



LED WATTAGE CHART

Drive Current	16L	32L
400mA	18W (1576-2025 Lumens)	43W (3366-4051 Lumens)
530mA	28W (2386-2839 Lumens)	54W (5097-6134 Lumens)
700mA	37W (3366-3749 Lumens)	72W (6731-8102 Lumens)
850mA	55W (3827-4553 Lumens)	87W (8174-9838 Lumens)

FORM

- Elegant Die-Cast Aluminum Housing
- Corrosion Resistant Stainless Steel External Hardware
- Sleek, Low Profile Housing
- Spec Grade Performance
- Engineered For Optimum Thermal Management
- 9 Architectural Finishes Standard, RAL Colors Available

FUNCTION

- Micro Optics IES Distributions T2, T3, T4
- 0-10V Dimming Drivers
THD @ Max Load < 15%
Power factor @ Max Load < 0.95
- Amber, 2700K, 3000K, 3500K, 4000K, or 5000K
- 16L or 32L LED Configuration
- CRI 70, 80, or 90
- 5 Mils Powder Coat
- Up to 9,838 Lumens

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:

ORGANIX - WALL MOUNT ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Drive Current	Kelvin	Volts	
Organix - Wall Mount (ORX-W)	Type 2 (T2)	16 (16L)	400 mA (40)	Amber 585-600nM (AMBER) 5, 7, 8, 12	120-277 (UNV)	
	Type 3 (T3)	32 (32L)	530 mA (53)	2700K, 70 CRI (27K7) 8		
	Type 4 (T4)			700 mA (7)		2700K, 80 CRI (27K8) 1, 8
				850 mA (85)		3000K, 70 CRI (30K7) 8
						3000K, 80 CRI (30K8) 1, 8
						3500K, 80 CRI (35K8)
						4000K, 70 CRI (40K7)
						4000K, 80 CRI (40K8) 1
						5000K, 70 CRI (50K7)
						5000K, 80 CRI (50K8) 1

Mounting	Color	Controls Options	Options	Lens Options
Wall Mount (WM)	Bronze Textured (BRZ)	Button Photocell (PC)	Marine Grade Finish (MGF)	Diffused Polycarbonate Visual Comfort Lens (DPCL) Clear Tempered Glass Lens (CTG) HAL Lens (HAL)
	White Textured (WHT)	Nema 7-Pin Receptacle (PE7)	House Side Shield (HSS) 9	
	Smooth White Gloss (SWT)	FSP-211 with Motion Sensor/Photocell 8' and Below Heights (FSP211-8) 2, 10	Housing Extension (HE)	
	Silver Metallic (SVR)	9'-20' Heights (FSP211-20) 2, 10	Emergency Battery 4W (EM4) 2	
	Black Textured (BLK)	21'-40' Heights (FSP211-40) 2, 10	Emergency Battery 8W (EM8) 2	
	Smooth Black Gloss (SBK)	Custom Controls Integration (CCI) 3	Buy American Act (BAA) 5	
	Graphite Textured (GPH)	FSP Remote (FSIR) 11	Trade Agreement Act (TAA) 5	
	Grey Textured (GRY)		Build America Buy American (BABA) 5	
	Green Textured (GRN)			
	Hunter Green Textured (HGN)			
	Custom (CS)			

NOTES:

1. Consult Factory for Lead Time. Consult Factory For 90 CRI Requests.
2. Universal Voltage 120-277
3. Please contact Factory for Custom Control Integration requests (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, Dali II, Avi-On, or other control systems)
4. Turtle Safe
5. Consult factory for all BAA/TAA/BABA requests
6. Optional Lens Not Available
7. Consult Factory for Lead Time
8. 3000K or lower, with fixed mounting options only, must be selected to meet International Dark-Sky Association certification.
9. Not Available with Lens Options (VCA, VCS, DPCL, CTG)
10. FSP-211, 120V/277V, 230-240VAC (single phase), 50/60Hz
11. Projects with sensors require Qty. 1 FSIR per project
12. Not Available above 700mA



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PRODUCT SPECIFICATIONS

ELECTRICAL

- 120-277 Volts (UNV)
- 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: Amber, 2700K, 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

- Button Type Photocell (PC)
- 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)
- 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-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.
 - FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.

