



LED WATTAGE CHART

Drive Current	16L
425 milliamps	22W (1208-2147 Lumens)
530 milliamps	28W (1829-3251 Lumens)
700 milliamps	37W (2415-4294 Lumens)
850 milliamps	43W (2933-5214 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, T5
- 0-10V Dimming Drivers THD @ Max Load < 15% Power factor @ Max Load < 0.95
- Amber, 2700K, 3000K, 3500K, 4000K, or 5000K
- 16L LED Configuration
- CRI 70, 80, or 90
- 5 Mils Powder Coat
- Up to 5,214 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 - 1 CEILING MOUNT ORDERING GUIDE

Cat#	Light Dist.	# of LEDs	Miliamps	Kelvin	Volts
Organix - 1 Ceiling Mount (ORX-1)	Type 2 (T2)	16 (16L)	425 (42)	Amber 585-600nM (AMBER) 2, 4, 7, 10	120-277 (UNV)
	Type 3 (T3)		530 (53)	2700K, 70 CRI (27K7) 7	
	Type 4 (T4)		700 (7)	2700K, 80 CRI (27K8) 1, 7	
	Type 5 (T5)		850 (85)	3000K, 70 CRI (30K7) 7	
				3000K, 80 CRI (30K8) 1, 7	
				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	
Ceiling Mount (CM)	Bronze Textured (BRZ)	Microwave Motion Sensor (MMS) 6, 9	Marine Grade Finish (MGF)	Clear Tempered Glass Lens (CTG)	
	White Textured (WHT)	Microwave Motion Sensor Custom Setting (MMS-CST) 2, 6	House Side Shield (HSS) 8	Diffused Polycarbonate Visual Comfort Lens (DPCL) 2	
	Smooth White Gloss (SWT)	Emergency Battery 4W (EM4) 6	Tamper Proof Hardware (TPH)	HAL Lens (HAL) 2	
	Silver Metallic (SVR)	Custom Controls Integration (CCI) 3	Bird Shroud (BSC) 2		
	Black Textured (BLK)		Buy American Act (BAA) 5		
	Smooth Black Gloss (SBK)		Trade Agreement Act (TAA) 5		
	Graphite Textured (GPH)		Build America Buy American (BABA) 5		
	Grey Textured (GRY)				
	Green Textured (GRN)				
	Hunter Green Textured (HGN)				
Custom (CS)					

NOTES:

1. Consult Factory For Lead Time. Consult Factory For 90 CRI Requests.
2. Consult Factory
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. MMS and EM4 are not available in the same fixture
7. 3000K or lower, with fixed mounting options only, must be selected to meet International Dark-Sky Association certification.
8. Not Available with Lens Options (VCA, VCS, DPCL, CTG)
9. MMS Setting - Occupancy: 100% Light Output.
After 30 Min No Occupancy: 10% Light Output.
For custom sensor settings, Please enter MMS-CST and Contact factory.
10. Not Available above 700mA.



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

nlsighting.com

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

- Microwave Motion Sensor
- Emergency Battery 4W
- 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

- 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.



