

QUICKSHIPFLASH

THE MOST FLEXIBLE QUICK SHIP PROGRAM

FORM AND FUNCTION

- Sleek, die-cast low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Reduces energy consumption and costs up to 65%

RELIABILITY

- IP66 Rated
- Silicone Optics
- IK10 Rated Optics

The innovative NV Flood Series is a high-powered, corrosion resistant, low copper, die-cast aluminum luminaire.

Thermal management is handled with a separate driver housing and LED light engine heat-sink. Heat-sink cooling fins are designed with a thermal gap for longer LED/Driver life.

The NV-F1 comes in a single 16L configuration with 5 Kelvin color temperatures 2700K, 3000K, 3500K, 4000K and 5000K.

Silicone optical distribution patterns include 15° Very Narrow Beam, 30° Narrow Beam, 55° Medium Beam, 85° Wide beam, 7X5 NEMA T2 Distribution, 7X6 T3 NEMA Distribution, Forward Throw NEMA 6X6 T4, and a Symmetrical NEMA 7X7 T5.

Mounting options include 1/2" NPT Knuckle Mount or Trunnion Mount.

Applications include:

- Sign Lighting
- Building Facades
- Landscape
- Wall Washing
- Up Lighting
- Security Lighting
 - Residential
 - Commercial

IP66 Rated for any direction or angle of Flood Lighting.

- Parking
- Flag Pole
- Merchandising
- Billboard
- Indirect Lighting
- Display Pad
- Transportation



Project Name:

Type:

FLX-NV-F1 ORDERING GUIDE

Cat#	Optics	No. of LEDs	Watts	Kelvin Temp	Volts
SHIP FLEX NVF Single Module (FLX-NV-F1)	15° (15) Very Narrow	16 (16L)	20W (20W)	3000K (30K)	120-277 (UNV)
	30° (30) Narrow Beam		25W (25W)	4000K (40K)	
	55° (55) Medium Beam		35W (35W)	5000K (50K)	
	85° (85) Wide Beam		45W (45W)		
	IES T2 / NEMA 7Hx5V (T2)				
	IES T3 / NEMA 7Hx6V (T3)				
	Forward Throw (T4)				
	Symmetrical (T5)				
Mounting	Color	Options			
*Knuckle Mount *1/2" NPT (KM)	Bronze Textured (BRZ)	Button Photocell (PC)			
Trunnion Mount (TM)	Black Textured (BLK)	* Universal Voltage 120-277			

CONSTRUCTION

Precision Die cast-aluminum housing for durability and consistency

Stainless Steel corrosion resistant external hardware

One-piece silicone gasket ensures IP-65 seal for electronics compartment

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.

Distribution patterns are designed to provide maximum light spread for short set backs when lighting signs and washing walls.

FINISH

3-5 mils electrostatic powder coat.

NLS' standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

MOUNTING OPTIONS

KNUCKLE MOUNT (KM)—1/2" NPT for direct mount to many options.

TRUNNION MOUNT (TM)—Optional Stainless Steel Cord Seal

ADDITIONAL FEATURES

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.

ELECTRICAL

120-277 Volts (UNV)

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

LED

Lumileds Luxeon MX LED

CRI >70 MIN.

