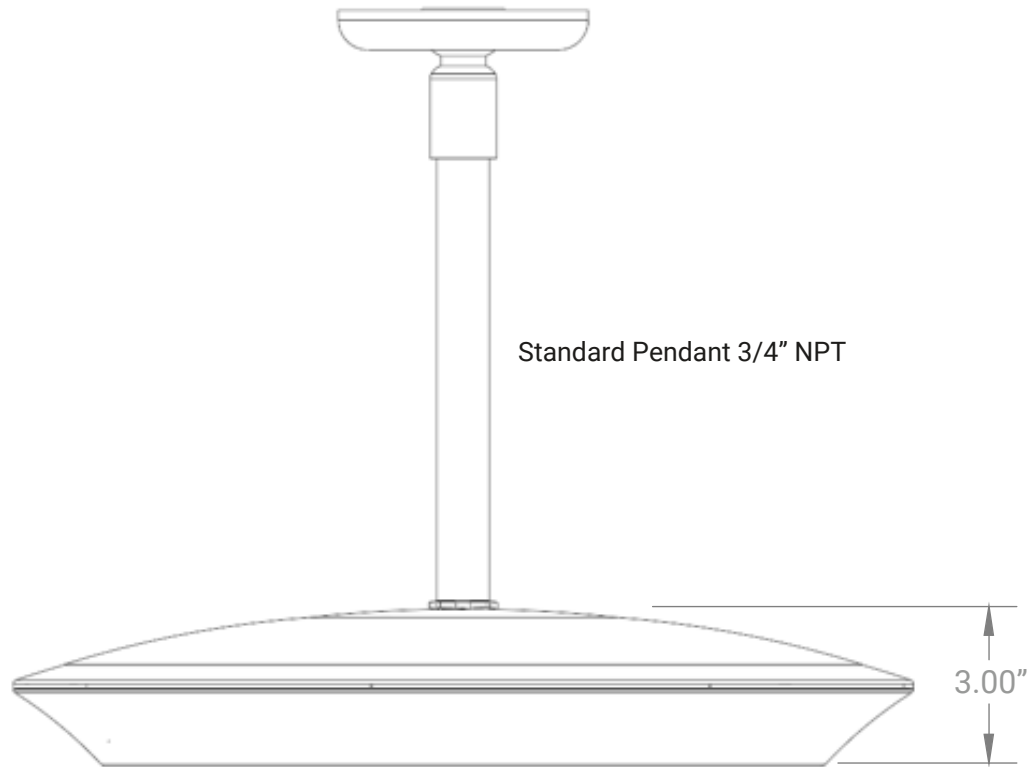


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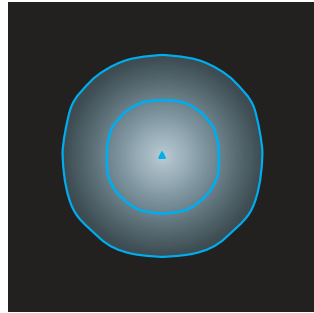
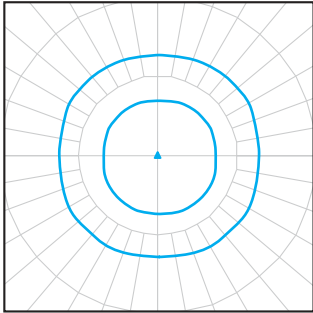
PRODUCT SPECIFICATIONS

MODEL	WIDTH	HEIGHT	WEIGHT
ORX-2-PB	18"	3.0"	16 LBS



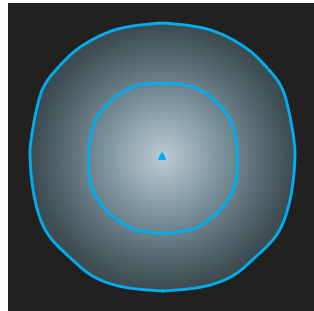
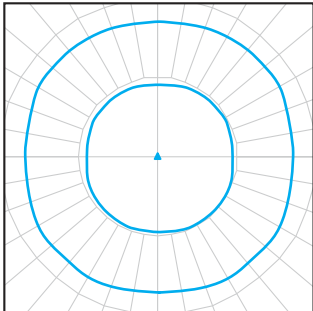
PRODUCT SPECIFICATIONS