701 Kingshill Place, Carson, CA 90746
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nslighting.com

PRODUCT SPECIFICATIONS

LUMEN CHART

Part Number	T4	LM/W	BUG	T3	LM/W	BUG	T2	LM/W	BUG	T5	LM/W	BUG	WATTAGE
ORX-1-CM-16L-425-27K7	2088	95	B1-U0-B1	2133	97	B1-U0-B1	2126	97	B1-U0-B1	2232	101	B2-U0-B1	22
ORX-1-CM-16L-425-27K8	1955	89	B1-U0-B1	1997	91	B1-U0-B1	1991	90	B1-U0-B1	2089	95	B2-U0-B1	22
ORX-1-CM-16L-425-30K8	2096	95	B1-U0-B1	2141	97	B1-U0-B1	2135	97	B1-U0-B1	2240	102	B2-U0-B1	22
ORX-1-CM-16L-425-30K7	2258	103	B1-U0-B1	2306	105	B1-U0-B1	2299	104	B1-U0-B1	2413	110	B2-U0-B1	22
ORX-1-CM-16L-425-35K8	2096	95	B1-U0-B1	2141	97	B1-U0-B1	2135	97	B1-U0-B1	2240	102	B2-U0-B1	22
ORX-1-CM-16L-425-40K8	2258	103	B1-U0-B1	2306	105	B1-U0-B1	2299	104	B1-U0-B1	2413	110	B2-U0-B1	22
ORX-1-CM-16L-425-40K7	2440	111	B1-U0-B1	2492	113	B1-U0-B1	2484	113	B1-U0-B1	2607	119	B2-U0-B1	22
ORX-1-CM-16L-425-50K8	2258	103	B1-U0-B1	2306	105	B1-U0-B1	2299	104	B1-U0-B1	2413	110	B2-U0-B1	22
ORX-1-CM-16L-425-50K7	2440	111	B1-U0-B1	2492	113	B1-U0-B1	2484	113	B1-U0-B1	2607	119	B2-U0-B1	22
ORX-1-CM-16L-530-27K7	2604	93	B1-U0-B1	2660	95	B1-U0-B1	2652	95	B1-U0-B1	2783	99	B2-U0-B1	28
ORX-1-CM-16L-530-27K8	2438	87	B1-U0-B1	2490	89	B1-U0-B1	2483	89	B1-U0-B1	2606	93	B2-U0-B1	28
ORX-1-CM-16L-530-30K8	2614	93	B1-U0-B1	2670	95	B1-U0-B1	2662	95	B1-U0-B1	2794	100	B2-U0-B1	28
ORX-1-CM-16L-530-30K7	2816	101	B1-U0-B1	2876	103	B1-U0-B1	2867	102	B1-U0-B1	3009	107	B2-U0-B1	28
ORX-1-CM-16L-530-35K8	2614	93	B1-U0-B1	2670	95	B1-U0-B1	2662	95	B1-U0-B1	2794	100	B2-U0-B1	28
ORX-1-CM-16L-530-40K8	2816	101	B1-U0-B1	2876	103	B1-U0-B1	2867	102	B1-U0-B1	3009	107	B2-U0-B1	28
ORX-1-CM-16L-530-40K7	3042	109	B1-U0-B1	3107	111	B1-U0-B1	3098	111	B1-U0-B1	3251	116	B2-U0-B1	28
ORX-1-CM-16L-530-50K8	2816	101	B1-U0-B1	2876	103	B1-U0-B1	2867	102	B1-U0-B1	3009	107	B2-U0-B1	28
ORX-1-CM-16L-530-50K7	3042	109	B1-U0-B1	3107	111	B1-U0-B1	3098	111	B1-U0-B1	3251	116	B2-U0-B1	28
ORX-1-CM-16L-700-27K7	3439	93	B1-U0-B1	3513	95	B1-U0-B1	3502	95	B1-U0-B1	3676	99	B2-U0-B1	37
ORX-1-CM-16L-700-27K8	3220	87	B1-U0-B1	3289	89	B1-U0-B1	3279	89	B1-U0-B1	3442	93	B2-U0-B1	37
ORX-1-CM-16L-700-30K8	3453	93	B1-U0-B1	3526	95	B1-U0-B1	3516	95	B1-U0-B1	3690	100	B2-U0-B1	37
ORX-1-CM-16L-700-30K7	3719	101	B1-U0-B1	3798	103	B1-U0-B1	3786	102	B1-U0-B1	3974	107	B3-U0-B1	37
ORX-1-CM-16L-700-35K8	3453	93	B1-U0-B1	3526	95	B1-U0-B1	3516	95	B1-U0-B1	3690	100	B2-U0-B1	37
ORX-1-CM-16L-700-40K8	3719	101	B1-U0-B1	3798	103	B1-U0-B1	3786	102	B1-U0-B1	3974	107	B3-U0-B1	37
ORX-1-CM-16L-700-40K7	4018	109	B1-U0-B1	4104	111	B1-U0-B1	4091	111	B1-U0-B1	4294	116	B3-U0-B1	37
ORX-1-CM-16L-700-50K8	3719	101	B1-U0-B1	3798	103	B1-U0-B1	3786	102	B1-U0-B1	3974	107	B3-U0-B1	37
ORX-1-CM-16L-700-50K7	4018	109	B1-U0-B1	4104	111	B1-U0-B1	4091	111	B1-U0-B1	4294	116	B3-U0-B1	37
ORX-1-CM-16L-850-27K7	4176	97	B1-U0-B1	4265	99	B1-U0-B1	4253	99	B1-U0-B1	4463	104	B3-U0-B1	43
ORX-1-CM-16L-850-27K8	3910	91	B1-U0-B1	3994	93	B1-U0-B1	3982	93	B1-U0-B1	4179	97	B3-U0-B1	43
ORX-1-CM-16L-850-30K8	4193	98	B1-U0-B1	4282	100	B1-U0-B1	4269	99	B1-U0-B1	4481	104	B3-U0-B1	43
ORX-1-CM-16L-850-30K7	4516	105	B1-U0-B1	4612	107	B1-U0-B1	4598	107	B1-U0-B1	4826	112	B3-U0-B1	43
ORX-1-CM-16L-850-35K8	4193	98	B1-U0-B1	4282	100	B1-U0-B1	4269	99	B1-U0-B1	4481	104	B3-U0-B1	43
ORX-1-CM-16L-850-40K8	4516	105	B1-U0-B1	4612	107	B1-U0-B1	4598	107	B1-U0-B1	4826	112	B3-U0-B1	43
ORX-1-CM-16L-850-40K7	4879	113	B1-U0-B1	4983	116	B1-U0-B1	4968	116	B1-U0-B1	5214	121	B3-U0-B1	43
ORX-1-CM-16L-850-50K8	4516	105	B1-U0-B1	4612	107	B1-U0-B1	4598	107	B1-U0-B1	4826	112	B3-U0-B1	43
ORX-1-CM-16L-850-50K7	4879	113	B1-U0-B1	4983	116	B1-U0-B1	4968	116	B1-U0-B1	5214	121	B3-U0-B1	43