Color temperatures: 3000K, 4000K, 5000K

Lumileds Luxeon CZ LED

WARRANTY

Five-year standard warranty

LISTINGS

Certified to UL 1598

UL 8750

CSA C22.2 No. 250.0

IP66 Rated

IP67 Rated Optics

IK10 Rated



FLX-NV-F1 Product Specifications

LED WATTAGE CHART	16L	
425mA	20W	
530mA	25W	
700mA	35W	
850mA	45W	

NV-F1

PART NUMBER	15°	LM/W	30°	LM/W	55°	LM/W	85°	LM/W	7X5	LM/W	7X6	LM/W	T4	LM/W	T5	LM/W	W
NV-F1-16L-20W-30K	2400	120	2240	112	2200	110	2600	130	2540	127	2580	129	2580	129	2540	127	20
NV-F1-16L-20W-40K	2680	134	2440	122	2420	121	2760	138	2700	135	2720	136	2740	137	2700	135	20
NV-F1-16L-20W-50K	2680	134	2440	122	2420	121	2760	138	2700	135	2720	136	2740	137	2700	135	20
NV-F1-16L-25W-30K	3000	120	2800	112	2750	110	3175	127	3125	125	3150	126	3150	126	3125	125	25
NV-F1-16L-25W-40K	3350	134	3025	121	3025	121	3375	135	3325	133	3350	134	3350	134	3300	132	25
NV-F1-16L-25W-50K	3350	134	3175	127	3025	121	3375	135	3325	133	3350	134	3350	134	3300	132	25
NV-F1-16L-35W-30K	4200	120	3920	112	3850	110	4270	122	4200	120	4235	121	4235	121	4165	119	35
NV-F1-16L-35W-40K	4690	134	4235	121	4235	121	4550	130	4445	127	4480	128	4480	128	4445	127	35
NV-F1-16L-35W-50K	4690	134	4445	127	4235	121	4550	130	4445	127	4480	128	4480	128	4445	127	35
NV-F1-16L-45W-30K	5400	120	5040	112	4950	110	5265	117	5175	115	5220	116	5220	116	5130	114	45
NV-F1-16L-45W-40K	6030	134	5445	121	5445	121	5580	124	5490	122	5490	122	5535	123	5445	121	45
NV-F1-16L-45W-50K	6030	134	5445	121	5445	121	5580	124	5490	122	5490	122	5535	123	5445	121	45

NV-F1 With Glare Control 15° Optic

PART NUMBER	15° Snoot Long	Lm/W	15° Snoot Short	Lm/W	WATTS
NV-F1-16L-20W-30K	2060	103	2320	116	20
NV-F1-16L-20W-40K	2220	111	2500	125	20
NV-F1-16L-20W-50K	2360	118	2600	130	20
NV-F1-16L-25W-30K	2575	103	2900	116	25
NV-F1-16L-25W-40K	2775	111	3125	125	25
NV-F1-16L-25W-50K	2950	118	3250	130	25
NV-F1-16L-35W-30K	3605	103	4060	116	35
NV-F1-16L-35W-40K	3885	111	4375	125	35
NV-F1-16L-35W-50K	4130	118	4550	130	35
NV-F1-16L-45W-30K	4635	103	5220	116	45
NV-F1-16L-45W-40K	4995	111	5625	125	45
NV-F1-16L-45W-50K	5310	118	5850	130	45

FLX-NV-F1 Product Specifications

NV-F1 With Glare Control 30° Optic

PART NUMBER	30° Egg Crate Louver	LM/W	30° Snoot Long	Lm/W	30° Snoot Short	Lm/W	WATTS
NV-F1-16L-20W-30K	1740	87	1760	88	2160	108	20
NV-F1-16L-20W-40K	1880	94	1900	95	2320	116	20
NV-F1-16L-20W-50K	1980	99	2000	100	2440	122	20
NV-F1-16L-25W-30K	2175	87	2200	88	2700	108	25
NV-F1-16L-25W-40K	2350	94	2375	95	2900	116	25
NV-F1-16L-25W-50K	2475	99	2500	100	3050	122	25
NV-F1-16L-35W-30K	3045	87	3080	88	3780	108	35
NV-F1-16L-35W-40K	3290	94	3325	95	4060	116	35
NV-F1-16L-35W-50K	3465	99	3500	100	4270	122	35
NV-F1-16L-45W-30K	3915	87	3960	88	4860	108	45
NV-F1-16L-45W-40K	4230	94	4275	95	5220	116	45
NV-F1-16L-45W-50K	4455	99	4500	100	5490	122	45



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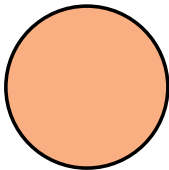
NV-F1 Product Specifications

