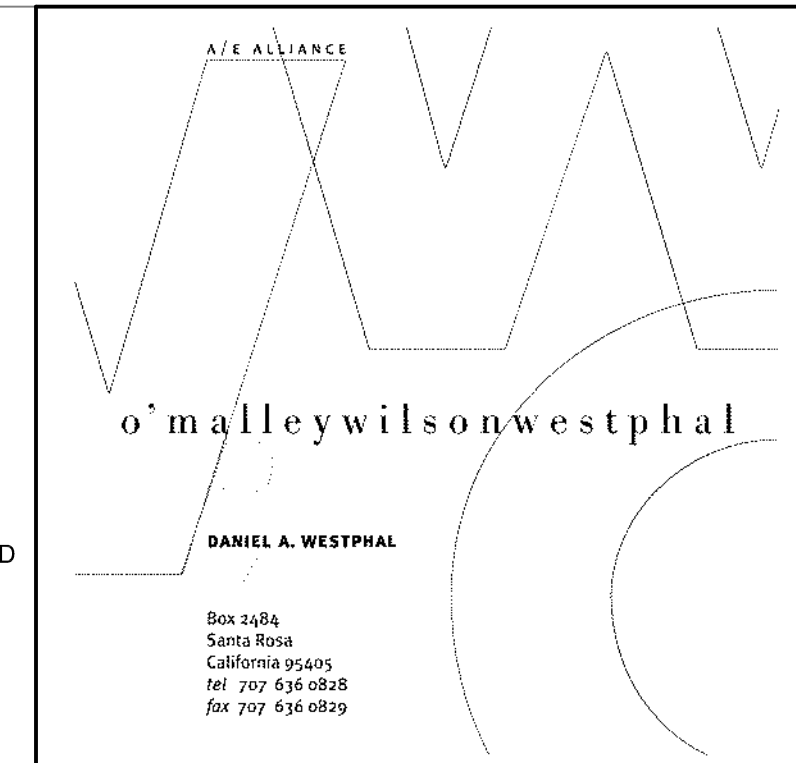


LIGHTING SITE PLAN
SCALE: 1"=20'-0"

LIGHTING SCHEDULE

- SYMBOL DESCRIPTION**
- ◆ PATH LIGHT
 - ◻ POLE LIGHT
 - WALL LIGHT
 - * CATENARY
 - ⊞ WALL LIGHT
 - ⊞ FLOOD LIGHT

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER AND MODEL	DESCRIPTION	LAMP TYPE	DRIVER TYPE	WATTS PER FIXTURE	VOLTAGE
A3	NLS LIGHTING - NV-1 #NV-1-T3-32L-1-30K8	PARKING LOT LED POLE MOUNTED FIXTURE, TYPE 3 DISTRIBUTION, 14FT POLE WITH 2FT POLE BASE, HEAD HEIGHT AT 16FT	LED 3000K 12000LM	0-10V	106W	120
A4	NLS LIGHTING - NV-1 #NV-1-T4-32L-1-30K8	PARKING LOT LED POLE MOUNTED FIXTURE, TYPE 4 DISTRIBUTION, 14FT POLE WITH 2FT POLE BASE, HEAD HEIGHT AT 16FT	LED 3000K 12000LM	0-10V	106W	120
A5	NLS LIGHTING - NV-1 #NV-1-T5-32L-1-30K8	PARKING LOT LED POLE MOUNTED FIXTURE, TYPE 5 DISTRIBUTION, 14FT POLE WITH 2FT POLE BASE, HEAD HEIGHT AT 16FT	LED 3000K 12000LM	0-10V	106W	120
B3	NLS LIGHTING - NLS-NV-W #NV-W-T3-16L-1-300K-UNV-WM	WALL MOUNTED LED FLOOD LIGHT, TYPE 3 DISTRIBUTION	LED 3000K 1050LM	0-10V	56W	120
B4	NLS LIGHTING - NLS-NV-W #NV-W-T4-16L-1-300K-UNV-WM	WALL MOUNTED LED FLOOD LIGHT, TYPE 4 DISTRIBUTION	LED 3000K 1050LM	0-10V	56W	120
C	CURRENT LIGHTING - LUMINATION #LRX-R4-10-8-30-MD	LED DOWNLIGHT	LED 3000K 1000LM	0-10V	13W	120
D	FXLLIMINAIR - PO #PO - 1LED-WW	LED GARDEN PATHWAY LIGHTS	LED 2700K 39LM	PWM / PHASE	2W	15
E1	LANDSCAPE FORMS - TUMBLER #TML-16-A-1-F	WALL MOUNTED FLOOD LED FIXTURE	LED 3000K 1000LM	N/A	42W	120
E2	LANDSCAPE FORMS - TUMBLER #TML-16-A-1-TV-C	CATENARY LED FIXTURE	LED 3000K 1000LM	N/A	42W	120
F	WE-EF LIGHTING #C70-1323-15-2700	BOLLARD	LED 3000K 1323LM	N/A	15W	120
G	HOLM - DCREST-9 #DCST-9-SC-L07-K30-FL-LS-BZ	STREET SIGN LIGHT	LED 3000K 616LM	PHASE	9.9W	120
H	HOLM - DCREST-9 #DCST-9-SC-L07-K30-SP-LS-BZ	ENTRY SIGN LIGHT	LED 3000K 585LM	PHASE	9.9W	120



CONSULTANTS

SUMMIT
Summit Engineering, Inc
575 W College Ave., Suite 201 • Santa Rosa, CA 95401
707-527-0775 • www.summit-sr.com

SEAL

CERES COMMUNITY PROJECT

CULINARY FACILITY

1255 Apollo Way
Santa Rosa, CA 95407

DATE:	2022-10-19
PROJECT NUMBER:	2022176
PROJECT PHASE:	DESIGN REVIEW
DRAWN BY:	AS
CHECKED BY:	NP

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O'Malley Wilson Westphal, Inc.

SHEET TITLE

LIGHTING SITE PLAN

SHEET NUMBER

E-1.2

FORM AND FUNCTION

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
 - Parking Lots
 - Auto Dealerships
 - General Area Lighting

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

FINISH

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

WARRANTY

Five-year limited warranty for drivers and LEDs.



LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010
- IDA Dark Sky Approved



LED WATTAGE CHART

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name:

Type:

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV-1 (NV-1)	Type 2 (T2)	16 (16L)	350 (35)	2700K, 80 CRI (27K8) ^{①②}	120-277 (UNV)	Architectural Sweep Arm (ASA)	Bronze Textured (BRZ)	Bird Spikes (BS) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP) Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER) FSP-211 with Motion Sensor (FSP-20) ^④ 9'-20" Heights (FSP-40) ^④ 21'-40" Heights Quick Mount Bracket (QMB) Retrofit Mount Bracket (RQMB) Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5) Rotated Optic Left (ROL) Rotated Optic Right (ROR) Automotive House Side Shield (AHS) House Side Shield (HSS) ^⑤ Black Hardware (BH) Black Optic Frame (BOF)
	Type 3 (T3)	32 (32L)	530 (53)	3000K, 70 CRI (30K7) ^⑥	347-480 (HV)	Direct Pole 3" Arm Single, D180 (DPS3) ^②	White Textured (WHT)	
	Type 4 (T4)	48 (48L)	700 (7)	3000K, 80 CRI (30K8) ^{①③}		Direct Pole 7" Arm D180, D90, T90, T120, Quad (DPS7) ^②	Smooth White Gloss (SWT)	
	Type 5 (T5)	64 (64L)	1050 (1)	3500K, 80 CRI (35K8)		Knuckle Mount (KM)	Silver (SVR)	
	Nema 2 24° Narrow Beam (N2)			4000K, 70 CRI (40K7)		Wall Mount (WM)	Black Textured (BLK)	
Nema 3 30° Narrow Beam (N3)			4000K, 80 CRI (40K8) ^①		Trunnion Mount (TM) ^②	Smooth Black Gloss (SBK)		
			5000K, 70 CRI (50K7)		Tennis Arm (TA)	Graphite Textured (GPH)		
			5000K, 80 CRI (50K8) ^①		Mast Arm (MA)	Grey Textured (GRY)		
						Custom (CS)		

Notes:
 ① Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
 ② For Round Pole Specify RPA4 or RPA5
 ③ Standard finish is stainless steel. Can be painted to match fixture
 ④ Universal Voltage 120-277
 ⑤ HSS not applicable with Nema 2 and Nema 3 Optics
 ⑥ 3000K or warmer must be selected to meet International Dark-Sky Association certification.

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%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- CRI 70, 80 or 90
- Color temperatures: 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KVA supplied as standard.

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

OPTIONS

- BIRD SPIKES (BS)—Offers a practical and humane deterrent for larger bird species and provides a cost-effective long-term solution to nuisance bird infestations and protects your property.
- 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.
- SHIELDS (HSS, AHS)—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- OPTIC PLATE PAINTED TO MATCH FIXTURE (OPP)—Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.
- ROTATED OPTICS (ROL) (ROR)—Rotated optics are designed for perimeter lighting for auto dealerships.
- ROUND POLE ADAPTER (RPA)— When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.
- QUICK MOUNT BRACKET (QMB)—Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.
- RETROFIT MOUNT BRACKET— Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".
- BLACK HARDWARE— Optional black painted hardware.
- BLACK OPTIC FRAME

CONTROL OPTIONS

- 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-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.
- Controls Agnostics: Please contact factory for your preferred controls option.
- NEMA 7-PIN RECEPTACLE (PE7)—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCELL + RECEPTACLE (PCR)—7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER)—7-Pin Receptacle and Shorting Cap.

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

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

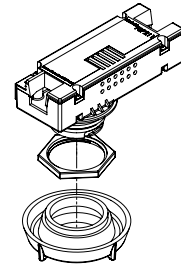
LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010

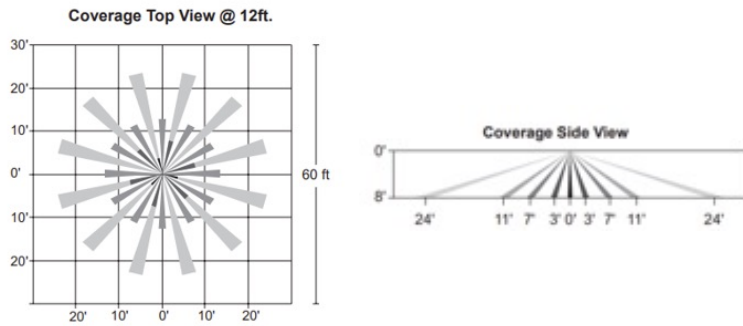
PRODUCT SPECIFICATIONS

CONTROLS

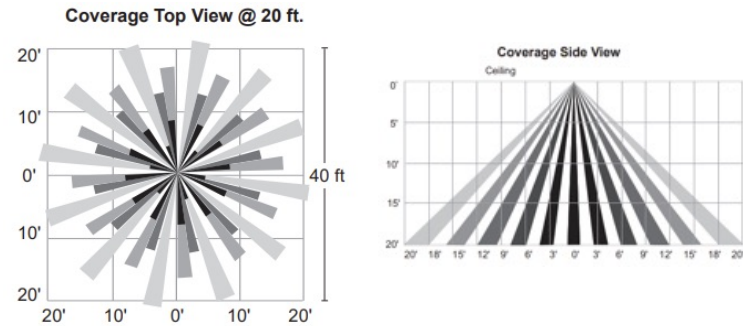
- **DIMMING CONTROL (FSP)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-8 mounting heights 8 feet and below
 - FSP-20 mounting 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.



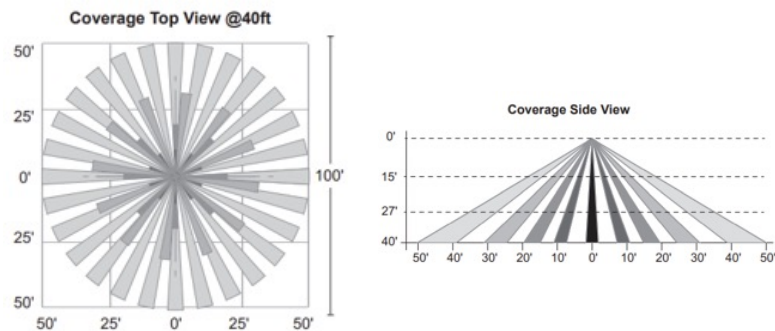
FSP-8



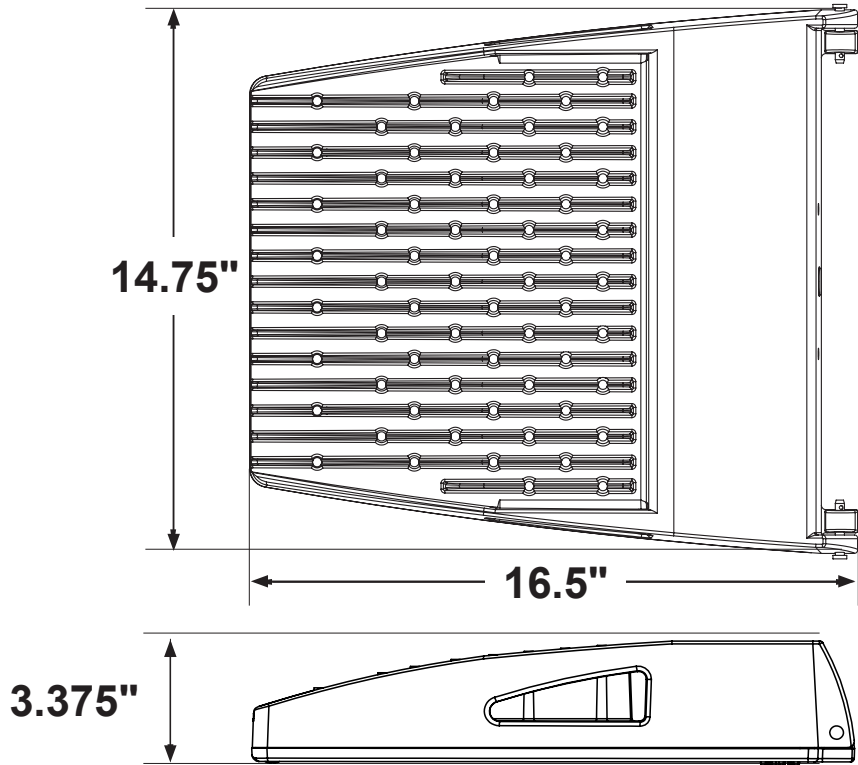
FSP-20



FSP-40



PRODUCT SPECIFICATIONS

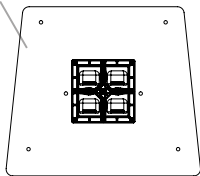


Weight: 24 lbs

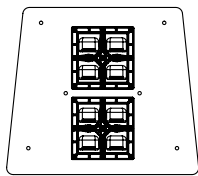
OPTICAL CONFIGURATIONS

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

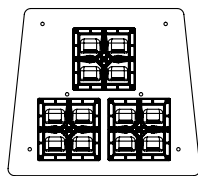
(OPP)



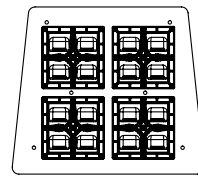
NV-1 / 16L



NV-1 / 32L



NV-1 / 48L



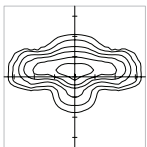
NV-1 / 64L

* **OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)**– Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

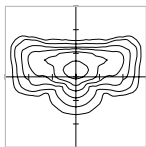
OPTICS

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.

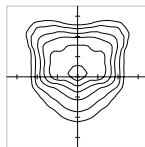
- IES Types



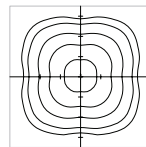
TYPE II (T2)



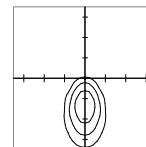
TYPE III (T3)



TYPE IV (T4)



TYPE V (T5)

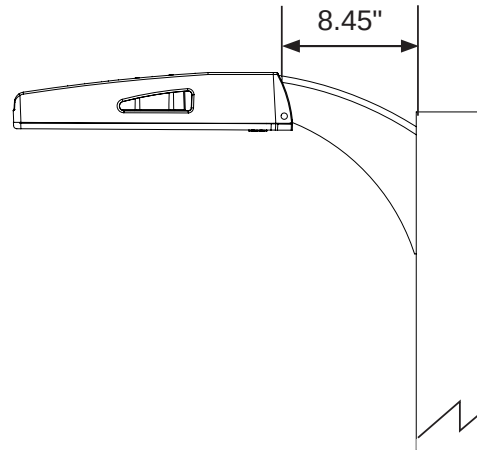


NEMA 3 (N3)

MOUNTING OPTIONS

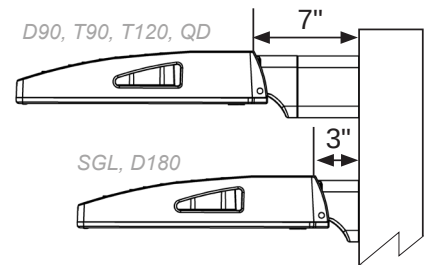
ARCHITECTURAL SWEEP ARM (ASA)

Cast Sweep Arm includes (as standard)
Internal Quick Mount Bracket.



DIRECT POLE (DP)

Standard mounting arm is extruded
aluminum in lengths of 3" and 7".
**Arm lengths may vary depending on configuration*

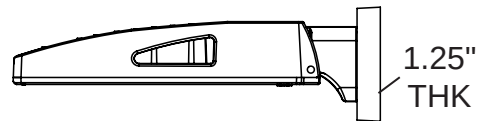


DPX ARM LENGTH

DPX ARM LENGTH	SGL	D90	D180	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"	7"

WALL MOUNT (WM)

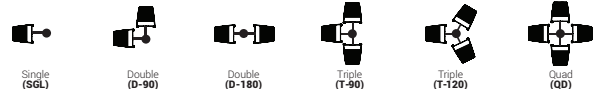
Cast Aluminum Plate for direct wall
mount. 3" extruded aluminum arm
mounts directly to a cast wall mount box.



EPA

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP3	0.46		0.92			
NV-1-DP7		1.14	1.05	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-ASA	0.75	1.29	1.50	1.99	2.05	1.99

MOUNTING CONFIGURATION

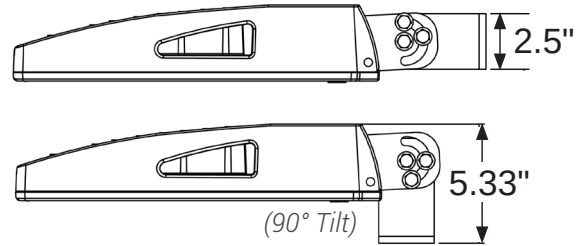


MOUNTING OPTIONS

TRUNNION MOUNT (TM)

Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

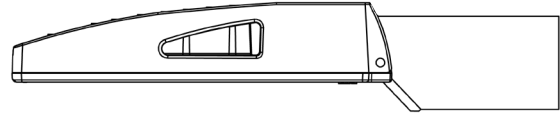
**Unpainted stainless steel is standard*



TENNIS ARM (TA)

Steel fitter slips over 3.5" x 1.5" rectangular arm.

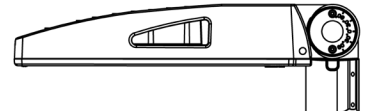
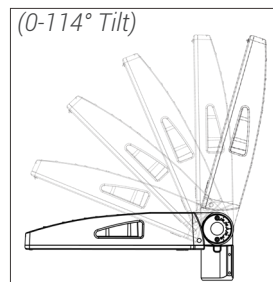
**See Tennis Arm Spec Sheet for details*



KNUCKLE MOUNT (KM)

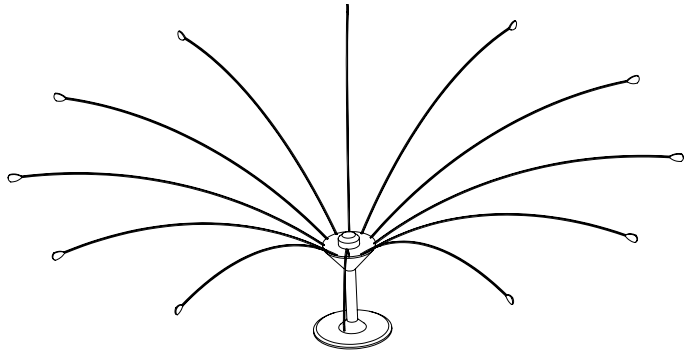
Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Up-tilt of 90 degrees
- Adjustable in 6 degree increments
- 1.5G Vibration Rated per ANSI C136.31-2010



BIRD DETERRENT (BD)

Bird Deterrent offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.



MARINE GRADE FINISH (MGF)



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

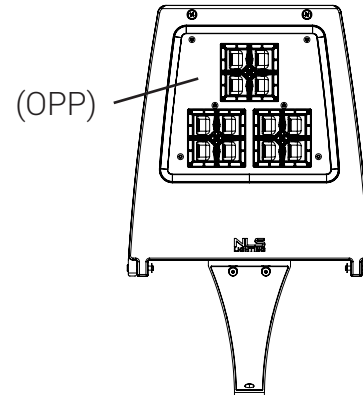
Marine Grade Finish (MGF)

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

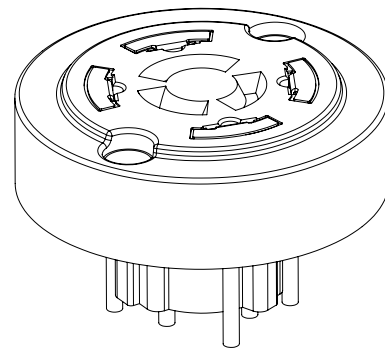
OPTIC PLATE PAINTED TO MATCH (OPP)

Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.



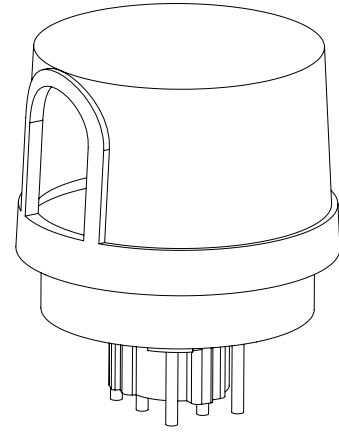
NEMA 7-PIN RECEPTACLE (PE7)

An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.



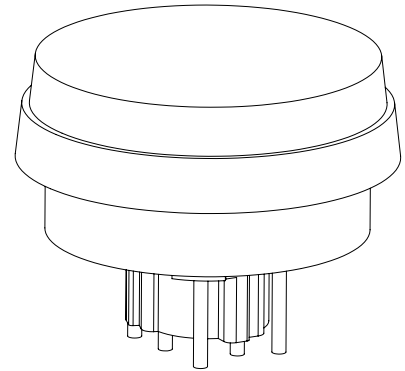
PHOTOCELL + RECEPTACLE (PCR)

7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.



RECEPTACLE + SHORTING CAP (PER)

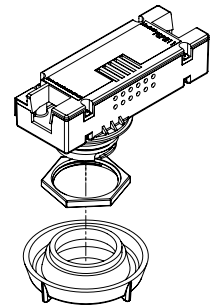
7-Pin Receptacle and Shorting Cap.



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-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.

FSP-211



QUICK MOUNT BRACKET (QMB)

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.



RETROFIT MOUNT BRACKET (RQMB)

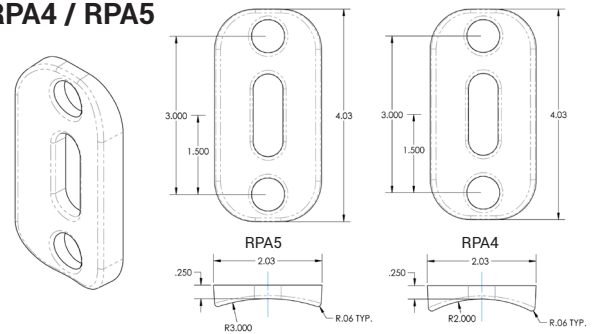
Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".



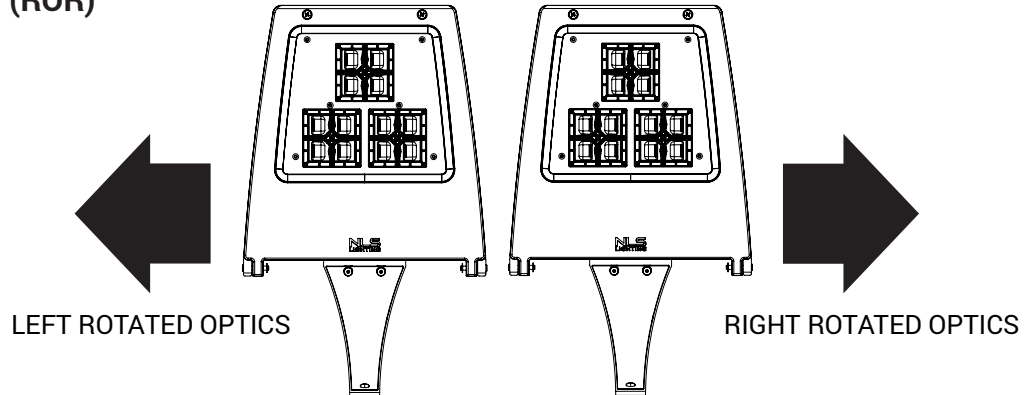
ROUND POLE ADAPTER OPTIONS (RPA4) (RPA5)

When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

RPA4 / RPA5

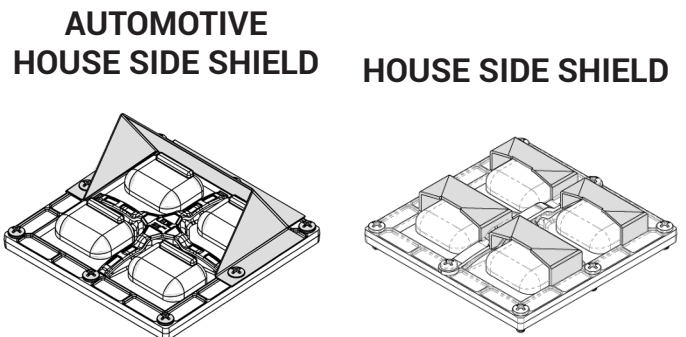


ROTATED OPTICS (ROL) (ROR)

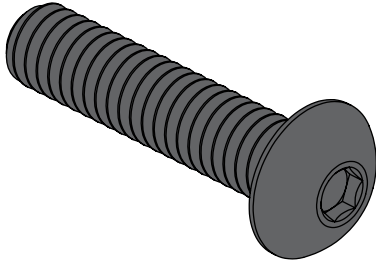


SHIELDING OPTIONS (AHS) (HSS)

SHIELDS (HSS, AHS)—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.



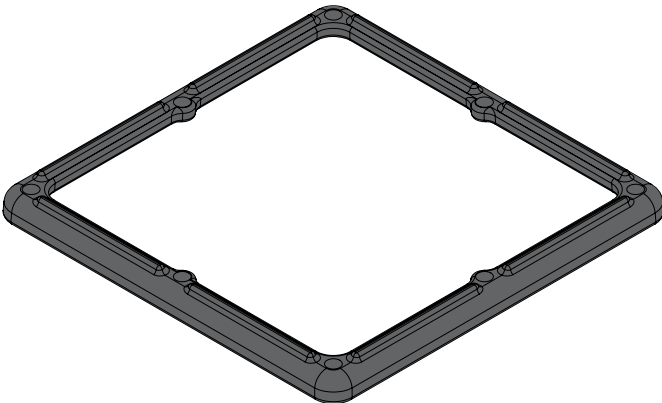
BLACK HARDWARE



Black Hardware (BH)

Optional black painted hardware.

BLACK OPTIC FRAME



Black Optic Frame (BOF)

Optional Black Optic Frame.

LUMENS

PART NUMBER	N3	LM/W	T2	LM/W	DLC	T3	LM/W	DLC	T3 HSS	LM/W	T4	LM/W	DLC	T4 AHS	LM/W	T4 HSS	LM/W	T5	LM/W	DLC	W
NV-1-16L-35-30K7	2016	112	2106	117	P	2106	117	P	1134	63	2187	116	P	1296	72	1116	62	2231	118	P	18
NV-1-16L-35-40K7	2088	116	2268	126	P	2286	127	P	1206	67	2250	125	P	1368	76	1188	66	2304	128	P	18
NV-1-16L-35-50K7	2160	120	2376	132	P	2394	133	P	1278	71	2358	131	P	1440	80	1260	70	2412	134	P	18
NV-1-16L-53-30K7	3136	112	3192	114	P	3220	115	P	1764	63	3119	113	P	2016	72	1736	62	3248	116	P	28
NV-1-16L-53-40K7	3248	116	3472	124	P	3472	124	P	1876	67	3444	123	P	2128	76	1848	66	3500	125	P	28
NV-1-16L-53-50K7	3360	120	3612	129	P	3640	130	P	1988	71	3584	128	P	2240	80	1960	70	3668	131	P	28
NV-1-16L-7-30K7	4032	112	3960	110	P	3960	110	P	2268	63	3973	109	P	2592	72	2232	62	3996	111	P	36
NV-1-16L-7-40K7	4176	116	4428	123	P	4284	119	P	2412	67	4212	117	P	2736	76	2376	66	4320	120	P	36
NV-1-16L-7-50K7	4320	120	4644	129	P	4500	125	P	2556	71	4428	123	P	2880	80	2520	70	4500	125	P	36
NV-1-32L-7-40K7	6272	112	6160	110	S	6384	114	P	3528	63	6232	112	P	4032	72	3472	62	6440	115	P	56
NV-1-16L-1-40K7	6496	116	6832	122	P	6888	123	P	3752	67	6776	121	P	4256	76	3696	66	6944	124	P	56
NV-1-16L-1-50K7	6720	120	7168	128	P	7224	129	P	3976	71	7112	127	P	4480	80	3920	70	7280	130	P	56
NV-1-32L-7-30K7	7952	112	7810	110	S	7810	110	S	4473	63	7739	109	S	5112	72	4402	62	7881	111	S	71
NV-1-32L-7-40K7	8236	116	9017	127	P	8449	119	P	4757	67	8307	117	P	5396	76	4686	66	8520	120	P	71
NV-1-32L-7-50K7	8520	120	9159	129	P	8875	125	P	5041	71	8733	123	P	5680	80	4970	70	8946	126	P	71
NV-1-32L-1-30K7	11872	112	11660	110	S	12084	114	S	6678	63	11820	112	S	7632	72	6572	62	12190	115	S	106
NV-1-32L-1-40K7	12296	116	12932	122	P	13038	123	P	7102	67	12826	121	P	8056	76	6996	66	13144	124	P	106
NV-1-32L-1-50K7	12720	120	13568	128	P	13674	129	P	7526	71	13462	127	P	8480	80	7420	70	13780	130	P	106
NV-1-48L-7-30K7	11648	112	11440	110	S	11440	110	S	6552	63	11336	109	S	7488	72	6448	62	11544	111	S	104
NV-1-48L-7-40K7	12064	116	13208	127	P	12376	119	P	6968	67	12168	117	P	7904	76	6864	66	12480	120	P	104
NV-1-48L-7-50K7	12480	120	13520	130	P	13000	125	P	7384	71	12792	123	P	8320	80	7280	70	13104	126	P	104
NV-1-48L-1-30K7	17472	112	17160	110	S	17784	114	S	9828	63	17472	112	S	11232	72	9672	62	17940	115	S	156
NV-1-48L-1-40K7	18096	116	19032	122	P	19188	123	P	10452	67	18876	121	P	11856	76	10296	66	19344	124	P	156
NV-1-48L-1-50K7	18720	120	19968	128	P	20124	129	P	11076	71	19812	127	P	12480	80	10920	70	20280	130	P	156
NV-1-64L-7-30K7	15232	112	14960	110	S	14960	110	S	8568	63	14824	109	S	9792	72	8432	62	15096	111	S	136
NV-1-64L-7-40K7	15776	116	17272	127	P	16184	119	P	9112	67	15912	117	P	10336	76	8976	66	16320	120	P	136
NV-1-64L-7-50K7	16320	120	17680	130	P	17000	125	P	9656	71	16728	123	P	10880	80	9520	70	17136	126	P	136
NV-1-64L-1-30K7	22960	112	22550	110	S	23370	114	S	12915	63	22960	112	S	14760	72	12710	62	23575	115	S	205
NV-1-64L-1-40K7	23780	116	25010	122	P	25215	123	P	13735	67	24805	121	P	15580	76	13530	66	25420	124	P	205
NV-1-64L-1-50K7	24600	120	26240	128	P	26445	129	P	14555	71	26035	127	P	16400	80	14350	70	26650	130	P	205

3000k or warmer must be selected to meet International Dark-Sky Association certification.