OPTIONS

- BIRD SPIKES (BS) - Offer an effective and humane deterrent for larger bird species and provide a cost-effective long-term solution to nuisance bird infestations and to protect your property.
- MARINE GRADE FINISH (MGF) - A multi-step process creating a 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.
- House Side Shield (HSS) is designed for full property line cutoff.

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
- IDA Dark Sky Approved

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://nslighting.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										
PART NUMBER	T2	LM/W	BUG RATING	T3	LM/W	BUG RATING	T4	LM/W	BUG RATING	WATTAGE
ORX-W-16L-40-27K7	1734	96	B1-U0-G1	1693	94	B1-U0-G1	1683	93	B1-U0-G1	18
ORX-W-16L-40-27K8	1623	90	B1-U0-G1	1585	88	B1-U0-G1	1576	88	B1-U0-G1	18
ORX-W-16L-40-30K7	1875	104	B1-U0-G1	1830	102	B1-U0-G1	1820	101	B1-U0-G1	18
ORX-W-16L-40-30K8	1741	97	B1-U0-G1	1699	94	B1-U0-G1	1689	94	B1-U0-G1	18
ORX-W-16L-40-35K8	1741	97	B1-U0-G1	1699	94	B1-U0-G1	1689	94	B1-U0-G1	18
ORX-W-16L-40-40K7	2025	113	B1-U0-G1	1977	110	B1-U0-G1	1966	109	B1-U0-G1	18
ORX-W-16L-40-40K8	1875	104	B1-U0-G1	1830	102	B1-U0-G1	1820	101	B1-U0-G1	18
ORX-W-16L-40-50K7	2025	113	B1-U0-G1	1977	110	B1-U0-G1	1966	109	B1-U0-G1	18
ORX-W-16L-40-50K8	1875	104	B1-U0-G1	1830	102	B1-U0-G1	1820	101	B1-U0-G1	18
ORX-W-16L-53-27K7	2625	94	B1-U0-G1	2563	92	B1-U0-G1	2548	91	B1-U0-G1	28
ORX-W-16L-53-27K8	2458	88	B1-U0-G1	2400	86	B1-U0-G1	2386	85	B1-U0-G1	28
ORX-W-16L-53-30K7	2839	101	B1-U0-G1	2771	99	B1-U0-G1	2755	98	B1-U0-G1	28
ORX-W-16L-53-30K8	2636	94	B1-U0-G1	2573	92	B1-U0-G1	2558	91	B1-U0-G1	28
ORX-W-16L-53-35K8	2636	94	B1-U0-G1	2573	92	B1-U0-G1	2558	91	B1-U0-G1	28
ORX-W-16L-53-40K7	3067	110	B1-U0-G1	2994	107	B1-U0-G1	2977	106	B1-U0-G1	28
ORX-W-16L-53-40K8	2839	101	B1-U0-G1	2771	99	B1-U0-G1	2755	98	B1-U0-G1	28
ORX-W-16L-53-50K7	3067	110	B1-U0-G1	2994	107	B1-U0-G1	2977	106	B1-U0-G1	28
ORX-W-16L-53-50K8	2839	101	B1-U0-G1	2771	99	B1-U0-G1	2755	98	B1-U0-G1	28