IES DISTRIBUTIONS



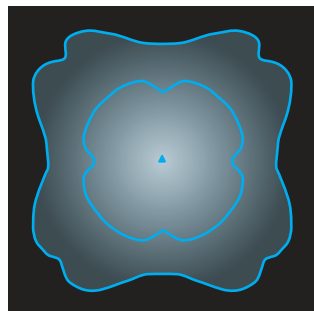
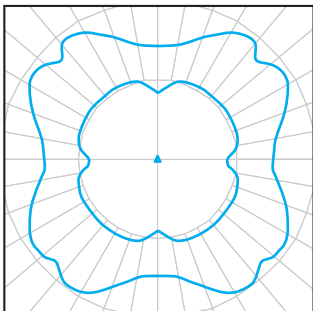
15° Optimized

The 15° Optic is used for very specific spot lighting. The narrow beam and concentrated lumen output are designed for higher mounting heights.



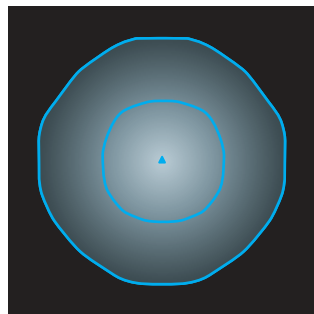
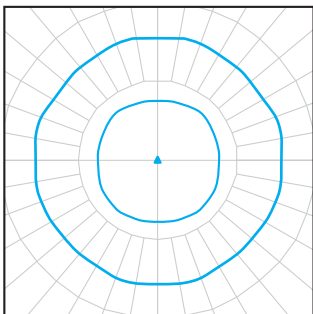
30° Optimized

The 30° Optic is used for larger spot light and accent lighting at higher mounting heights.



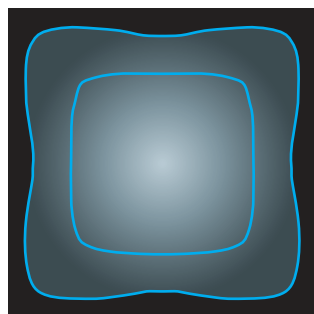
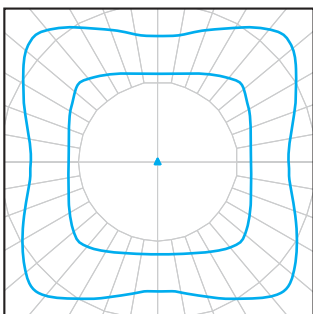
55° Optimized

The 55° Optic is used for areas larger than a spot light but not as spread as the 85°.



85° Optimized

The 85° Optic is used for large area and accent lighting. It is meant for coverage of multiple pickleball courts, in an even circular distribution.



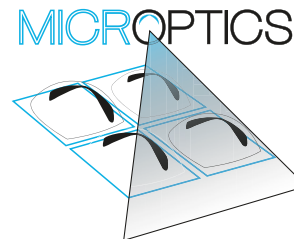
Type 5W Optimized

T5W is intended for the largest of areas. This distribution has a uniform symmetry of candlepower that is essentially the same at all lateral angles. It is meant for coverage of multiple pickleball courts needing a rectangular distribution.

PRODUCT SPECIFICATIONS

SILICONE OPTICS

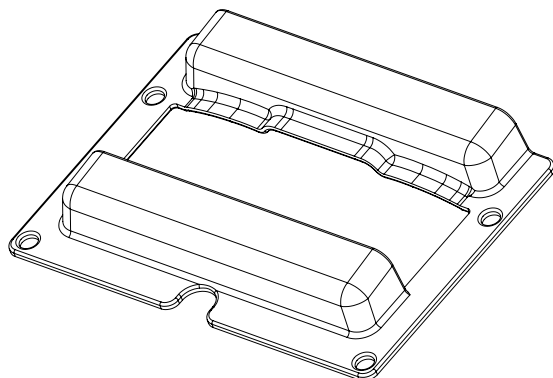
NLS Lighting Silicone Micro Optical System technology takes quality and performance to the highest level. Vandal resistant, superior clarity—Micro Optics have become the best and lasting solution in the industry.