BUG RATINGS

PART NUMBER	T2	T3	T3 HSS	T4	T4 HSS	T5
NV-1-16L-35-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G2
NV-1-16L-53-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-7-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-40K7	B1-U0-G1	B2-U0-G2	B2-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-16L-1-50K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-30K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-40K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-7-50K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-1-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B0-U0-G2	B4-U0-G2
NV-1-48L-7-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-48L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-48L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-64L-7-30K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-40K7	B3-U0-G3	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G3	B5-U0-G3
NV-1-64L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3
NV-1-64L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3

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



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HIGH PERFORMANCE FULL CUT OFF WALL PACK

FORM AND FUNCTION

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

CONSTRUCTION

- Die Cast Aluminum
- Internal cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP65 seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Silicone Micro Optics: Recessed, full cutoff and non-yellowing
- Dark Sky Compliant

FINISH

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

WARRANTY

Five-year standard warranty



LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65 / IP67 Rated
- IK10 Compliant
- IDA Dark Sky Approved



LED WATTAGE CHART

	16L	32L
350 milliamps	19w	-
530 milliamps	29w	-
700 milliamps	37w	71w
1000 milliamps	-	100w
1050 milliamps	56w	

Project Name: _____ Type: _____

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options	Options
NV-W (NV-W)	Type 2 (T2)	16 (16L)	350 (35)	2700K, 80 CRI (27K8) ^{①②}	120-277 (UNV)	Wall Moun (WM)	Bronze Textured (BRZ)	Marine Grade Finish (MGF)	FSP-211 with Motion Sensor (FSP-8) ^④
	Type 3 (T3)	32 (32L)	530 (53)	3000K, 70 CRI (30K7) ^③			347-480 (HV)	White Textured (WHT)	Vanity Plate 16" SQ (VP16)
	Type 4 (T4)		700 (7)	3000K, 80 CRI (30K8) ^{①②}		Smooth White Gloss (SWT)	Housing Extension (HE) ^②	+9'-20' Heights Nema 7-Pin Receptacle (PE7) ^⑤	
			1000 (1A) ^⑥	3500K, 80 CRI (35K8)		Silver (SVR)	Surge Protector (20KA)	Button Photo Cell (PC) ^④	
			1050 (1) ^⑦	4000K, 70 CRI (40K7)		Black Textured (BLK)		Emergency Battery 4w 516-564 Lumens (EM4) ^{④⑤}	
				4000K, 80 CRI (40K8) ^①		Smooth Black Gloss (SBK)		Emergency Battery 8w 1032-1128 Lumens (EM8) ^{④⑤}	
			5000K, 70 CRI (50K7)		Graphite Textured (GPH)		Emergency Battery 18w 2064-2256 Lumens (EM16) ^{④⑤}		
			5000K, 80 CRI (50K8) ^①		Grey Textured (GRY)		Emergency Cold Pk Battery 14w 1806-1974 Lumens (EMCP) ^{④⑤}		
					Custom (CS)				

Notes:

- ① Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- ② To match EM Extension Box
- ③ Requires Deep Back Box
- ④ Universal Voltage 120-277
- ⑤ All Emergency Battery Options Certified CA Title 20
- ⑥ (1A) 32L only
- ⑦ (1) 16L only
- ⑧ 3000K or warmer must be selected to meet International Dark-Sky Association certification.

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 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 IP65 compartment
- Lumileds Luxeon MX LED's
- CRI 70, 80 or 90
- Color temperatures: 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA is available as an option

OPTIONS

- **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.
 - 1-2 feet inside pole coverage top and bottom.
 - Oven Baked.
 - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.

- **VANITY PLATE (VP)**—The Vanity Plate was designed to cover the un-sightly remains on a wall where a larger HID wallpack was removed. The Vanity Plate will be painted to match the finish of the NV-W, custom finishes are available, please consult factory. The standard Vanity Plate is 16" x 16".

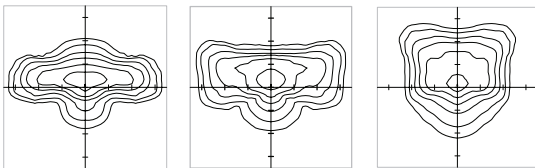
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.

- **EMERGENCY BATTERY OPERATION**— The emergency battery backup is integral to the NV-W. All emergency backup configurations include a standalone secondary driver with integral relay to detect power loss. This meets NFPA 70/NEC 2008. The emergency battery will power the NV-W for 90 minutes once power is lost. Emergency battery pack are of LiFeP04 batteries. (EMCP) Emergency Cold Pack Batteries are rated for -20°C to 50°C.

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.

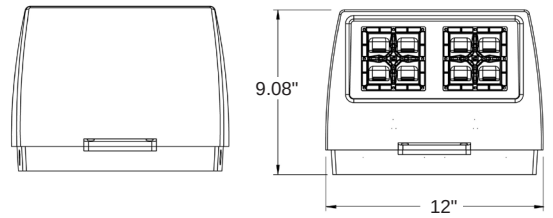
- IES Types



TYPE II (T2)

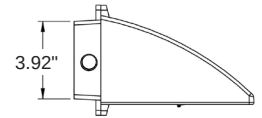
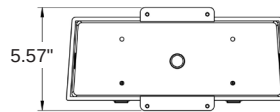
TYPE III (T3)

TYPE IV (T4)



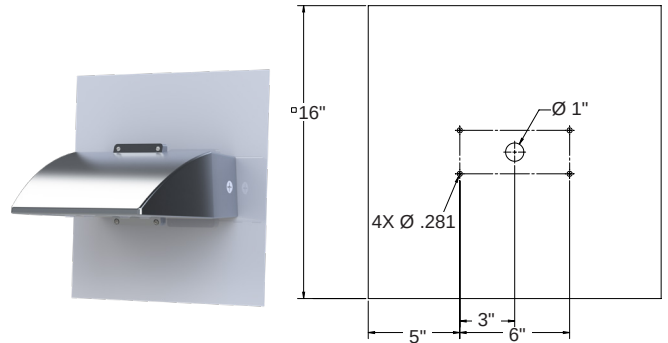
TOP VIEW

BOTTOM VIEW

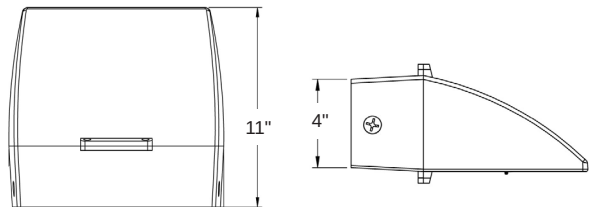


Weight: 9.1 lbs

VANITY PLATE (VP)



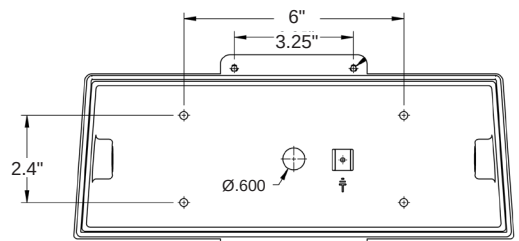
EMERGENCY BATTERY AND 7-PIN EXTENSION BOX DIMENSIONS



TOP VIEW

Weight: 13.3 lbs

MOUNTING HOLE



* 3 Conduit access points on either side or center back.

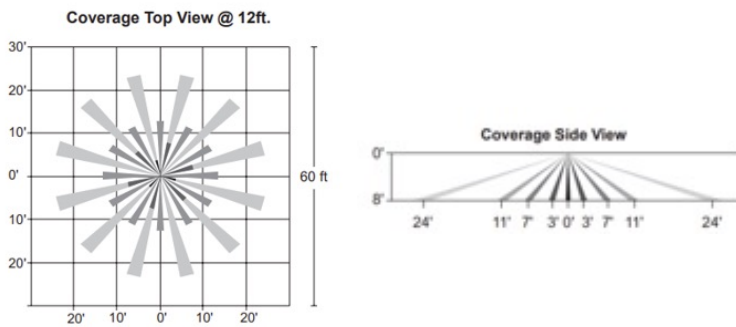
MOTION SENSOR PLACEMENT



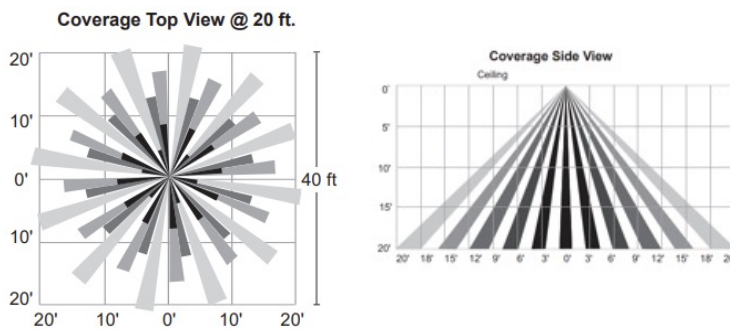
CONTROLS

- **DIMMING CONTROL (FSP)**—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
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.

FSP-8



FSP-20



LUMENS

PART NUMBER	T2	LM/W	T3	LM/W	T4	LM/W	WATTS
NV-W 16L-35-30K7	2470	130	2499	132	2470	130	19
NV-W 16L-35-40K7	2618	138	2648	139	2618	138	19
NV-W 16L-35-50K7	2618	138	2648	139	2618	138	19
NV-W 16L-53-30K7	3544	122	3579	123	3544	122	29
NV-W 16L-53-40K7	3756	130	3794	131	3756	130	29
NV-W 16L-53-50K7	3756	130	3794	131	3756	130	29
NV-W 16L-7-30K7	4388	119	4432	120	4388	119	37
NV-W 16L-7-40K7	4651	126	4698	127	4651	126	37
NV-W 16L-7-50K7	4651	126	4698	127	4651	126	37
NV-W 16L-1-30K7	5970	107	6029	108	5970	107	56
NV-W 16L-1-40K7	6328	113	6391	114	6328	113	56
NV-W 16L-1-50K7	6328	113	6391	114	6328	113	56
NV-W 32L-7-30K7	9010	127	9100	128	9010	127	71
NV-W 32L-7-40K7	9550	135	9646	136	9550	135	71
NV-W 32L-7-50K7	9550	135	9646	136	9550	135	71
NV-W 32L-1A-30K7	10871	109	10983	110	10871	109	100
NV-W 32L-1A-40K7	11426	114	11544	115	11426	114	100
NV-W 32L-1A-50K7	11426	114	11544	115	11426	114	100

3000k or warmer must be selected to meet International Dark-Sky Association certification.

BUG RATINGS

PART NUMBER	T2	T3	T4	WATTS
NV-W-16L-35-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	19
NV-W-16L-35-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	19
NV-W-16L-35-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	19
NV-W-16L-53-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	29
NV-W-16L-53-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	29
NV-W-16L-53-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	29
NV-W-16L-7-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	37
NV-W-16L-7-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	37
NV-W-16L-7-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	37
NV-W-16L-1-30K7	B1-U0-G1	B1-U0-G2	B1-U0-G2	56
NV-W-16L-1-40K7	B1-U0-G1	B1-U0-G2	B1-U0-G2	56
NV-W-16L-1-50K7	B1-U0-G1	B1-U0-G2	B1-U0-G2	56
NV-W-32L-7-30K7	B1-U0-G2	B2-U0-G2	B2-U0-G2	71
NV-W-32L-7-40K7	B1-U0-G2	B2-U0-G2	B2-U0-G2	71
NV-W-32L-7-50K7	B1-U0-G2	B2-U0-G2	B2-U0-G2	71
NV-W 32L-1A-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	100
NV-W 32L-1A-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	100
NV-W 32L-1A-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	100

EMERGENCY BATTERY BACK-UP LUMENS

PART NUMBER	T2	LM/W	T3	LM/W	T4	LM/W	WATTS
EM4-30K7	520	130	524	131	516	129	4
EM4-40K7	544	136	548	137	540	135	4
EM4-50K7	560	140	564	141	556	139	4
EM8-30K7	1040	130	1048	131	1032	129	8
EM8-40K7	1088	136	1096	137	1080	135	8
EM8-50K7	1120	140	1128	141	1112	139	8
EM16-30K7	2080	130	2096	131	2064	129	16
EM16-40K7	2176	136	2192	137	2160	135	16
EM16-50K7	2240	140	2256	141	2224	139	16
EMCP-30K7	1820	130	1834	131	1806	129	14
EMCP-40K7	1904	136	1918	137	1890	135	14
EMCP-50K7	1960	140	1974	141	1946	139	14

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



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

nlsighting.com



CUSTOMER NAME _____
 Project Name _____
 Date _____ Type **TYPE 'C'**
 Catalog Number _____

The **Lumination®** LRX Series is a specifiable downlight for retrofit and new construction applications. The LRX series is available in round and square form factors with 5 aperture options ranging from 4in to 12in. The LRX series features field-selectable lumen options, adapter rings, and a variety of reflector and trim finishes, making it a versatile solution for commercial spaces.

CONSTRUCTION

Housing:	16 gauge aluminum spinning reflector housing
Lens:	Custom engineered reflectors for wide distributions.
Paint:	Powdercoat painted
Weights:	Up to 4.6 pounds
Optical Assembly:	High efficiency reflector and optical diffuser.

OPTICAL SYSTEM

Lumens:	1000–6000lm Selectable: 650/1000lm, 3000/4000lm, 4000/5000/6000lm
Distribution:	90°
Efficacy:	Up to 112 LPW
CCT:	3000K, 3500K, 4000K
CRI:	82

ELECTRICAL

Input Voltage:	120–277V
Input Frequency:	50/60Hz
Power Factor (PF)*:	> 0.9%
Total Harmonic Distortion (THD)*:	<20%

* PF and THD may vary with options

CONTROLS

Dimming:	Standard 0–10V, Dimming 10%
Controls:	Daintree compatible with accessory kit

AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	-10°C TO +40°C (no EMBB) 0°C TO +25°C (with EMBB)

LUMEN MAINTENANCE

LXX(10K) @ Hours	50,000 HR
L85	

MOUNTING

- Spring clips clamp on to existing frame.
- Accessible from beneath the ceiling.
- New construction utilizing FRAME.
- Fixture mounting to an existing metal frame, or install with new frame kit (ordered separately), interior ceiling applications only.
- Conduit connect to quick-disconnect for easy installation.

ADDITIONAL NOTES

- Non-IC Rated
- IK00 Impact Resistant
- Optional black, white or silver trims available (ordered separately)

DESIGN LIFE & WARRANTY

- **Current's Limited 5-year Warranty:**
Please refer to document [IND599](#) for more information.



LRX
8
MD

FAMILY	SHAPE/SIZE	LUMENS	CRI	CCT	DIMMING	OPTIONS
LRX = Lumination® LRX Series Downlight	R4 = 4" Round Retrofit Downlight S4 = 4" Square Retrofit Downlight	10¹ = 1000lm/650lm	8 = 82 CRI	30 = 3000K 35 = 3500K 40 = 4000K	MD = 0-10V Dimming	Blank = None EL = EMBB Ready
	R6 = 6" Round Retrofit Downlight S6 = 6" Square	10¹ = 1000lm/650lm 18 = 1800lm				
	R8 = 8" Round Retrofit Downlight S8 = 8" Square Retrofit Downlight	10¹ = 1000lm/650lm 18 = 1800lm 30 = 3000lm 40¹ = 4000lm/3000lm				
	R10⁴ = 10" Round Retrofit Downlight	30⁴ = 3000lm 60^{1,4} = 4000lm/5000lm/6000lm				
	R12⁴ = 12" Round Retrofit Downlight	60^{1,4} = 4000lm/5000lm/6000lm				

Notes:

- Selectable Lumen packages allow for field adjustments to light output. See page 7 for details.
- The standard trim is white. Colored trim options are available see page 4 for details.
- Attach to existing frame or install with new frame kit (ordered separately) per UL.
- 10inch and 12inch 3000lm & 4000/5000/6000lm only for MD=0-10V dimming.

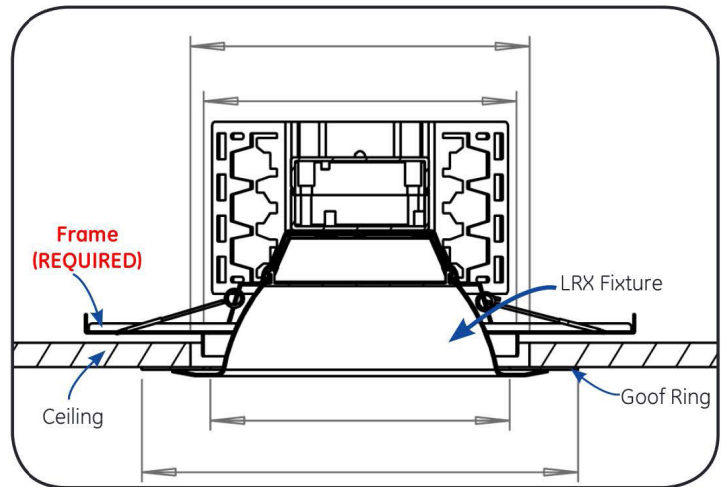
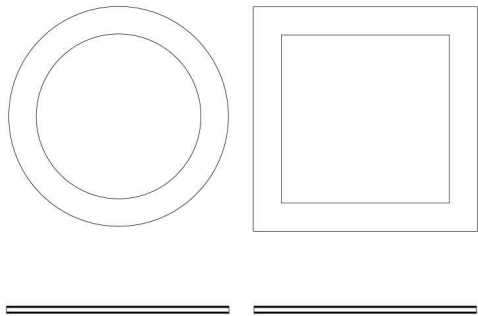
NOMINAL LUMENS	0-10V DIMMING						
	650	1000	1800	3000	4000	5000	6000
Delivered Lumens - LRX*4	700	1020	N/A	N/A	N/A	N/A	N/A
Delivered Lumens - LRX*6	700	1050	1900	N/A	N/A	N/A	N/A
Delivered Lumens - LRX*8	750	1200	2000	3300	N/A	N/A	N/A
Delivered Lumens - LRXR10	N/A	N/A	N/A	3180	4600	5400	6200
Delivered Lumens - LRXR12	N/A	N/A	N/A	N/A	4650	5450	6250
System Input Power (W)	8.5	13	22	35	41	49	59.5
System Efficacy (LPW)	88	92	91	94	112	110	104

DELIVERED LUMEN MULTIPLIERS	
CCT	MULTIPLIERS
4000K	1
3500K	0.98
3000K	0.94

ACCESSORIES: LUMINATION® LRX SERIES - REMODEL (GOOF) RINGS

The essential accessory for any project, the goof ring helps to cover openings in the ceiling with a trim that blends with the existing LRX trim. Goof rings are available in white only. Verify the existing opening and LRX fixture to order the correct goof ring, details shown in the table below. Always verify proper installation per the Installation Guide.

Installation Position



Notes: Please check the compatibility of the goof ring and the fixture by referring to the table below.










Goof Rings

FOR NEW CONSTRUCTION									FOR RETROFIT	
GOOF RING SKU	GOOF RING DESCRIPTION	GOOF RING SHAPE	SUITABLE FIXTURE	SUITABLE FRAME	INSIDE OF GOOF RING (IN)	OUTSIDE OF GOOF RING (IN)	CEILING HOLD MIN. (IN)	CEILING HOLE MAX. (IN)	SUITABLE FRAME DIMENSION (IN)	FRAME HOLE (IN)
93114516	GRRX4R6PTWT	ROUND	LRXR4XXXXXX	FRAME4RXXXX	4.48	7.09	5.20	6.69	12.60 x 7.64 x 3.54	4.20–4.70
93114517	GRRX4S6PTWT	SQUARE	LRXS4XXXXXX	FRAME4SXXXX	4.48	7.09	5.20	6.19	12.60 x 7.64 x 3.54	4.20–4.90
93114518	GRRX6R8PTWT	ROUND	LRXR6XXXXXX	FRAME6RXXXX	6.18	9.00	6.50	8.60	12.60 x 7.64 x 3.54	5.91–6.50
93114519	GRRX6S8PTWT	SQUARE	LRXS6XXXXXX	FRAME6SXXXX	6.22	8.98	7.50	8.08	13.35 x 11.34 x 3.54	5.95–7.50
93114520	GRRX8R10PTWT	ROUND	LRXR8XXXXXX	FRAME8RXXXX	7.87	10.50	8.27	10.10	15.55 x 11.34 x 3.54	7.68–8.27
93114521	GRRX8S10PTWT	SQUARE	LRXS8XXXXXX	FRAME8SXXXX	8.23	10.98	9.50	10.08	13.35 x 11.34 x 3.54	7.95–9.50
93114522	GRRX8R12PTWT	ROUND	LRXR8XXXXXX	FRAME8RXXXX	7.87	12.99	10.10	12.59	15.55 x 11.34 x 3.54	7.68–8.27
93114523	GRRX8S12PTWT	SQUARE	LRXS8XXXXXX	FRAME8SXXXX	8.23	12.99	10.58	12.09	13.35 x 11.34 x 3.54	7.95–9.50

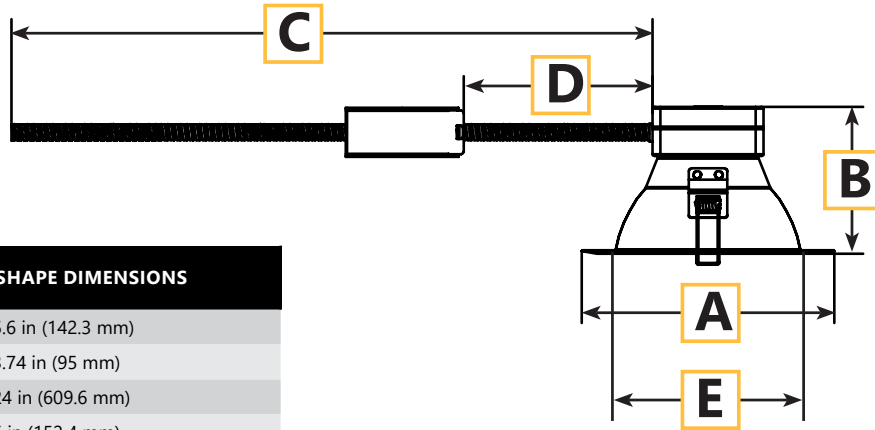
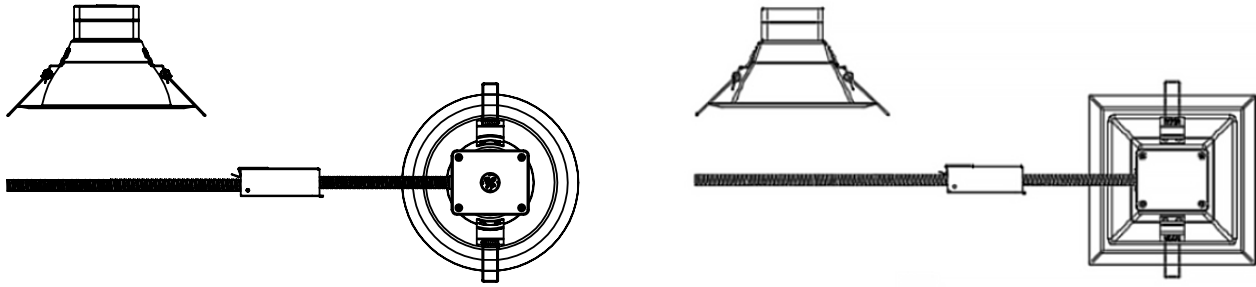
ACCESSORIES: LUMINATION® LRX SERIES

PRODUCT DESCRIPTION	MATERIAL DESCRIPTION	MATERIAL	NOTES
EMERGENCY BATTERY BACKUP KIT (7W)	LRXEMBBKIT07	93043031	7 WATT EMBB QUICK CONNECT KIT (MUST HAVE FIXTURE WITH "EL" OPTION)
EMERGENCY BATTERY BACKUP KIT (10W)	LRXEMBBKIT10	93043540	10 WATT EMBB QUICK CONNECT KIT (MUST HAVE FIXTURE WITH "EL" OPTION)
4" NEW CONSTRUCTION ROUND FRAME KIT	FRAME4R	93090208	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
6" NEW CONSTRUCTION ROUND FRAME KIT	FRAME6R	93025091	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
8" NEW CONSTRUCTION ROUND FRAME KIT	FRAME8R	93025092	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
10" NEW CONSTRUCTION ROUND FRAME KIT	FRAME10R	93124880	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
12" NEW CONSTRUCTION ROUND FRAME KIT	FRAME12R	93124881	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
4" NEW CONSTRUCTION SQUARE FRAME KIT	FRAME4S	93090209	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
6" NEW CONSTRUCTION SQUARE FRAME KIT	FRAME6S	93045426	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
8" NEW CONSTRUCTION SQUARE FRAME KIT	FRAME8S	93045427	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
347V KIT	LRX347V277	93036250	347V TRANSFORMER QUICK CONNECT KIT
DAINTREE CONTROLS ACCESSORY KIT	LCABAVTQUNGALV	93057194	SEE LCA KIT LITERATURE & INSTALL GUIDE, DOES NOT INCLUDE SENSOR
SENSOR ACCESSORY KIT - DAINTREE ENTERPRISE	LSAATZFM6	93098473	SEE LSA KITS LITERATURE & INSTALL GUIDE
SENSOR ACCESSORY KIT - DAINTREE ONE & EZ CONNECT	LSAAT/T1FM6	93098472	SEE LSA KITS LITERATURE & INSTALL GUIDE
HANGER BAR, C-CHANNEL, 25 - 1/4" (BOXED PAIR)	BH3	93110306	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS

ACCESSORIES: LUMINATION® LRX SERIES COLORED ROUND TRIM OPTIONS

	ROUND					SQUARE			
	SILVER	BLACK	SPECULAR WITH WHITE TRIM	SEMI-DIFFUSE WITH WHITE TRIM	SEMI-DIFFUSE WITH MATCHING TRIM	SILVER	BLACK	SPECULAR WITH WHITE TRIM	SEMI-DIFFUSE WITH WHITE TRIM
									
4"	93151744 LRXTRIMR4SV	93151745 LRXTRIMR4BL	93151746 LRXTRIMR4SP	93151747 LRXTRIMR4SD		93151748 LRXTRIMS4SV	93151749 LRXTRIMS4BL	93151750 LRXTRIMS4SP	93151751 LRXTRIMS4SD
6"	93059502 LRXTRIMR6SV	93059501 LRXTRIMR6BL	93151752 LRXTRIMR6SP	93151753 LRXTRIMR6SD	93152569 LRXTRIMR6SA	93151754 LRXTRIMS6SV	93151755 LRXTRIMS6BL	93151756 LRXTRIMS6SP	93151757 LRXTRIMS6SD
8"	93059504 LRXTRIMR8SV	93059503 LRXTRIMR8BL							

DIMENSIONS



ROUND SHAPE DIMENSIONS

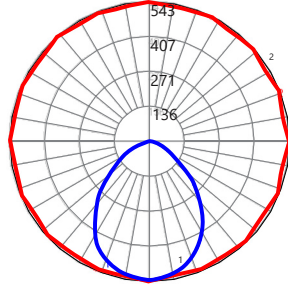
	A	
4 in	A	5.6 in (142.3 mm)
	B	3.74 in (95 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 4.4 in
6 in	A	7.75 in (196.8 mm)
	B	4.5 in (114.2 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 5.7 in
8 in	A	9.75 in (247.6 mm)
	B	5.1 in (129.4 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 7.7 in
10 in	A	12 in (305 mm)
	B	5.8 in (148.2 mm)
	C	24.0 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 9.7 in
12 in	A	14 in (355 mm)
	B	6.23 in (158.2 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 11.7 in

SQUARE SHAPE DIMENSIONS

4 in	A	5.75 in (146 mm)
	B	3.74 in (95 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 4 in for ceiling thickness ≤ 10 mm; 4.2 in for ceiling thickness > 10 mm
6 in	A	7.75 in (196.8 mm)
	B	4.5 in (114.2 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 5.6 in
8 in	A	9.75 in (247.6 mm)
	B	5.1 in (129.4 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min 7.6 in

PHOTOMETRIC DATA:

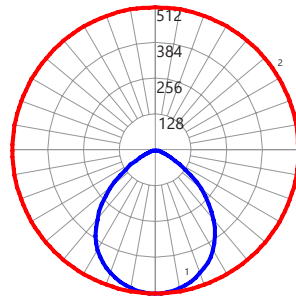
4" Round LRX
1059 LM
LRXR410830MD



ZONE	LUMENS
0-10	50.98
10-20	143.53
20-30	208.85
30-40	226.68
40-50	194.68
50-60	131.45
60-70	66.78
70-80	29.04
80-90	6.9

ZONE	LUMENS	% OF FIXTURE
0-20	194.51	18.4
0-30	403.36	38.1
0-40	630.04	59.5
0-60	956.17	90.3
0-80	1052.0	99.3
0-90	1058.9	100.0

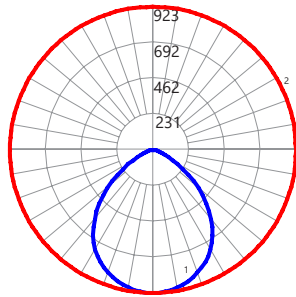
6" Round LRX
1000 LM
LRXR610830MD



ZONE	LUMENS
0-10	48.26
10-20	135.99
20-30	199.14
30-40	221.96
40-50	188.12
50-60	118.95
60-70	54.04
70-80	25.47
80-90	7.78

ZONE	LUMENS	% OF FIXTURE
0-20	184.25	18.4
0-30	383.39	38.3
0-40	605.34	60.5
0-60	912.41	91.2
0-80	991.92	99.2
0-90	999.70	100.0