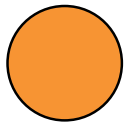
3000K or lower, with fixed mounting options only, must be selected to meet International Dark Sky Association Certification

Lumen Maintenance Data

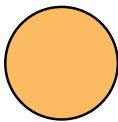
Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,000 Hours*	100,000 Hours**
25°C	Up to 700mA	58,000	173,000	95.7%	91.6%	89.6%	82.1%
	850mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%

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

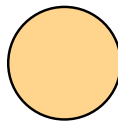
LED KELVIN RANGE



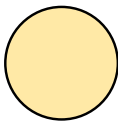
AMBER
585-600 nm



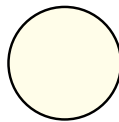
2700K 70 CRI



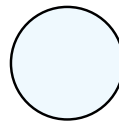
3000K 70 CRI



3500K 80 CRI



4000K 70 CRI



5000K 70 CRI

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

PRODUCT SPECIFICATIONS

B.U.G. RATING CHART

Part Number	T2 B.U.G.	T3 B.U.G.	T4 B.U.G.	T5 B.U.G.	T5 Diffused B.U.G.	WATTS
ORX-1-CM-16L-425-27K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	22
ORX-1-CM-16L-425-27K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	22
ORX-1-CM-16L-425-30K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	22
ORX-1-CM-16L-425-30K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	22
ORX-1-CM-16L-425-35K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	22
ORX-1-CM-16L-425-40K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	22
ORX-1-CM-16L-425-40K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	22
ORX-1-CM-16L-425-50K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	22
ORX-1-CM-16L-425-50K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	22
ORX-1-CM-16L-530-27K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	28
ORX-1-CM-16L-530-27K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G0	28
ORX-1-CM-16L-530-30K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	28
ORX-1-CM-16L-530-30K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	28
ORX-1-CM-16L-530-35K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	28
ORX-1-CM-16L-530-40K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	28
ORX-1-CM-16L-530-40K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	28
ORX-1-CM-16L-530-50K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	28
ORX-1-CM-16L-530-50K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	28
ORX-1-CM-16L-700-27K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	37
ORX-1-CM-16L-700-27K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	37
ORX-1-CM-16L-700-30K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	37
ORX-1-CM-16L-700-30K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	37
ORX-1-CM-16L-700-35K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B2-U0-B1	B1-U0-G1	37
ORX-1-CM-16L-700-40K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	37
ORX-1-CM-16L-700-40K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	37
ORX-1-CM-16L-700-50K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	37
ORX-1-CM-16L-700-50K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	37
ORX-1-CM-16L-850-27K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	43
ORX-1-CM-16L-850-27K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	43
ORX-1-CM-16L-850-30K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	43
ORX-1-CM-16L-850-30K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	43
ORX-1-CM-16L-850-35K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	43
ORX-1-CM-16L-850-40K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	43
ORX-1-CM-16L-850-40K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	43
ORX-1-CM-16L-850-50K8	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	43
ORX-1-CM-16L-850-50K7	B1-U0-B1	B1-U0-B1	B1-U0-B1	B3-U0-B1	B1-U0-G1	43

