



LED WATTAGE CHART

Drive Current	16L
425 milliamps	22W (2016-2539 Lumens)
530 milliamps	28W (2465-3104 Lumens)
700 milliamps	37W (3271-4120 Lumens)
850 milliamps	43W (4283-5028 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 and 15°, 30°, 55° 85°
- 0-10V Dimming Drivers THD @ Max Load < 15% Power factor @ Max Load < 0.95
- 2700K, 3000K, 3500K, 4000K, or 5000K
- 4 Static LED Color Options
- 16L LED Configuration
- CRI 70, 80, or 90
- 5 Mills Powder Coat

RELIABILITY





- 5 Year Standard Warranty
- Silicone Micro Optics
- IP67 Optics
- IP66 Fixture
- IK10 Rated Optics



Project Name:

Type:

ORGANIX - F1 ORDERING GUIDE

Cat#	Optics	# of LEDs	Watts	Kelvin	Volts	
Organix - Flood (ORX-F1)	15° Very Narrow (15)⁸	16 (16L)	22W (22W)¹	2700K, 70 CRI (27K7)	Red 624-634nm (RED)¹ 	120-277 (UNV)
	30° Narrow Beam (30)⁸		28W (28W)¹	2700K, 80 CRI (27K8)²		
	55° Medium Beam (55)		37W (37W)	3000K, 70 CRI (30K7)	Amber 585-600nm (AMBER)^{1, 6, 9, 10} 	
	85° Wide Beam (85)		43W (43W)	3000K, 80 CRI (30K8)²	Green 520-540nm (GREEN)¹ 	
	IES T2 / NEMA 7Hx5V (T2)			3500K, 80 CRI (35K8)		
	IES T3 / NEMA 7Hx6V (T3)			4000K, 70 CRI (40K7)	Royal Blue 440-460nm (BLUE)¹ 	
	Forward Throw (T4)			4000K, 80 CRI (40K8)²		
	Symmetrical (T5)			5000K, 70 CRI (50K7)		
				5000K, 80 CRI (50K8)²		

Mounting	Mounting Accessories	Color	Control Options	Options	
Knuckle Mount (KM)	Stanchion Caps	Bronze Textured (BRZ)	Custom Controls Integration (CCI)⁵	5 Conductor Dimming Leads (DL)	
	Stanchion Cap for Knuckle Mount (KMS2)	12" Length (STP12)		White Textured (WHT)	Marine Grade Finish (MGF)
	2-3/8" ID Stanchion Cap	24" Length (STP24)		Smooth White Gloss (SWT)	Black Optic Frame (BOF)
	Stanchion Cap for Knuckle Mount (KMS3)⁴	36" Length (STP36)		Silver Metallic (SVR)	Tamper Proof Hardware (TPH)
	With 3" ID Stanchion Cap	Custom Length (STPX)		Black Textured (BLK)	Buy American Act (BAA)⁷
	Stanchion Cap for Knuckle Mount (KMS4)	Universal Magic Mount (UMM)		Smooth Black Gloss (SBK)	Trade Agreement Act (TAA)⁷
	With 4" ID Stanchion Cap	<i>UMM Must be ordered with KM</i>		Graphite Textured (GPH)	Build America Buy American (BABA)⁷
		4" Round J-Box Mount for Knuckle (JBRK)		Grey Textured (GRY)	Visor Accessory (VR)
		No Mounting Accessories (NA)		Green Textured (GRN)	Clear Tempered Glass Lens (CTG)¹²
				Hunter Green Textured (HGN)	Diffused Polycarbonate Visual Comfort Lens (DPCL)¹²
		Custom (CS)	HAL Lens (HAL)^{10, 11, 12}		

NOTES:

- Static Colors Consult Factory
- Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- Universal Voltage 120-277
- STP Must be ordered with KMS3
- Please Contact Factory for Custom Control Integration requests (nLight, NX, WaveLinx, Crestron, DMX/RDM, Synapse, Casambi, Dali II, Avi-On, or other control systems)
- Turtle Safe
- Consult Factory for all BAA/TAA/BABA requests
- Not Available with Lens Option
- Not Available above 22W
- Consult Factory for Lead Time
- HAL Lens: Yellow Polycarbonate Lens - less than 2% Blue Light Content
- 37W Max for Lens Options



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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 IP66 compartment
- CRI 70, 80 or 90
- Color temperatures: 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

- 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

- TAMPER PROOF HARDWARE - Provided to protect the optical assembly and the driver compartment for vandal resistance.
- 5 CONDUCTOR DIMMING LEADS—Standard Dimming Leads exiting the fixture for external dimming control.
- 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.
- BLACK OPTIC FRAME (BOF) - Optional black optic frame. (includes black hardware) Standard is white

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://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.