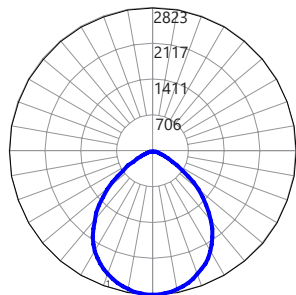
8" Round LRX
1797 LM
LRXR818830MD



ZONE	LUMENS
0-10	87.00
10-20	245.00
20-30	357.94
30-40	405.72
40-50	355.72
50-60	213.19
60-70	84.35
70-80	37.58
80-90	10.61

ZONE	LUMENS	% OF FIXTURE
0-20	332.00	18.4
0-30	689.94	38.3
0-40	1095.66	60.9
0-60	1664.57	92.5
0-80	1786.51	99.2
0-90	1797.12	99.8

10" Round LRX
5893 LM
LRXR1030830MD

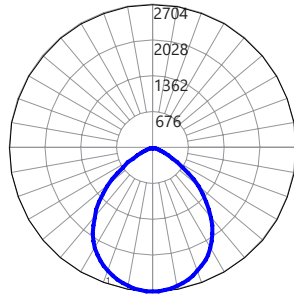


ZONE	LUMENS
0-10	265.56
10-20	751.07
20-30	1109.15
30-40	1284.03
40-50	1192.46
50-60	797.55
60-70	323.82
70-80	129.46
80-90	639.60

ZONE	LUMENS	% OF FIXTURE
0-20	538.49	17.2
0-30	2125.78	36.0
0-40	3409.81	57.8
0-60	5399.82	91.5
0-80	5853.11	99.2
0-90	5892.71	99.9
10-90	5627.15	95.4
20-40	2393.19	40.6
20-50	3585.65	60.8
40-70	2313.83	39.2
60-80	453.28	7.7
70-80	129.46	2.2
80-90	39.60	0.7

PHOTOMETRIC DATA:

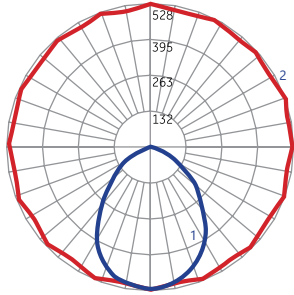
12" Round LRX
6070 LM
LRXR1260830MD



ZONE	LUMENS
0-10	2704
10-20	2028
20-30	1362
30-40	676
40-50	
50-60	
60-70	
70-80	
80-90	

ZONE	LUMENS	% OF FIXTURE
0-20	981.28	16.1
0-30	2068.58	34.0
0-40	3348.28	55.1
0-60	5558.22	91.5
0-80	6036.63	99.3
0-90	6069.79	99.9
10-90	5815.03	95.7
20-40	2367.00	39.0
20-50	3637.86	59.9
40-70	2582.21	42.5
60-80	478.41	7.9
70-80	106.14	1.7
80-90	33.16	0.5

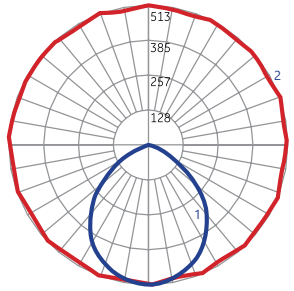
4" Square LRX
1045 LM
LRXS410830MD



ZONE	LUMENS
0-10	528
10-20	395
20-30	263
30-40	132
40-50	
50-60	
60-70	
70-80	
80-90	

ZONE	LUMENS	% OF FIXTURE
0-20	184.85	17.7
0-30	379.88	36.3
0-40	594.06	56.7
0-60	929.35	88.8
0-80	1038.34	99.2
0-90	1044.54	99.8

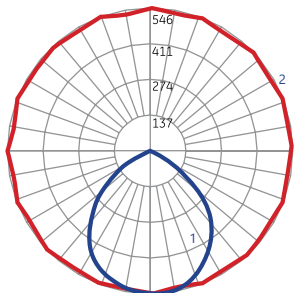
6" Square LRX
1050 LM
LRXS610830MD



ZONE	LUMENS
0-10	513
10-20	385
20-30	257
30-40	128
40-50	
50-60	
60-70	
70-80	
80-90	

ZONE	LUMENS	% OF FIXTURE
0-20	185.78	17.7
0-30	389.04	37.1
0-40	618.84	58.9
0-60	957.99	91.2
0-80	1043.63	99.4
0-90	1049.74	100.0

8" Square LRX
1199 LM
LRXS810830MD



ZONE	LUMENS
0-10	546
10-20	411
20-30	274
30-40	137
40-50	
50-60	
60-70	
70-80	
80-90	

ZONE	LUMENS	% OF FIXTURE
0-20	199.46	16.6
0-30	420.3	35.0
0-40	678.88	56.6
0-60	1091.68	90.9
0-80	1191.68	99.3
0-90	1199.45	100.0

DAINTREE CONTROLS

Daintree® Wireless Controls:

There is no one size fits all for wireless controls. Some networks want simple solutions that reduce energy consumption and meet code compliance while others are more ambitious, looking to capitalize on the LED and controls savings to fund a scalable, enterprise-grade, internet of things solution. The advantage of the Daintree® Wireless platform is its ability to integrate into indoor, outdoor and high bay environments. The Daintree® Wireless Controls provide the infrastructure to future proof your buildings, easily upgrade to Networked solutions and provide the ability to integrate into IoT solutions that are right for your business.

- **Daintree® One:** Standalone Wireless Controls
- **Daintree® EZ Connect:** Room-Based Wireless Lighting Controls
- **Daintree® Networked:** Networked Lighting Controls for Smart Building & IoT Enablement.

Daintree® Wireless Controls are already integrated in your favorite Current LED fixtures. Integrating the controls into the fixture cuts labor costs considerably since the sensors are already embedded in the lighting fixtures. There's no need to get above the ceiling plenum and install additional devices. Visit our website <https://products.gecurrent.com> for a complete list of LED Fixtures.

TYPE 'D'



RD



ST



SQ



WW

PROJECT

CATALOG #

TYPE

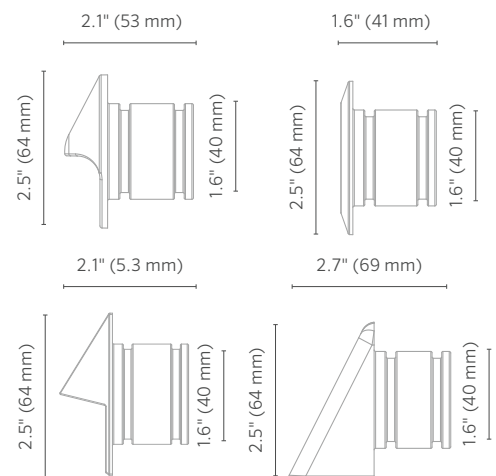
NOTES

PO Wall Light DESIGNER PREMIUM

1 LED recessed wall light available in four brass faceplate styles for any application.

Quick Facts

- Die-cast brass or aluminum
 - Natural, powder-coated, or antique brass
 - Cree® integrated LEDs
 - Color temperature filters
- Compatible with Luxor® technology
 - Phase and PWM dimmable
 - Input voltage: 10-15V



PO Wall Light SPECIFICATIONS

Output	1LED
Total Lumens†‡	4-39
Input Voltage	10 to 15V
Input Power (W)	2.0
VA	2.4
Efficacy (Lumens/Watt)	8
Color Rendering Index (CRI)	80+
Max Candela‡	24
Dimming	PWM, Phase**
RGBW Available	No
Luxor Compatibility	
Default	Zoning
ZD Option	Zoning/Dimming
ZDC Option	--
Minimum Rated Life (L90/B10)	55,000 Hrs

† Measured using the 3,900K CCT lens. Multipliers for other CCTs include 0.80 (2,700K), 0.65 (4,500K), and 0.65 (5,200K).

‡ Measured using the Round (RD) faceplate. Multipliers for other faceplates include: 1.0 (Square), 2.0 (Spot), and 0.4 (Wall Wash).

** For optimal performance, use a trailing-edge, phase-cut dimmer.

FX Luminaire

FX Luminaire is an industry-leading manufacturer of landscape and architectural lighting products with a focus on the advancement of LED technology and digital lighting control with zoning, dimming, and color adjustment capabilities. We offer a full spectrum of specification-driven lighting fixtures that can be utilized to create elegant, cutting-edge landscape lighting systems for commercial or residential applications. Our products are available exclusively via our extensive professional distributor network.

Materials

Die-cast C360 brass faceplate, A380 aluminum housing, ABS construction conduit sleeve.

Socket

Socket contains MoistureBlock™ technology, preventing moisture from wicking up into sealed areas of the fixture.

Lamp

Integrated module with Cree LEDs. Gold-plated connectors and conformal coated for maximum reliability and corrosion resistance. Proprietary on-board intelligent driver uses firmware-controlled temperature regulation, maximizing LED life. Field upgradeable and replaceable, the LEDs are rated to 50,000 hrs. Maximum drive current: 1 A.

Optics

Polycarbonate color temperature adjustment lenses included with fixture: 2,700K (pre-installed); 3,900K (no lens); 4,500K; and 5,200K. Color temperature lenses field serviceable. Beam angle is calculated using LM-79 method for SSL luminaires.

Wiring

18 AWG (1 mm); SPT-1W; 220°F (105°C); 300V; 10' (3 m) length.

Power

Input 10-15 VAC/VDC, 50/60 Hz. Remote transformer required (specify separately).

Housing

Die-cast aluminum housing with capacity for 1LED integrated LEDs.

Faceplate

Die-cast brass faceplate.

Lens

Tempered glass lens with shock resistance and high tolerance for thermal expansion and stress.

Finish

Options of natural brass finish, antique finish with brushed (Antique Bronze) or tumbled (Antique Tumbled) effect, or TGIC powder-coat finish. Antique finishes sealed with a clear TGIC powder-coat layer.

Hardware

Includes ABS conduit sleeve with ½"-14 (13 mm) NPT female hole for strain relief. Strain relief specified separately. Outer diameter of ABS conduit sleeve: 1.9" (48 mm).

Ambient Operating

Temperature
0°F to 140°F (-18°C to 60°C)

Weight

2.3 lbs. (1.0 kg)

Control

ZD option utilizes Luxor technology to zone light fixtures in up to 250 groups, dim each group in 1% increments between 0% and 100%.

International Compliance

Compliant per IEC 60598-1 and IEC 60598-2-7 when used with International Wall Kit ("EKITWALL").

Sustainability

Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

IES Classification

Type IV (RD & SQ), Type V (ST) Type II (WW).

Warranty

10-year limited warranty

Installation Requirements

RD & SQ – Designed for recessed installation in a vertical wall in the down lighting position only.














WW – Designed for recessed installation in a vertical wall in any orientation.

ST – Designed for recessed installation in a vertical or horizontal wall; ensure substantial drainage flow for up lighting (e.g., decking).

Listings






PO Wall Light ORDERING INFORMATION

Fixture	Luxor Option	Output	Faceplate	Finish	
PO*	[default] Zone	1LED 4-39 Lumens	RD Round	BS Natural Brass	
	ZD Zone/Dim		SQ Square	BZ Bronze Metallic	
			ST Spot	DG Desert Granite	
			WW Wall Wash	WI Weathered Iron	
				SB Sedona Brown	
				FB Black	
				WG White Gloss	
				FW Flat White	
				AL Almond	
				SV Silver	
				NP Nickel Plate	
				AB Antique Bronze	
				AT Antique Tumbled	

EXAMPLE FIXTURE CONFIGURATION:
 PO-ZD-1LED-RD-BZ
 *Includes 1.5" (38 mm) Conduit Sleeve (25001859000)



ACCESSORIES: Specify Separately

Accessories	Code	
PO MOUNTING BRACKET 1.3" H x 2.5" W (33 mm x 64 mm)	POBRKT	
STANDARD OPTICS KIT	1LEDOPTICKIT	
WALL LIGHT CONNECTION KIT	EKITWALL	

PO Wall Light PHOTOMETRICS

PO 1LED Illuminance at a Distance		RD/SQ	
Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 35°	Horizontal 60°
2.0' (0.6 m)	0.2 fc (2.2 lx)	1.3' (0.4 m)	2.3' (0.7 m)
4.0' (1.2 m)	0.1 fc (1.1 lx)	2.6' (0.8 m)	4.6' (1.4 m)
6.0' (1.8 m)	0.02 fc (0.2 lx)	4.0' (1.2 m)	6.9' (2.1 m)
8.0' (2.4 m)	0.01 fc (0.1 lx)	5.3' (1.6 m)	9.2' (2.8 m)
10.0' (3.1 m)	0.01 fc (0.1 lx)	6.6' (2.0 m)	11.5' (3.5 m)

PO 1LED Illuminance at a Distance		ST	
Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 80°	Horizontal 75°
2.0' (0.6 m)	6.1 fc (66 lx)	3.3' (1.0 m)	3.1' (1.0 m)
4.0' (1.2 m)	1.5 fc (16.4 lx)	6.6' (2.0 m)	6.3' (1.9 m)
6.0' (1.8 m)	0.7 fc (7.3 lx)	9.8' (3.0 m)	9.4' (2.9 m)
8.0' (2.4 m)	0.4 fc (4.1 lx)	13.1' (4.0 m)	12.6' (3.8 m)
10.0' (3.1 m)	0.24 fc (2.6 lx)	16.4' (5.0 m)	15.7' (4.8 m)

PO 1LED Illuminance at a Distance		WW	
Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 45°	Horizontal 60°
2.0' (0.6 m)	0.9 fc (9.5 lx)	1.6' (0.5 m)	2.2' (0.7 m)
4.0' (1.2 m)	0.2 fc (2.4 lx)	3.2' (1.0 m)	4.5' (1.4 m)
6.0' (1.8 m)	0.1 fc (1.1 lx)	4.9' (1.5 m)	6.7' (2.0 m)
8.0' (2.4 m)	0.1 fc (0.5 lx)	6.5' (2.0 m)	9.0' (2.7 m)
10.0' (3.1 m)	0.04 fc (0.4 lx)	8.1' (2.5 m)	11.2' (3.4 m)

Cree is a registered trademark of Cree Inc. MoistureBlock is a trademark of DSM&T Co. Inc.

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Tumbler

Specification Sheet

Project Name: _____

Job Location: _____

Fixture Type: _____

Fixture Quantity: _____

Source	LED
Input Voltage	120V-277V
Frequency	50/60 Hz
EPA	0.84 ft ²
Weight	14.5 lbs (luminaire only)

The Tumbler luminaire is aluminum extrusion with a natural aluminum powdercoat finish offered by Santa & Cole Urbidermis with a clear or opal / diffused tempered glass.

Pole & Wall Mount Luminaire						
Product	TML					
LED Configuration	16	24	C (CoB) *	TYPE 'E1'		
Drive Current	A (350 mA)	B (500 mA)				
Color Temperature	1 (3000K)	2 (4000K)				
Distribution	WF (Wide Flood)	F (Flood)	M (Medium)	S (Spot Flood)	TII (Type II)	TIII (Type III) TIV (Type IV)
Lens	Null (Clear)	O (Opal / Diffused)				
Color	AS (Aluminum Silver)	BK (Black)				

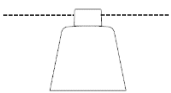
* CoB provides a Wide Flood distribution only.

EXAMPLE: TML - 16 - B - 1 - WF - O - AS

Catenary Luminaire						
Product	TML					
LED Configuration	16	24	C (CoB) *	TYPE 'E2'		
Drive Current	A (350 mA)	B (500 mA)				
Color Temperature	1 (3000K)	2 (4000K)				
Distribution	WF (Wide Flood) *	TII+II (Quad Oval)	TV (Type V)			
Lens	Null (Clear)	O (Opal / Diffused)				
Bracket	C (Catenary)					
Color	AS (Aluminum Silver)	BK (Black)				

* CoB provides a Wide Flood distribution only.

EXAMPLE: TML - 16 - B - 1 - TV - O - C - BK

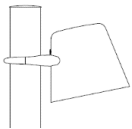


Catenary

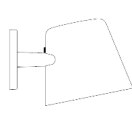
Mounting Accessories				
_____	Product	TML		
_____	Bracket	01 (Single Column)	02 (Wall)	03 (Catenary) * 04 (Double Column)
_____	Color	AS (Aluminum Silver)	BK (Black)	

* Automatically selected when the catenary luminaire is selected.

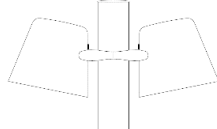
EXAMPLE: TML – 01 – BK



Single Column



Wall



Double Column

Tumbler Aluminum Pole Height	Pole #	Mounting	Diameter	Wall	Weight
3.4m (11.2 ft)	TMF11P	(1) Single Column Bracket	Straight 4.5"	0.125"	29 lbs
	TMF11P	(1) Double Column Bracket	Straight 4.5"	0.125"	29 lbs
4.2m (13.8 ft)	TMF21P	(1) Single Column Bracket	Straight 4.5"	0.125"	33 lbs
	TMF22P	(2) Single Column Brackets, Staggered Heights, 180° Orientation	Straight 4.5"	0.125"	33 lbs
	TMF21P	(1) Double Column Bracket	Straight 4.5"	0.125"	33 lbs
5.0m (16.4 ft)	TMF31P	(1) Single Column Bracket	Straight 4.5"	0.125"	38 lbs
	TMF32P	(2) Single Column Brackets, Staggered Heights, 180° Orientation	Straight 4.5"	0.125"	38 lbs
	TMF31P	(1) Double Column Bracket	Straight 4.5"	0.125"	38 lbs
6.6m (21.7 ft)	TMF41P	(3) Single Column Brackets, Spiral Configuration, 120° Orientation	Stepped 6"/4.5"	0.188"	80 lbs

* Landscape Forms can provide poles for your catenary project. Contact the factory for more information.

Pole Options							
_____	Twist Lock	Null (None)	T (Twist Lock Receptacle)				
_____	Color	BLK (Black)	DSK (Dusk)	MBK (Matte Black)	MER (Mercury) *	SIL (Silver)	SCL (Storm Cloud) TNM (Titanium)

* Mercury from Landscape Forms is our recommended color match for aluminum silver from Santa & Cole.

EXAMPLE: TMF41P – T – MER

Modifications

Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Common modifications can include GCFI outlets, custom RAL colors, banner arm(s) mounting, and custom pole heights. Contact your local Landscape Forms representative to learn more about these offerings.

Notes

Please send completed forms to your Landscape Forms representative or contact us at (800) 430-6209 with any questions.

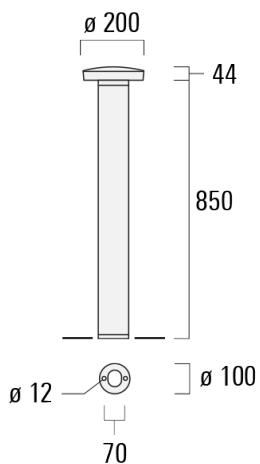
MRY224 LED

Bollards and pathway luminaires

1/5

TYPE 'F'

we-ef



Description

IP66. Class I. IK10. Marine-grade, all-aluminium construction. Pole section features anodised aluminium core. 5CE superior corrosion protection including PCS hardware. Polycarbonate main lens, UV-stabilised. Silicone CCG[®] Controlled Compression Gasket. Luminaire is factory-sealed and does not need to be opened during installation. Integral EC electronic converter. Advanced thermal management protects LEDs while optimising lumens output. CAD-optimised optics for superior illumination and glare control. For 2200 K version available on request.

MRY224 LED





Bollards and pathway luminaires

2/5

we-ef

Specifications

Material Specification

Body:	Marine-grade, all-aluminium construction. Pole section features anodised aluminium core
Lens:	Polycarbonate, UV-stabilised
Colours:	 RAL9004 Signal black  RAL9007 Grey aluminium  RAL7016 Anthracite grey  RAL9016 Traffic white
Gasket:	Silicone CCG® Controlled Compression Gasket
Fasteners:	PCS hardware
Ingress protection:	IP66
Impact protection:	IK10
Corrosion protection:	5CE
Surge protection:	10/10kV
Mounting:	FS Factory-sealed luminaire does not need to be opened during installation

Electrical Specification

Driver / Ballast:	Integral EC electronic converter
-------------------	----------------------------------

MRY224 LED

Bollards and pathway luminaires

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Choices

Light Distributions	Nominal Lumen	Nominal Watt	Colour Temperatures	Colours
'side throw' distribution [S60]	1323	11	2700 K	RAL9004 Signal black
	1395	15		
symmetric [C70]	1485		3000 K	RAL9007 Grey aluminium
	1829			
	1852		4000 K	RAL7016 Anthracite grey
	1978			RAL9016 Traffic white



MRY224 LED

Bollards and pathway luminaires




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Configurations

Light Distributions	Part ID	Light Source	Rated Lumens	Rated Input Power	CRI	Weight	Link
 symmetric [C70]	115-9771	LED-11W / 300 mA - 2700 K	844.7	13.5	80	10.80	📄 ↗
	115-9772	LED-11W / 300 mA - 3000 K	890.7	13.5	80	10.80	📄 ↗
	115-9773	LED-11W / 300 mA - 4000 K	948.1	13.5	80	10.80	📄 ↗
	115-9775	LED-15W / 750 mA - 2700 K	1167.8	18	80	10.80	📄 ↗
	115-9776	LED-15W / 750 mA - 3000 K	1182.5	18	80	10.80	📄 ↗
	115-9777	LED-15W / 750 mA - 4000 K	1262.9	18	80	10.80	📄 ↗
 'side throw' distribution [S60]	115-9801	LED-11W / 300 mA - 2700 K	843.6	13.5	80	10.80	📄 ↗
	115-9802	LED-11W / 300 mA - 3000 K	889.5	13.5	80	10.80	📄 ↗
	115-9803	LED-11W / 300 mA - 4000 K	946.9	13.5	80	10.80	📄 ↗
	115-9805	LED-15W / 750 mA - 2700 K	1166.3	18	80	10.80	📄 ↗
	115-9806	LED-15W / 750 mA - 3000 K	1180.9	18	80	10.80	📄 ↗
	115-9807	LED-15W / 750 mA - 4000 K	1261.3	18	80	10.80	📄 ↗

Related Families

Family	Dimensions	Wattage	Nominal Lumen	Links	Download Data Sheet
MRY224 LED		600	11 -15 W	1323 -1978	📄 ↗ 📄 ↓
MRY224 LED		850	11 -15 W	1323 -1978	📄 ↗ 📄 ↓
MRY224 LED		1000	11 -15 W	1323 -1978	📄 ↗ 📄 ↓

Similar Products

Family	Dimensions	Wattage	Rated Lumens	Links	Download Data Sheet
MRY224 LED		600	11 -15 W	1323 -1978	📄 ↗ 📄 ↓
MRY224 LED		1000	11 -15 W	1323 -1978	📄 ↗ 📄 ↓

MRY224 LED

Bollards and pathway luminaires

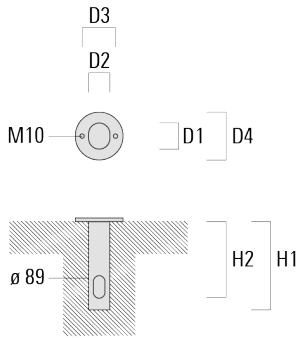
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Mounting Accessories

Planted root

	D1	D2	D3	D4	H1	H2	Weight (kg)
■ 300-9090 Planted root ESZ4	55	45	70	100	400	350	3.50



Control

1-10 V analogue dimming interface

■ **430-0011** 1-10 V analogue dimming interface

DALI interface

■ **430-0013** DALI interface

holm



TYPE

CATALOG #

PROJECT

NOTES

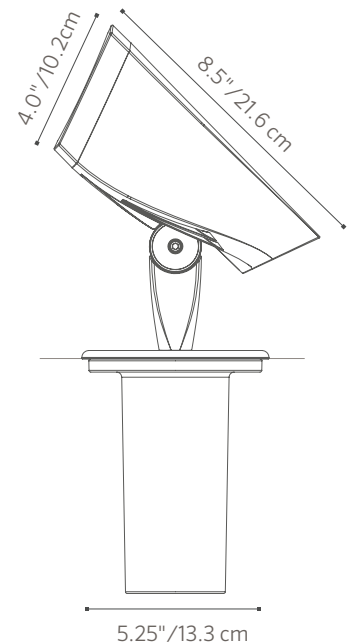
LED DIRECTIONAL FIXTURES

dCrest-9

The highly versatile dCrest-9 offers various mounting options for premier lighting that adds a soft layer of elegance to any project. The luminaire's compact size makes it especially useful for highlighting facades, signage, and other architectural accent features.

Quick Facts

- Die-cast aluminum
- Two-layer marine-grade anodization and powder coat finish
- Xicato® LED module
- Full adjustability
- Dimming: Phase or 0-10V
- Input voltage: 110-277V and 12V
- IP65



dCrest-9 SPECIFICATIONS

Output	L07	L10	L13	9LED	ZD9LED	ZDC
Total Lumens*						
Spot (20°)	585	732	1001	625	625	N/A
Flood (40°)	616	761	1025	575	575	N/A
Wide Flood (60°)	499	565	824	581	581	200
Input Power (W)	9.9	14.2	19.2	11.7	11.7	5.2
Efficacy (Lumens/Watt)	51-62	40-54	43-53	49	49	39
Color Rendering Index (CRI)	84	84	84	83	83	81
Center Beam Candle Power (CBCP)						
Spot (20°)	2456	3123	4067	3420	3420	N/A
Flood (40°)	1560	1874	2537	1234	1234	N/A
Wide Flood (60°)	669	806	1113	607	607	182
Dimming	Phase, 0-10V	Phase, 0-10V	Phase, 0-10V	N/A	ZD	ZDC
Minimum Rated Life (L80)	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs
Luxor® Compatibility						
ZD Option	Luxor CUBE Req'd	Luxor CUBE Req'd	Luxor CUBE Req'd	N/A	Zoning/Dimming	Zoning/Dimming/Color
ZDC Options	N/A	N/A	N/A	N/A	N/A	Yes

* Luminaire output does not change according to specified CCT.

Holm

Holm. Born from an industry demand for a comprehensive offering of distinctive line- and low-voltage luminaires for the commercial market. Our products are designed to meet required specifications while echoing the aesthetics of the project. Holm is a Hunter Industries company with more than three decades of engineering expertise, now bringing its Luxor® technology to the commercial architectural and landscape lighting market.

Materials

Die-cast aluminum A380 housing and shroud with stainless steel hardware.

Lamp

Integrated Xicato® LED module. Next-Generation Corrected Cold Phosphor Technology® keeps phosphors cool for maintained light quality and very tight color consistency (within 1 x 2 MacAdam ellipses). Up to 100+ lumens per watt at operating conditions. CCT range from 2,700K to 4,000K with outputs between 700 and 1,300 lumens.

Ambient Operating Temperature
55°C

Optics

Beam angle options preinstalled: spot (20°), flood (40°), wide flood (60°). Field replaceable.

Socket

Socket contains MoistureBlock™ technology, preventing moisture from wicking into sealed areas of the luminaire via the wiring.

Wiring

UL1015 105°C 600V; 18/3 (1 mm) for phase dim driver and 18/5 (1 mm) for 0-10V driver.

Power

Four input power options: 1) standard voltage using 120V/60Hz input with phase dimming, 2) universal voltage using 110V to 277V/60Hz with 0-10V dimming, 3) high voltage using 220V to 240V/50Hz, or 4) low voltage using 10-15VAC/VDC 50/60Hz (remote transformer required).

Housing

Die-cast aluminum housing with capacity up to 1,300 lumens. Removable LED module, optics and driver.

Mounting Kit

ABS construction sleeve with ½" NPT knockouts. Construction cover included.

Shroud

Die-cast aluminum shroud with recessed lens (standard) or 45° angled cutoff option (long shroud).

Knuckle

Die-cast aluminum knuckle with ½-14 NPSM threads. Compress and lock features prevent slip after installation. 105° of vertical adjustment with 5° increments.

Lens

Tempered glass lens with shock resistance and high tolerance for thermal expansion and stress.

Finish

Two-layer protection of sulfuric acid anodization and polyester TGIC powder coat, providing superior outdoor weathering in all conditions. Tested to ASTM standards.

Hardware

10-24 x ¾" stainless steel angle lock screw (hex) with 6-32 x ½" faceplate screws (hex).

Weight

4.8 lbs. (2.2kg)

Installation Requirements

Designed for in-ground installation in upward or downward directions.

Control

ZDlink™ or ZDlink™ utilizes Luxor® technology to zone light fixtures in up to 250 groups, dim each group in 1% increments between 0 and 100%, or change to one of 30,000 colors with RGBW LEDs. Specify the Luxor Cube for zoning and/or dimming the dCrest-9 with ZDlink or ZDlink (UV option). ZD9LED and ZDC options connect directly to ZDlink or ZDlink.