TEMP.	NV-F1 L70/L90 DATA	
	L70 (16L - 850mA)	L90 (16L - 850mA)
25°C	481,000	160,000

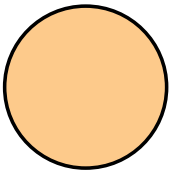
EPA	NV-F1
	.33

Weight	NV-F1
	3.1 LBS

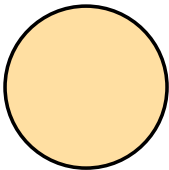
LED KELVIN RANGE



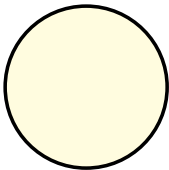
2700K



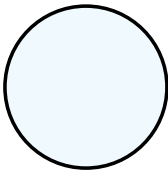
3000K



3500K



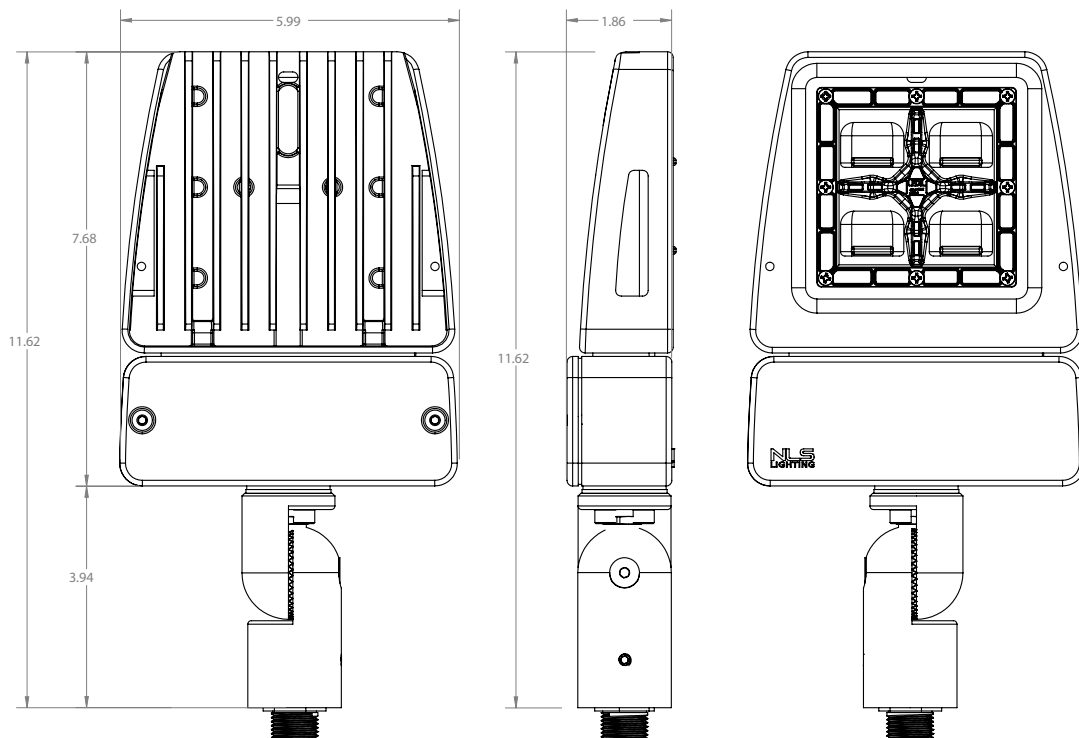
4000K



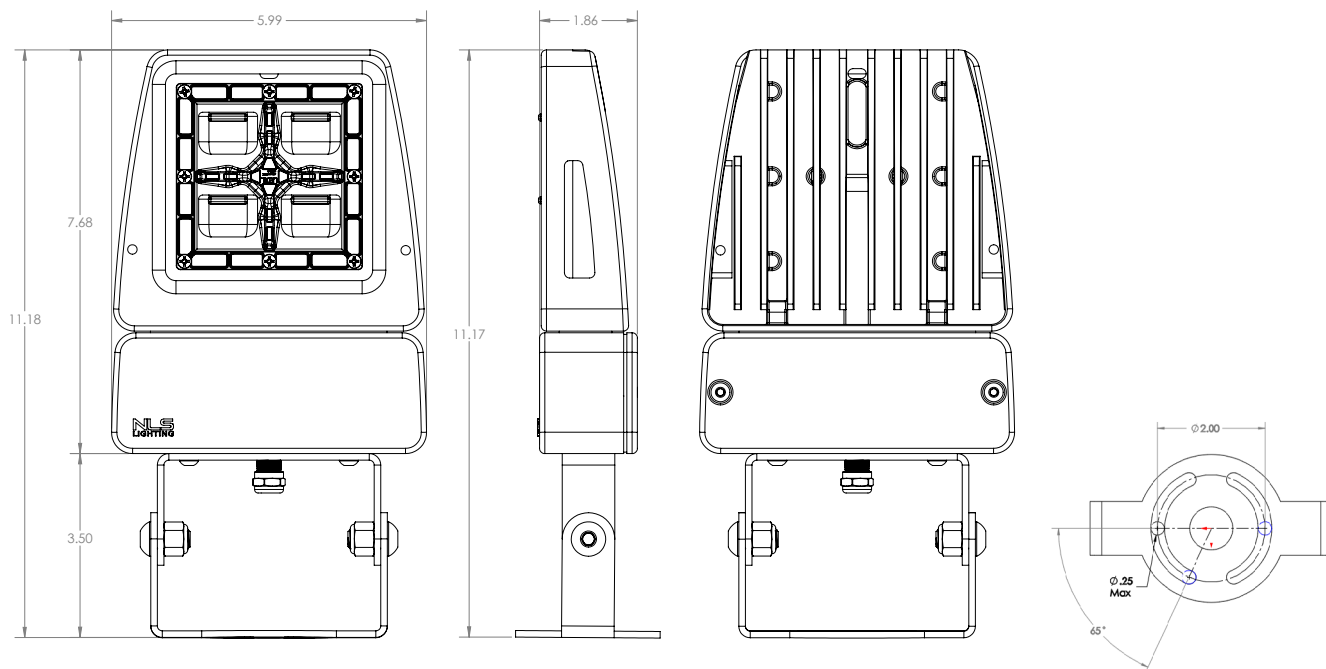