BENEFITS

- Produces superior 96% clarity
- Heat resistant to 150° C, 50% higher than acrylic
- Ecologically friendly—no glare
- Vandal-resistant
- Does not brittle, crack, or yellow over time

HOUSE SIDE SHIELD (HSS)

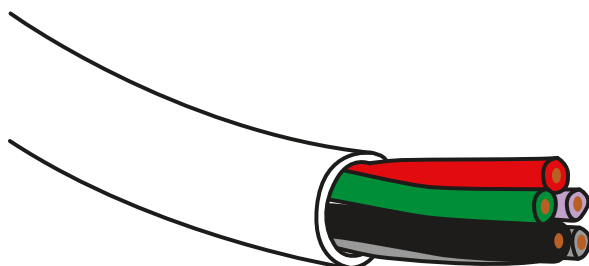


House Side Shield (HSS)

House Side Shield (**HSS**) is designed for stringent property line cutoff. Injection Molded Glass Filled Nylon, standard finish is black.

5 CONDUCTOR DIMMING LEADS

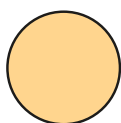
5 Conductor Dimming Leads (DL)



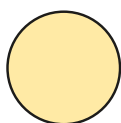
Standard Dimming Leads exiting the fixture for external dimming control.

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			

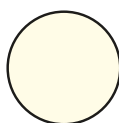
LED KELVIN RANGE



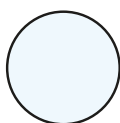
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

PRODUCT SPECIFICATIONS

BLACK OPTIC FRAME



Black Optic Frame (BOF)

Optional Black Optic Frame, with black hardware for the optic frame. Standard Optic Frame is white.

UP LIGHT



Up Light (UPL)

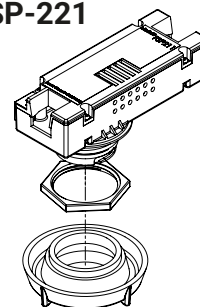
Optional Up Light.

PRODUCT SPECIFICATIONS

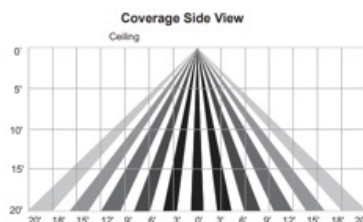
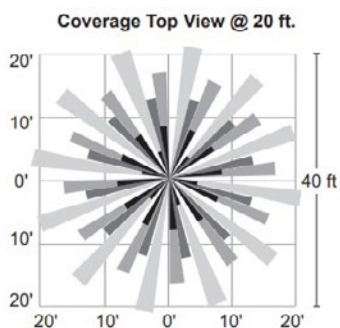
FSP-211/FSP-221 WITH MOTION SENSOR (FSP-XX)

- FSP-211/FSP-221 (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.

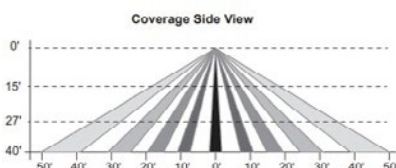
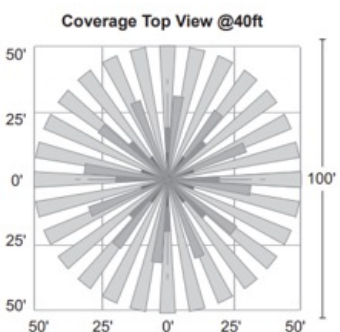
FSP-211/FSP-221



FSP-20



FSP-40



Sensor Specification