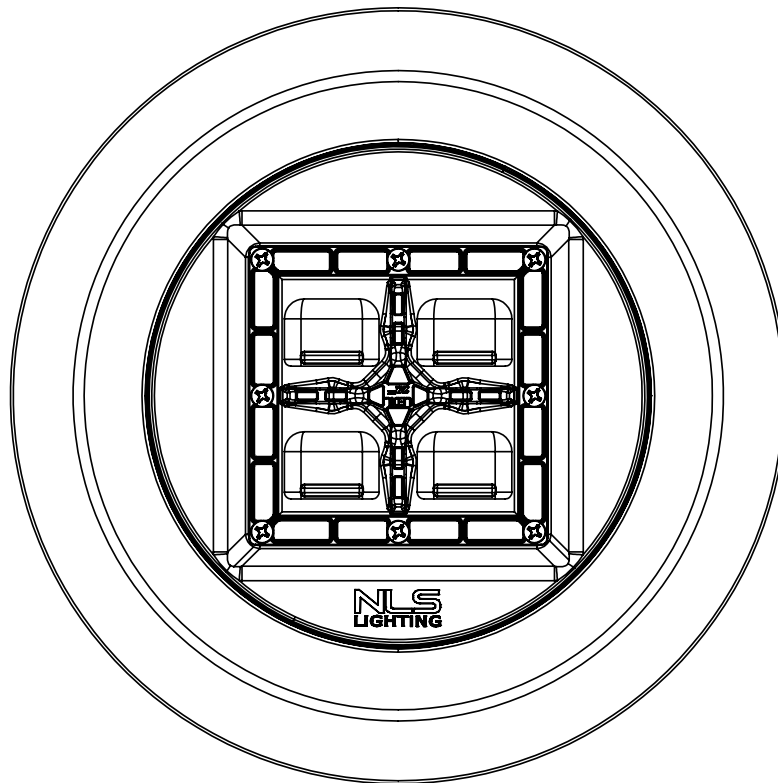
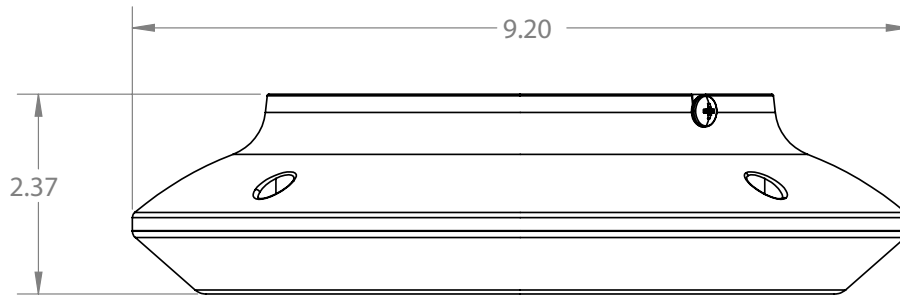


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PRODUCT SPECIFICATIONS

MODEL	WIDTH	HEIGHT	WEIGHT
ORX-PG1	9.20"	2.37"	4 LBS



SCAN FOR INSTALLATION INSTRUCTIONS



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PRODUCT SPECIFICATIONS

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 mil 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

3-5 mil Powder Coat

Primer Layer

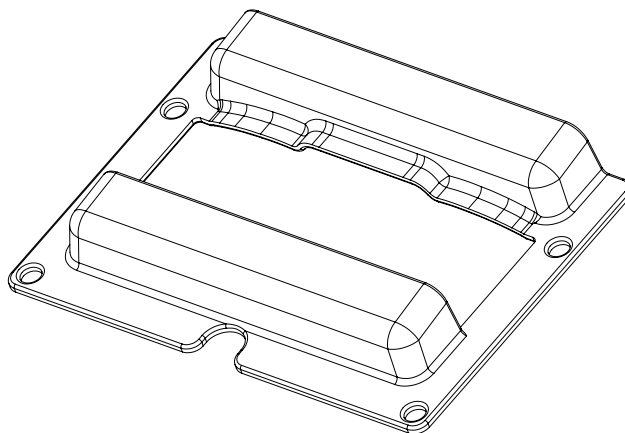
3-5 mil Zinc Rich Super Durable Polyester Primer