5000K

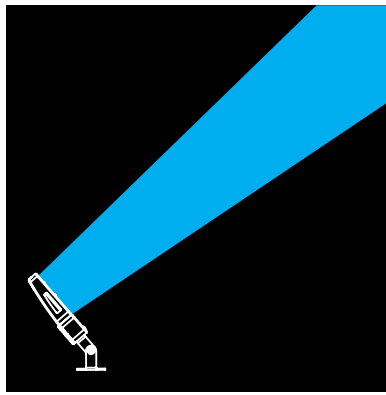
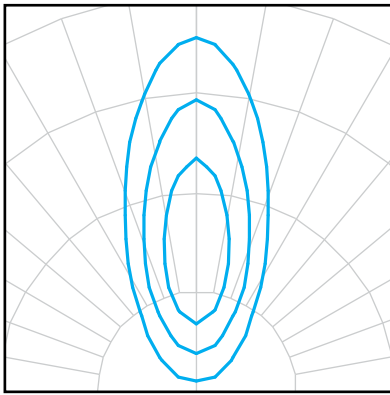
DIMENSIONAL DRAWINGS

KNUCKLE MOUNT



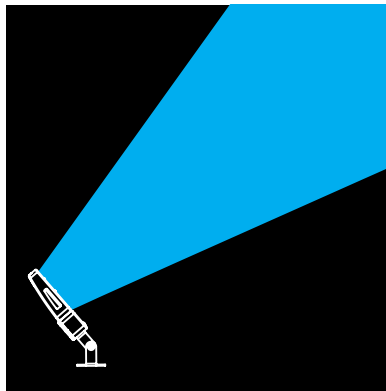
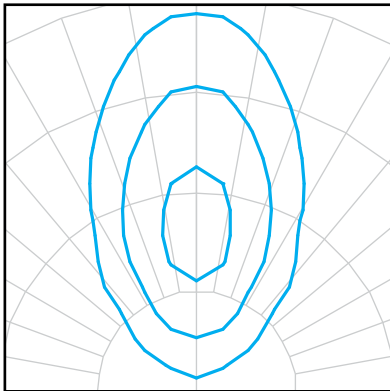
TRUNNION MOUNT





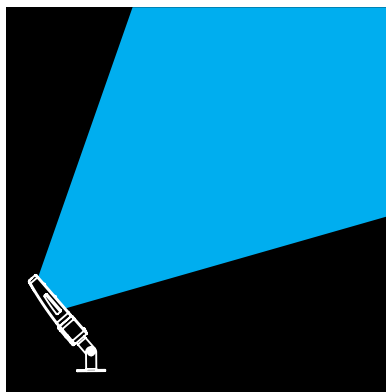
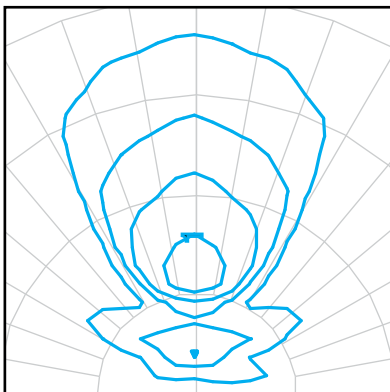
15° Very Narrow Beam Optic

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.