ORX-W-16L-7-27K7	3468	94	B1-U0-G1	3385	91	B1-U0-G1	3366	91	B1-U0-G1	37
ORX-W-16L-7-27K8	3247	88	B1-U0-G1	3170	86	B1-U0-G1	3151	85	B1-U0-G1	37
ORX-W-16L-7-30K7	3749	101	B1-U0-G1	3660	99	B1-U0-G1	3639	98	B1-U0-G1	37
ORX-W-16L-7-30K8	3481	94	B1-U0-G1	3398	92	B1-U0-G1	3379	91	B1-U0-G1	37
ORX-W-16L-7-35K8	3481	94	B1-U0-G1	3398	92	B1-U0-G1	3379	91	B1-U0-G1	37
ORX-W-16L-7-40K7	4051	109	B1-U0-G1	3955	107	B1-U0-G1	3932	106	B1-U0-G1	37
ORX-W-16L-7-40K8	3749	101	B1-U0-G1	3660	99	B1-U0-G1	3639	98	B1-U0-G1	37
ORX-W-16L-7-50K7	4051	109	B1-U0-G1	3955	107	B1-U0-G1	3932	106	B1-U0-G1	37
ORX-W-16L-7-50K8	3749	101	B1-U0-G1	3660	99	B1-U0-G1	3639	98	B1-U0-G1	37
ORX-W-16L-85-27K7	4211	77	B1-U0-G1	4110	75	B1-U0-G1	4087	74	B1-U0-G1	55
ORX-W-16L-85-27K8	3943	72	B1-U0-G1	3849	70	B1-U0-G1	3827	70	B1-U0-G1	55
ORX-W-16L-85-30K7	4553	83	B1-U0-G1	4444	81	B1-U0-G1	4419	80	B1-U0-G1	55
ORX-W-16L-85-30K8	4227	77	B1-U0-G1	4126	75	B1-U0-G1	4103	75	B1-U0-G1	55
ORX-W-16L-85-35K8	4227	77	B1-U0-G1	4126	75	B1-U0-G1	4103	75	B1-U0-G1	55
ORX-W-16L-85-40K7	4919	89	B1-U0-G1	4802	87	B1-U0-G1	4775	87	B1-U0-G1	55
ORX-W-16L-85-40K8	4553	83	B1-U0-G1	4444	81	B1-U0-G1	4419	80	B1-U0-G1	55
ORX-W-16L-85-50K7	4919	89	B1-U0-G1	4802	87	B1-U0-G1	4775	87	B1-U0-G1	55
ORX-W-16L-85-50K8	4553	83	B1-U0-G1	4444	81	B1-U0-G1	4419	80	B1-U0-G1	55
ORX-W-32L-35-27K7	3468	96	B1-U0-G1	3385	94	B1-U0-G1	3366	93	B1-U0-G1	36
ORX-W-32L-35-27K8	3247	90	B1-U0-G1	3170	88	B1-U0-G1	3151	88	B1-U0-G1	36
ORX-W-32L-35-30K7	3749	104	B1-U0-G1	3660	102	B1-U0-G1	3639	101	B1-U0-G1	36
ORX-W-32L-35-30K8	3481	97	B1-U0-G1	3398	94	B1-U0-G1	3379	94	B1-U0-G1	36
ORX-W-32L-35-35K8	3481	97	B1-U0-G1	3398	94	B1-U0-G1	3379	94	B1-U0-G1	36
ORX-W-32L-35-40K7	4051	113	B1-U0-G1	3955	110	B1-U0-G1	3932	109	B1-U0-G1	36
ORX-W-32L-35-40K8	3749	104	B1-U0-G1	3660	102	B1-U0-G1	3639	101	B1-U0-G1	36
ORX-W-32L-35-50K7	4051	113	B1-U0-G1	3955	110	B1-U0-G1	3932	109	B1-U0-G1	36
ORX-W-32L-35-50K8	3749	104	B1-U0-G1	3660	102	B1-U0-G1	3639	101	B1-U0-G1	36