Sustainability

Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

Warranty

5-year limited warranty

Manufacturing

ISO 9001:2015 certified facility

Listings



dCrest-9 ORDERING INFORMATION

Fixture-Size	Power Control	Output	CCT	Optics	Options	Finish	Mounting Options
dCST-9	<ul style="list-style-type: none"> SV 120V/60 Hz Phase UL Listed 	<ul style="list-style-type: none"> L07 499-616 Lumens 	<ul style="list-style-type: none"> K27 2,700K 	<ul style="list-style-type: none"> SP 20° 	<ul style="list-style-type: none"> [default] Standard Shroud 	<ul style="list-style-type: none"> BZ Bronze Metallic 	<ul style="list-style-type: none"> MKCST9 Standard Kit
	<ul style="list-style-type: none"> UV 110-277V/60Hz 0-10V UL Listed 	<ul style="list-style-type: none"> L10 565-761 Lumens 	<ul style="list-style-type: none"> K30 3,000K 	<ul style="list-style-type: none"> FL 40° 	<ul style="list-style-type: none"> LS Long Shroud (45°) 	<ul style="list-style-type: none"> SV Silver 	
	<ul style="list-style-type: none"> HV 220-240V/50Hz 0-10V CE Approved 	<ul style="list-style-type: none"> L13 685-1025 Lumens 	<ul style="list-style-type: none"> K35 3,500K 	<ul style="list-style-type: none"> WF 60° 		<ul style="list-style-type: none"> FB Flat Black 	
	<ul style="list-style-type: none"> LV 12V UL Listed CE Approved 	<ul style="list-style-type: none"> 9LED 490-625 Lumens 	<ul style="list-style-type: none"> K40 4,000K 			<ul style="list-style-type: none"> FW Flat White 	
		<ul style="list-style-type: none"> ZD9LED 490-625 Lumens 				<ul style="list-style-type: none"> RL RAL Color 	
		<ul style="list-style-type: none"> ZDC 200 Lumens* 					














EXAMPLE FIXTURE CONFIGURATION: dCST-9-SV-L13-K30-FL-LS-SV-MKCST9

*Available in WF only

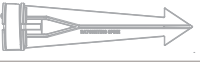

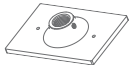




dCrest-9 ORDERING INFORMATION

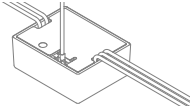
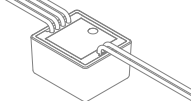
LENS ACCESSORIES: Specify Separately

Item	Code	
SNAP RING LENS HOLDER <i>Accommodates two lenses or baffles SV, UV, and HV only</i>	250025280000	
FLOOD LENS <i>30°-32° 9LED and ZD9LED only</i>	9LEDFLENS	
WIDE FLOOD LENS <i>56°-58° 9LED and ZD9LED only</i>	9LEDWFLENS	
HEX BAFFLE <i>SV, UV, and HV only</i>	250015260000	
LINEAR SPREAD LENS <i>SV, UV, and HV only</i>	250013550000	
SOLITE SPREAD LENS <i>SV, UV, and HV only</i>	250015240000	
FROSTED LENS <i>SV, UV, and HV only</i>	250015170000	
RED DICHROIC LENS <i>SV, UV, and HV only</i>	250015220000	
GREEN DICHROIC LENS <i>SV, UV, and HV only</i>	250015210000	
BLUE DICHROIC LENS <i>SV, UV, and HV only</i>	250015200000	
PEACH DICHROIC LENS <i>SV, UV, and HV only</i>	250015230000	
LIGHT GREEN DICHROIC LENS <i>SV, UV, and HV only</i>	250015180000	
LIGHT BLUE DICHROIC LENS <i>SV, UV, and HV only</i>	250015190000	

MOUNTING OPTIONS: Specify Separately

Mounts	Code	
ProAim™ Ratcheting Spike** <i>10" 25.4 cm x 2.37" 5.1 cm</i>	PARS	
GROUND MOUNT† <i>2.7" 6.7 cm Diameter</i>	GM-XX*	
WALL PLATES† <i>3.4" 8.5 cm x 5.1" 12.9 cm</i>	WP-1G-050-XX*	
WALL PLATES† <i>5.0" 12.7 cm Diameter</i>	WP-RD-050-XX*	
VERSABOX† <i>2.2" 5.7 cm x 1.5" 3.9 cm</i>	VB-050-XX*	

LUXOR CUBES: Specify Separately

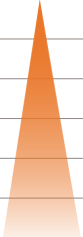
Item	Code	
LINE-VOLTAGE CUBE <i>120V Phase Dimming Module</i>	LCM-HV	
RELAY/0-10V CUBE <i>0-10V and Relay Module</i>	LCM-RLY-010V	

* XX = finish code
 ** Included with LV
 † LV only

dCrest-9 PHOTOMETRICS

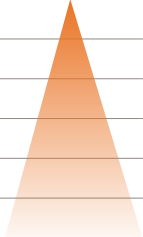
dCrest-9 700 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.1°	Horizontal 24.8°
4.0 ft	138 fc	1.7 ft	1.8 ft
8.0 ft	34.5 fc	3.4 ft	3.5 ft
12.0 ft	15.3 fc	5.1 ft	5.3 ft
16.0 ft	8.62 fc	6.8 ft	7.0 ft
20.0 ft	5.52 fc	8.5 ft	8.8 ft
24.0 ft	3.83 fc	10.2 ft	10.5 ft



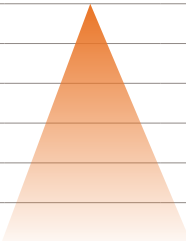
dCrest-9 700 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 37.8°	Horizontal 37.9°
4.0 ft	93.7 fc	2.7 ft	2.7 ft
8.0 ft	23.4 fc	5.5 ft	5.5 ft
12.0 ft	10.4 fc	8.2 ft	8.2 ft
16.0 ft	5.86 fc	10.9 ft	10.9 ft
20.0 ft	3.75 fc	13.7 ft	13.6 ft
24.0 ft	2.60 fc	16.4 ft	16.4 ft




dCrest-9 700 Lumens 60°

Feet	Center Beam	Beam Width	
		Vertical 51.7°	Horizontal 53.6°
4.0 ft	41.7 fc	3.9 ft	4.0 ft
8.0 ft	10.4 fc	7.8 ft	8.1 ft
12.0 ft	4.64 fc	11.6 ft	12.1 ft
16.0 ft	2.61 fc	15.5 ft	16.2 ft
20.0 ft	1.67 fc	19.4 ft	20.2 ft
24.0 ft	1.16 fc	23.3 ft	24.2 ft



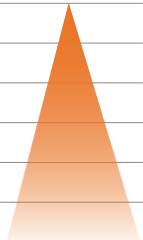
dCrest-9 1,000 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.1°	Horizontal 24.0°
4.0 ft	194 fc	1.7 ft	1.7 ft
8.0 ft	48.6 fc	3.4 ft	3.4 ft
12.0 ft	21.6 fc	5.1 ft	5.1 ft
16.0 ft	12.2 fc	6.8 ft	6.8 ft
20.0 ft	7.78 fc	8.5 ft	8.5 ft
24.0 ft	5.40 fc	10.3 ft	10.2 ft



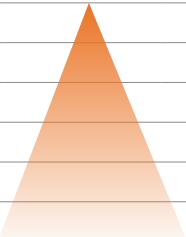
dCrest-9 1,000 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 38.8°	Horizontal 38.7°
4.0 ft	117 fc	2.8 ft	2.8 ft
8.0 ft	29.3 fc	5.6 ft	5.6 ft
12.0 ft	13.0 fc	8.5 ft	8.4 ft
16.0 ft	7.32 fc	11.3 ft	11.2 ft
20.0 ft	4.69 fc	14.1 ft	14.0 ft
24.0 ft	3.25 fc	16.9 ft	16.8 ft



dCrest-9 1,000 Lumens 60°

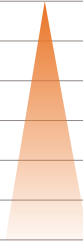
Feet	Center Beam	Beam Width	
		Vertical 52.4°	Horizontal 51.9°
4.0 ft	50.4 fc	3.9 ft	3.9 ft
8.0 ft	12.6 fc	7.9 ft	7.8 ft
12.0 ft	5.60 fc	11.8 ft	11.7 ft
16.0 ft	3.15 fc	15.7 ft	15.6 ft
20.0 ft	2.01 fc	19.7 ft	19.5 ft
24.0 ft	1.40 fc	23.6 ft	23.3 ft



dCrest-9 PHOTOMETRICS


dCrest-9 1,300 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.4°	Horizontal 25.2°
4.0 ft	252 fc	1.7 ft	1.8 ft
8.0 ft	63.0 fc	3.5 ft	3.6 ft
12.0 ft	28.0 fc	5.2 ft	5.4 ft
16.0 ft	15.8 fc	6.9 ft	7.1 ft
20.0 ft	10.1 fc	8.7 ft	8.9 ft
24.0 ft	7.00 fc	10.4 ft	10.7 ft



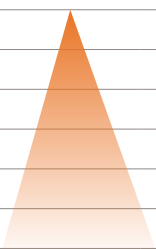
dCrest-9 1,300 Lumens 20° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 24.5°	Horizontal 25.3°
4.0 ft	253 fc	1.7 ft	1.8 ft
8.0 ft	63.1 fc	3.5 ft	3.6 ft
12.0 ft	28.1 fc	5.2 ft	5.4 ft
16.0 ft	15.8 fc	6.9 ft	7.2 ft
20.0 ft	10.1 fc	8.7 ft	8.9 ft
24.0 ft	7.01 fc	10.4 ft	10.8 ft



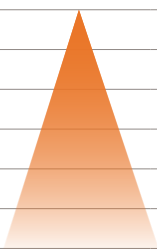
dCrest-9 1,300 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 38.2°	Horizontal 38.3°
4.0 ft	159 fc	2.8 ft	2.8 ft
8.0 ft	39.6 fc	5.5 ft	5.6 ft
12.0 ft	17.6 fc	8.3 ft	8.3 ft
16.0 ft	9.91 fc	11.1 ft	11.1 ft
20.0 ft	6.34 fc	13.8 ft	13.9 ft
24.0 ft	4.40 fc	16.6 ft	16.7 ft



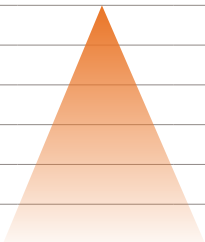
dCrest-9 1,300 Lumens 40° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 38.9°	Horizontal 38.8°
4.0 ft	158 fc	2.8 ft	2.8 ft
8.0 ft	39.6 fc	5.6 ft	5.6 ft
12.0 ft	17.6 fc	8.5 ft	8.5 ft
16.0 ft	9.89 fc	11.3 ft	11.3 ft
20.0 ft	6.33 fc	14.1 ft	14.1 ft
24.0 ft	4.40 fc	16.9 ft	16.9 ft



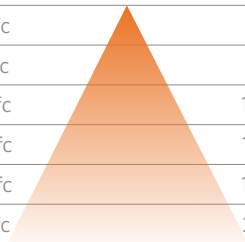
dCrest-9 1,300 Lumens 60°

Feet	Center Beam	Beam Width	
		Vertical 52.4°	Horizontal 52.8°
4.0 ft	69.6 fc	3.9 ft	4.0 ft
8.0 ft	17.4 fc	7.9 ft	7.9 ft
12.0 ft	7.73 fc	11.8 ft	11.9 ft
16.0 ft	4.35 fc	15.7 ft	15.9 ft
20.0 ft	2.78 fc	19.7 ft	19.8 ft
24.0 ft	1.93 fc	23.6 ft	23.8 ft



dCrest-9 1,300 Lumens 60° Long Shroud

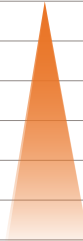
Feet	Center Beam	Beam Width	
		Vertical 48.3°	Horizontal 46.2°
4.0 ft	69.1 fc	3.6 ft	3.4 ft
8.0 ft	17.3 fc	7.2 ft	6.8 ft
12.0 ft	7.67 fc	10.8 ft	10.2 ft
16.0 ft	4.32 fc	14.4 ft	13.7 ft
20.0 ft	2.76 fc	18.0 ft	17.1 ft
24.0 ft	1.92 fc	21.5 ft	20.5 ft



dCrest-9 PHOTOMETRICS

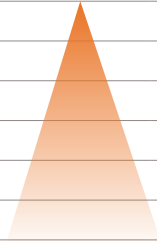
dCrest-9 9LED 40°

Feet	Center Beam	Beam Width	
		Vertical 31.5°	Horizontal 31.7°
4.0 ft	76.9 fc	2.3 ft	2.3 ft
8.0 ft	19.2 fc	4.5 ft	4.5 ft
12.0 ft	8.54 fc	6.8 ft	6.8 ft
16.0 ft	4.80 fc	9.0 ft	9.1 ft
20.0 ft	3.08 fc	11.3 ft	11.3 ft
24.0 ft	2.14 fc	13.5 ft	13.6 ft



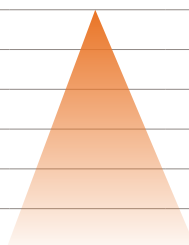
dCrest-9 9LED 40° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 31.6°	Horizontal 31.4°
4.0 ft	76.0 fc	2.3 ft	2.3 ft
8.0 ft	19.0 fc	4.5 ft	4.5 ft
12.0 ft	8.44 fc	6.8 ft	6.8 ft
16.0 ft	4.75 fc	9.0 ft	9.1 ft
20.0 ft	3.04 fc	11.3 ft	11.3 ft
24.0 ft	2.11 fc	13.5 ft	13.6 ft



dCrest-9 ZDC 60°

Feet	Center Beam	Beam Width	
		Vertical 55.3°	Horizontal 54.6°
4.0 ft	11.4 fc	4.2 ft	4.1 ft
8.0 ft	2.84 fc	8.4 ft	8.3 ft
12.0 ft	1.26 fc	12.6 ft	12.4 ft
16.0 ft	0.71 fc	16.8 ft	16.5 ft
20.0 ft	0.45 fc	20.9 ft	20.7 ft
24.0 ft	0.32 fc	25.1 ft	24.8 ft



holm



Optional Long Shroud

TYPE

CATALOG #

PROJECT

NOTES

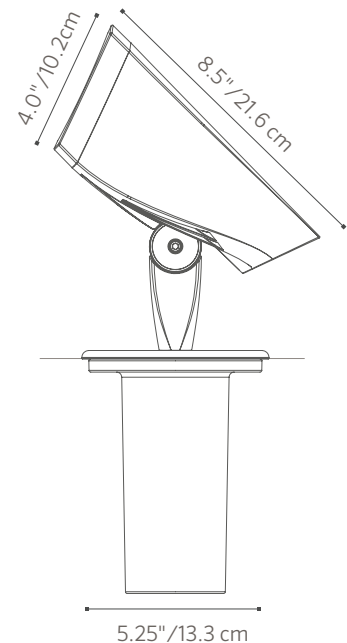
LED DIRECTIONAL FIXTURES

dCrest-9

The highly versatile dCrest-9 offers various mounting options for premier lighting that adds a soft layer of elegance to any project. The luminaire's compact size makes it especially useful for highlighting facades, signage, and other architectural accent features.

Quick Facts

- Die-cast aluminum
- Two-layer marine-grade anodization and powder coat finish
- Xicato® LED module
- Full adjustability
- Dimming: Phase or 0-10V
- Input voltage: 110-277V and 12V
- IP65



dCrest-9 SPECIFICATIONS

Output	L07	L10	L13	9LED	ZD9LED	ZDC
Total Lumens*						
Spot (20°)	585	732	1001	625	625	N/A
Flood (40°)	616	761	1025	575	575	N/A
Wide Flood (60°)	499	565	824	581	581	200
Input Power (W)	9.9	14.2	19.2	11.7	11.7	5.2
Efficacy (Lumens/Watt)	51-62	40-54	43-53	49	49	39
Color Rendering Index (CRI)	84	84	84	83	83	81
Center Beam Candle Power (CBCP)						
Spot (20°)	2456	3123	4067	3420	3420	N/A
Flood (40°)	1560	1874	2537	1234	1234	N/A
Wide Flood (60°)	669	806	1113	607	607	182
Dimming	Phase, 0-10V	Phase, 0-10V	Phase, 0-10V	N/A	ZD	ZDC
Minimum Rated Life (L80)	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs
Luxor® Compatibility						
ZD Option	Luxor CUBE Req'd	Luxor CUBE Req'd	Luxor CUBE Req'd	N/A	Zoning/Dimming	Zoning/Dimming/Color
ZDC Options	N/A	N/A	N/A	N/A	N/A	Yes

* Luminaire output does not change according to specified CCT.

Holm

Holm. Born from an industry demand for a comprehensive offering of distinctive line- and low-voltage luminaires for the commercial market. Our products are designed to meet required specifications while echoing the aesthetics of the project. Holm is a Hunter Industries company with more than three decades of engineering expertise, now bringing its Luxor® technology to the commercial architectural and landscape lighting market.

Materials

Die-cast aluminum A380 housing and shroud with stainless steel hardware.

Lamp

Integrated Xicato® LED module. Next-Generation Corrected Cold Phosphor Technology® keeps phosphors cool for maintained light quality and very tight color consistency (within 1 x 2 MacAdam ellipses). Up to 100+ lumens per watt at operating conditions. CCT range from 2,700K to 4,000K with outputs between 700 and 1,300 lumens.

Ambient Operating Temperature
55°C

Optics

Beam angle options preinstalled: spot (20°), flood (40°), wide flood (60°). Field replaceable.

Socket

Socket contains MoistureBlock™ technology, preventing moisture from wicking into sealed areas of the luminaire via the wiring.

Wiring

UL1015 105°C 600V; 18/3 (1 mm) for phase dim driver and 18/5 (1 mm) for 0-10V driver.

Power

Four input power options: 1) standard voltage using 120V/60Hz input with phase dimming, 2) universal voltage using 110V to 277V/60Hz with 0-10V dimming, 3) high voltage using 220V to 240V/50Hz, or 4) low voltage using 10-15VAC/VDC 50/60Hz (remote transformer required).

Housing

Die-cast aluminum housing with capacity up to 1,300 lumens. Removable LED module, optics and driver.

Mounting Kit

ABS construction sleeve with ½" NPT knockouts. Construction cover included.

Shroud

Die-cast aluminum shroud with recessed lens (standard) or 45° angled cutoff option (long shroud).

Knuckle

Die-cast aluminum knuckle with ½-14 NPSM threads. Compress and lock features prevent slip after installation. 105° of vertical adjustment with 5° increments.

Lens

Tempered glass lens with shock resistance and high tolerance for thermal expansion and stress.

Finish

Two-layer protection of sulfuric acid anodization and polyester TGIC powder coat, providing superior outdoor weathering in all conditions. Tested to ASTM standards.

Hardware

10-24 x ¾" stainless steel angle lock screw (hex) with 6-32 x ½" faceplate screws (hex).

Weight

4.8 lbs. (2.2kg)

Installation Requirements

Designed for in-ground installation in upward or downward directions.

Control

ZDlink™ or ZDlink™ utilizes Luxor® technology to zone light fixtures in up to 250 groups, dim each group in 1% increments between 0 and 100%, or change to one of 30,000 colors with RGBW LEDs. Specify the Luxor Cube for zoning and/or dimming the dCrest-9 with ZDlink or ZDlink (UV option). ZD9LED and ZDC options connect directly to ZDlink or ZDlink.

Sustainability

Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

Warranty

5-year limited warranty

Manufacturing

ISO 9001:2015 certified facility

Listings



dCrest-9 ORDERING INFORMATION

Fixture-Size	Power Control	Output	CCT	Optics	Options	Finish	Mounting Options
dCST-9	■ SV 120V/60 Hz Phase UL Listed	■ L07 499-616 Lumens	■ K27 2,700K	■ SP 20°	■ [default] Standard Shroud	■ BZ Bronze Metallic	■ MKCST9 Standard Kit
	■ UV 110-277V/60Hz 0-10V UL Listed	■ L10 565-761 Lumens	■ K30 3,000K	■ FL 40°	■ LS Long Shroud (45°)	■ SV Silver	
	■ HV 220-240V/50Hz 0-10V CE Approved	■ L13 685-1025 Lumens	■ K35 3,500K	■ WF 60°		■ FB Flat Black	
	■ LV 12V UL Listed CE Approved	■ 9LED 490-625 Lumens	■ K40 4,000K			■ FW Flat White	
		■ ZD9LED 490-625 Lumens				■ RL RAL Color	
		■ ZDC 200 Lumens*					














EXAMPLE FIXTURE CONFIGURATION: dCST-9-SV-L13-K30-FL-LS-SV-MKCST9

*Available in WF only



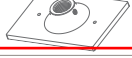




dCrest-9 ORDERING INFORMATION

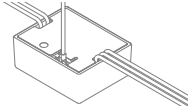
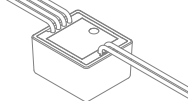
LENS ACCESSORIES: Specify Separately

Item	Code	
■ SNAP RING LENS HOLDER <i>Accommodates two lenses or baffles SV, UV, and HV only</i>	250025280000	
■ FLOOD LENS <i>30°-32° 9LED and ZD9LED only</i>	9LEDFLENS	
■ WIDE FLOOD LENS <i>56°-58° 9LED and ZD9LED only</i>	9LEDWFLENS	
■ HEX BAFFLE <i>SV, UV, and HV only</i>	250015260000	
■ LINEAR SPREAD LENS <i>SV, UV, and HV only</i>	250013550000	
■ SOLITE SPREAD LENS <i>SV, UV, and HV only</i>	250015240000	
■ FROSTED LENS <i>SV, UV, and HV only</i>	250015170000	
■ RED DICHROIC LENS <i>SV, UV, and HV only</i>	250015220000	
■ GREEN DICHROIC LENS <i>SV, UV, and HV only</i>	250015210000	
■ BLUE DICHROIC LENS <i>SV, UV, and HV only</i>	250015200000	
■ PEACH DICHROIC LENS <i>SV, UV, and HV only</i>	250015230000	
■ LIGHT GREEN DICHROIC LENS <i>SV, UV, and HV only</i>	250015180000	
■ LIGHT BLUE DICHROIC LENS <i>SV, UV, and HV only</i>	250015190000	

MOUNTING OPTIONS: Specify Separately

Mounts	Code	
■ ProAim™ Ratcheting Spike** <i>10" 25.4 cm x 2.37" 5.1 cm</i>	PARS	
■ GROUND MOUNT † <i>2.7" 6.7 cm Diameter</i>	GM-XX*	
■ WALL PLATES † <i>3.4" 8.5 cm x 5.1" 12.9 cm</i>	WP-1G-050-XX*	
■ WALL PLATES † <i>5.0" 12.7 cm Diameter</i>	WP-RD-050-XX*	
■ VERSABOX † <i>2.2" 5.7 cm x 1.5" 3.9 cm</i>	VB-050-XX*	

LUXOR CUBES: Specify Separately

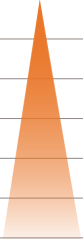
Item	Code	
■ LINE-VOLTAGE CUBE <i>120V Phase Dimming Module</i>	LCM-HV	
■ RELAY/0-10V CUBE <i>0-10V and Relay Module</i>	LCM-RLY-010V	

* XX = finish code
 ** Included with LV
 † LV only

dCrest-9 PHOTOMETRICS

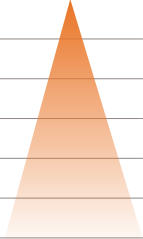
dCrest-9 700 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.1°	Horizontal 24.8°
4.0 ft	138 fc	1.7 ft	1.8 ft
8.0 ft	34.5 fc	3.4 ft	3.5 ft
12.0 ft	15.3 fc	5.1 ft	5.3 ft
16.0 ft	8.62 fc	6.8 ft	7.0 ft
20.0 ft	5.52 fc	8.5 ft	8.8 ft
24.0 ft	3.83 fc	10.2 ft	10.5 ft



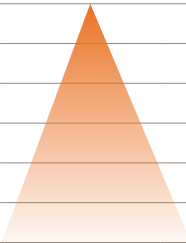
dCrest-9 700 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 37.8°	Horizontal 37.9°
4.0 ft	93.7 fc	2.7 ft	2.7 ft
8.0 ft	23.4 fc	5.5 ft	5.5 ft
12.0 ft	10.4 fc	8.2 ft	8.2 ft
16.0 ft	5.86 fc	10.9 ft	10.9 ft
20.0 ft	3.75 fc	13.7 ft	13.6 ft
24.0 ft	2.60 fc	16.4 ft	16.4 ft




dCrest-9 700 Lumens 60°

Feet	Center Beam	Beam Width	
		Vertical 51.7°	Horizontal 53.6°
4.0 ft	41.7 fc	3.9 ft	4.0 ft
8.0 ft	10.4 fc	7.8 ft	8.1 ft
12.0 ft	4.64 fc	11.6 ft	12.1 ft
16.0 ft	2.61 fc	15.5 ft	16.2 ft
20.0 ft	1.67 fc	19.4 ft	20.2 ft
24.0 ft	1.16 fc	23.3 ft	24.2 ft



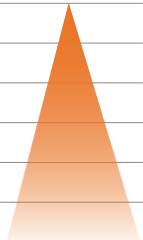
dCrest-9 1,000 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.1°	Horizontal 24.0°
4.0 ft	194 fc	1.7 ft	1.7 ft
8.0 ft	48.6 fc	3.4 ft	3.4 ft
12.0 ft	21.6 fc	5.1 ft	5.1 ft
16.0 ft	12.2 fc	6.8 ft	6.8 ft
20.0 ft	7.78 fc	8.5 ft	8.5 ft
24.0 ft	5.40 fc	10.3 ft	10.2 ft



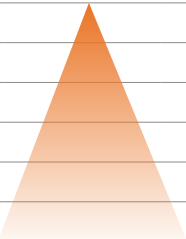
dCrest-9 1,000 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 38.8°	Horizontal 38.7°
4.0 ft	117 fc	2.8 ft	2.8 ft
8.0 ft	29.3 fc	5.6 ft	5.6 ft
12.0 ft	13.0 fc	8.5 ft	8.4 ft
16.0 ft	7.32 fc	11.3 ft	11.2 ft
20.0 ft	4.69 fc	14.1 ft	14.0 ft
24.0 ft	3.25 fc	16.9 ft	16.8 ft



dCrest-9 1,000 Lumens 60°

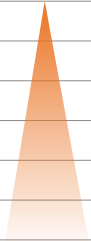
Feet	Center Beam	Beam Width	
		Vertical 52.4°	Horizontal 51.9°
4.0 ft	50.4 fc	3.9 ft	3.9 ft
8.0 ft	12.6 fc	7.9 ft	7.8 ft
12.0 ft	5.60 fc	11.8 ft	11.7 ft
16.0 ft	3.15 fc	15.7 ft	15.6 ft
20.0 ft	2.01 fc	19.7 ft	19.5 ft
24.0 ft	1.40 fc	23.6 ft	23.3 ft



dCrest-9 PHOTOMETRICS

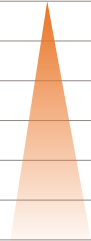
dCrest-9 1,300 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.4°	Horizontal 25.2°
4.0 ft	252 fc	1.7 ft	1.8 ft
8.0 ft	63.0 fc	3.5 ft	3.6 ft
12.0 ft	28.0 fc	5.2 ft	5.4 ft
16.0 ft	15.8 fc	6.9 ft	7.1 ft
20.0 ft	10.1 fc	8.7 ft	8.9 ft
24.0 ft	7.00 fc	10.4 ft	10.7 ft



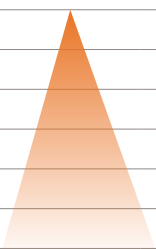
dCrest-9 1,300 Lumens 20° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 24.5°	Horizontal 25.3°
4.0 ft	253 fc	1.7 ft	1.8 ft
8.0 ft	63.1 fc	3.5 ft	3.6 ft
12.0 ft	28.1 fc	5.2 ft	5.4 ft
16.0 ft	15.8 fc	6.9 ft	7.2 ft
20.0 ft	10.1 fc	8.7 ft	8.9 ft
24.0 ft	7.01 fc	10.4 ft	10.8 ft



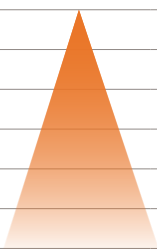
dCrest-9 1,300 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 38.2°	Horizontal 38.3°
4.0 ft	159 fc	2.8 ft	2.8 ft
8.0 ft	39.6 fc	5.5 ft	5.6 ft
12.0 ft	17.6 fc	8.3 ft	8.3 ft
16.0 ft	9.91 fc	11.1 ft	11.1 ft
20.0 ft	6.34 fc	13.8 ft	13.9 ft
24.0 ft	4.40 fc	16.6 ft	16.7 ft



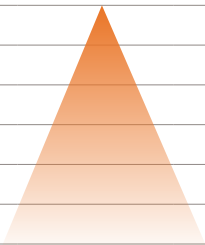
dCrest-9 1,300 Lumens 40° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 38.9°	Horizontal 38.8°
4.0 ft	158 fc	2.8 ft	2.8 ft
8.0 ft	39.6 fc	5.6 ft	5.6 ft
12.0 ft	17.6 fc	8.5 ft	8.5 ft
16.0 ft	9.89 fc	11.3 ft	11.3 ft
20.0 ft	6.33 fc	14.1 ft	14.1 ft
24.0 ft	4.40 fc	16.9 ft	16.9 ft



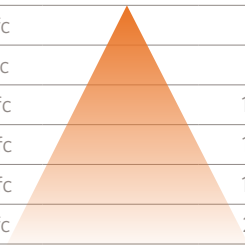
dCrest-9 1,300 Lumens 60°

Feet	Center Beam	Beam Width	
		Vertical 52.4°	Horizontal 52.8°
4.0 ft	69.6 fc	3.9 ft	4.0 ft
8.0 ft	17.4 fc	7.9 ft	7.9 ft
12.0 ft	7.73 fc	11.8 ft	11.9 ft
16.0 ft	4.35 fc	15.7 ft	15.9 ft
20.0 ft	2.78 fc	19.7 ft	19.8 ft
24.0 ft	1.93 fc	23.6 ft	23.8 ft



dCrest-9 1,300 Lumens 60° Long Shroud

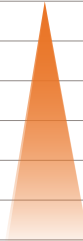
Feet	Center Beam	Beam Width	
		Vertical 48.3°	Horizontal 46.2°
4.0 ft	69.1 fc	3.6 ft	3.4 ft
8.0 ft	17.3 fc	7.2 ft	6.8 ft
12.0 ft	7.67 fc	10.8 ft	10.2 ft
16.0 ft	4.32 fc	14.4 ft	13.7 ft
20.0 ft	2.76 fc	18.0 ft	17.1 ft
24.0 ft	1.92 fc	21.5 ft	20.5 ft



dCrest-9 PHOTOMETRICS

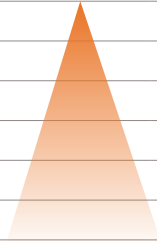
dCrest-9 9LED 40°

Feet	Center Beam	Beam Width	
		Vertical 31.5°	Horizontal 31.7°
4.0 ft	76.9 fc	2.3 ft	2.3 ft
8.0 ft	19.2 fc	4.5 ft	4.5 ft
12.0 ft	8.54 fc	6.8 ft	6.8 ft
16.0 ft	4.80 fc	9.0 ft	9.1 ft
20.0 ft	3.08 fc	11.3 ft	11.3 ft
24.0 ft	2.14 fc	13.5 ft	13.6 ft



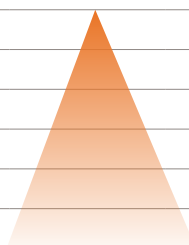
dCrest-9 9LED 40° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 31.6°	Horizontal 31.4°
4.0 ft	76.0 fc	2.3 ft	2.3 ft
8.0 ft	19.0 fc	4.5 ft	4.5 ft
12.0 ft	8.44 fc	6.8 ft	6.8 ft
16.0 ft	4.75 fc	9.0 ft	9.1 ft
20.0 ft	3.04 fc	11.3 ft	11.3 ft
24.0 ft	2.11 fc	13.5 ft	13.6 ft



dCrest-9 ZDC 60°

Feet	Center Beam	Beam Width	
		Vertical 55.3°	Horizontal 54.6°
4.0 ft	11.4 fc	4.2 ft	4.1 ft
8.0 ft	2.84 fc	8.4 ft	8.3 ft
12.0 ft	1.26 fc	12.6 ft	12.4 ft
16.0 ft	0.71 fc	16.8 ft	16.5 ft
20.0 ft	0.45 fc	20.9 ft	20.7 ft
24.0 ft	0.32 fc	25.1 ft	24.8 ft



DESIGN REVIEW SUBMITTAL LIGHTING FIXTURE BROCHURE

CERES COMMUNITY PROJECT

1255 Apollo Way

Santa Rosa, CA 95407

October 19, 2022

FORM AND FUNCTION

- Sleek, low profile housing
- Spec grade performance
- Engineered for optimum thermal management
- Low depreciation rate
- Reduces energy consumption and costs up to 65%
- Exceeds IES foot candle levels utilizing the least number of poles and fixtures per project
- Optical system designed for:
 - Parking Lots
 - Auto Dealerships
 - General Area Lighting

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

FINISH

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

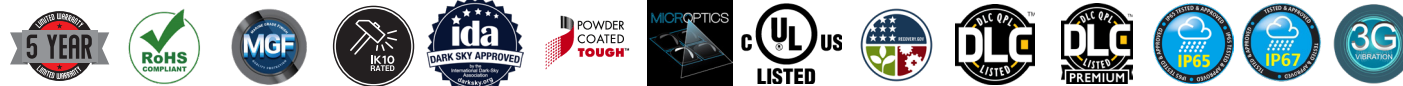
WARRANTY

Five-year limited warranty for drivers and LEDs.



LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010
- IDA Dark Sky Approved



LED WATTAGE CHART

	16L	32L	48L	64L
350 milliamps	18w	-	-	-
530 milliamps	28w	-	-	-
700 milliamps	36w	71w	104w	136w
1050 milliamps	56w	106w	156w	205w

Project Name: _____ Type: _____

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options
NV-1 (NV-1)	Type 2 (T2)	16 (16L)	350 (35)	2700K, 80 CRI (27K8) ① ②	120-277 (UNV)	Architectural Sweep Arm (ASA)	Bronze Textured (BRZ)	Bird Spikes (BS) Marine Grade Finish (MGF) Optic Plate Painted to Match Fixture (OPP) Nema 7-Pin Receptacle (PE7) Photocell + Receptacle (PCR) Receptacle + Shorting Cap (PER) FSP-211 with Motion Sensor (FSP-20) ④ 9'-20" Heights (FSP-40) ④ 21'-40" Heights Quick Mount Bracket (QMB) Retrofit Mount Bracket (RQMB) Round Pole Adaptor 3"- 4" Pole (RPA4) Round Pole Adaptor 5"- 6" Pole (RPA5) Rotated Optic Left (ROL) Rotated Optic Right (ROR) Automotive House Side Shield (AHS) House Side Shield (HSS) ⑤ Black Hardware (BH) Black Optic Frame (BOF)
	Type 3 (T3)	32 (32L)	530 (53)	3000K, 70 CRI (30K7) ⑥	347-480 (HV)	Direct Pole 3" Arm Single, D180 (DPS3) ②	White Textured (WHT)	
	Type 4 (T4)	48 (48L)	700 (7)	3000K, 80 CRI (30K8) ① ③		Direct Pole 7" Arm D180, D90, T90, T120, Quad (DPS7) ②	Smooth White Gloss (SWT)	
	Type 5 (T5)	64 (64L)	1050 (1)	3500K, 80 CRI (35K8)		Knuckle Mount (KM)	Silver (SVR)	
	Nema 2 24° Narrow Beam (N2)			4000K, 70 CRI (40K7)		Wall Mount (WM)	Black Textured (BLK)	
Nema 3 30° Narrow Beam (N3)			4000K, 80 CRI (40K8) ①		Trunnion Mount (TM) ②	Smooth Black Gloss (SBK)		
			5000K, 70 CRI (50K7)		Tennis Arm (TA)	Graphite Textured (GPH)		
			5000K, 80 CRI (50K8) ①		Mast Arm (MA)	Grey Textured (GRY)		
						Custom (CS)		

Notes:
 ① Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
 ② For Round Pole Specify RPA4 or RPA5
 ③ Standard finish is stainless steel. Can be painted to match fixture
 ④ Universal Voltage 120-277
 ⑤ HSS not applicable with Nema 2 and Nema 3 Optics
 ⑥ 3000K or warmer must be selected to meet International Dark-Sky Association certification.

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%
- All internal wiring UL certified for 600 VAC and 105°C
- All drivers, controls, and sensors housed in enclosed IP-65 compartment
- CRI 70, 80 or 90
- Color temperatures: 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KVA supplied as standard.

CONSTRUCTION

- Die Cast Aluminum
- External cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP-65 seal for electronics compartment
- One-piece Optics Plate™ mounting silicone Micro Optics
- Two-piece silicone Micro Optic system ensures IP-67 level seal around each PCB
- Grade 2 Clear Anodized Optics Plate™ standard

OPTIONS

- BIRD SPIKES (BS)—Offers a practical and humane deterrent for larger bird species and provides a cost-effective long-term solution to nuisance bird infestations and protects your property.
- 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.
- SHIELDS (HSS, AHS)—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.
- OPTIC PLATE PAINTED TO MATCH FIXTURE (OPP)—Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.
- ROTATED OPTICS (ROL) (ROR)—Rotated optics are designed for perimeter lighting for auto dealerships.
- ROUND POLE ADAPTER (RPA)— When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.
- QUICK MOUNT BRACKET (QMB)—Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.
- RETROFIT MOUNT BRACKET— Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".
- BLACK HARDWARE— Optional black painted hardware.
- BLACK OPTIC FRAME

CONTROL OPTIONS

- 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-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.
- Controls Agnostics: Please contact factory for your preferred controls option.
- NEMA 7-PIN RECEPTACLE (PE7)—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- PHOTOCELL + RECEPTACLE (PCR)—7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.
- RECEPTACLE + SHORTING CAP (PER)—7-Pin Receptacle and Shorting Cap.

FINISH

- 3-5 mils electrostatic powder coat.
- NLS Light's standard high-quality finishes prevent corrosion protects against and extreme environmental conditions

WARRANTY

Five-year limited warranty for drivers and LEDs.

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

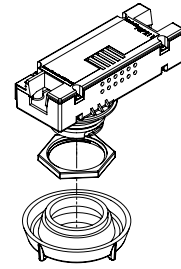
LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65/ IP67 Rated
- 3G Vibration Rated per ANSI C136.31-2010

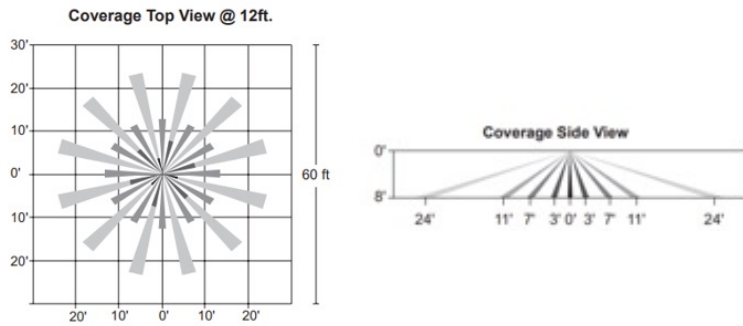
PRODUCT SPECIFICATIONS

CONTROLS

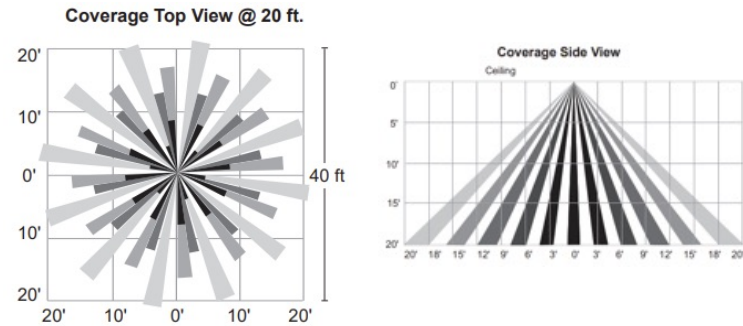
- **DIMMING CONTROL (FSP)**—Passive infrared (PIR) sensor providing multi-level control based on motion/daylight contribution.
 - All control parameters adjustable via wireless configuration remote storing and transmitting sensor profiles.
 - FSP-8 mounting heights 8 feet and below
 - FSP-20 mounting 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.



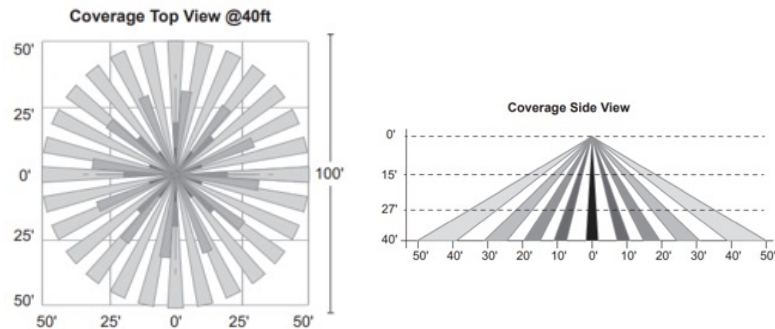
FSP-8



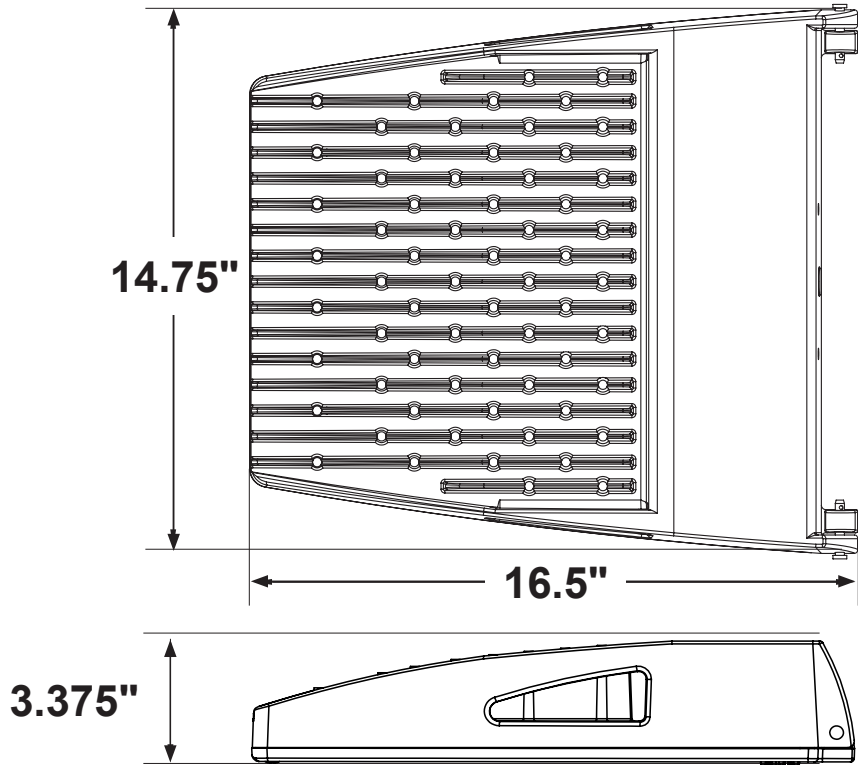
FSP-20



FSP-40



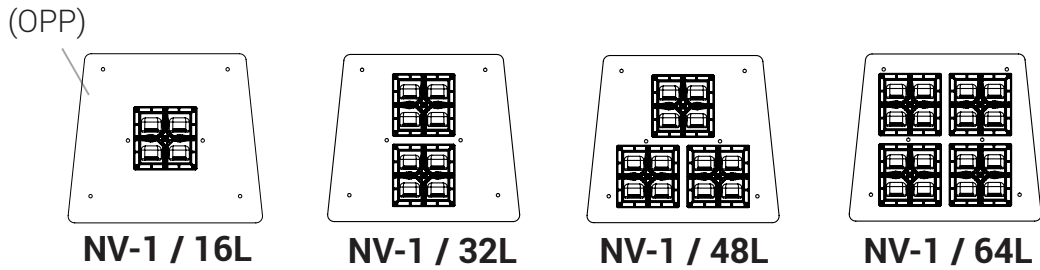
PRODUCT SPECIFICATIONS



Weight: 24 lbs

OPTICAL CONFIGURATIONS

Rotatable Optics (ROR) Rotated Right, (ROL) Rotated Left options available. Optics field and factory rotatable.

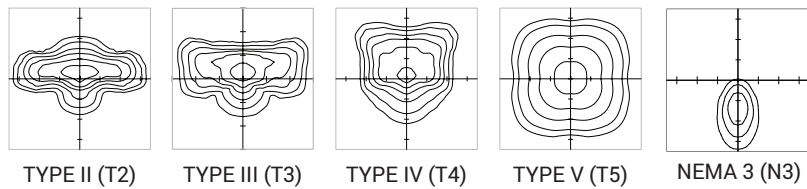


* **OPTIC PLATE PAINTED TO MATCH FIXTURE FINISH (OPP)**– Optic Plate standard clear anodized, Grade 2. When (OPP) specified, Optic Plate finish will match fixture finish.

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.

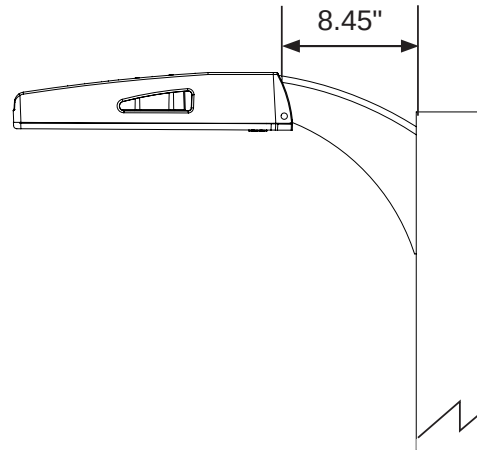
- IES Types



MOUNTING OPTIONS

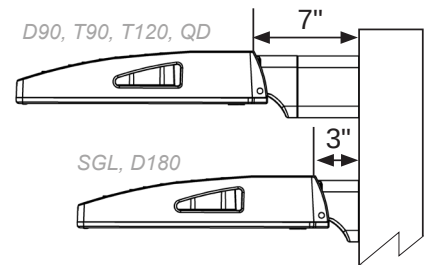
ARCHITECTURAL SWEEP ARM (ASA)

Cast Sweep Arm includes (as standard)
Internal Quick Mount Bracket.



DIRECT POLE (DP)

Standard mounting arm is extruded
aluminum in lengths of 3" and 7".
**Arm lengths may vary depending on configuration*

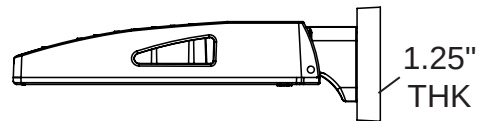


DPX ARM LENGTH

DPX ARM LENGTH	SGL	D90	D180	D180	T90	T120	QD
NV-1	3"	7"	3"	7"	7"	7"	7"

WALL MOUNT (WM)

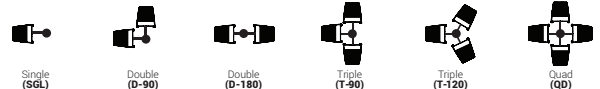
Cast Aluminum Plate for direct wall
mount. 3" extruded aluminum arm
mounts directly to a cast wall mount box.



EPA

EPA	SGL	D90	D180	T90	T120	QD
NV-1-DP3	0.46		0.92			
NV-1-DP7		1.14	1.05	1.34	1.37	1.34
NV-1-KM	0.54	N/A	1.08	N/A	N/A	N/A
NV-1-ASA	0.75	1.29	1.50	1.99	2.05	1.99

MOUNTING CONFIGURATION

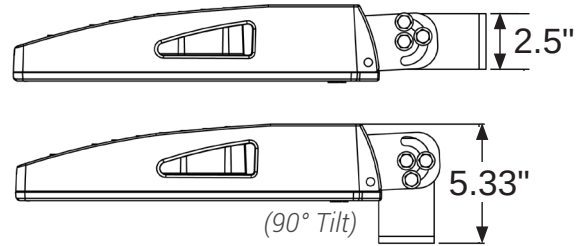


MOUNTING OPTIONS

TRUNNION MOUNT (TM)

Steel, bolt-on-mounting for adjustable installation with a maximum uplift of 90 degrees.

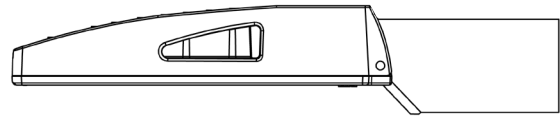
**Unpainted stainless steel is standard*



TENNIS ARM (TA)

Steel fitter slips over 3.5" x 1.5" rectangular arm.

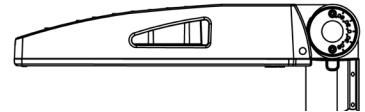
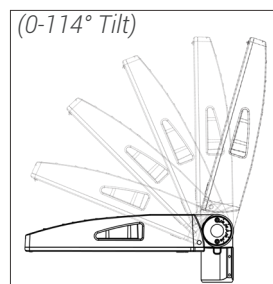
**See Tennis Arm Spec Sheet for details*



KNUCKLE MOUNT (KM)

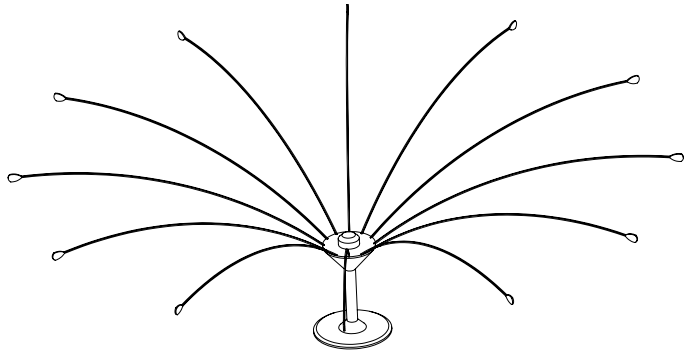
Die Cast Knuckle great for adjustable installation on 2-3/8" OD vertical or horizontal tenon.

- Max Up-tilt of 90 degrees
- Adjustable in 6 degree increments
- 1.5G Vibration Rated per ANSI C136.31-2010



BIRD DETERRENT (BD)

Bird Deterrent offers effective and humane deterrent for larger bird species and provides cost-effective long-term solution to nuisance bird infestations and protect your property.



MARINE GRADE FINISH (MGF)



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

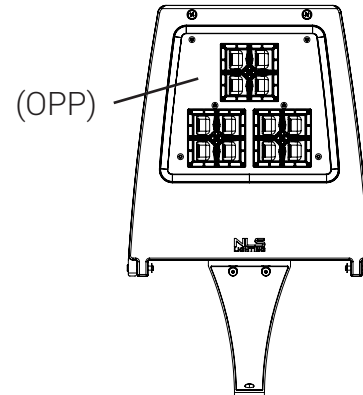
Marine Grade Finish (MGF)

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

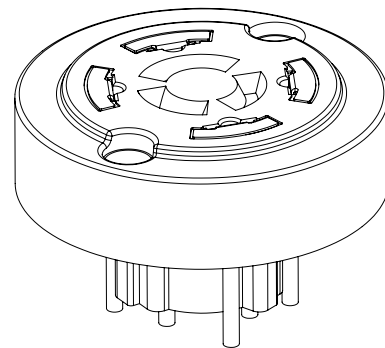
OPTIC PLATE PAINTED TO MATCH (OPP)

Optic plate is clear anodized as standard. The optic plate can be powder coated to match the finish of the fixture.



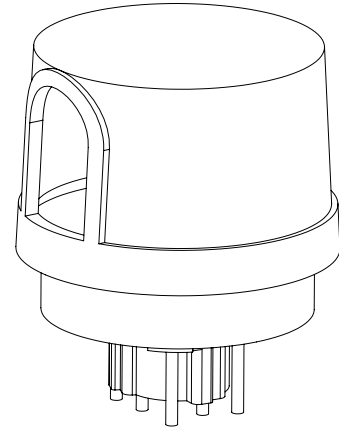
NEMA 7-PIN RECEPTACLE (PE7)

An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.



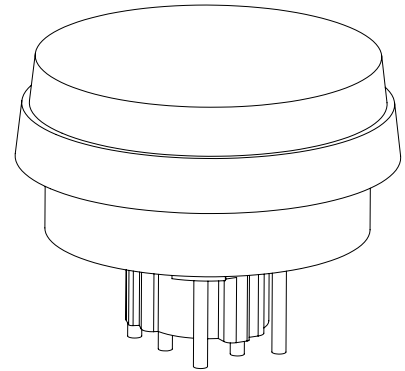
PHOTOCELL + RECEPTACLE (PCR)

7-Pin Receptacle and Electronic Twist Lock Photocell for dusk to dawn operation.



RECEPTACLE + SHORTING CAP (PER)

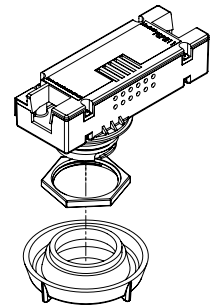
7-Pin Receptacle and Shorting Cap.



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-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.

FSP-211



QUICK MOUNT BRACKET (QMB)

Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Has a 2"x4" Drill Pattern.



RETROFIT MOUNT BRACKET (RQMB)

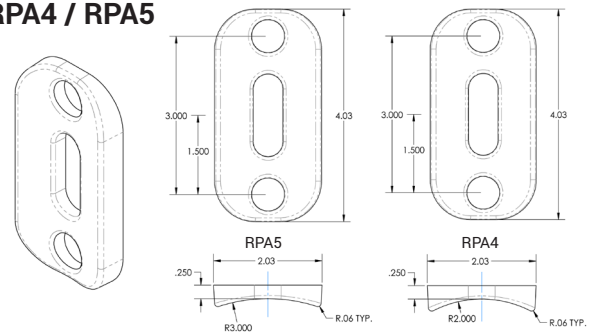
Optional Cast Aluminum Bracket designed for quick mounting on Direct Square or Round Poles. Cleat mounts directly to pole for easily hung fixtures. Drill Pattern is adjustable from 2"x4" to 2"x6".



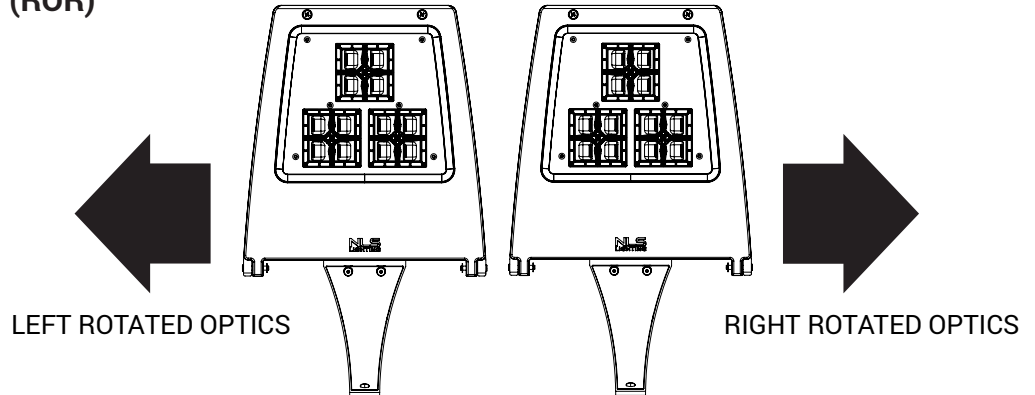
ROUND POLE ADAPTER OPTIONS (RPA4) (RPA5)

When using round poles, specify Round Pole Adapter (RPA). Specify RPA4 when installing on 3"-4" round poles, and RPA5 when installing on 5"-6" round poles.

RPA4 / RPA5

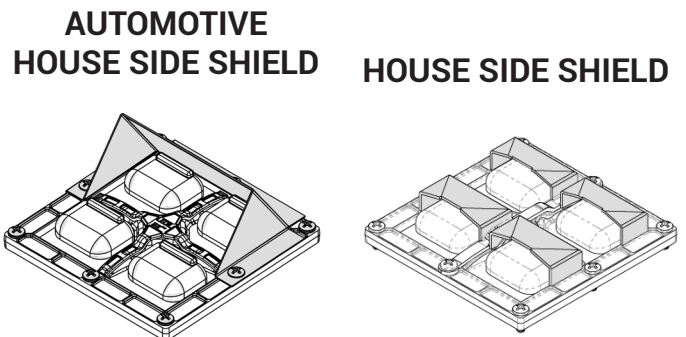


ROTATED OPTICS (ROL) (ROR)

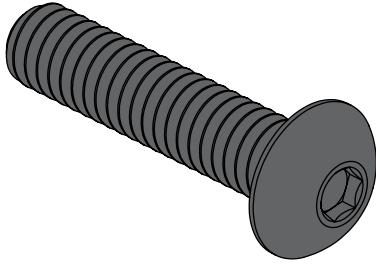


SHIELDING OPTIONS (AHS) (HSS)

SHIELDS (HSS, AHS)—House Side Shield (HSS) is designed for full property line cut-off. Automotive House Side Shield (AHS) is a single-sided shield allowing partial cut-off on either side or front of luminaire.



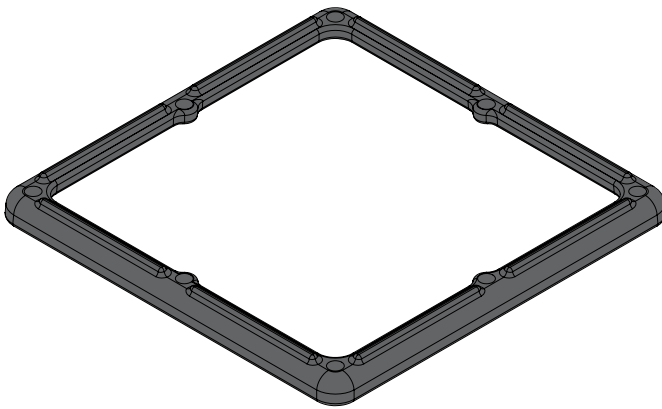
BLACK HARDWARE



Black Hardware (BH)

Optional black painted hardware.

BLACK OPTIC FRAME



Black Optic Frame (BOF)

Optional Black Optic Frame.

LUMENS

PART NUMBER	N3	LM/W	T2	LM/W	DLC	T3	LM/W	DLC	T3 HSS	LM/W	T4	LM/W	DLC	T4 AHS	LM/W	T4 HSS	LM/W	T5	LM/W	DLC	W
NV-1-16L-35-30K7	2016	112	2106	117	P	2106	117	P	1134	63	2187	116	P	1296	72	1116	62	2231	118	P	18
NV-1-16L-35-40K7	2088	116	2268	126	P	2286	127	P	1206	67	2250	125	P	1368	76	1188	66	2304	128	P	18
NV-1-16L-35-50K7	2160	120	2376	132	P	2394	133	P	1278	71	2358	131	P	1440	80	1260	70	2412	134	P	18
NV-1-16L-53-30K7	3136	112	3192	114	P	3220	115	P	1764	63	3119	113	P	2016	72	1736	62	3248	116	P	28
NV-1-16L-53-40K7	3248	116	3472	124	P	3472	124	P	1876	67	3444	123	P	2128	76	1848	66	3500	125	P	28
NV-1-16L-53-50K7	3360	120	3612	129	P	3640	130	P	1988	71	3584	128	P	2240	80	1960	70	3668	131	P	28
NV-1-16L-7-30K7	4032	112	3960	110	P	3960	110	P	2268	63	3973	109	P	2592	72	2232	62	3996	111	P	36
NV-1-16L-7-40K7	4176	116	4428	123	P	4284	119	P	2412	67	4212	117	P	2736	76	2376	66	4320	120	P	36
NV-1-16L-7-50K7	4320	120	4644	129	P	4500	125	P	2556	71	4428	123	P	2880	80	2520	70	4500	125	P	36
NV-1-32L-7-40K7	6272	112	6160	110	S	6384	114	P	3528	63	6232	112	P	4032	72	3472	62	6440	115	P	56
NV-1-16L-1-40K7	6496	116	6832	122	P	6888	123	P	3752	67	6776	121	P	4256	76	3696	66	6944	124	P	56
NV-1-16L-1-50K7	6720	120	7168	128	P	7224	129	P	3976	71	7112	127	P	4480	80	3920	70	7280	130	P	56
NV-1-32L-7-30K7	7952	112	7810	110	S	7810	110	S	4473	63	7739	109	S	5112	72	4402	62	7881	111	S	71
NV-1-32L-7-40K7	8236	116	9017	127	P	8449	119	P	4757	67	8307	117	P	5396	76	4686	66	8520	120	P	71
NV-1-32L-7-50K7	8520	120	9159	129	P	8875	125	P	5041	71	8733	123	P	5680	80	4970	70	8946	126	P	71
NV-1-32L-1-30K7	11872	112	11660	110	S	12084	114	S	6678	63	11820	112	S	7632	72	6572	62	12190	115	S	106
NV-1-32L-1-40K7	12296	116	12932	122	P	13038	123	P	7102	67	12826	121	P	8056	76	6996	66	13144	124	P	106
NV-1-32L-1-50K7	12720	120	13568	128	P	13674	129	P	7526	71	13462	127	P	8480	80	7420	70	13780	130	P	106
NV-1-48L-7-30K7	11648	112	11440	110	S	11440	110	S	6552	63	11336	109	S	7488	72	6448	62	11544	111	S	104
NV-1-48L-7-40K7	12064	116	13208	127	P	12376	119	P	6968	67	12168	117	P	7904	76	6864	66	12480	120	P	104
NV-1-48L-7-50K7	12480	120	13520	130	P	13000	125	P	7384	71	12792	123	P	8320	80	7280	70	13104	126	P	104
NV-1-48L-1-30K7	17472	112	17160	110	S	17784	114	S	9828	63	17472	112	S	11232	72	9672	62	17940	115	S	156
NV-1-48L-1-40K7	18096	116	19032	122	P	19188	123	P	10452	67	18876	121	P	11856	76	10296	66	19344	124	P	156
NV-1-48L-1-50K7	18720	120	19968	128	P	20124	129	P	11076	71	19812	127	P	12480	80	10920	70	20280	130	P	156
NV-1-64L-7-30K7	15232	112	14960	110	S	14960	110	S	8568	63	14824	109	S	9792	72	8432	62	15096	111	S	136
NV-1-64L-7-40K7	15776	116	17272	127	P	16184	119	P	9112	67	15912	117	P	10336	76	8976	66	16320	120	P	136
NV-1-64L-7-50K7	16320	120	17680	130	P	17000	125	P	9656	71	16728	123	P	10880	80	9520	70	17136	126	P	136
NV-1-64L-1-30K7	22960	112	22550	110	S	23370	114	S	12915	63	22960	112	S	14760	72	12710	62	23575	115	S	205
NV-1-64L-1-40K7	23780	116	25010	122	P	25215	123	P	13735	67	24805	121	P	15580	76	13530	66	25420	124	P	205
NV-1-64L-1-50K7	24600	120	26240	128	P	26445	129	P	14555	71	26035	127	P	16400	80	14350	70	26650	130	P	205

3000k or warmer must be selected to meet International Dark-Sky Association certification.