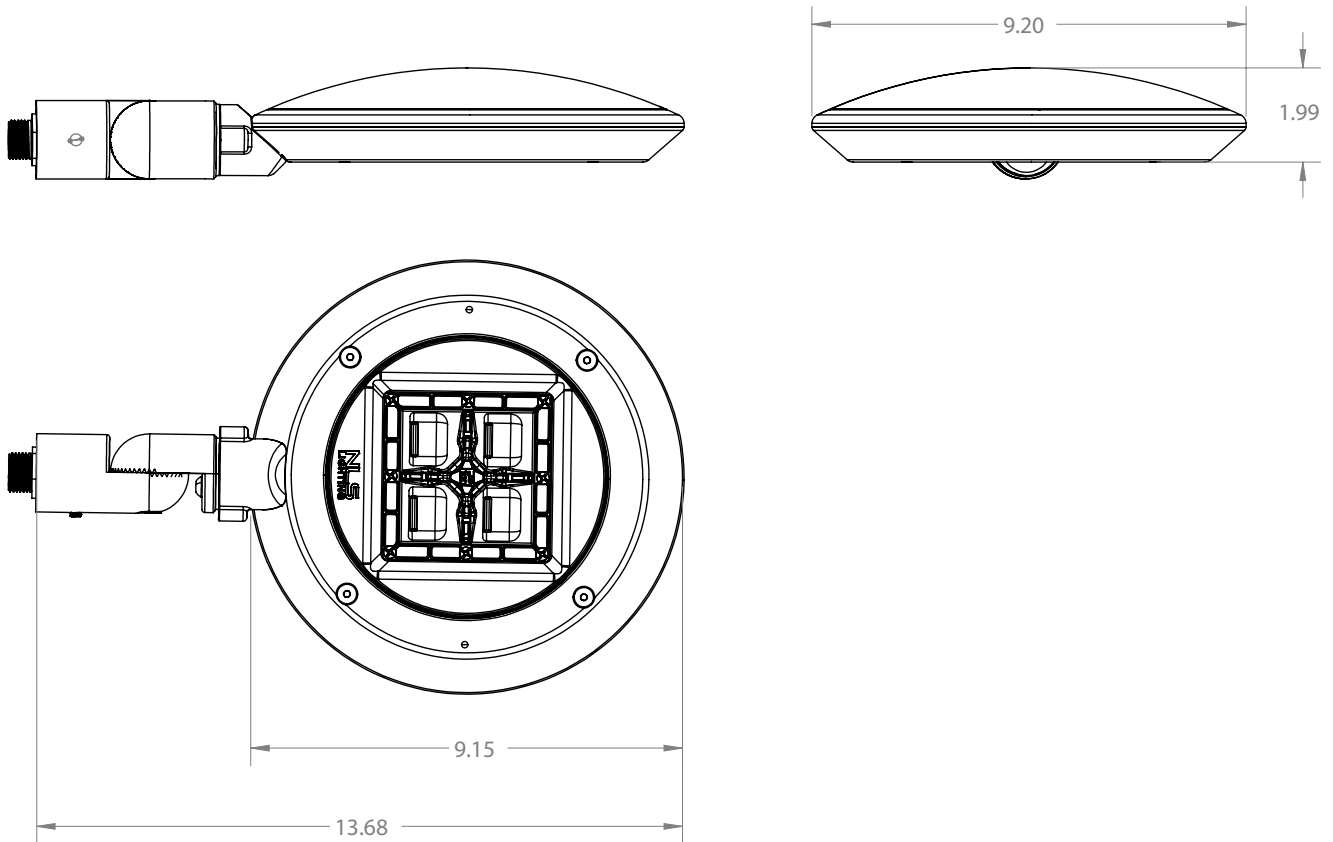
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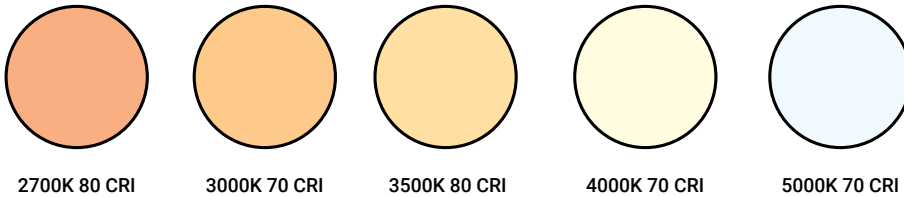
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PRODUCT SPECIFICATIONS