ORX-W-32L-53-27K7	5251	97	B1-U0-G1	5126	95	B1-U0-G1	5097	94	B1-U0-G1	54
ORX-W-32L-53-27K8	4917	91	B1-U0-G1	4800	89	B1-U0-G1	4772	88	B1-U0-G1	54
ORX-W-32L-53-30K7	5677	105	B1-U0-G1	5542	103	B1-U0-G1	5511	102	B1-U0-G1	54
ORX-W-32L-53-30K8	5271	98	B1-U0-G1	5146	95	B1-U0-G1	5117	95	B1-U0-G1	54
ORX-W-32L-53-35K8	5271	98	B1-U0-G1	5146	95	B1-U0-G1	5117	95	B1-U0-G1	54
ORX-W-32L-53-40K7	6134	114	B1-U0-G1	5988	111	B1-U0-G1	5954	110	B1-U0-G2	54
ORX-W-32L-53-40K8	5677	105	B1-U0-G1	5542	103	B1-U0-G1	5511	102	B1-U0-G1	54
ORX-W-32L-53-50K7	6134	114	B1-U0-G1	5988	111	B1-U0-G1	5954	110	B1-U0-G2	54
ORX-W-32L-53-50K8	5677	105	B1-U0-G1	5542	103	B1-U0-G1	5511	102	B1-U0-G1	54
ORX-W-32L-7-27K7	6935	96	B1-U0-G1	6770	94	B2-U0-G2	6731	93	B2-U0-G2	72
ORX-W-32L-7-27K8	6494	90	B1-U0-G1	6339	88	B2-U0-G2	6303	88	B1-U0-G2	72
ORX-W-32L-7-30K7	7498	104	B2-U0-G2	7320	102	B2-U0-G2	7278	101	B2-U0-G2	72
ORX-W-32L-7-30K8	6962	97	B1-U0-G1	6797	94	B2-U0-G2	6758	94	B2-U0-G2	72
ORX-W-32L-7-35K8	6962	97	B1-U0-G1	6797	94	B2-U0-G2	6758	94	B2-U0-G2	72
ORX-W-32L-7-40K7	8102	113	B2-U0-G2	7909	110	B2-U0-G2	7864	109	B2-U0-G2	72
ORX-W-32L-7-40K8	7498	104	B2-U0-G2	7320	102	B2-U0-G2	7278	101	B2-U0-G2	72
ORX-W-32L-7-50K7	8102	113	B2-U0-G2	7909	110	B2-U0-G2	7864	109	B2-U0-G2	72
ORX-W-32L-7-50K8	7498	104	B2-U0-G2	7320	102	B2-U0-G2	7278	101	B2-U0-G2	72
ORX-W-32L-85-27K7	8421	97	B2-U0-G2	8221	94	B2-U0-G2	8174	94	B2-U0-G2	87
ORX-W-32L-85-27K8	7885	91	B2-U0-G2	7698	88	B2-U0-G2	7653	88	B2-U0-G2	87
ORX-W-32L-85-30K7	9105	105	B2-U0-G2	8889	102	B2-U0-G2	8838	102	B2-U0-G2	87
ORX-W-32L-85-30K8	8454	97	B2-U0-G2	8253	95	B2-U0-G2	8206	94	B2-U0-G2	87
ORX-W-32L-85-35K8	8454	97	B2-U0-G2	8253	95	B2-U0-G2	8206	94	B2-U0-G2	87
ORX-W-32L-85-40K7	9838	113	B2-U0-G2	9604	110	B2-U0-G2	9549	110	B2-U0-G2	87
ORX-W-32L-85-40K8	9105	105	B2-U0-G2	8889	102	B2-U0-G2	8838	102	B2-U0-G2	87
ORX-W-32L-85-50K7	9838	113	B2-U0-G2	9604	110	B2-U0-G2	9549	110	B2-U0-G2	87
ORX-W-32L-85-50K8	9105	105	B2-U0-G2	8889	102	B2-U0-G2	8838	102	B2-U0-G2	87