Prepared Casting

Chemically washed in multi Step 5 stage cleaning process

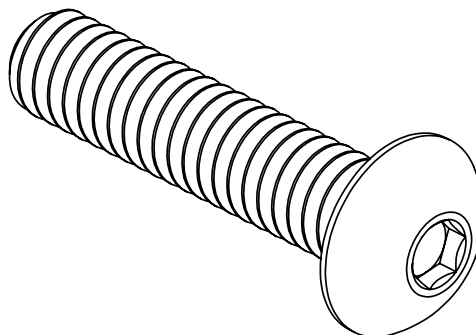
HOUSE SIDE SHIELD (HSS)

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

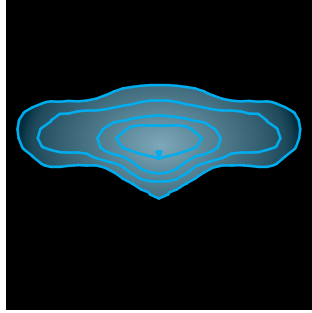
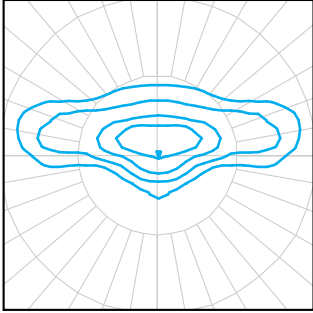


TAMPER PROOF HARDWARE

316 Stainless Steel Button Head Hex Drive Screws. Provided to protect the optical assembly and the driver compartment for vandal resistance.

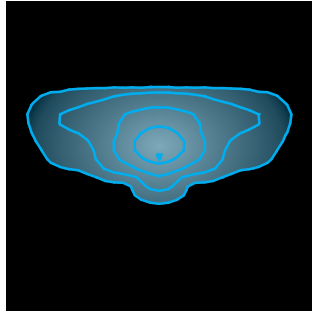
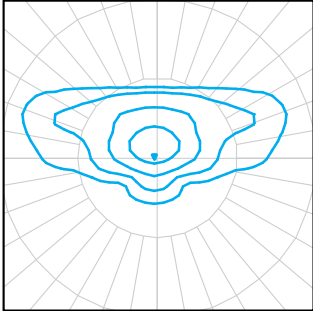


IES DISTRIBUTIONS



T2 OPTIC

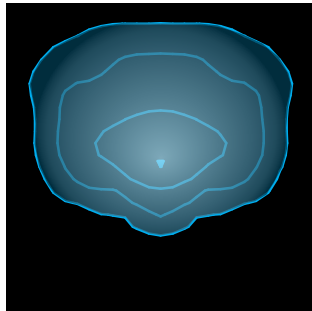
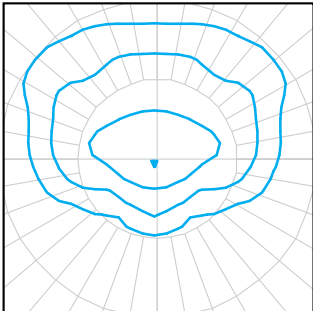
The Type II distribution is used for narrow pathways and trails, narrow entrances of shopping centers, parking lots and office complex's.



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.

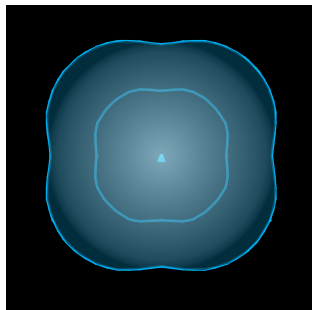
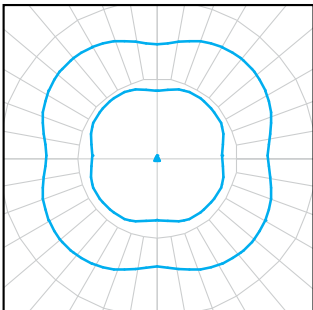
Type III light distributions have a preferred lateral width of 40 degrees. This distribution is intended for luminaires mounted at or near the side of medium width roadways or areas, where the width of the roadway or area does not exceed 2.75 times the mounting height.



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.



T5 OPTIC - SYMMETRICAL

Type V produces a symmetrical distribution that has the same intensity at all angles. This distribution has a uniform symmetry of candlepower that is essentially the same at all lateral angles. It is meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary.

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