MODEL	WIDTH	HEIGHT	WEIGHT	EPA
ORX-F1	9.20"	2"	4 LBS	.05ft³

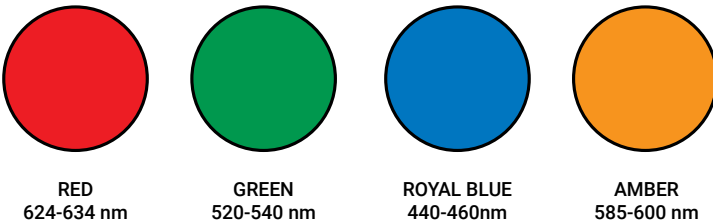


LED KELVIN RANGE



2700K 80 CRI 3000K 70 CRI 3500K 80 CRI 4000K 70 CRI 5000K 70 CRI

STATIC COLOR LED



RED 624-634 nm **GREEN** 520-540 nm **ROYAL BLUE** 440-460nm **AMBER** 585-600 nm

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

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%
	1000mA	48,000	143,000	94.3%	89.5%	87.2%	78.5%
*Reported extrapolations per IESNA TM-21				**Projected extrapolations per IESNA TM-21			
Lumen Maintenance Data (For Static Colors, Please Contact Factory)							



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PRODUCT SPECIFICATIONS

LUMEN CHART

Part Number	15°	LM/W	30°	LM/W	55°	LM/W	85°	LM/W	T2	LM/W	T3	LM/W	T4	LM/W	T5	LM/W	WATTS
ORX-F1-16L-425-27K7	1684	77	1704	77	1774	81	1837	83	1902	86	1908	87	1868	85	1997	91	22
ORX-F1-16L-425-27K8	1577	72	1596	73	1661	75	1720	78	1781	81	1787	81	1749	80	1870	85	22
ORX-F1-16L-425-30K8	1690	77	1711	78	1781	81	1844	84	1910	87	1916	87	1876	85	2004	91	22
ORX-F1-16L-425-30K7	1821	83	1842	84	1918	87	1986	90	2057	93	2063	94	2020	92	2159	98	22
ORX-F1-16L-425-35K8	1690	77	1711	78	1781	81	1844	84	1910	87	1916	87	1876	85	2004	91	22
ORX-F1-16L-425-40K8	1821	83	1842	84	1918	87	1986	90	2057	93	2063	94	2020	92	2159	98	22
ORX-F1-16L-425-40K7	1967	89	1991	90	2072	94	2146	98	2223	101	2229	101	2183	99	2333	106	22
ORX-F1-16L-425-50K8	1821	83	1842	84	1918	87	1986	90	2057	93	2063	94	2020	92	2159	98	22
ORX-F1-16L-425-50K7	1967	89	1991	90	2072	94	2146	98	2223	101	2229	101	2183	99	2333	106	22
ORX-F1-16L-530-27K7	2100	75	2125	76	2212	79	2291	82	2372	85	2380	85	2330	83	2490	89	28
ORX-F1-16L-530-27K8	1966	70	1990	71	2071	74	2145	77	2221	79	2228	80	2182	78	2331	83	28
ORX-F1-16L-530-30K8	2108	75	2133	76	2221	79	2300	82	2382	85	2389	85	2339	84	2500	89	28
ORX-F1-16L-530-30K7	2270	81	2298	82	2392	85	2477	88	2565	92	2573	92	2519	90	2692	96	28
ORX-F1-16L-530-35K8	2108	75	2133	76	2221	79	2300	82	2382	85	2389	85	2339	84	2500	89	28
ORX-F1-16L-530-40K8	2270	81	2298	82	2392	85	2477	88	2565	92	2573	92	2519	90	2692	96	28
ORX-F1-16L-530-40K7	2453	88	2483	89	2584	92	2676	96	2772	99	2780	99	2722	97	2909	104	28