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

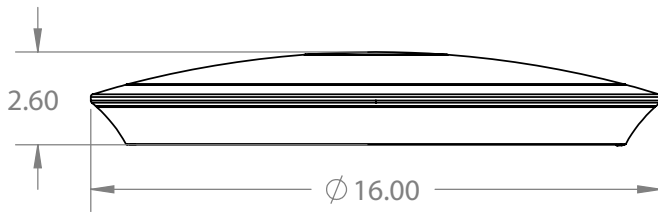
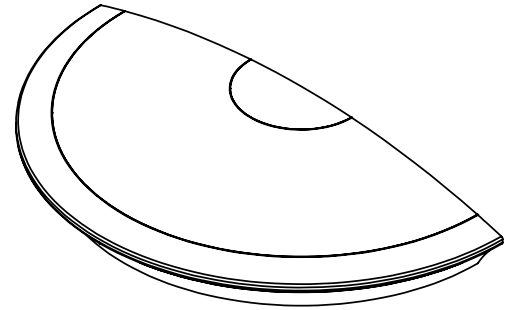
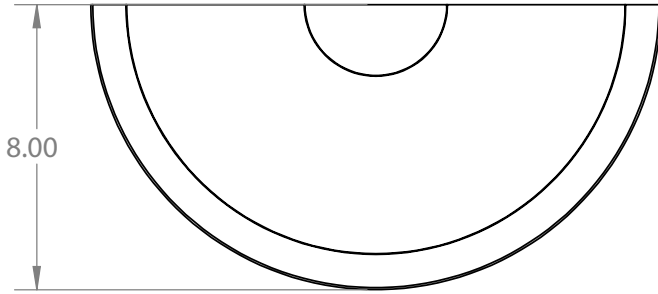


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PRODUCT SPECIFICATIONS

MODEL	WIDTH	HEIGHT	DEPTH	WEIGHT
ORX-W	16"	2.6"	8"	6 LBS



SCAN FOR INSTALLATION INSTRUCTIONS



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%
	850mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%

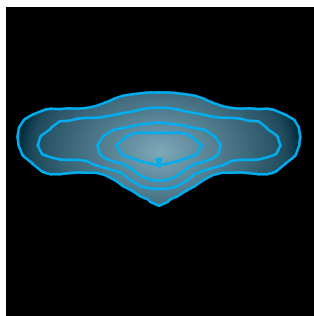
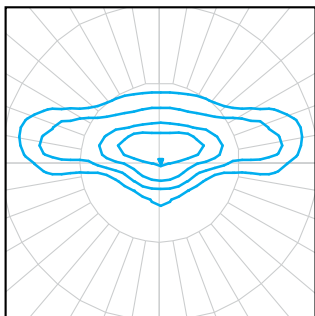
*Reported extrapolations per IESNA TM-21 **Projected extrapolations per IESNA TM-21

LED KELVIN RANGE



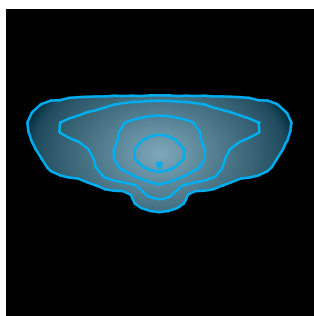
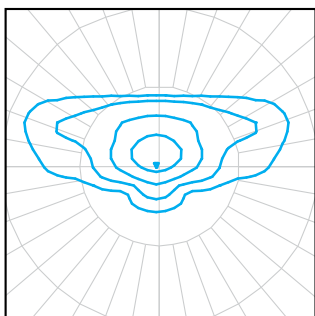
Color	Dominant or Peak Wavelength Range (nm)	
	Minimum	Maximum
Amber	585	600

IES DISTRIBUTIONS



T2 OPTIC

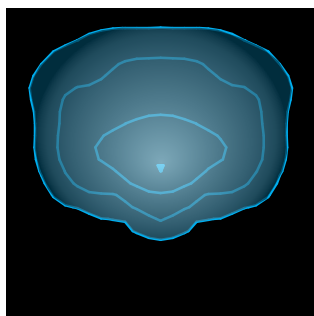
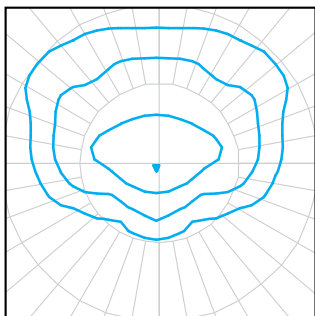
The Type II distribution is used for narrow pathways and trails, narrow entrances of shopping centers, parking lots and office complex's.