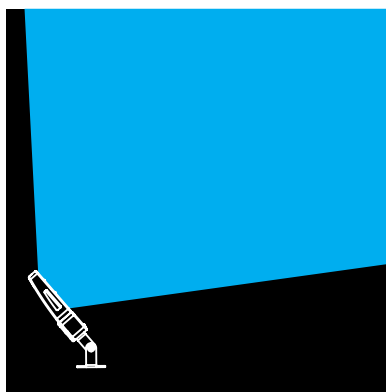
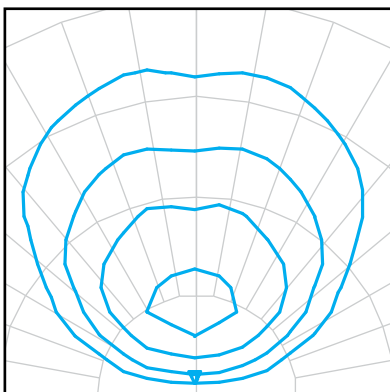
30° Narrow Beam Optic

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.



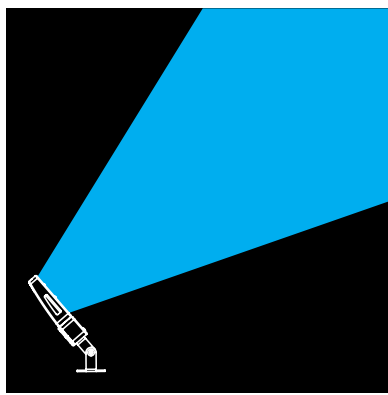
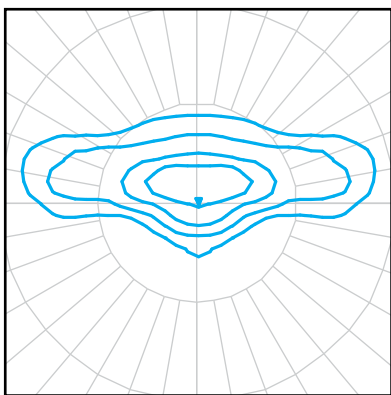
55° Medium Beam Optic

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.



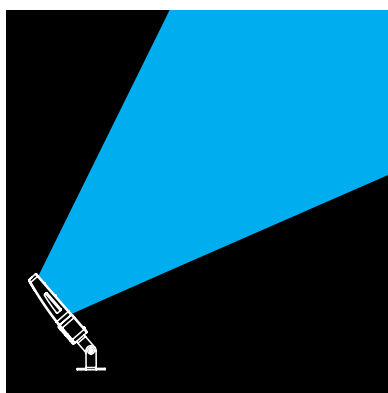
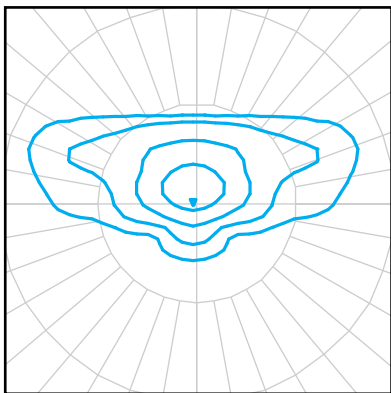
85° Wide Flood Optic

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.



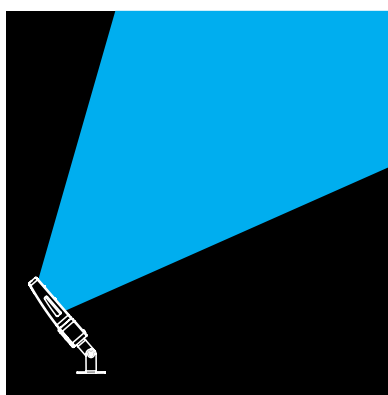
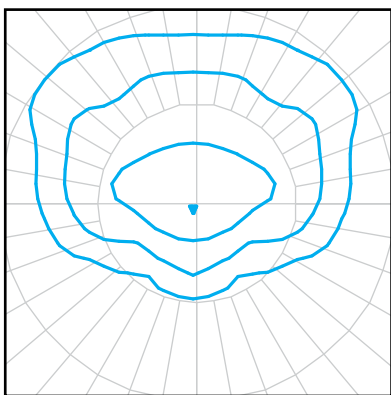
NEMA 7X5 T2 Flood Optic