ORX-F1-16L-530-50K8	2270	81	2298	82	2392	85	2477	88	2565	92	2573	92	2519	90	2692	96	28
ORX-F1-16L-530-50K7	2453	88	2483	89	2584	92	2676	96	2772	99	2780	99	2722	97	2909	104	28
ORX-F1-16L-700-27K7	2773	75	2807	76	2922	79	3026	82	3133	85	3143	85	3077	83	3289	89	37
ORX-F1-16L-700-27K8	2597	70	2628	71	2736	74	2833	77	2934	79	2943	80	2881	78	3079	83	37
ORX-F1-16L-700-30K8	2784	75	2818	76	2933	79	3037	82	3146	85	3155	85	3089	83	3301	89	37
ORX-F1-16L-700-30K7	2999	81	3035	82	3159	85	3271	88	3388	92	3398	92	3327	90	3556	96	37
ORX-F1-16L-700-35K8	2784	75	2818	76	2933	79	3037	82	3146	85	3155	85	3089	83	3301	89	37
ORX-F1-16L-700-40K8	2999	81	3035	82	3159	85	3271	88	3388	92	3398	92	3327	90	3556	96	37
ORX-F1-16L-700-40K7	3240	88	3279	89	3413	92	3535	96	3661	99	3672	99	3595	97	3842	104	37
ORX-F1-16L-700-50K8	2999	81	3035	82	3159	85	3271	88	3388	92	3398	92	3327	90	3556	96	37
ORX-F1-16L-700-50K7	3240	88	3279	89	3413	92	3535	96	3661	99	3672	99	3595	97	3842	104	37
ORX-F1-16L-850-27K7	3764	88	3809	89	3965	92	4106	95	4253	99	4265	99	4176	97	4463	104	43
ORX-F1-16L-850-27K8	3524	82	3567	83	3713	86	3845	89	3982	93	3994	93	3910	91	4179	97	43
ORX-F1-16L-850-30K8	3778	88	3824	89	3980	93	4122	96	4269	99	4282	100	4193	98	4481	104	43
ORX-F1-16L-850-30K7	4069	95	4118	96	4287	100	4440	103	4598	107	4612	107	4516	105	4826	112	43
ORX-F1-16L-850-35K8	3778	88	3824	89	3980	93	4122	96	4269	99	4282	100	4193	98	4481	104	43
ORX-F1-16L-850-40K8	4069	95	4118	96	4287	100	4440	103	4598	107	4612	107	4516	105	4826	112	43
ORX-F1-16L-850-40K7	4397	102	4450	103	4632	108	4797	112	4968	116	4983	116	4879	113	5214	121	43
ORX-F1-16L-850-50K8	4069	95	4118	96	4287	100	4440	103	4598	107	4612	107	4516	105	4826	112	43
ORX-F1-16L-850-50K7	4397	102	4450	103	4632	108	4797	112	4968	116	4983	116	4879	113	5214	121	43



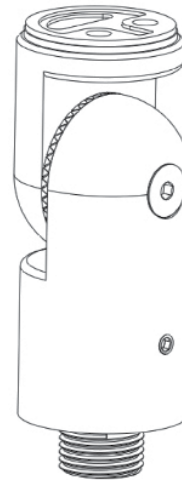
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PRODUCT SPECIFICATIONS

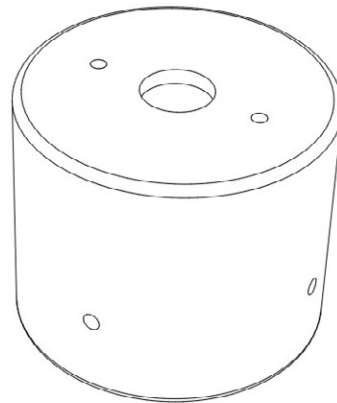
KNUCKLE MOUNT 1/2" NPT (KM)

(KM) Knuckle Mount has a 1/2" NPT nipple.



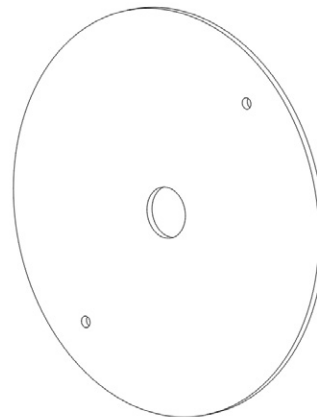
STANCHION CAP FOR KNUCKLE MOUNT

- (KMS2) Stanchion Cap fits over a 2 3/8" O.D. Tenon.
- (KMS3) Stanchion Cap fits over a 3" O.D. Tenon.
- (KMS4) Stanchion Cap fits over a 4" O.D. Tenon.