BUG RATINGS

PART NUMBER	T2	T3	T3 HSS	T4	T4 HSS	T5
NV-1-16L-35-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G0
NV-1-16L-35-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G0	B1-U0-G1	B0-U0-G0	B2-U0-G2
NV-1-16L-53-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-53-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B2-U0-G1
NV-1-16L-7-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-40K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-7-50K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-30K7	B1-U0-G1	B1-U0-G1	B0-U0-G1	B1-U0-G1	B0-U0-G1	B3-U0-G1
NV-1-16L-1-40K7	B1-U0-G1	B2-U0-G2	B2-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-16L-1-50K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-30K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G1	B3-U0-G2
NV-1-32L-7-40K7	B1-U0-G2	B2-U0-G2	B0-U0-G1	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-7-50K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2
NV-1-32L-1-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B3-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-32L-1-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B0-U0-G2	B4-U0-G2
NV-1-48L-7-30K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-40K7	B2-U0-G2	B2-U0-G2	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-7-50K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B2-U0-G2	B0-U0-G2	B4-U0-G2
NV-1-48L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-48L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-48L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B5-U0-G3
NV-1-64L-7-30K7	B2-U0-G2	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-40K7	B3-U0-G3	B3-U0-G3	B0-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-7-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G2	B4-U0-G2
NV-1-64L-1-30K7	B3-U0-G3	B3-U0-G3	B1-U0-G2	B3-U0-G3	B1-U0-G3	B5-U0-G3
NV-1-64L-1-40K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3
NV-1-64L-1-50K7	B3-U0-G3	B3-U0-G3	B1-U0-G3	B3-U0-G4	B1-U0-G3	B5-U0-G3

Lumen Maintenance Data

Ambient Temperature	Drive Current	L90 Hours*	L70 Hours**	30,000 Hours*	50,000 Hours*	60,00 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



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HIGH PERFORMANCE FULL CUT OFF WALL PACK

FORM AND FUNCTION

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

CONSTRUCTION

- Die Cast Aluminum
- Internal cooling fins
- Corrosion resistant external hardware
- One-piece silicone gasket ensures IP65 seal for electronics compartment
- Two-piece silicone Micro Optic system ensures IP67 level seal around each PCB
- Silicone Micro Optics: Recessed, full cutoff and non-yellowing
- Dark Sky Compliant

FINISH

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

WARRANTY

Five-year standard warranty



LISTINGS

- Certified to UL 1598
- UL 8750
- CSA C22.2 No. 250.0
- DesignLights Consortium® (DLC)
- DesignLights Consortium Premium® (DLCP)
- IP65 / IP67 Rated
- IK10 Compliant
- IDA Dark Sky Approved



LED WATTAGE CHART

	16L	32L
350 milliamps	19w	-
530 milliamps	29w	-
700 milliamps	37w	71w
1000 milliamps	-	100w
1050 milliamps	56w	

Project Name: _____ Type: _____

Cat#	Light Dist.	# of LEDs	Milliamps	Kelvin	Volts	Mounting	Color	Options	Options
NV-W (NV-W)	Type 2 (T2)	16 (16L)	350 (35)	2700K, 80 CRI (27K8) ① ③	120-277 (UNV)	Wall Moun (WM)	Bronze Textured (BRZ)	Marine Grade Finish (MGF)	FSP-211 with Motion Sensor (FSP-8) ④
	Type 3 (T3)	32 (32L)	530 (53)	3000K, 70 CRI (30K7) ③	347-480 (HV)		White Textured (WHT)	Vanity Plate 16" SQ (VP16)	*8' Heights and below (FSP-20) ④
	Type 4 (T4)		700 (7)	3000K, 80 CRI (30K8) ① ③		Smooth White Gloss (SWT)	Housing Extension (HE) ②	+9'-20' Heights Nema 7-Pin Receptacle (PE7) ③	
			1000 (1A) ⑥	3500K, 80 CRI (35K8)		Silver (SVR)	Surge Protector (20KA)	Button Photo Cell (PC) ④	
			1050 (1) ⑦	4000K, 70 CRI (40K7)		Black Textured (BLK)		Emergency Battery 4w 516-564 Lumens (EM4) ④ ⑤	
				4000K, 80 CRI (40K8) ①		Smooth Black Gloss (SBK)		Emergency Battery 8w 1032-1128 Lumens (EM8) ④ ⑤	
			5000K, 70 CRI (50K7)		Graphite Textured (GPH)		Emergency Battery 18w 2064-2256 Lumens (EM16) ④ ⑤		
			5000K, 80 CRI (50K8) ①		Grey Textured (GRY)		Emergency Cold Pk Battery 14w 1806-1974 Lumens (EMCP) ④ ⑤		
					Custom (CS)				

Notes:

- Consult Factory for Lead Time. Consult Factory for 90 CRI Requests.
- To match EM Extension Box
- Requires Deep Back Box
- Universal Voltage 120-277
- All Emergency Battery Options Certified CA Title 20
- (1A) 32L only
- (1) 16L only
- 3000K or warmer must be selected to meet International Dark-Sky Association certification.

ELECTRICAL

- 120-277 Volts (UNV) or 347-480 Volts (HV)
- 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 IP65 compartment
- Lumileds Luxeon MX LED's
- CRI 70, 80 or 90
- Color temperatures: 2700K, 3000K, 3500K, 4000K, 5000K
- Surge Protection: 20KA is available as an option

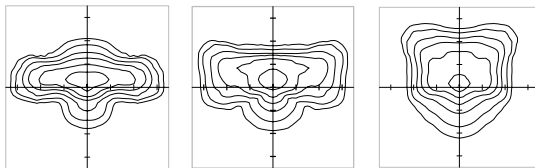
OPTIONS

- **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.
 - 1-2 feet inside pole coverage top and bottom.
 - Oven Baked.
 - Finished Powder Coating of Super Durable Polyester Powder Coat 3-5 mil thickness.
- **VANITY PLATE (VP)**—The Vanity Plate was designed to cover the un-sightly remains on a wall where a larger HID wallpack was removed. The Vanity Plate will be painted to match the finish of the NV-W, custom finishes are available, please consult factory. The standard Vanity Plate is 16" x 16".
- **NEMA 7-PIN RECEPTACLE (PE7)**—An ANSI C136.41-2013 receptacle provides electrical and mechanical interconnection between photo control cell and luminaire. Dimming receptacle available two or four dimming contacts supports 0-10 VDC dimming methods or Digital Addressable Lighting Interface (DALI), providing reliable power interconnect.
- **EMERGENCY BATTERY OPERATION**— The emergency battery backup is integral to the NV-W. All emergency backup configurations include a standalone secondary driver with integral relay to detect power loss. This meets NFPA 70/NEC 2008. The emergency battery will power the NV-W for 90 minutes once power is lost. Emergency battery pack are of LiFeP04 batteries. (EMCP) Emergency Cold Pack Batteries are rated for -20°C to 50°C.

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.

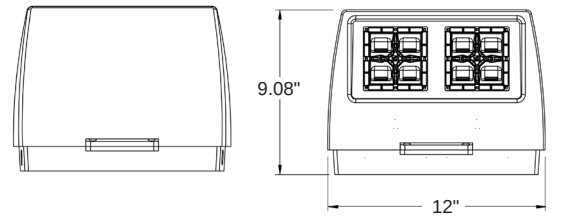
- IES Types



TYPE II (T2)

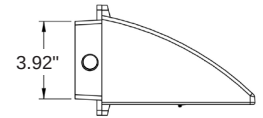
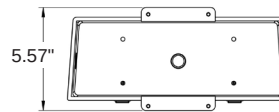
TYPE III (T3)

TYPE IV (T4)



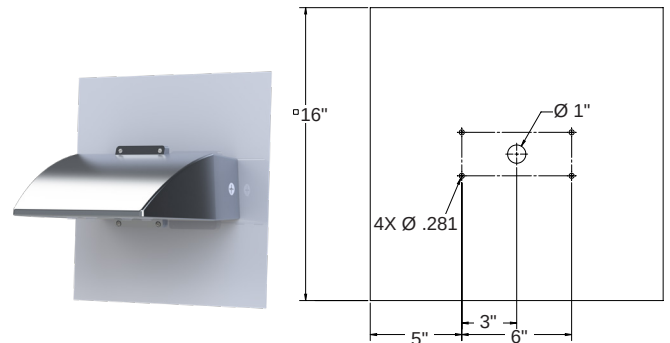
TOP VIEW

BOTTOM VIEW

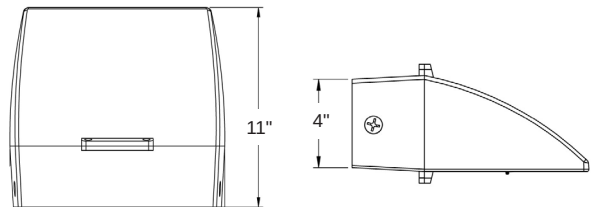


Weight: 9.1 lbs

VANITY PLATE (VP)



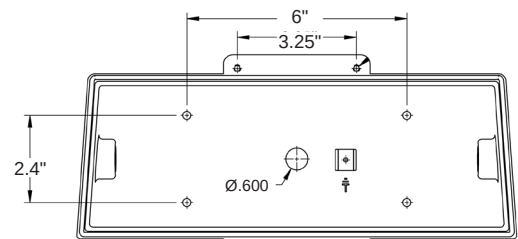
EMERGENCY BATTERY AND 7-PIN EXTENSION BOX DIMENSIONS



TOP VIEW

Weight: 13.3 lbs

MOUNTING HOLE



* 3 Conduit access points on either side or center back.

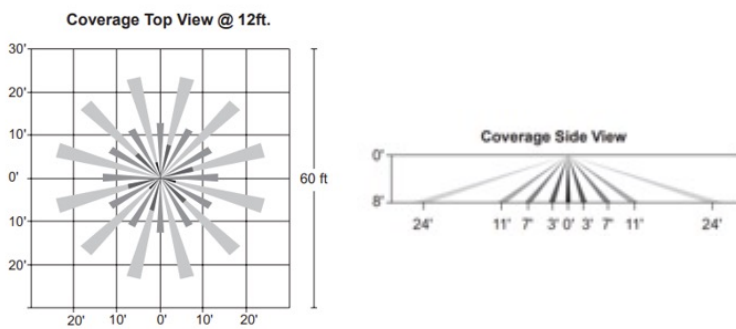
MOTION SENSOR PLACEMENT



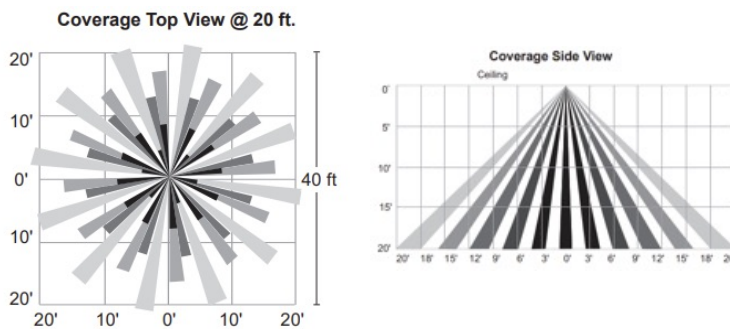
CONTROLS

- **DIMMING CONTROL (FSP)**—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
 - Includes 5 dimming event cycles, 0-10V dimming with motion sensing, reprogrammable in the field.

FSP-8



FSP-20



LUMENS

PART NUMBER	T2	LM/W	T3	LM/W	T4	LM/W	WATTS
NV-W 16L-35-30K7	2470	130	2499	132	2470	130	19
NV-W 16L-35-40K7	2618	138	2648	139	2618	138	19
NV-W 16L-35-50K7	2618	138	2648	139	2618	138	19
NV-W 16L-53-30K7	3544	122	3579	123	3544	122	29
NV-W 16L-53-40K7	3756	130	3794	131	3756	130	29
NV-W 16L-53-50K7	3756	130	3794	131	3756	130	29
NV-W 16L-7-30K7	4388	119	4432	120	4388	119	37
NV-W 16L-7-40K7	4651	126	4698	127	4651	126	37
NV-W 16L-7-50K7	4651	126	4698	127	4651	126	37
NV-W 16L-1-30K7	5970	107	6029	108	5970	107	56
NV-W 16L-1-40K7	6328	113	6391	114	6328	113	56
NV-W 16L-1-50K7	6328	113	6391	114	6328	113	56
NV-W 32L-7-30K7	9010	127	9100	128	9010	127	71
NV-W 32L-7-40K7	9550	135	9646	136	9550	135	71
NV-W 32L-7-50K7	9550	135	9646	136	9550	135	71
NV-W 32L-1A-30K7	10871	109	10983	110	10871	109	100
NV-W 32L-1A-40K7	11426	114	11544	115	11426	114	100
NV-W 32L-1A-50K7	11426	114	11544	115	11426	114	100

3000k or warmer must be selected to meet International Dark-Sky Association certification.

BUG RATINGS

PART NUMBER	T2	T3	T4	WATTS
NV-W-16L-35-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	19
NV-W-16L-35-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	19
NV-W-16L-35-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	19
NV-W-16L-53-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	29
NV-W-16L-53-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	29
NV-W-16L-53-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	29
NV-W-16L-7-30K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	37
NV-W-16L-7-40K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	37
NV-W-16L-7-50K7	B1-U0-G1	B1-U0-G1	B1-U0-G1	37
NV-W-16L-1-30K7	B1-U0-G1	B1-U0-G2	B1-U0-G2	56
NV-W-16L-1-40K7	B1-U0-G1	B1-U0-G2	B1-U0-G2	56
NV-W-16L-1-50K7	B1-U0-G1	B1-U0-G2	B1-U0-G2	56
NV-W-32L-7-30K7	B1-U0-G2	B2-U0-G2	B2-U0-G2	71
NV-W-32L-7-40K7	B1-U0-G2	B2-U0-G2	B2-U0-G2	71
NV-W-32L-7-50K7	B1-U0-G2	B2-U0-G2	B2-U0-G2	71
NV-W 32L-1A-30K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	100
NV-W 32L-1A-40K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	100
NV-W 32L-1A-50K7	B2-U0-G2	B2-U0-G2	B2-U0-G2	100

EMERGENCY BATTERY BACK-UP LUMENS

PART NUMBER	T2	LM/W	T3	LM/W	T4	LM/W	WATTS
EM4-30K7	520	130	524	131	516	129	4
EM4-40K7	544	136	548	137	540	135	4
EM4-50K7	560	140	564	141	556	139	4
EM8-30K7	1040	130	1048	131	1032	129	8
EM8-40K7	1088	136	1096	137	1080	135	8
EM8-50K7	1120	140	1128	141	1112	139	8
EM16-30K7	2080	130	2096	131	2064	129	16
EM16-40K7	2176	136	2192	137	2160	135	16
EM16-50K7	2240	140	2256	141	2224	139	16
EMCP-30K7	1820	130	1834	131	1806	129	14
EMCP-40K7	1904	136	1918	137	1890	135	14
EMCP-50K7	1960	140	1974	141	1946	139	14

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



701 Kingshill Place, Carson, CA 90746
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nlsighting.com



CUSTOMER NAME _____

Project Name _____

Date _____ Type **TYPE 'C'**

Catalog Number _____

The **Lumination®** LRX Series is a specifiable downlight for retrofit and new construction applications. The LRX series is available in round and square form factors with 5 aperture options ranging from 4in to 12in. The LRX series features field-selectable lumen options, adapter rings, and a variety of reflector and trim finishes, making it a versatile solution for commercial spaces.

CONSTRUCTION

Housing:	16 gauge aluminum spinning reflector housing
Lens:	Custom engineered reflectors for wide distributions.
Paint:	Powdercoat painted
Weights:	Up to 4.6 pounds
Optical Assembly:	High efficiency reflector and optical diffuser.

OPTICAL SYSTEM

Lumens:	1000–6000lm Selectable: 650/1000lm, 3000/4000lm, 4000/5000/6000lm
Distribution:	90°
Efficacy:	Up to 112 LPW
CCT:	3000K, 3500K, 4000K
CRI:	82

ELECTRICAL

Input Voltage:	120–277V
Input Frequency:	50/60Hz
Power Factor (PF)*:	> 0.9%
Total Harmonic Distortion (THD)*:	<20%

* PF and THD may vary with options

CONTROLS

Dimming:	Standard 0–10V, Dimming 10%
Controls:	Daintree compatible with accessory kit

AMBIENT TEMPERATURE

TYPE	TEMPERATURE RATE
OPERATING TEMPERATURE	-10°C TO +40°C (no EMBB) 0°C TO +25°C (with EMBB)

LUMEN MAINTENANCE

LXX(10K) @ Hours 50,000 HR
L85

MOUNTING

- Spring clips clamp on to existing frame.
- Accessible from beneath the ceiling.
- New construction utilizing FRAME.
- Fixture mounting to an existing metal frame, or install with new frame kit (ordered separately), interior ceiling applications only.
- Conduit connect to quick-disconnect for easy installation.

ADDITIONAL NOTES

- Non-IC Rated
- IK00 Impact Resistant
- Optional black, white or silver trims available (ordered separately)

DESIGN LIFE & WARRANTY

- **Current's Limited 5-year Warranty:**
Please refer to document [IND599](#) for more information.



LRX

8

MD

FAMILY	SHAPE/SIZE	LUMENS	CRI	CCT	DIMMING	OPTIONS
LRX = Lumination® LRX Series Downlight	R4 = 4" Round Retrofit Downlight	10 ¹ = 1000lm/650lm	8 = 82 CRI	30 = 3000K 35 = 3500K 40 = 4000K	MD = 0-10V Dimming	Blank = None
	S4 = 4" Square Retrofit Downlight					EL = EMBB Ready
	R6 = 6" Round Retrofit Downlight	10 ¹ = 1000lm/650lm 18 = 1800lm				
	S6 = 6" Square					
	R8 = 8" Round Retrofit Downlight	10 ¹ = 1000lm/650lm 18 = 1800lm				
	S8 = 8" Square Retrofit Downlight	30 = 3000lm 40 ¹ = 4000lm/3000lm				
	R10 ⁴ = 10" Round Retrofit Downlight	30 ⁴ = 3000lm 60 ^{1,4} = 4000lm/5000lm/6000lm				
R12 ⁴ = 12" Round Retrofit Downlight	60 ^{1,4} = 4000lm/5000lm/6000lm					

Notes:

- Selectable Lumen packages allow for field adjustments to light output. See page 7 for details.
- The standard trim is white. Colored trim options are available see page 4 for details.
- Attach to existing frame or install with new frame kit (ordered separately) per UL.
- 10inch and 12inch 3000lm & 4000/5000/6000lm only for MD=0-10V dimming.

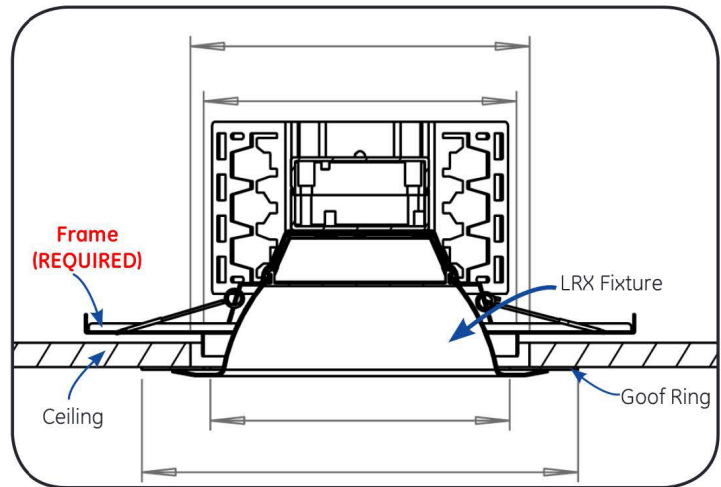
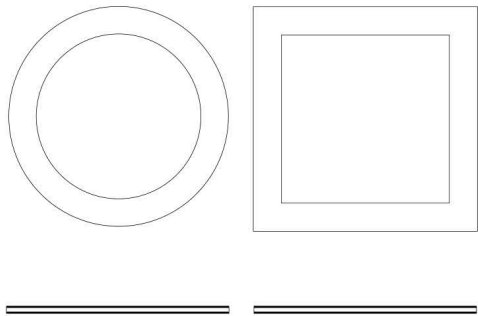
NOMINAL LUMENS	0-10V DIMMING						
	650	1000	1800	3000	4000	5000	6000
Delivered Lumens - LRX*4	700	1020	N/A	N/A	N/A	N/A	N/A
Delivered Lumens - LRX*6	700	1050	1900	N/A	N/A	N/A	N/A
Delivered Lumens - LRX*8	750	1200	2000	3300	N/A	N/A	N/A
Delivered Lumens - LRXR10	N/A	N/A	N/A	3180	4600	5400	6200
Delivered Lumens - LRXR12	N/A	N/A	N/A	N/A	4650	5450	6250
System Input Power (W)	8.5	13	22	35	41	49	59.5
System Efficacy (LPW)	88	92	91	94	112	110	104

DELIVERED LUMEN MULTIPLIERS	
CCT	MULTIPLIERS
4000K	1
3500K	0.98
3000K	0.94

ACCESSORIES: LUMINATION® LRX SERIES - REMODEL (GOOF) RINGS

The essential accessory for any project, the goof ring helps to cover openings in the ceiling with a trim that blends with the existing LRX trim. Goof rings are available in white only. Verify the existing opening and LRX fixture to order the correct goof ring, details shown in the table below. Always verify proper installation per the Installation Guide.

Installation Position



Notes: Please check the compatibility of the goof ring and the fixture by referring to the table below.










Goof Rings

FOR NEW CONSTRUCTION									FOR RETROFIT	
GOOF RING SKU	GOOF RING DESCRIPTION	GOOF RING SHAPE	SUITABLE FIXTURE	SUITABLE FRAME	INSIDE OF GOOF RING (IN)	OUTSIDE OF GOOF RING (IN)	CEILING HOLD MIN. (IN)	CEILING HOLE MAX. (IN)	SUITABLE FRAME DIMENSION (IN)	FRAME HOLE (IN)
93114516	GRRX4R6PTWT	ROUND	LRXR4XXXXXXXX	FRAME4RXXXX	4.48	7.09	5.20	6.69	12.60 x 7.64 x 3.54	4.20–4.70
93114517	GRRX4S6PTWT	SQUARE	LRXS4XXXXXXXX	FRAME4SXXXX	4.48	7.09	5.20	6.19	12.60 x 7.64 x 3.54	4.20–4.90
93114518	GRRX6R8PTWT	ROUND	LRXR6XXXXXXXX	FRAME6RXXXX	6.18	9.00	6.50	8.60	12.60 x 7.64 x 3.54	5.91–6.50
93114519	GRRX6S8PTWT	SQUARE	LRXS6XXXXXXXX	FRAME6SXXXX	6.22	8.98	7.50	8.08	13.35 x 11.34 x 3.54	5.95–7.50
93114520	GRRX8R10PTWT	ROUND	LRXR8XXXXXXXX	FRAME8RXXXX	7.87	10.50	8.27	10.10	15.55 x 11.34 x 3.54	7.68–8.27
93114521	GRRX8S10PTWT	SQUARE	LRXS8XXXXXXXX	FRAME8SXXXX	8.23	10.98	9.50	10.08	13.35 x 11.34 x 3.54	7.95–9.50
93114522	GRRX8R12PTWT	ROUND	LRXR8XXXXXXXX	FRAME8RXXXX	7.87	12.99	10.10	12.59	15.55 x 11.34 x 3.54	7.68–8.27
93114523	GRRX8S12PTWT	SQUARE	LRXS8XXXXXXXX	FRAME8SXXXX	8.23	12.99	10.58	12.09	13.35 x 11.34 x 3.54	7.95–9.50

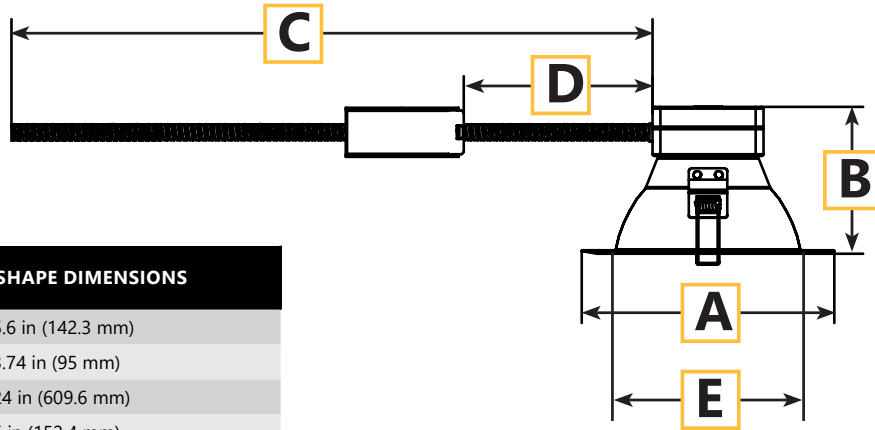
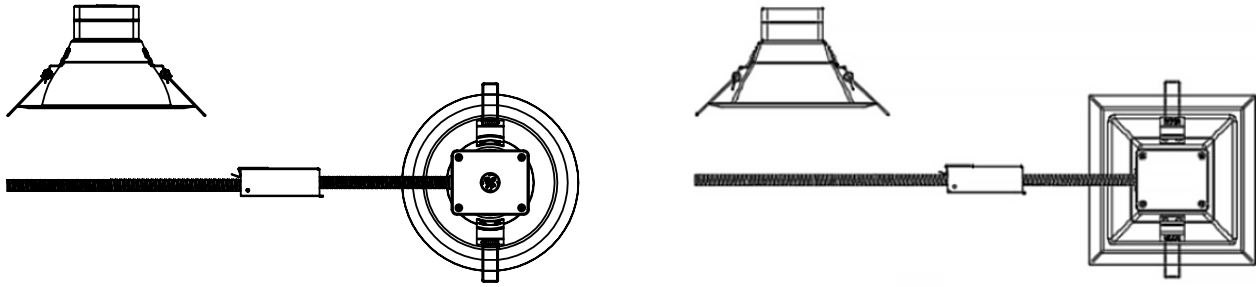
ACCESSORIES: LUMINATION® LRX SERIES

PRODUCT DESCRIPTION	MATERIAL DESCRIPTION	MATERIAL	NOTES
EMERGENCY BATTERY BACKUP KIT (7W)	LRXEMBBKIT07	93043031	7 WATT EMBB QUICK CONNECT KIT (MUST HAVE FIXTURE WITH "EL" OPTION)
EMERGENCY BATTERY BACKUP KIT (10W)	LRXEMBBKIT10	93043540	10 WATT EMBB QUICK CONNECT KIT (MUST HAVE FIXTURE WITH "EL" OPTION)
4" NEW CONSTRUCTION ROUND FRAME KIT	FRAME4R	93090208	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
6" NEW CONSTRUCTION ROUND FRAME KIT	FRAME6R	93025091	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
8" NEW CONSTRUCTION ROUND FRAME KIT	FRAME8R	93025092	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
10" NEW CONSTRUCTION ROUND FRAME KIT	FRAME10R	93124880	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
12" NEW CONSTRUCTION ROUND FRAME KIT	FRAME12R	93124881	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
4" NEW CONSTRUCTION SQUARE FRAME KIT	FRAME4S	93090209	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
6" NEW CONSTRUCTION SQUARE FRAME KIT	FRAME6S	93045426	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
8" NEW CONSTRUCTION SQUARE FRAME KIT	FRAME8S	93045427	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS
347V KIT	LRX347V277	93036250	347V TRANSFORMER QUICK CONNECT KIT
DAINTREE CONTROLS ACCESSORY KIT	LCABAVTQUNGALV	93057194	SEE LCA KIT LITERATURE & INSTALL GUIDE, DOES NOT INCLUDE SENSOR
SENSOR ACCESSORY KIT - DAINTREE ENTERPRISE	LSAATZFM6	93098473	SEE LSA KITS LITERATURE & INSTALL GUIDE
SENSOR ACCESSORY KIT - DAINTREE ONE & EZ CONNECT	LSAAT/T1FM6	93098472	SEE LSA KITS LITERATURE & INSTALL GUIDE
HANGER BAR, C-CHANNEL, 25 - 1/4" (BOXED PAIR)	BH3	93110306	RECOMMENDED FOR NEW CONSTRUCTION APPLICATIONS

ACCESSORIES: LUMINATION® LRX SERIES COLORED ROUND TRIM OPTIONS

	ROUND					SQUARE			
	SILVER	BLACK	SPECULAR WITH WHITE TRIM	SEMI-DIFFUSE WITH WHITE TRIM	SEMI-DIFFUSE WITH MATCHING TRIM	SILVER	BLACK	SPECULAR WITH WHITE TRIM	SEMI-DIFFUSE WITH WHITE TRIM
									
4"	93151744 LRXTRIMR4SV	93151745 LRXTRIMR4BL	93151746 LRXTRIMR4SP	93151747 LRXTRIMR4SD		93151748 LRXTRIMS4SV	93151749 LRXTRIMS4BL	93151750 LRXTRIMS4SP	93151751 LRXTRIMS4SD
6"	93059502 LRXTRIMR6SV	93059501 LRXTRIMR6BL	93151752 LRXTRIMR6SP	93151753 LRXTRIMR6SD	93152569 LRXTRIMR6SA	93151754 LRXTRIMS6SV	93151755 LRXTRIMS6BL	93151756 LRXTRIMS6SP	93151757 LRXTRIMS6SD
8"	93059504 LRXTRIMR8SV	93059503 LRXTRIMR8BL							

DIMENSIONS



ROUND SHAPE DIMENSIONS

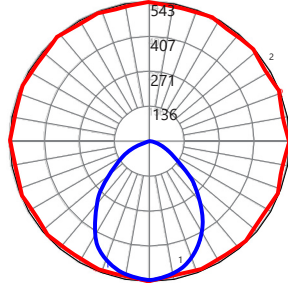
	A	
4 in	A	5.6 in (142.3 mm)
	B	3.74 in (95 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 4.4 in
6 in	A	7.75 in (196.8 mm)
	B	4.5 in (114.2 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 5.7 in
8 in	A	9.75 in (247.6 mm)
	B	5.1 in (129.4 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 7.7 in
10 in	A	12 in (305 mm)
	B	5.8 in (148.2 mm)
	C	24.0 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 9.7 in
12 in	A	14 in (355 mm)
	B	6.23 in (158.2 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 11.7 in

SQUARE SHAPE DIMENSIONS

4 in	A	5.75 in (146 mm)
	B	3.74 in (95 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 4 in for ceiling thickness ≤ 10 mm; 4.2 in for ceiling thickness > 10 mm
6 in	A	7.75 in (196.8 mm)
	B	4.5 in (114.2 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min: 5.6 in
8 in	A	9.75 in (247.6 mm)
	B	5.1 in (129.4 mm)
	C	24 in (609.6 mm)
	D	6 in (152.4 mm)
	E	Ceiling Cutout Min 7.6 in

PHOTOMETRIC DATA:

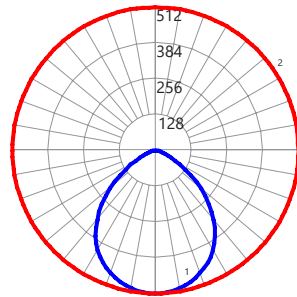
4" Round LRX
1059 LM
LRXR410830MD



ZONE	LUMENS
0-10	50.98
10-20	143.53
20-30	208.85
30-40	226.68
40-50	194.68
50-60	131.45
60-70	66.78
70-80	29.04
80-90	6.9

ZONE	LUMENS	% OF FIXTURE
0-20	194.51	18.4
0-30	403.36	38.1
0-40	630.04	59.5
0-60	956.17	90.3
0-80	1052.0	99.3
0-90	1058.9	100.0

