

Catalog #	
Project name	
Prepared by	

PRODUCT OVERVIEW



APPLICATIONS

- Area Lighting
- Residential Lighting
- Roadway Lighting
- Parking Lot Lighting

DIMENSIONS

Unit: Inch (mm)

Approximate Net Weight: 8.8 lbs. (4 kgs.)
 Dimensions: 22.5" x 8.7" x 4.6" (572mm x 220mm x 117mm)
 Effective Projected Area (EPA): 0.45 sq. ft. max. (0.042 sq. m.)

PRODUCT CERTIFICATIONS



PRODUCT SPECIFICATIONS

OPTICAL

Ideal LED replacement for 70W to 250W HPS roadway
 Precision optical lens design
 Photometric distributions available in Type II, III, IV, and V
 Standard 4000K CCT/ 70 CRI minimum, 2700K, 3000K, and 5000K CCT/ 70 CRI minimum option available
 IP66 rated LED light engines

ELECTRICAL

120-277V 50/60Hz operation; 347-480V is also available
 Standard 1-10V dimming; DALI dimming option available
 10kV/5kA Surge protection meets IEEE/ ANSI C62.41, ANSI C136.2-2015
 20kV/10kA SPD option meets IEEE/ANSI C62.41.2 Location Category C High, ANSI C136.2-2015 Extreme Level

CONSTRUCTION

Heavy-duty low copper die cast aluminum housing and door
 Arm mount is adjustable from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter
 Slipfitter with -5, -2.5, 0, +2.5, +5 degree of adjustment for leveling
 Standard two-bolts/ one-bracket slipfitter provides 3G vibration rating per ANSI C136.31-2018. Optional four-bolts/ two-bracket slipfitter available
 Tool-less entry for easy installation and maintenance

CONTROL

Standard advance 7-pin photocontrol receptacle available to meet ANSI C136.41

WARRANTY

Ten-year warranty*
 * See your sales representative for warranty terms and conditions

RATING AND CERTIFICATIONS

UL and cUL Wet Location Listed
 DesignLights Consortium® (DLC) Qualified Product
 Dark Sky Compliant (<3000K CCT only)
 Rated for -40°C to +50°C ambient (-40°F to +122°F ambient)*
 Certified to ANSI C136.31-2018 3G Vibration
 Meets FCC Part 15, Subpart B, Class A Standards
 Meets Buy American Requirements within ARRA
 RoHS Compliant
 Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

* -40°C to +45°C ambient for L120

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EOI LED Roadway Lighting Compass Series

PERFORMANCE TABLE

Light Distribution	Color Temp. 4000K/5000K					Color Temp. 3000K					Color Temp. 2700K				
	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating	Lumen Pack	Flux (lm)	Power (W)	LPW	BUG Rating
Type II	L060	6724	42	160	B2-U0-G1	L060	6388	42	152	B2-U0-G1	L060	6186	42	147	B2-U0-G1
	L090	9343	62	151	B2-U0-G2	L090	8875	62	143	B2-U0-G2	L090	8595	62	139	B2-U0-G2
	L110	11247	78	144	B3-U0-G2	L110	10685	78	137	B3-U0-G2	L110	10347	78	133	B2-U0-G2
	L120	12152	88	138	B3-U0-G2	L120	11544	88	131	B3-U0-G2	L120	11180	88	127	B3-U0-G2
Type III	L060	6792	42	162	B2-U0-G1	L060	6452	42	154	B2-U0-G1	L060	6248	42	149	B1-U0-G1
	L090	9416	62	152	B2-U0-G2	L090	8945	62	144	B2-U0-G2	L090	8818	62	142	B2-U0-G2
	L110	11361	78	146	B2-U0-G2	L110	10793	78	138	B2-U0-G2	L110	10452	78	134	B2-U0-G2
	L120	12349	88	140	B2-U0-G2	L120	11731	88	133	B2-U0-G2	L120	11474	88	130	B2-U0-G2
Type IV	L060	6656	42	158	B2-U0-G2	L060	6323	42	151	B2-U0-G2	L060	6018	42	143	B1-U0-G2
	L090	9228	62	149	B2-U0-G2	L090	8766	62	141	B2-U0-G2	L090	8437	62	136	B2-U0-G2
	L110	11134	78	143	B2-U0-G2	L110	10577	78	136	B2-U0-G2	L110	10085	78	129	B2-U0-G2
	L120	12102	88	138	B2-U0-G2	L120	11497	88	131	B2-U0-G2	L120	10936	88	124	B2-U0-G2
Type V	L060	6996	42	167	B3-U0-G2	L060	6646	42	158	B3-U0-G1	L060	6436	42	153	B3-U0-G1
	L090	9699	62	156	B4-U0-G2	L090	9214	62	149	B3-U0-G2	L090	8923	62	144	B3-U0-G2
	L110	11702	78	150	B4-U0-G2	L110	11117	78	143	B4-U0-G2	L110	10766	78	138	B4-U0-G2
	L120	12719	88	145	B4-U0-G2	L120	12083	88	137	B4-U0-G2	L120	11702	88	133	B4-U0-G2

Information shown above is based on nominal system data. Initial delivered lumens at 25°C(77°F). Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

LUMEN MAINTENANCE

Lumen Package	TM-21 Lumen Maintenance (50,000 hours)	TM-21 Lumen Maintenance (100,000 hours)	Theoretical L70 (Hours)
L120	90.69%	81.99%	>100,000

Projected lumen maintenance per IES TM-21 at 25°C ambient and based on LM-80.

ORDERING INFORMATION

CRLS-

A24

Product Series	LED Engine	Lumen Package	Driver	Optics
CRLS – Compass Roadway Lighting Small	A24 – 24LED	L060 – 6,000 lm L090 – 9,000 lm L110 – 11,000 lm L120 – 12,000 lm	UD – 120~277V, 1-10V HD – 347~480V, 1-10V DD – 120~277V, DALI	2M – Type II Medium 3M – Type III Medium 4M – Type IV Medium 5M – Type V Medium

Color Temperature	Paint	Surge Protection	Controls	Accessories
27 – 2700K 30 – 3000K 40 – 4000K *50 – 5000K	GY – Gray BZ – Bronze BK – Black GR – Green RAL 6012	10V – 10kV/5kA SPD 20V – 20kV/10kA SPD 20F – 20kV/10kA Failed to Open	7R – 7-pin PCR P7 – Longlife Photocontrol and 7-pin PCR *7RD – 7-pin PCR and 8 Level Dimming *P7D – Longlife Photocontrol, 7-pin PCR, and 8 Level	6-14A – 6' Pre-wire 14AWG Solid 5-14A – 5' Pre-wire 14AWG Solid FS – Fuse EB – External Bubble Leveling N – None HS – House Side Shield SS – Street Side Shield CS – Cul-de-sac Shield

* 5000K, 7RD and P7D models are excluded on the DLC list.