4" ROUND JBOX KNUCKLE MOUNT (JBRK)

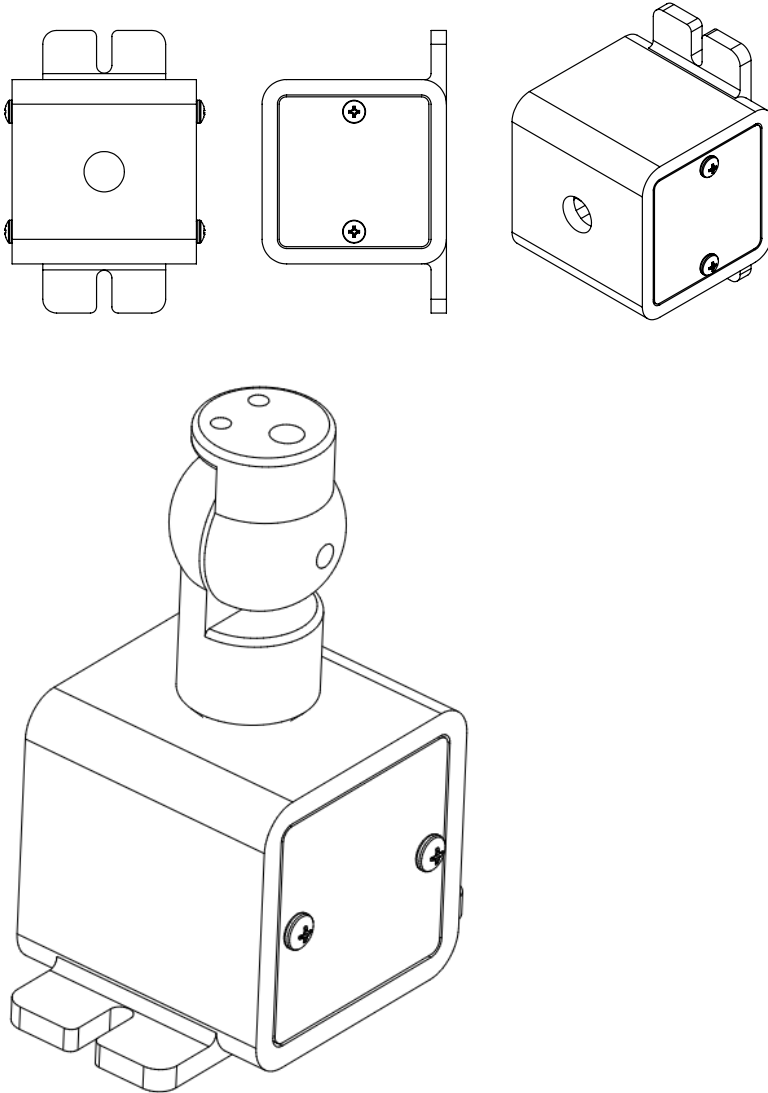
(JBRK) 4" Round J-Box cover plate mount.



PRODUCT SPECIFICATIONS

UNIVERSAL MAGIC MOUNT

The (UMM) allows Knuckle Mount for a single fixture and thru-conduit 1/2" or 3/4". The (UMM) was designed for universal mounting to walls, ceilings, trees, poles, parapets, and eaves.



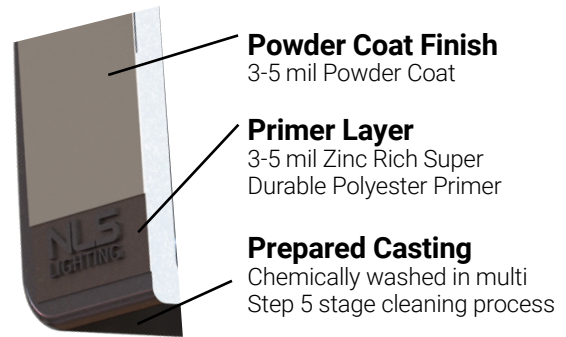
PRODUCT SPECIFICATIONS

FIXTURE FEATURES & OPTIONS

MARINE GRADE FINISH

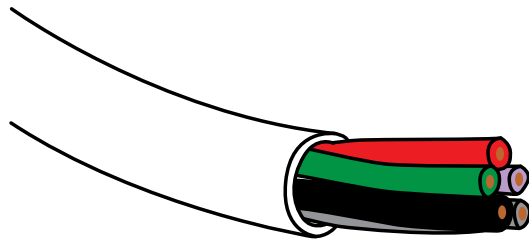
The (MGF) is a multi step process. Chemically washed in a 5 stage cleaning system. Pre-baked. Powder coated 3-5 mils of Zinc Rich Super Durable Polyester Primer. Oven Baked.

Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.



5 CONDUCTOR DIMMING LEADS

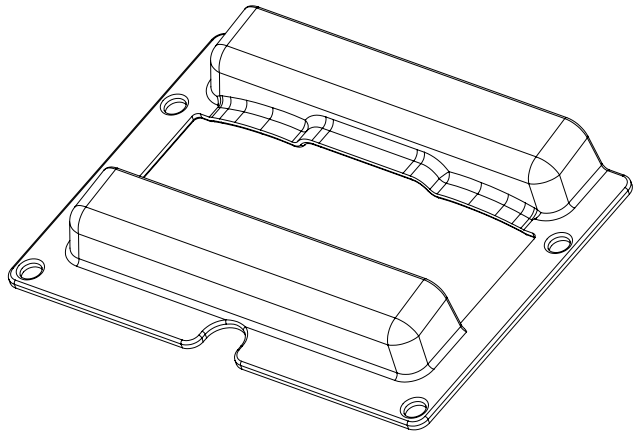
Standard Dimming Leads exiting the fixture for external dimming control.



PRODUCT SPECIFICATIONS

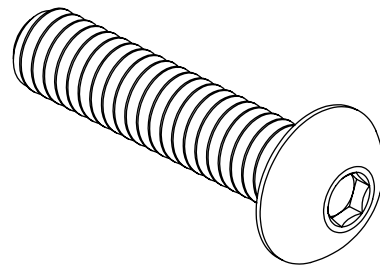
HOUSE SIDE SHIELD (HSS)

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.

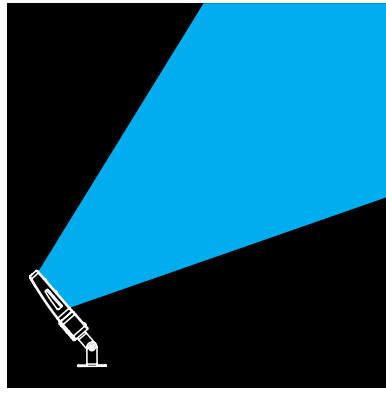
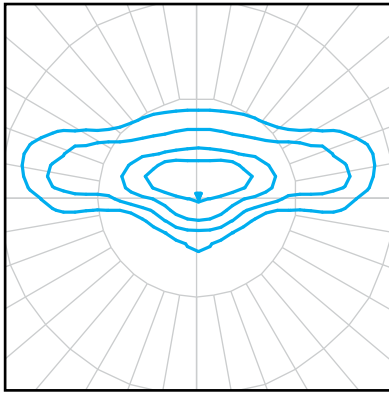


BLACK OPTIC FRAME

Optional Black Optic Frame (includes black hardware) Standard Optic Frame is white.

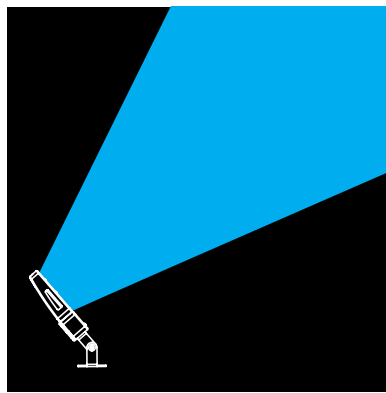
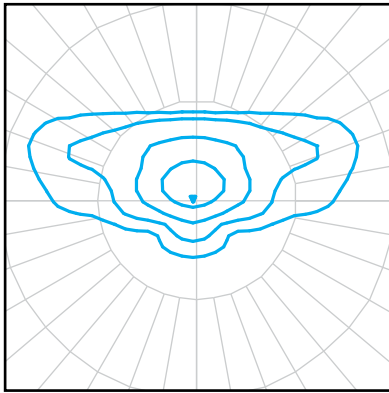