T3 OPTIC

The type III distribution is meant for roadway lighting, general parking areas and other areas where a larger area of lighting is required. Type III lighting needs to be placed to the side of the area, allowing the light to project outward and fill the area. This produces a filling light flow.

Type III light distributions have a preferred lateral width of 40 degrees. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



T4 OPTIC

The type IV distribution produces a semicircular light meant for mounting on the sides of buildings and walls. It's best for illuminating the perimeter of parking areas and businesses. The intensity of the Type IV lighting has the same intensity at angles from 90 degrees to 270 degrees.

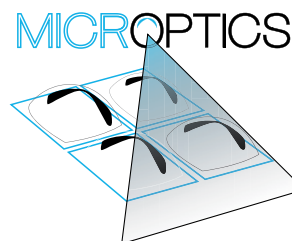
Type IV light distributions have a preferred lateral width of 60 degrees. This distribution is intended for side-of-road mounting and is generally used on wide roadways where the roadway width does not exceed 3.7 times the mounting height.

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

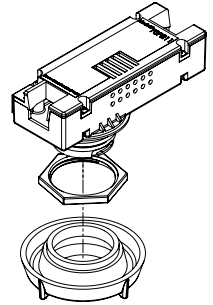


PRODUCT SPECIFICATIONS

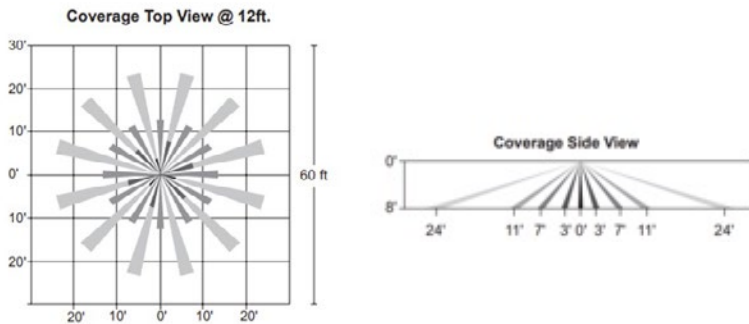
FSP-211 WITH MOTION SENSOR (FSP-XX)

- 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-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.
- FSIR-100 commissioning remote is required to change sensor settings. Please contact factory for ordering.

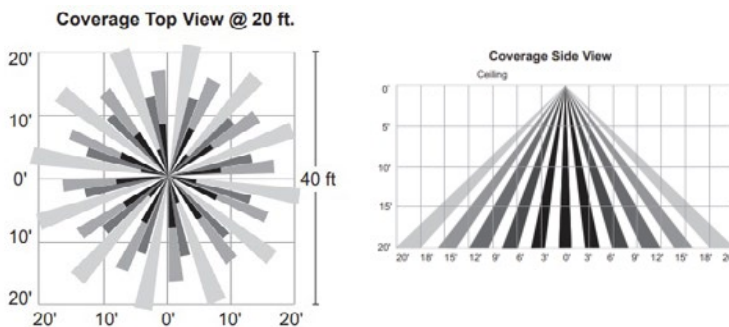
FSP-211



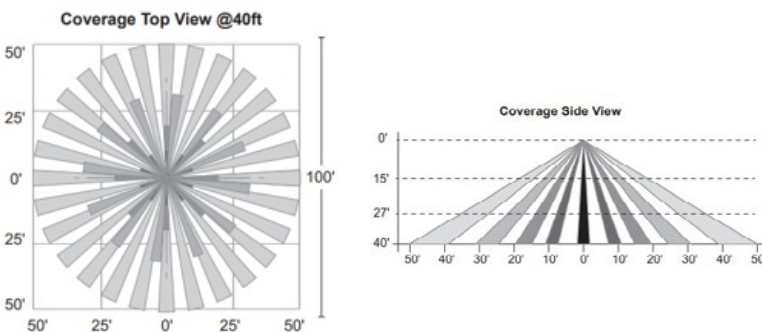
FSP-8



FSP-20



FSP-40



SENSOR SPECIFICATION