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



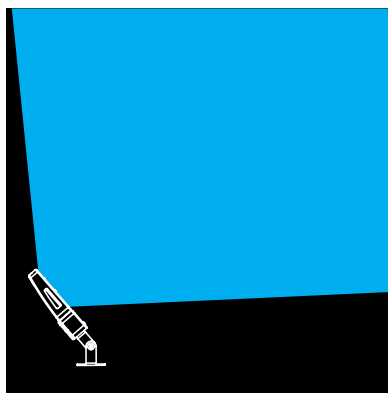
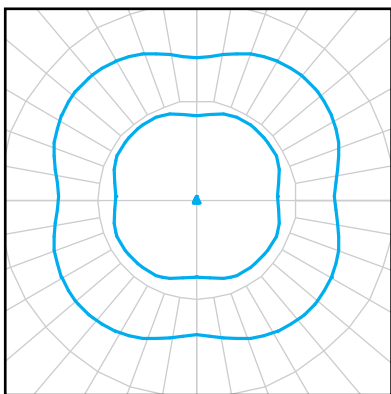
NEMA 7X6 T3 Flood Optic

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°.

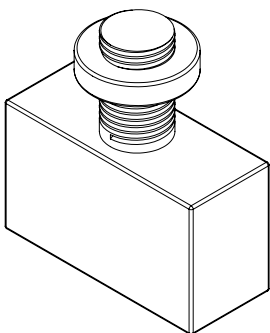


NEMA 7X7 Symmetrical T5 Flood Optic

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.

FIXTURE OPTIONS

BUTTON PHOTOCELL



Button Type Photo Cell (PC)

Photo Cell for dusk to dawn operation.

MARINE GRADE FINISH



Powder Coat Finish

3-5mm Powder Coat

Primer Layer

3-5mm Zinc Rich
Super Durable Polyester Primer

Prepared Casting

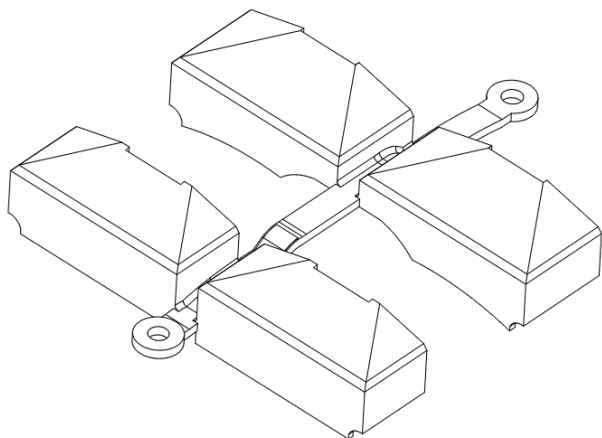
Chemically washed in multi Step 5 stage
cleaning process

Marine Grade Finish (MGF)

The **(MGF)** is a multi step process.
Chemically washed in a 5 stage clean-
ing 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)

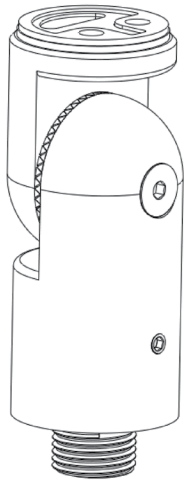


House Side Shield (HSS)

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

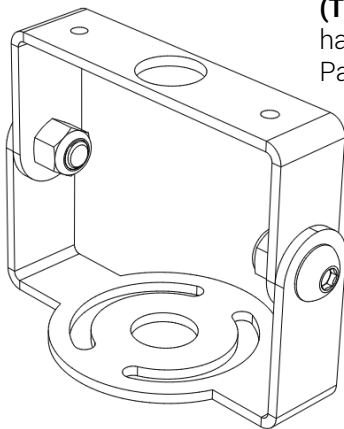
MOUNTING OPTIONS

KNUCKLE MOUNT 1/2" NPT (KM)



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

TRUNNION MOUNT (TM)



(TM) Trunnion Mount has a universal Mounting Pattern.