PRODUCT SPECIFICATIONS



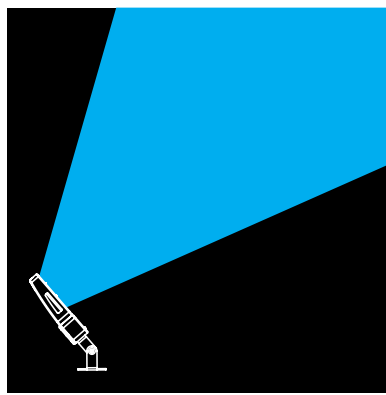
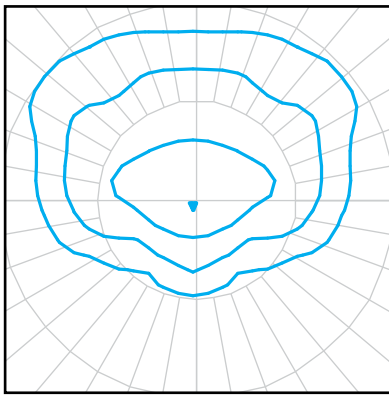
NEMA 7X5 T2 FLOOD OPTIC

The Type II (T2) distribution is used for narrow pathways and trails, narrow entrances of shopping centers, parking lots and office complexes.



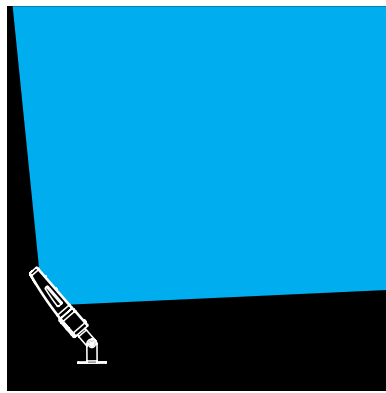
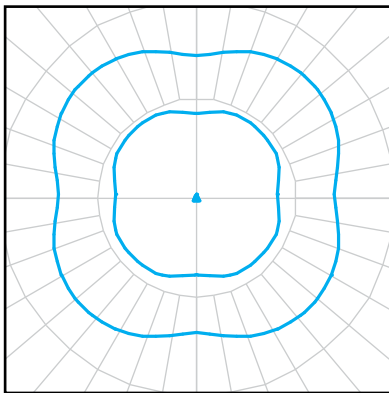
NEMA 7X6 T3 FLOOD OPTIC

The Type III (T3) 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.



NEMA 6X6 FORWARD THROW T4 FLOOD OPTIC

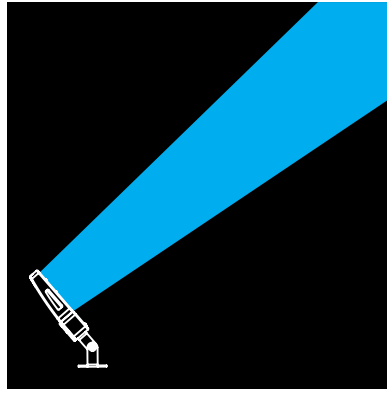
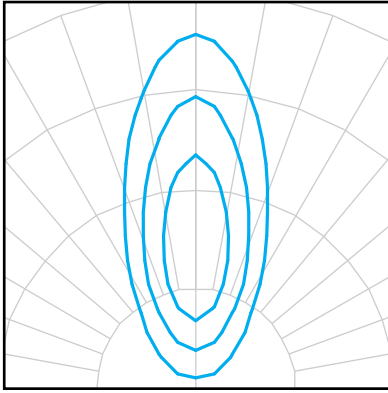
The Type IV (T4) distribution produces a semicircular light meant for mounting on the sides of buildings and walls. It is best for illuminating the perimeter of parking areas and businesses. The intensity of the Type IV lighting has the same intensity at angles from 90° to 270°.



NEMA 7X7 SYMMETRICAL T5 FLOOD OPTIC

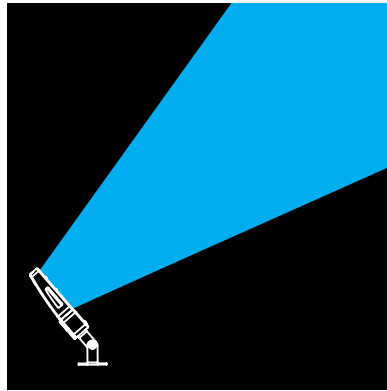
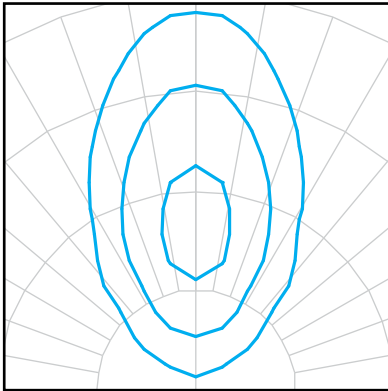
The Type V (T5) produces a symmetrical distribution that has the same intensity at all angles. This distribution has a uniform symmetry of candlepower that is essentially the same at all lateral angles. It is meant for large, commercial parking lot lighting as well as areas where sufficient, evenly distributed light is necessary.