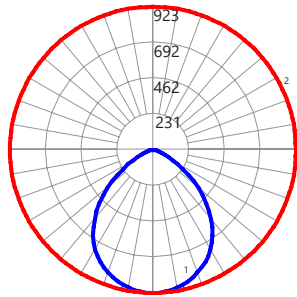
6" Round LRX
1000 LM
LRXR610830MD



ZONE	LUMENS
0-10	48.26
10-20	135.99
20-30	199.14
30-40	221.96
40-50	188.12
50-60	118.95
60-70	54.04
70-80	25.47
80-90	7.78

ZONE	LUMENS	% OF FIXTURE
0-20	184.25	18.4
0-30	383.39	38.3
0-40	605.34	60.5
0-60	912.41	91.2
0-80	991.92	99.2
0-90	999.70	100.0

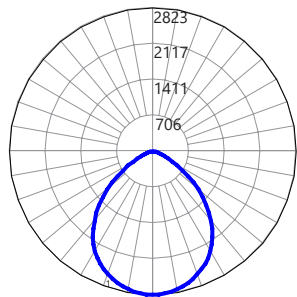
8" Round LRX
1797 LM
LRXR818830MD



ZONE	LUMENS
0-10	87.00
10-20	245.00
20-30	357.94
30-40	405.72
40-50	355.72
50-60	213.19
60-70	84.35
70-80	37.58
80-90	10.61

ZONE	LUMENS	% OF FIXTURE
0-20	332.00	18.4
0-30	689.94	38.3
0-40	1095.66	60.9
0-60	1664.57	92.5
0-80	1786.51	99.2
0-90	1797.12	99.8

10" Round LRX
5893 LM
LRXR1030830MD



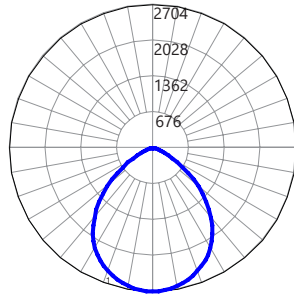
ZONE	LUMENS
0-10	265.56
10-20	751.07
20-30	1109.15
30-40	1284.03
40-50	1192.46
50-60	797.55
60-70	323.82
70-80	129.46
80-90	639.60

ZONE	LUMENS	% OF FIXTURE
0-20	538.49	17.2
0-30	2125.78	36.0
0-40	3409.81	57.8
0-60	5399.82	91.5
0-80	5853.11	99.2
0-90	5892.71	99.9
10-90	5627.15	95.4
20-40	2393.19	40.6
20-50	3585.65	60.8
40-70	2313.83	39.2
60-80	453.28	7.7
70-80	129.46	2.2
80-90	39.60	0.7

PHOTOMETRIC DATA:

12" Round LRX

6070 LM
LRXR1260830MD

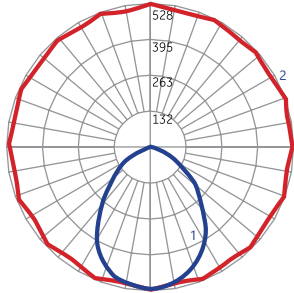


ZONE	LUMENS
0-10	254.76
10-20	726.52
20-30	1087.30
30-40	1279.70
40-50	1270.85
50-60	939.08
60-70	372.27
70-80	106.14
80-90	33.16

ZONE	LUMENS	% OF FIXTURE
0-20	981.28	16.1
0-30	2068.58	34.0
0-40	3348.28	55.1
0-60	5558.22	91.5
0-80	6036.63	99.3
0-90	6069.79	99.9
10-90	5815.03	95.7
20-40	2367.00	39.0
20-50	3637.86	59.9
40-70	2582.21	42.5
60-80	478.41	7.9
70-80	106.14	1.7
80-90	33.16	0.5

4" Square LRX

1045 LM
LRXS410830MD

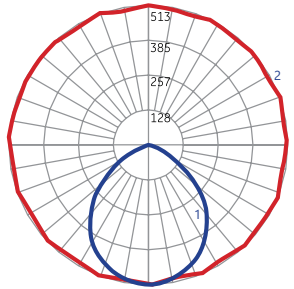


ZONE	LUMENS
0-10	48.79
10-20	136.05
20-30	195.03
30-40	214.18
40-50	192.29
50-60	143.00
60-70	81.10
70-80	27.89
80-90	6.20

ZONE	LUMENS	% OF FIXTURE
0-20	184.85	17.7
0-30	379.88	36.3
0-40	594.06	56.7
0-60	929.35	88.8
0-80	1038.34	99.2
0-90	1044.54	99.8

6" Square LRX

1050 LM
LRXS610830MD

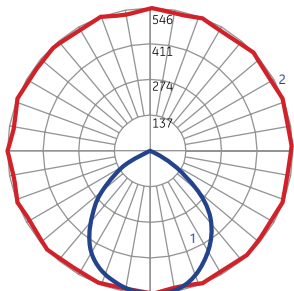


ZONE	LUMENS
0-10	48.40
10-20	137.38
20-30	203.26
30-40	229.80
40-50	202.64
50-60	136.51
60-70	63.03
70-80	22.61
80-90	6.12

ZONE	LUMENS	% OF FIXTURE
0-20	185.78	17.7
0-30	389.04	37.1
0-40	618.84	58.9
0-60	957.99	91.2
0-80	1043.63	99.4
0-90	1049.74	100.0

8" Square LRX

1199 LM
LRXS810830MD



ZONE	LUMENS
0-10	51.81
10-20	147.65
20-30	220.84
30-40	258.58
40-50	243.12
50-60	169.22
60-70	75.23
70-80	25.23
80-90	7.77

ZONE	LUMENS	% OF FIXTURE
0-20	199.46	16.6
0-30	420.3	35.0
0-40	678.88	56.6
0-60	1091.68	90.9
0-80	1191.68	99.3
0-90	1199.45	100.0

DAINTREE CONTROLS

Daintree® Wireless Controls:

There is no one size fits all for wireless controls. Some networks want simple solutions that reduce energy consumption and meet code compliance while others are more ambitious, looking to capitalize on the LED and controls savings to fund a scalable, enterprise-grade, internet of things solution. The advantage of the Daintree® Wireless platform is it's ability to integrate into indoor, outdoor and high bay environments. The Daintree® Wireless Controls provide the infrastructure to future proof your buildings, easily upgrade to Networked solutions and provide the ability to integrate into IoT solutions that are right for your business.

- **Daintree® One:** Standalone Wireless Controls
- **Daintree® EZ Connect:** Room-Based Wireless Lighting Controls
- **Daintree® Networked:** Networked Lighting Controls for Smart Building & IoT Enablement.

Daintree® Wireless Controls are already integrated in your favorite Current LED fixtures. Integrating the controls into the fixture cuts labor costs considerably since the sensors are already embedded in the lighting fixtures. There's no need to get above the ceiling plenum and install additional devices. Visit our website <https://products.gecurrent.com> for a complete list of LED Fixtures.

TYPE 'D'



RD



ST



SQ



WW

PROJECT _____

CATALOG # _____

TYPE _____

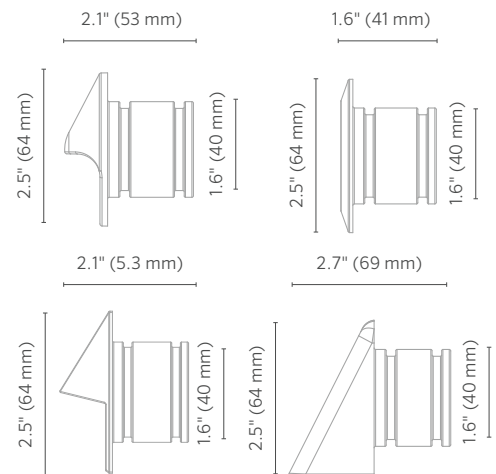
NOTES _____

PO Wall Light DESIGNER PREMIUM

1 LED recessed wall light available in four brass faceplate styles for any application.

Quick Facts

- Die-cast brass or aluminum
 - Natural, powder-coated, or antique brass
 - Cree® integrated LEDs
 - Color temperature filters
- Compatible with Luxor® technology
 - Phase and PWM dimmable
 - Input voltage: 10-15V



PO Wall Light SPECIFICATIONS

Output	1LED
Total Lumens†‡	4-39
Input Voltage	10 to 15V
Input Power (W)	2.0
VA	2.4
Efficacy (Lumens/Watt)	8
Color Rendering Index (CRI)	80+
Max Candela‡	24
Dimming	PWM, Phase**
RGBW Available	No
Luxor Compatibility	
Default	Zoning
ZD Option	Zoning/Dimming
ZDC Option	--
Minimum Rated Life (L90/B10)	55,000 Hrs

† Measured using the 3,900K CCT lens. Multipliers for other CCTs include 0.80 (2,700K), 0.65 (4,500K), and 0.65 (5,200K).

‡ Measured using the Round (RD) faceplate. Multipliers for other faceplates include: 1.0 (Square), 2.0 (Spot), and 0.4 (Wall Wash).

** For optimal performance, use a trailing-edge, phase-cut dimmer.

FX Luminaire

FX Luminaire is an industry-leading manufacturer of landscape and architectural lighting products with a focus on the advancement of LED technology and digital lighting control with zoning, dimming, and color adjustment capabilities. We offer a full spectrum of specification-driven lighting fixtures that can be utilized to create elegant, cutting-edge landscape lighting systems for commercial or residential applications. Our products are available exclusively via our extensive professional distributor network.

Materials

Die-cast C360 brass faceplate, A380 aluminum housing, ABS construction conduit sleeve.

Socket

Socket contains MoistureBlock™ technology, preventing moisture from wicking up into sealed areas of the fixture.

Lamp

Integrated module with Cree LEDs. Gold-plated connectors and conformal coated for maximum reliability and corrosion resistance. Proprietary on-board intelligent driver uses firmware-controlled temperature regulation, maximizing LED life. Field upgradeable and replaceable, the LEDs are rated to 50,000 hrs. Maximum drive current: 1 A.

Optics

Polycarbonate color temperature adjustment lenses included with fixture: 2,700K (pre-installed); 3,900K (no lens); 4,500K; and 5,200K. Color temperature lenses field serviceable. Beam angle is calculated using LM-79 method for SSL luminaires.

Wiring

18 AWG (1 mm); SPT-1W; 220°F (105°C); 300V; 10' (3 m) length.

Power

Input 10-15 VAC/VDC, 50/60 Hz. Remote transformer required (specify separately).

Housing

Die-cast aluminum housing with capacity for 1LED integrated LEDs.

Faceplate

Die-cast brass faceplate.

Lens

Tempered glass lens with shock resistance and high tolerance for thermal expansion and stress.

Finish

Options of natural brass finish, antique finish with brushed (Antique Bronze) or tumbled (Antique Tumbled) effect, or TGIC powder-coat finish. Antique finishes sealed with a clear TGIC powder-coat layer.

Hardware

Includes ABS conduit sleeve with ½"-14 (13 mm) NPT female hole for strain relief. Strain relief specified separately. Outer diameter of ABS conduit sleeve: 1.9" (48 mm).

Ambient Operating

Temperature
0°F to 140°F (-18°C to 60°C)

Weight

2.3 lbs. (1.0 kg)

Control

ZD option utilizes Luxor technology to zone light fixtures in up to 250 groups, dim each group in 1% increments between 0% and 100%.

International Compliance

Compliant per IEC 60598-1 and IEC 60598-2-7 when used with International Wall Kit ("EKITWALL").

Sustainability

Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

IES Classification

Type IV (RD & SQ), Type V (ST) Type II (WW).

Warranty

10-year limited warranty

Installation Requirements

RD & SQ – Designed for recessed installation in a vertical wall in the down lighting position only.

WW – Designed for recessed installation in a vertical wall in any orientation.

ST – Designed for recessed installation in a vertical or horizontal wall; ensure substantial drainage flow for up lighting (e.g., decking).

Listings



PO Wall Light ORDERING INFORMATION

Fixture	Luxor Option	Output	Faceplate	Finish
PO*	[default] Zone	1LED 4-39 Lumens	RD Round	BS Natural Brass
	ZD Zone/Dim		SQ Square	BZ Bronze Metallic
			ST Spot	DG Desert Granite
			WW Wall Wash	WI Weathered Iron
				SB Sedona Brown
				FB Black
				WG White Gloss
				FW Flat White
				AL Almond
				SV Silver
				NP Nickel Plate
				AB Antique Bronze
				AT Antique Tumbled

EXAMPLE FIXTURE CONFIGURATION:

PO-ZD-1LED-RD-BZ

*Includes 1.5" (38 mm) Conduit Sleeve (25001859000)



ACCESSORIES: Specify Separately

Accessories	Code	
PO MOUNTING BRACKET 1.3" H x 2.5" W (33 mm x 64 mm)	POBRKT	
STANDARD OPTICS KIT	1LEDOPTICKIT	
WALL LIGHT CONNECTION KIT	EKITWALL	

PO Wall Light PHOTOMETRICS

PO 1LED Illuminance at a Distance		RD/SQ	
Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 35°	Horizontal 60°
2.0' (0.6 m)	0.2 fc (2.2 lx)	1.3' (0.4 m)	2.3' (0.7 m)
4.0' (1.2 m)	0.1 fc (1.1 lx)	2.6' (0.8 m)	4.6' (1.4 m)
6.0' (1.8 m)	0.02 fc (0.2 lx)	4.0' (1.2 m)	6.9' (2.1 m)
8.0' (2.4 m)	0.01 fc (0.1 lx)	5.3' (1.6 m)	9.2' (2.8 m)
10.0' (3.1 m)	0.01 fc (0.1 lx)	6.6' (2.0 m)	11.5' (3.5 m)

PO 1LED Illuminance at a Distance		ST	
Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 80°	Horizontal 75°
2.0' (0.6 m)	6.1 fc (66 lx)	3.3' (1.0 m)	3.1' (1.0 m)
4.0' (1.2 m)	1.5 fc (16.4 lx)	6.6' (2.0 m)	6.3' (1.9 m)
6.0' (1.8 m)	0.7 fc (7.3 lx)	9.8' (3.0 m)	9.4' (2.9 m)
8.0' (2.4 m)	0.4 fc (4.1 lx)	13.1' (4.0 m)	12.6' (3.8 m)
10.0' (3.1 m)	0.24 fc (2.6 lx)	16.4' (5.0 m)	15.7' (4.8 m)

PO 1LED Illuminance at a Distance		WW	
Feet (Meters)	Center Beam	Beam Width	
	Foot-Candle (Lux)	Vertical 45°	Horizontal 60°
2.0' (0.6 m)	0.9 fc (9.5 lx)	1.6' (0.5 m)	2.2' (0.7 m)
4.0' (1.2 m)	0.2 fc (2.4 lx)	3.2' (1.0 m)	4.5' (1.4 m)
6.0' (1.8 m)	0.1 fc (1.1 lx)	4.9' (1.5 m)	6.7' (2.0 m)
8.0' (2.4 m)	0.1 fc (0.5 lx)	6.5' (2.0 m)	9.0' (2.7 m)
10.0' (3.1 m)	0.04 fc (0.4 lx)	8.1' (2.5 m)	11.2' (3.4 m)

Cree is a registered trademark of Cree Inc. MoistureBlock is a trademark of DSM&T Co. Inc.

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Tumbler

Specification Sheet

Project Name: _____

Job Location: _____

Fixture Type: _____

Fixture Quantity: _____

Source	LED
Input Voltage	120V-277V
Frequency	50/60 Hz
EPA	0.84 ft ²
Weight	14.5 lbs (luminaire only)

The Tumbler luminaire is aluminum extrusion with a natural aluminum powdercoat finish offered by Santa & Cole Urbidermis with a clear or opal / diffused tempered glass.

Pole & Wall Mount Luminaire						
Product	TML					
LED Configuration	16	24	C (CoB) *	TYPE 'E1'		
Drive Current	A (350 mA)	B (500 mA)				
Color Temperature	1 (3000K)	2 (4000K)				
Distribution	WF (Wide Flood)	F (Flood)	M (Medium)	S (Spot Flood)	TII (Type II)	TIII (Type III) TIV (Type IV)
Lens	Null (Clear)	O (Opal / Diffused)				
Color	AS (Aluminum Silver)	BK (Black)				

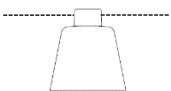
* CoB provides a Wide Flood distribution only.

EXAMPLE: TML - 16 - B - 1 - WF - O - AS

Catenary Luminaire						
Product	TML					
LED Configuration	16	24	C (CoB) *	TYPE 'E2'		
Drive Current	A (350 mA)	B (500 mA)				
Color Temperature	1 (3000K)	2 (4000K)				
Distribution	WF (Wide Flood) *	TII+II (Quad Oval)	TV (Type V)			
Lens	Null (Clear)	O (Opal / Diffused)				
Bracket	C (Catenary)					
Color	AS (Aluminum Silver)	BK (Black)				

* CoB provides a Wide Flood distribution only.

EXAMPLE: TML - 16 - B - 1 - TV - O - C - BK

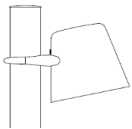


Catenary

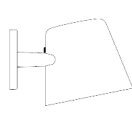
Mounting Accessories				
_____	Product	TML		
_____	Bracket	01 (Single Column)	02 (Wall)	03 (Catenary) * 04 (Double Column)
_____	Color	AS (Aluminum Silver)	BK (Black)	

* Automatically selected when the catenary luminaire is selected.

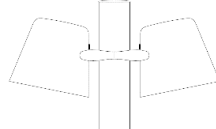
EXAMPLE: TML – 01 – BK



Single Column



Wall



Double Column

Tumbler Aluminum Pole Height	Pole #	Mounting	Diameter	Wall	Weight
3.4m (11.2 ft)	TMF11P	(1) Single Column Bracket	Straight 4.5"	0.125"	29 lbs
	TMF11P	(1) Double Column Bracket	Straight 4.5"	0.125"	29 lbs
4.2m (13.8 ft)	TMF21P	(1) Single Column Bracket	Straight 4.5"	0.125"	33 lbs
	TMF22P	(2) Single Column Brackets, Staggered Heights, 180° Orientation	Straight 4.5"	0.125"	33 lbs
	TMF21P	(1) Double Column Bracket	Straight 4.5"	0.125"	33 lbs
5.0m (16.4 ft)	TMF31P	(1) Single Column Bracket	Straight 4.5"	0.125"	38 lbs
	TMF32P	(2) Single Column Brackets, Staggered Heights, 180° Orientation	Straight 4.5"	0.125"	38 lbs
	TMF31P	(1) Double Column Bracket	Straight 4.5"	0.125"	38 lbs
6.6m (21.7 ft)	TMF41P	(3) Single Column Brackets, Spiral Configuration, 120° Orientation	Stepped 6"/4.5"	0.188"	80 lbs

* Landscape Forms can provide poles for your catenary project. Contact the factory for more information.

Pole Options							
_____	Twist Lock	Null (None)	T (Twist Lock Receptacle)				
_____	Color	BLK (Black)	DSK (Dusk)	MBK (Matte Black)	MER (Mercury) *	SIL (Silver)	SCL (Storm Cloud) TNM (Titanium)

* Mercury from Landscape Forms is our recommended color match for aluminum silver from Santa & Cole.

EXAMPLE: TMF41P – T – MER

Modifications

Don't see what you are looking for? Our goal is to partner with you as the designer to manufacture solutions needed for the space you are creating. We offer the option to modify our standard product to meet certain design specifications or needs. Common modifications can include GCFI outlets, custom RAL colors, banner arm(s) mounting, and custom pole heights. Contact your local Landscape Forms representative to learn more about these offerings.

Notes

Please send completed forms to your Landscape Forms representative or contact us at (800) 430-6209 with any questions.

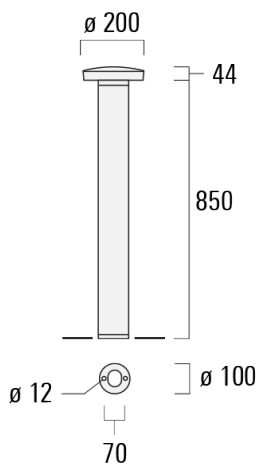
MRY224 LED

Bollards and pathway luminaires

1/5

TYPE 'F'

we-ef



Description

IP66. Class I. IK10. Marine-grade, all-aluminium construction. Pole section features anodised aluminium core. 5CE superior corrosion protection including PCS hardware. Polycarbonate main lens, UV-stabilised. Silicone CCG[®] Controlled Compression Gasket. Luminaire is factory-sealed and does not need to be opened during installation. Integral EC electronic converter. Advanced thermal management protects LEDs while optimising lumens output. CAD-optimised optics for superior illumination and glare control. For 2200 K version available on request.

MRY224 LED





Bollards and pathway luminaires

2/5

we-ef

Specifications

Material Specification

Body:	Marine-grade, all-aluminium construction. Pole section features anodised aluminium core
Lens:	Polycarbonate, UV-stabilised
Colours:	 RAL9004 Signal black  RAL9007 Grey aluminium  RAL7016 Anthracite grey  RAL9016 Traffic white
Gasket:	Silicone CCG® Controlled Compression Gasket
Fasteners:	PCS hardware
Ingress protection:	IP66
Impact protection:	IK10
Corrosion protection:	5CE
Surge protection:	10/10kV
Mounting:	FS Factory-sealed luminaire does not need to be opened during installation

Electrical Specification

Driver / Ballast:	Integral EC electronic converter
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
MRY224 LED

Bollards and pathway luminaires

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Choices

Light Distributions	Nominal Lumen	Nominal Watt	Colour Temperatures	Colours
 'side throw' distribution [S60]	1323	11	2700 K	 RAL9004 Signal black
	1395	15		
 symmetric [C70]	1485		3000 K	 RAL9007 Grey aluminium
	1829			
	1852		4000 K	 RAL7016 Anthracite grey
	1978			 RAL9016 Traffic white



MRY224 LED

Bollards and pathway luminaires




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Configurations

Light Distributions	Part ID	Light Source	Rated Lumens	Rated Input Power	CRI	Weight	Link
 symmetric [C70]	115-9771	LED-11W / 300 mA - 2700 K	844.7	13.5	80	10.80	📄 ↗
	115-9772	LED-11W / 300 mA - 3000 K	890.7	13.5	80	10.80	📄 ↗
	115-9773	LED-11W / 300 mA - 4000 K	948.1	13.5	80	10.80	📄 ↗
	115-9775	LED-15W / 750 mA - 2700 K	1167.8	18	80	10.80	📄 ↗
	115-9776	LED-15W / 750 mA - 3000 K	1182.5	18	80	10.80	📄 ↗
	115-9777	LED-15W / 750 mA - 4000 K	1262.9	18	80	10.80	📄 ↗
 'side throw' distribution [S60]	115-9801	LED-11W / 300 mA - 2700 K	843.6	13.5	80	10.80	📄 ↗
	115-9802	LED-11W / 300 mA - 3000 K	889.5	13.5	80	10.80	📄 ↗
	115-9803	LED-11W / 300 mA - 4000 K	946.9	13.5	80	10.80	📄 ↗
	115-9805	LED-15W / 750 mA - 2700 K	1166.3	18	80	10.80	📄 ↗
	115-9806	LED-15W / 750 mA - 3000 K	1180.9	18	80	10.80	📄 ↗
	115-9807	LED-15W / 750 mA - 4000 K	1261.3	18	80	10.80	📄 ↗

Related Families

Family	Dimensions	Wattage	Nominal Lumen	Links	Download Data Sheet
MRY224 LED		600	11 -15 W	1323 -1978	📄 ↗ 📄 ↓
MRY224 LED		850	11 -15 W	1323 -1978	📄 ↗ 📄 ↓
MRY224 LED		1000	11 -15 W	1323 -1978	📄 ↗ 📄 ↓

Similar Products

Family	Dimensions	Wattage	Rated Lumens	Links	Download Data Sheet
MRY224 LED		600	11 -15 W	1323 -1978	📄 ↗ 📄 ↓
MRY224 LED		1000	11 -15 W	1323 -1978	📄 ↗ 📄 ↓

MRY224 LED

Bollards and pathway luminaires

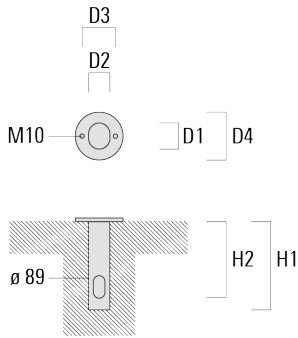
5/5



Mounting Accessories

Planted root

	D1	D2	D3	D4	H1	H2	Weight (kg)
■ 300-9090 Planted root ESZ4	55	45	70	100	400	350	3.50



Control

1-10 V analogue dimming interface

■ **430-0011** 1-10 V analogue dimming interface

DALI interface

■ **430-0013** DALI interface

holm



TYPE

CATALOG #

PROJECT

NOTES

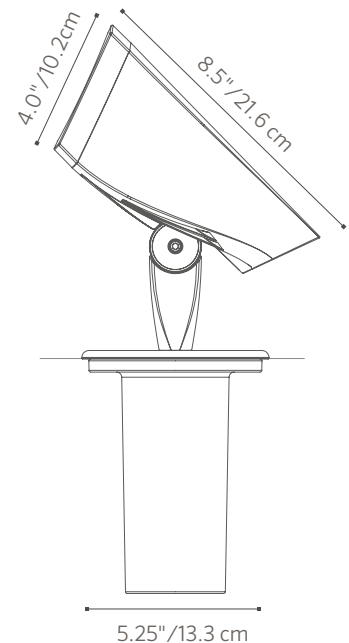
LED DIRECTIONAL FIXTURES

dCrest-9

The highly versatile dCrest-9 offers various mounting options for premier lighting that adds a soft layer of elegance to any project. The luminaire's compact size makes it especially useful for highlighting facades, signage, and other architectural accent features.

Quick Facts

- Die-cast aluminum
- Two-layer marine-grade anodization and powder coat finish
- Xicato® LED module
- Full adjustability
- Dimming: Phase or 0-10V
- Input voltage: 110-277V and 12V
- IP65



dCrest-9 SPECIFICATIONS

Output	L07	L10	L13	9LED	ZD9LED	ZDC
Total Lumens*						
Spot (20°)	585	732	1001	625	625	N/A
Flood (40°)	616	761	1025	575	575	N/A
Wide Flood (60°)	499	565	824	581	581	200
Input Power (W)	9.9	14.2	19.2	11.7	11.7	5.2
Efficacy (Lumens/Watt)	51-62	40-54	43-53	49	49	39
Color Rendering Index (CRI)	84	84	84	83	83	81
Center Beam Candle Power (CBCP)						
Spot (20°)	2456	3123	4067	3420	3420	N/A
Flood (40°)	1560	1874	2537	1234	1234	N/A
Wide Flood (60°)	669	806	1113	607	607	182
Dimming	Phase, 0-10V	Phase, 0-10V	Phase, 0-10V	N/A	ZD	ZDC
Minimum Rated Life (L80)	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs
Luxor® Compatibility						
ZD Option	Luxor CUBE Req'd	Luxor CUBE Req'd	Luxor CUBE Req'd	N/A	Zoning/Dimming	Zoning/Dimming/Color
ZDC Options	N/A	N/A	N/A	N/A	N/A	Yes

* Luminaire output does not change according to specified CCT.

Holm

Holm. Born from an industry demand for a comprehensive offering of distinctive line- and low-voltage luminaires for the commercial market. Our products are designed to meet required specifications while echoing the aesthetics of the project. Holm is a Hunter Industries company with more than three decades of engineering expertise, now bringing its Luxor® technology to the commercial architectural and landscape lighting market.

Materials

Die-cast aluminum A380 housing and shroud with stainless steel hardware.

Lamp

Integrated Xicato® LED module. Next-Generation Corrected Cold Phosphor Technology® keeps phosphors cool for maintained light quality and very tight color consistency (within 1 x 2 MacAdam ellipses). Up to 100+ lumens per watt at operating conditions. CCT range from 2,700K to 4,000K with outputs between 700 and 1,300 lumens.

Ambient Operating Temperature
55°C

Optics

Beam angle options preinstalled: spot (20°), flood (40°), wide flood (60°). Field replaceable.

Socket

Socket contains MoistureBlock™ technology, preventing moisture from wicking into sealed areas of the luminaire via the wiring.

Wiring

UL1015 105°C 600V; 18/3 (1 mm) for phase dim driver and 18/5 (1 mm) for 0-10V driver.

Power

Four input power options: 1) standard voltage using 120V/60Hz input with phase dimming, 2) universal voltage using 110V to 277V/60Hz with 0-10V dimming, 3) high voltage using 220V to 240V/50Hz, or 4) low voltage using 10-15VAC/VDC 50/60Hz (remote transformer required).

Housing

Die-cast aluminum housing with capacity up to 1,300 lumens. Removable LED module, optics and driver.

Mounting Kit

ABS construction sleeve with ½" NPT knockouts. Construction cover included.

Shroud

Die-cast aluminum shroud with recessed lens (standard) or 45° angled cutoff option (long shroud).

Knuckle

Die-cast aluminum knuckle with ½-14 NPSM threads. Compress and lock features prevent slip after installation. 105° of vertical adjustment with 5° increments.

Lens

Tempered glass lens with shock resistance and high tolerance for thermal expansion and stress.

Finish

Two-layer protection of sulfuric acid anodization and polyester TGIC powder coat, providing superior outdoor weathering in all conditions. Tested to ASTM standards.

Hardware

10-24 x ¾" stainless steel angle lock screw (hex) with 6-32 x ½" faceplate screws (hex).

Weight

4.8 lbs. (2.2kg)

Installation Requirements

Designed for in-ground installation in upward or downward directions.

Control

ZDlink™ or ZDlink™ utilizes Luxor® technology to zone light fixtures in up to 250 groups, dim each group in 1% increments between 0 and 100%, or change to one of 30,000 colors with RGBW LEDs. Specify the Luxor Cube for zoning and/or dimming the dCrest-9 with ZDlink or ZDlink (UV option). ZD9LED and ZDC options connect directly to ZDlink or ZDlink.