PRODUCT SPECIFICATIONS



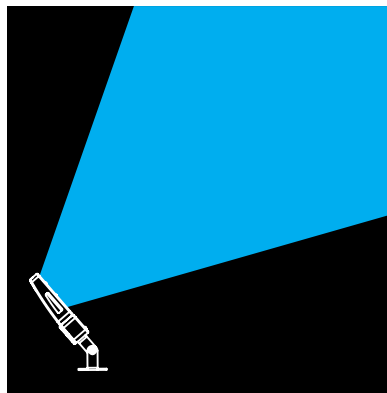
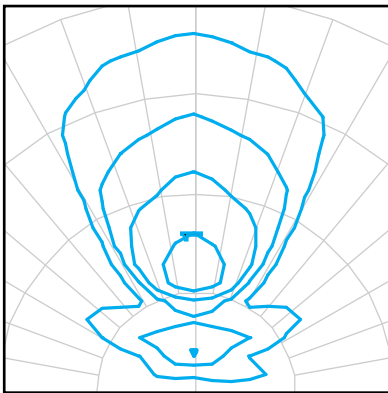
15° VERY NARROW BEAM OPTIC

The 15° Optic is used for very specific spot lighting. Spot Lighting a statue, a monument, or a piece of art. The NV Floods can be used indoors and outdoors. Pair the 15° Optic with the following Glare Control Options for more dramatic effect. Snoot Short (SNS), Snoot Long (SNL), or Egg Crate Louvers (ECL). These Glare Control Options help reduce glare and focus the viewing angles.



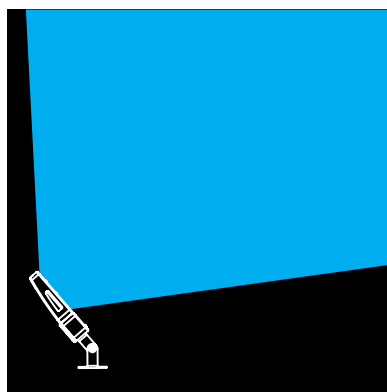
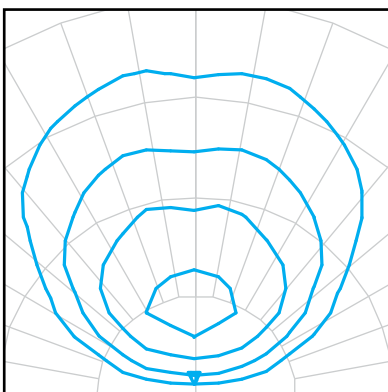
30° NARROW BEAM OPTIC

The 30° Optic is used for larger objects and for spot and accent lighting. The 30° is perfect for Flag Lighting, Facade Lighting and great for showcasing Car Dealerships, display pads. Pair the 30° Optic with the following Glare Control Options for more dramatic effect. Snoot Short (SNS), Snoot Long (SNL), or Egg Crate Louvers (ECL). These Glare Control Options help reduce glare and focus the viewing angle.



55° MEDIUM BEAM OPTIC

The 55° Optic is used for larger objects, flood lighting. The 55° is perfect for Facade Lighting, Landscape and general flood lighting. Pair the 55° Optic with the following Glare Control Options for more dramatic effect. Snoot Short (SNS), Angled Visor (AGV), These Glare Control Options help reduce glare and focus the beam angles.



85° WIDE FLOOD OPTIC

The 85° Optic is used for large area and accent lighting. The 85° is perfect for Security Lighting, general flood lighting and area lighting. Pair the 85° Optic with the following Glare Control Options for more dramatic effect. Snoot Small (SNS), Angled Visor (AGV), These Glare Control Options help reduce glare and shield unnecessary light.

PRODUCT SPECIFICATIONS

VISOR ACCESSORY (VR)

Visor Accessory cut off precision spot lighting.
Laser cut precision formed aluminum construction.
Powder Coated flat black as standard.