Sustainability

Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

Warranty

5-year limited warranty

Manufacturing

ISO 9001:2015 certified facility

Listings



dCrest-9 ORDERING INFORMATION

Fixture-Size	Power Control	Output	CCT	Optics	Options	Finish	Mounting Options
dCST-9	■ SV 120V/60 Hz Phase UL Listed	■ L07 499-616 Lumens	■ K27 2,700K	■ SP 20°	■ [default] Standard Shroud	■ BZ Bronze Metallic	■ MKCST9 Standard Kit
	■ UV 110-277V/60Hz 0-10V UL Listed	■ L10 565-761 Lumens	■ K30 3,000K	■ FL 40°	■ LS Long Shroud (45°)	■ SV Silver	
	■ HV 220-240V/50Hz 0-10V CE Approved	■ L13 685-1025 Lumens	■ K35 3,500K	■ WF 60°		■ FB Flat Black	
	■ LV 12V UL Listed CE Approved	■ 9LED 490-625 Lumens	■ K40 4,000K			■ FW Flat White	
		■ ZD9LED 490-625 Lumens				■ RL RAL Color	
		■ ZDC 200 Lumens*					














EXAMPLE FIXTURE CONFIGURATION: dCST-9-SV-L13-K30-FL-LS-SV-MKCST9

*Available in WF only

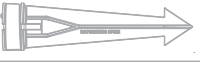

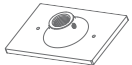




dCrest-9 ORDERING INFORMATION

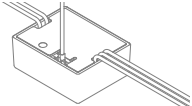
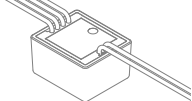
LENS ACCESSORIES: Specify Separately

Item	Code	
■ SNAP RING LENS HOLDER <i>Accommodates two lenses or baffles SV, UV, and HV only</i>	250025280000	
■ FLOOD LENS <i>30°-32° 9LED and ZD9LED only</i>	9LEDFLENS	
■ WIDE FLOOD LENS <i>56°-58° 9LED and ZD9LED only</i>	9LEDWFLENS	
■ HEX BAFFLE <i>SV, UV, and HV only</i>	250015260000	
■ LINEAR SPREAD LENS <i>SV, UV, and HV only</i>	250013550000	
■ SOLITE SPREAD LENS <i>SV, UV, and HV only</i>	250015240000	
■ FROSTED LENS <i>SV, UV, and HV only</i>	250015170000	
■ RED DICHROIC LENS <i>SV, UV, and HV only</i>	250015220000	
■ GREEN DICHROIC LENS <i>SV, UV, and HV only</i>	250015210000	
■ BLUE DICHROIC LENS <i>SV, UV, and HV only</i>	250015200000	
■ PEACH DICHROIC LENS <i>SV, UV, and HV only</i>	250015230000	
■ LIGHT GREEN DICHROIC LENS <i>SV, UV, and HV only</i>	250015180000	
■ LIGHT BLUE DICHROIC LENS <i>SV, UV, and HV only</i>	250015190000	

MOUNTING OPTIONS: Specify Separately

Mounts	Code	
■ ProAim™ Ratcheting Spike** <i>10" 25.4 cm x 2.37" 5.1 cm</i>	PARS	
■ GROUND MOUNT† <i>2.7" 6.7 cm Diameter</i>	GM-XX*	
■ WALL PLATES† <i>3.4" 8.5 cm x 5.1" 12.9 cm</i>	WP-1G-050-XX*	
■ WALL PLATES† <i>5.0" 12.7 cm Diameter</i>	WP-RD-050-XX*	
■ VERSABOX† <i>2.2" 5.7 cm x 1.5" 3.9 cm</i>	VB-050-XX*	

LUXOR CUBES: Specify Separately

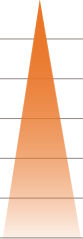
Item	Code	
■ LINE-VOLTAGE CUBE <i>120V Phase Dimming Module</i>	LCM-HV	
■ RELAY/0-10V CUBE <i>0-10V and Relay Module</i>	LCM-RLY-010V	

* XX = finish code
 ** Included with LV
 † LV only

dCrest-9 PHOTOMETRICS

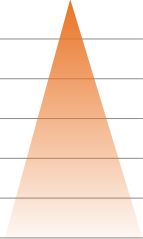
dCrest-9 700 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.1°	Horizontal 24.8°
4.0 ft	138 fc	1.7 ft	1.8 ft
8.0 ft	34.5 fc	3.4 ft	3.5 ft
12.0 ft	15.3 fc	5.1 ft	5.3 ft
16.0 ft	8.62 fc	6.8 ft	7.0 ft
20.0 ft	5.52 fc	8.5 ft	8.8 ft
24.0 ft	3.83 fc	10.2 ft	10.5 ft



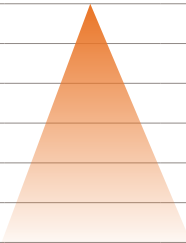
dCrest-9 700 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 37.8°	Horizontal 37.9°
4.0 ft	93.7 fc	2.7 ft	2.7 ft
8.0 ft	23.4 fc	5.5 ft	5.5 ft
12.0 ft	10.4 fc	8.2 ft	8.2 ft
16.0 ft	5.86 fc	10.9 ft	10.9 ft
20.0 ft	3.75 fc	13.7 ft	13.6 ft
24.0 ft	2.60 fc	16.4 ft	16.4 ft



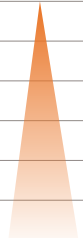
dCrest-9 700 Lumens 60°

Feet	Center Beam	Beam Width	
		Vertical 51.7°	Horizontal 53.6°
4.0 ft	41.7 fc	3.9 ft	4.0 ft
8.0 ft	10.4 fc	7.8 ft	8.1 ft
12.0 ft	4.64 fc	11.6 ft	12.1 ft
16.0 ft	2.61 fc	15.5 ft	16.2 ft
20.0 ft	1.67 fc	19.4 ft	20.2 ft
24.0 ft	1.16 fc	23.3 ft	24.2 ft



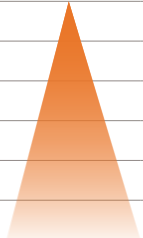
dCrest-9 1,000 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.1°	Horizontal 24.0°
4.0 ft	194 fc	1.7 ft	1.7 ft
8.0 ft	48.6 fc	3.4 ft	3.4 ft
12.0 ft	21.6 fc	5.1 ft	5.1 ft
16.0 ft	12.2 fc	6.8 ft	6.8 ft
20.0 ft	7.78 fc	8.5 ft	8.5 ft
24.0 ft	5.40 fc	10.3 ft	10.2 ft



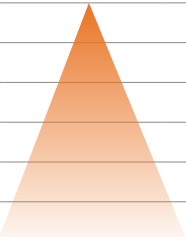
dCrest-9 1,000 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 38.8°	Horizontal 38.7°
4.0 ft	117 fc	2.8 ft	2.8 ft
8.0 ft	29.3 fc	5.6 ft	5.6 ft
12.0 ft	13.0 fc	8.5 ft	8.4 ft
16.0 ft	7.32 fc	11.3 ft	11.2 ft
20.0 ft	4.69 fc	14.1 ft	14.0 ft
24.0 ft	3.25 fc	16.9 ft	16.8 ft



dCrest-9 1,000 Lumens 60°

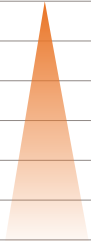
Feet	Center Beam	Beam Width	
		Vertical 52.4°	Horizontal 51.9°
4.0 ft	50.4 fc	3.9 ft	3.9 ft
8.0 ft	12.6 fc	7.9 ft	7.8 ft
12.0 ft	5.60 fc	11.8 ft	11.7 ft
16.0 ft	3.15 fc	15.7 ft	15.6 ft
20.0 ft	2.01 fc	19.7 ft	19.5 ft
24.0 ft	1.40 fc	23.6 ft	23.3 ft



dCrest-9 PHOTOMETRICS

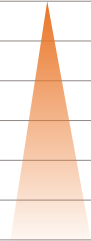
dCrest-9 1,300 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.4°	Horizontal 25.2°
4.0 ft	252 fc	1.7 ft	1.8 ft
8.0 ft	63.0 fc	3.5 ft	3.6 ft
12.0 ft	28.0 fc	5.2 ft	5.4 ft
16.0 ft	15.8 fc	6.9 ft	7.1 ft
20.0 ft	10.1 fc	8.7 ft	8.9 ft
24.0 ft	7.00 fc	10.4 ft	10.7 ft



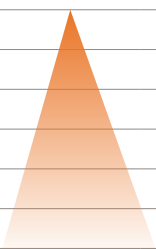
dCrest-9 1,300 Lumens 20° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 24.5°	Horizontal 25.3°
4.0 ft	253 fc	1.7 ft	1.8 ft
8.0 ft	63.1 fc	3.5 ft	3.6 ft
12.0 ft	28.1 fc	5.2 ft	5.4 ft
16.0 ft	15.8 fc	6.9 ft	7.2 ft
20.0 ft	10.1 fc	8.7 ft	8.9 ft
24.0 ft	7.01 fc	10.4 ft	10.8 ft



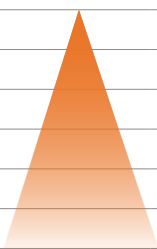
dCrest-9 1,300 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 38.2°	Horizontal 38.3°
4.0 ft	159 fc	2.8 ft	2.8 ft
8.0 ft	39.6 fc	5.5 ft	5.6 ft
12.0 ft	17.6 fc	8.3 ft	8.3 ft
16.0 ft	9.91 fc	11.1 ft	11.1 ft
20.0 ft	6.34 fc	13.8 ft	13.9 ft
24.0 ft	4.40 fc	16.6 ft	16.7 ft



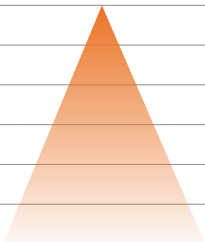
dCrest-9 1,300 Lumens 40° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 38.9°	Horizontal 38.8°
4.0 ft	158 fc	2.8 ft	2.8 ft
8.0 ft	39.6 fc	5.6 ft	5.6 ft
12.0 ft	17.6 fc	8.5 ft	8.5 ft
16.0 ft	9.89 fc	11.3 ft	11.3 ft
20.0 ft	6.33 fc	14.1 ft	14.1 ft
24.0 ft	4.40 fc	16.9 ft	16.9 ft



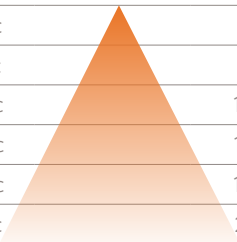
dCrest-9 1,300 Lumens 60°

Feet	Center Beam	Beam Width	
		Vertical 52.4°	Horizontal 52.8°
4.0 ft	69.6 fc	3.9 ft	4.0 ft
8.0 ft	17.4 fc	7.9 ft	7.9 ft
12.0 ft	7.73 fc	11.8 ft	11.9 ft
16.0 ft	4.35 fc	15.7 ft	15.9 ft
20.0 ft	2.78 fc	19.7 ft	19.8 ft
24.0 ft	1.93 fc	23.6 ft	23.8 ft



dCrest-9 1,300 Lumens 60° Long Shroud

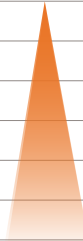
Feet	Center Beam	Beam Width	
		Vertical 48.3°	Horizontal 46.2°
4.0 ft	69.1 fc	3.6 ft	3.4 ft
8.0 ft	17.3 fc	7.2 ft	6.8 ft
12.0 ft	7.67 fc	10.8 ft	10.2 ft
16.0 ft	4.32 fc	14.4 ft	13.7 ft
20.0 ft	2.76 fc	18.0 ft	17.1 ft
24.0 ft	1.92 fc	21.5 ft	20.5 ft



dCrest-9 PHOTOMETRICS

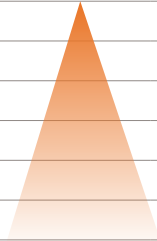
dCrest-9 9LED 40°

Feet	Center Beam	Beam Width	
		Vertical 31.5°	Horizontal 31.7°
4.0 ft	76.9 fc	2.3 ft	2.3 ft
8.0 ft	19.2 fc	4.5 ft	4.5 ft
12.0 ft	8.54 fc	6.8 ft	6.8 ft
16.0 ft	4.80 fc	9.0 ft	9.1 ft
20.0 ft	3.08 fc	11.3 ft	11.3 ft
24.0 ft	2.14 fc	13.5 ft	13.6 ft



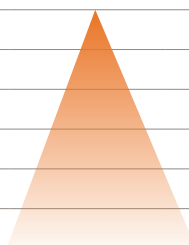
dCrest-9 9LED 40° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 31.6°	Horizontal 31.4°
4.0 ft	76.0 fc	2.3 ft	2.3 ft
8.0 ft	19.0 fc	4.5 ft	4.5 ft
12.0 ft	8.44 fc	6.8 ft	6.8 ft
16.0 ft	4.75 fc	9.0 ft	9.1 ft
20.0 ft	3.04 fc	11.3 ft	11.3 ft
24.0 ft	2.11 fc	13.5 ft	13.6 ft



dCrest-9 ZDC 60°

Feet	Center Beam	Beam Width	
		Vertical 55.3°	Horizontal 54.6°
4.0 ft	11.4 fc	4.2 ft	4.1 ft
8.0 ft	2.84 fc	8.4 ft	8.3 ft
12.0 ft	1.26 fc	12.6 ft	12.4 ft
16.0 ft	0.71 fc	16.8 ft	16.5 ft
20.0 ft	0.45 fc	20.9 ft	20.7 ft
24.0 ft	0.32 fc	25.1 ft	24.8 ft



holm



TYPE

CATALOG #

PROJECT

NOTES

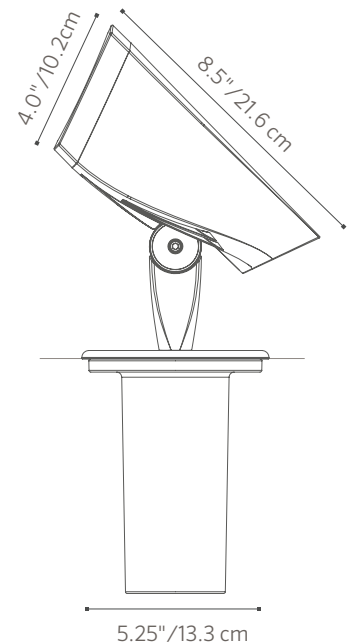
LED DIRECTIONAL FIXTURES

dCrest-9

The highly versatile dCrest-9 offers various mounting options for premier lighting that adds a soft layer of elegance to any project. The luminaire's compact size makes it especially useful for highlighting facades, signage, and other architectural accent features.

Quick Facts

- Die-cast aluminum
- Two-layer marine-grade anodization and powder coat finish
- Xicato® LED module
- Full adjustability
- Dimming: Phase or 0-10V
- Input voltage: 110-277V and 12V
- IP65



dCrest-9 SPECIFICATIONS

Output	L07	L10	L13	9LED	ZD9LED	ZDC
Total Lumens*						
Spot (20°)	585	732	1001	625	625	N/A
Flood (40°)	616	761	1025	575	575	N/A
Wide Flood (60°)	499	565	824	581	581	200
Input Power (W)	9.9	14.2	19.2	11.7	11.7	5.2
Efficacy (Lumens/Watt)	51-62	40-54	43-53	49	49	39
Color Rendering Index (CRI)	84	84	84	83	83	81
Center Beam Candle Power (CBCP)						
Spot (20°)	2456	3123	4067	3420	3420	N/A
Flood (40°)	1560	1874	2537	1234	1234	N/A
Wide Flood (60°)	669	806	1113	607	607	182
Dimming	Phase, 0-10V	Phase, 0-10V	Phase, 0-10V	N/A	ZD	ZDC
Minimum Rated Life (L80)	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs	50,000 Hrs
Luxor® Compatibility						
ZD Option	Luxor CUBE Req'd	Luxor CUBE Req'd	Luxor CUBE Req'd	N/A	Zoning/Dimming	Zoning/Dimming/Color
ZDC Options	N/A	N/A	N/A	N/A	N/A	Yes

* Luminaire output does not change according to specified CCT.

Holm

Holm. Born from an industry demand for a comprehensive offering of distinctive line- and low-voltage luminaires for the commercial market. Our products are designed to meet required specifications while echoing the aesthetics of the project. Holm is a Hunter Industries company with more than three decades of engineering expertise, now bringing its Luxor® technology to the commercial architectural and landscape lighting market.

Materials

Die-cast aluminum A380 housing and shroud with stainless steel hardware.

Lamp

Integrated Xicato® LED module. Next-Generation Corrected Cold Phosphor Technology® keeps phosphors cool for maintained light quality and very tight color consistency (within 1 x 2 MacAdam ellipses). Up to 100+ lumens per watt at operating conditions. CCT range from 2,700K to 4,000K with outputs between 700 and 1,300 lumens.

Ambient Operating Temperature
55°C

Optics

Beam angle options preinstalled: spot (20°), flood (40°), wide flood (60°). Field replaceable.

Socket

Socket contains MoistureBlock™ technology, preventing moisture from wicking into sealed areas of the luminaire via the wiring.

Wiring

UL1015 105°C 600V; 18/3 (1 mm) for phase dim driver and 18/5 (1 mm) for 0-10V driver.

Power

Four input power options: 1) standard voltage using 120V/60Hz input with phase dimming, 2) universal voltage using 110V to 277V/60Hz with 0-10V dimming, 3) high voltage using 220V to 240V/50Hz, or 4) low voltage using 10-15VAC/VDC 50/60Hz (remote transformer required).

Housing

Die-cast aluminum housing with capacity up to 1,300 lumens. Removable LED module, optics and driver.

Mounting Kit

ABS construction sleeve with ½" NPT knockouts. Construction cover included.

Shroud

Die-cast aluminum shroud with recessed lens (standard) or 45° angled cutoff option (long shroud).

Knuckle

Die-cast aluminum knuckle with ½-14 NPSM threads. Compress and lock features prevent slip after installation. 105° of vertical adjustment with 5° increments.

Lens

Tempered glass lens with shock resistance and high tolerance for thermal expansion and stress.

Finish

Two-layer protection of sulfuric acid anodization and polyester TGIC powder coat, providing superior outdoor weathering in all conditions. Tested to ASTM standards.

Hardware

10-24 x ¾" stainless steel angle lock screw (hex) with 6-32 x ½" faceplate screws (hex).

Weight

4.8 lbs. (2.2kg)

Installation Requirements

Designed for in-ground installation in upward or downward directions.

Control

ZDlink™ or ZDlink™ utilizes Luxor® technology to zone light fixtures in up to 250 groups, dim each group in 1% increments between 0 and 100%, or change to one of 30,000 colors with RGBW LEDs. Specify the Luxor Cube for zoning and/or dimming the dCrest-9 with ZDlink or ZDlink (UV option). ZD9LED and ZDC options connect directly to ZDlink or ZDlink.

Sustainability

Innovation meets conservation in the design and manufacturing of our products. Where we can, we use recycled materials while maintaining superior functionality. Our LED products provide high-quality light at optimal energy efficiency, lifespan, and durability.

Warranty

5-year limited warranty

Manufacturing

ISO 9001:2015 certified facility

Listings



dCrest-9 ORDERING INFORMATION

Fixture-Size	Power Control	Output	CCT	Optics	Options	Finish	Mounting Options
dCST-9	■ SV 120V/60 Hz Phase UL Listed	■ L07 499-616 Lumens	■ K27 2,700K	■ SP 20°	■ [default] Standard Shroud	■ BZ Bronze Metallic	■ MKCST9 Standard Kit
	■ UV 110-277V/60Hz 0-10V UL Listed	■ L10 565-761 Lumens	■ K30 3,000K	■ FL 40°	■ LS Long Shroud (45°)	■ SV Silver	
	■ HV 220-240V/50Hz 0-10V CE Approved	■ L13 685-1025 Lumens	■ K35 3,500K	■ WF 60°		■ FB Flat Black	
	■ LV 12V UL Listed CE Approved	■ 9LED 490-625 Lumens	■ K40 4,000K			■ FW Flat White	
		■ ZD9LED 490-625 Lumens				■ RL RAL Color	
		■ ZDC 200 Lumens*					














EXAMPLE FIXTURE CONFIGURATION: dCST-9-SV-L13-K30-FL-LS-SV-MKCST9

*Available in WF only



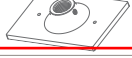




dCrest-9 ORDERING INFORMATION

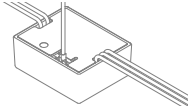
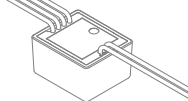
LENS ACCESSORIES: Specify Separately

Item	Code	
■ SNAP RING LENS HOLDER <i>Accommodates two lenses or baffles SV, UV, and HV only</i>	250025280000	
■ FLOOD LENS <i>30°-32° 9LED and ZD9LED only</i>	9LEDFLENS	
■ WIDE FLOOD LENS <i>56°-58° 9LED and ZD9LED only</i>	9LEDWFLENS	
■ HEX BAFFLE <i>SV, UV, and HV only</i>	250015260000	
■ LINEAR SPREAD LENS <i>SV, UV, and HV only</i>	250013550000	
■ SOLITE SPREAD LENS <i>SV, UV, and HV only</i>	250015240000	
■ FROSTED LENS <i>SV, UV, and HV only</i>	250015170000	
■ RED DICHROIC LENS <i>SV, UV, and HV only</i>	250015220000	
■ GREEN DICHROIC LENS <i>SV, UV, and HV only</i>	250015210000	
■ BLUE DICHROIC LENS <i>SV, UV, and HV only</i>	250015200000	
■ PEACH DICHROIC LENS <i>SV, UV, and HV only</i>	250015230000	
■ LIGHT GREEN DICHROIC LENS <i>SV, UV, and HV only</i>	250015180000	
■ LIGHT BLUE DICHROIC LENS <i>SV, UV, and HV only</i>	250015190000	

MOUNTING OPTIONS: Specify Separately

Mounts	Code	
■ ProAim™ Ratcheting Spike** <i>10" 25.4 cm x 2.37" 5.1 cm</i>	PARS	
■ GROUND MOUNT † <i>2.7" 6.7 cm Diameter</i>	GM-XX*	
■ WALL PLATES † <i>3.4" 8.5 cm x 5.1" 12.9 cm</i>	WP-1G-050-XX*	
■ WALL PLATES † <i>5.0" 12.7 cm Diameter</i>	WP-RD-050-XX*	
■ VERSABOX † <i>2.2" 5.7 cm x 1.5" 3.9 cm</i>	VB-050-XX*	

LUXOR CUBES: Specify Separately

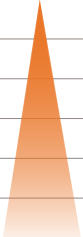
Item	Code	
■ LINE-VOLTAGE CUBE <i>120V Phase Dimming Module</i>	LCM-HV	
■ RELAY/0-10V CUBE <i>0-10V and Relay Module</i>	LCM-RLY-010V	

* XX = finish code
 ** Included with LV
 † LV only

dCrest-9 PHOTOMETRICS

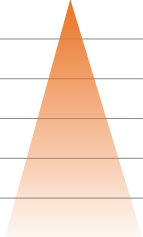
dCrest-9 700 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.1°	Horizontal 24.8°
4.0 ft	138 fc	1.7 ft	1.8 ft
8.0 ft	34.5 fc	3.4 ft	3.5 ft
12.0 ft	15.3 fc	5.1 ft	5.3 ft
16.0 ft	8.62 fc	6.8 ft	7.0 ft
20.0 ft	5.52 fc	8.5 ft	8.8 ft
24.0 ft	3.83 fc	10.2 ft	10.5 ft



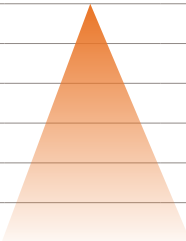
dCrest-9 700 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 37.8°	Horizontal 37.9°
4.0 ft	93.7 fc	2.7 ft	2.7 ft
8.0 ft	23.4 fc	5.5 ft	5.5 ft
12.0 ft	10.4 fc	8.2 ft	8.2 ft
16.0 ft	5.86 fc	10.9 ft	10.9 ft
20.0 ft	3.75 fc	13.7 ft	13.6 ft
24.0 ft	2.60 fc	16.4 ft	16.4 ft




dCrest-9 700 Lumens 60°

Feet	Center Beam	Beam Width	
		Vertical 51.7°	Horizontal 53.6°
4.0 ft	41.7 fc	3.9 ft	4.0 ft
8.0 ft	10.4 fc	7.8 ft	8.1 ft
12.0 ft	4.64 fc	11.6 ft	12.1 ft
16.0 ft	2.61 fc	15.5 ft	16.2 ft
20.0 ft	1.67 fc	19.4 ft	20.2 ft
24.0 ft	1.16 fc	23.3 ft	24.2 ft



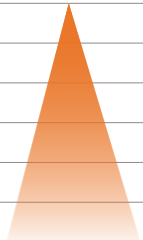
dCrest-9 1,000 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.1°	Horizontal 24.0°
4.0 ft	194 fc	1.7 ft	1.7 ft
8.0 ft	48.6 fc	3.4 ft	3.4 ft
12.0 ft	21.6 fc	5.1 ft	5.1 ft
16.0 ft	12.2 fc	6.8 ft	6.8 ft
20.0 ft	7.78 fc	8.5 ft	8.5 ft
24.0 ft	5.40 fc	10.3 ft	10.2 ft



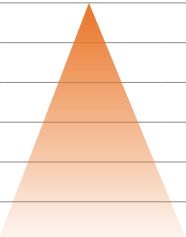
dCrest-9 1,000 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 38.8°	Horizontal 38.7°
4.0 ft	117 fc	2.8 ft	2.8 ft
8.0 ft	29.3 fc	5.6 ft	5.6 ft
12.0 ft	13.0 fc	8.5 ft	8.4 ft
16.0 ft	7.32 fc	11.3 ft	11.2 ft
20.0 ft	4.69 fc	14.1 ft	14.0 ft
24.0 ft	3.25 fc	16.9 ft	16.8 ft



dCrest-9 1,000 Lumens 60°

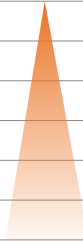
Feet	Center Beam	Beam Width	
		Vertical 52.4°	Horizontal 51.9°
4.0 ft	50.4 fc	3.9 ft	3.9 ft
8.0 ft	12.6 fc	7.9 ft	7.8 ft
12.0 ft	5.60 fc	11.8 ft	11.7 ft
16.0 ft	3.15 fc	15.7 ft	15.6 ft
20.0 ft	2.01 fc	19.7 ft	19.5 ft
24.0 ft	1.40 fc	23.6 ft	23.3 ft



dCrest-9 PHOTOMETRICS


dCrest-9 1,300 Lumens 20°

Feet	Center Beam	Beam Width	
		Vertical 24.4°	Horizontal 25.2°
4.0 ft	252 fc	1.7 ft	1.8 ft
8.0 ft	63.0 fc	3.5 ft	3.6 ft
12.0 ft	28.0 fc	5.2 ft	5.4 ft
16.0 ft	15.8 fc	6.9 ft	7.1 ft
20.0 ft	10.1 fc	8.7 ft	8.9 ft
24.0 ft	7.00 fc	10.4 ft	10.7 ft



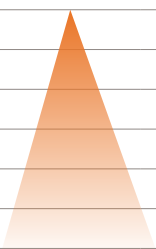
dCrest-9 1,300 Lumens 20° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 24.5°	Horizontal 25.3°
4.0 ft	253 fc	1.7 ft	1.8 ft
8.0 ft	63.1 fc	3.5 ft	3.6 ft
12.0 ft	28.1 fc	5.2 ft	5.4 ft
16.0 ft	15.8 fc	6.9 ft	7.2 ft
20.0 ft	10.1 fc	8.7 ft	8.9 ft
24.0 ft	7.01 fc	10.4 ft	10.8 ft



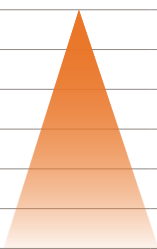
dCrest-9 1,300 Lumens 40°

Feet	Center Beam	Beam Width	
		Vertical 38.2°	Horizontal 38.3°
4.0 ft	159 fc	2.8 ft	2.8 ft
8.0 ft	39.6 fc	5.5 ft	5.6 ft
12.0 ft	17.6 fc	8.3 ft	8.3 ft
16.0 ft	9.91 fc	11.1 ft	11.1 ft
20.0 ft	6.34 fc	13.8 ft	13.9 ft
24.0 ft	4.40 fc	16.6 ft	16.7 ft



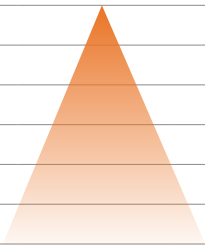
dCrest-9 1,300 Lumens 40° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 38.9°	Horizontal 38.8°
4.0 ft	158 fc	2.8 ft	2.8 ft
8.0 ft	39.6 fc	5.6 ft	5.6 ft
12.0 ft	17.6 fc	8.5 ft	8.5 ft
16.0 ft	9.89 fc	11.3 ft	11.3 ft
20.0 ft	6.33 fc	14.1 ft	14.1 ft
24.0 ft	4.40 fc	16.9 ft	16.9 ft



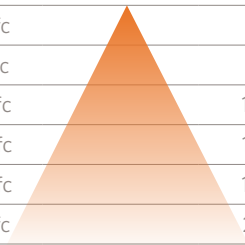
dCrest-9 1,300 Lumens 60°

Feet	Center Beam	Beam Width	
		Vertical 52.4°	Horizontal 52.8°
4.0 ft	69.6 fc	3.9 ft	4.0 ft
8.0 ft	17.4 fc	7.9 ft	7.9 ft
12.0 ft	7.73 fc	11.8 ft	11.9 ft
16.0 ft	4.35 fc	15.7 ft	15.9 ft
20.0 ft	2.78 fc	19.7 ft	19.8 ft
24.0 ft	1.93 fc	23.6 ft	23.8 ft



dCrest-9 1,300 Lumens 60° Long Shroud

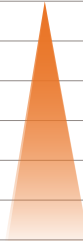
Feet	Center Beam	Beam Width	
		Vertical 48.3°	Horizontal 46.2°
4.0 ft	69.1 fc	3.6 ft	3.4 ft
8.0 ft	17.3 fc	7.2 ft	6.8 ft
12.0 ft	7.67 fc	10.8 ft	10.2 ft
16.0 ft	4.32 fc	14.4 ft	13.7 ft
20.0 ft	2.76 fc	18.0 ft	17.1 ft
24.0 ft	1.92 fc	21.5 ft	20.5 ft



dCrest-9 PHOTOMETRICS

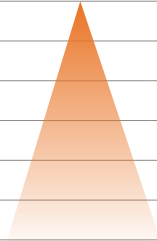
dCrest-9 9LED 40°

Feet	Center Beam	Beam Width	
		Vertical 31.5°	Horizontal 31.7°
4.0 ft	76.9 fc	2.3 ft	2.3 ft
8.0 ft	19.2 fc	4.5 ft	4.5 ft
12.0 ft	8.54 fc	6.8 ft	6.8 ft
16.0 ft	4.80 fc	9.0 ft	9.1 ft
20.0 ft	3.08 fc	11.3 ft	11.3 ft
24.0 ft	2.14 fc	13.5 ft	13.6 ft



dCrest-9 9LED 40° Long Shroud

Feet	Center Beam	Beam Width	
		Vertical 31.6°	Horizontal 31.4°
4.0 ft	76.0 fc	2.3 ft	2.3 ft
8.0 ft	19.0 fc	4.5 ft	4.5 ft
12.0 ft	8.44 fc	6.8 ft	6.8 ft
16.0 ft	4.75 fc	9.0 ft	9.1 ft
20.0 ft	3.04 fc	11.3 ft	11.3 ft
24.0 ft	2.11 fc	13.5 ft	13.6 ft



dCrest-9 ZDC 60°

Feet	Center Beam	Beam Width	
		Vertical 55.3°	Horizontal 54.6°
4.0 ft	11.4 fc	4.2 ft	4.1 ft
8.0 ft	2.84 fc	8.4 ft	8.3 ft
12.0 ft	1.26 fc	12.6 ft	12.4 ft
16.0 ft	0.71 fc	16.8 ft	16.5 ft
20.0 ft	0.45 fc	20.9 ft	20.7 ft
24.0 ft	0.32 fc	25.1 ft	24.8 ft

