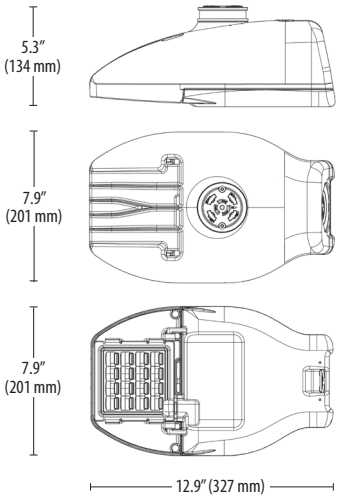
NXT LITE

NXT-LITE-S SPECIFICATIONS

Housing:	Single-piece, die-cast aluminum alloy with low copper content.
Operating Temperature:	-40°C to +40°C Standard (+50°C Optional[1])
Mounting:	1.625" - 2.375" (42 - 60 mm) O.D. tenons.
Weight:	8 lbs (3.6kg)
EPA Rating:	0.215 ft^2 (0.020 m^2)
Lens Material:	PMMA acrylic. IK09 rated, borosilicate glass optional.
Ingress Protection:	Power supply and optical assembly are IP66 rated per IEC 60529/ANSI C136.25. Luminaire is rated for wet locations.
Warranty:	5-year warranty.
Finish:	Durable, polyester powdercoat topcoat.
Available Colors:	GREY (RAL-7035) BLACK (RAL-9005)



	NXT-LITE S (16 LEDs)															
ELECTRICAL																
Power Consumption (W)	17	20	23	25	30	35	42	47	53	55	58	61	66	71	77	82
Drive Currents (mA)	175	200	232	250	300	350	400	450	500	525	575	600	650	700	750	800
LED Voltage (V)	6															
Input Voltage (V)	120 - 277V (Standard), 347 - 480V (Optional).															
Surge Protection	Meets ANSI C136.2 - 2023 extreme electrical transient immunity requirements (20kV/10kA).															
Power Factor	>0.90															
Receptacle	7-PIN receptacle (ANSI C136.41)															

OPTICS & PERFORMANCE																
Photometry (Distribution)	2ES (Type II Max Throw) , 3LM (Type III Medium), G2S (Glass Type II Max Throw), G3M (Glass Type III Medium), 4AT (Type IV High Throw), G4T (Glass Type IV), 5RM (Type V Round).															
Color Temperature (CCT)	5000K, 4000K, 3000K, 2700K, 2200K.															
Color Rendering Index (CRI)	70															
4000K Fixture Efficacy (Lm/W)	187	186	185	183	181	178	174	172	165	165	166	166	164	162	160	158
4000K Fixture Output (Lm)	3,200	3,700	4,200	4,550	5,400	6,250	7,300	8,050	8,750	9,100	9,700	10,100	10,800	11,500	12,300	12,800
3000K Fixture Efficacy (Lm/W)	178	178	177	175	173	172	167	165	158	158	158	158	156	155	153	151
3000K Fixture Output (Lm)	3,050	3,550	4,050	4,350	5,100	5,900	7,000	7,750	8,400	8,700	9,350	9,650	10,300	11,050	11,700	12,250
2700K Fixture Efficacy (Lm/W)	173	172	171	170	168	165	161	160	154	154	154	154	152	151	149	145
2700K Fixture Output (Lm)	2,950	3,450	3,950	4,250	5,050	5,800	6,800	7,500	8,150	8,500	9,050	9,400	10,050	10,750	11,500	11,950
2200K Fixture Efficacy (Lm/W)	152	152	150	150	148	147	142	141	136	136	136	136	135	134	131	129
2200K Fixture Output (Lm)	2,600	3,050	3,450	3,750	4,450	5,150	6,000	6,650	7,200	7,500	8,000	8,300	8,900	9,500	10,100	10,550
LED L70 (Hours)	> 100,000 hours @ maximum drive current.															

1. NXT-LITE-S: All wattages 82W and below can be rated to +50 ° C. The +50 ° C ambient rating kit must be selected in the Additional Features & Special Selections section of the order guide. -40 °C for fixed installation only. 2. Not all model configurations are DLC qualified - consult factory for details. 3. Only products with a CCT of 3000K (or less) meet International Dark Sky Association requirements.

Performance data above refers to Type 2ES PMMA optic without glass protector. Values shown are subject to ±5% tolerance. Color temperatures shown are ±300K.
Ilustrated Above: NXT-LITE-S in grey (RAL 7035).

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NXT LITE

NXT-LITE-S SPECIFICATIONS

ORDERING INFORMATION

Example catalog number: L6-16S-5-7-2ES-1-S-GY-4-UL-2-S-A-XXXX

SERIES	LEDS/BODY	VOLTAGE[4]	RECEPTACLE	OPTICS	POWER	
L6	**16S**					
L6 - NXT-LITE	**16S** - Small	**5** - 120 - 277V **6** - 347 - 480V	**7** - 7-PIN Receptacle (C136.41) **S** - Solid Top (No Receptacle)* **Y** - 7-PIN Receptacle (C136.41) on top, Zhaga (Book 18) sensor port on luminaire door. *	**2ES** - Type II Max Throw **3LM** - Type III Medium **4AT** - Type IV High Throw **G2S** - Glass Type II Max Throw **G3M** - Glass Type III Medium **G4T** - Glass Type IV **5RM** – Type V Round	**1** - 17W (175mA) **M** - 20W (200mA) **0** - 23W (232mA) **2** - 25W (250mA) **W** - 30W (300mA) **3** - 35W (350mA) **T** - 42W (400mA) **4** - 47W (450mA)	**R** - 53W (500mA) **5** - 55W (525mA) **U** - 58W (575mA) **6** - 61W (600mA) **K** - 66W (650mA) **7** - 71W (700mA) **G** - 77W (750mA) **L** - 82W (800mA)

DRIVER OPTION[5]	FINISH	COLOR TEMP (CCT)[6]	CERTIFICATION	MOUNTING METHOD	WIRING CHAMBER	SURGE PROTECTION
						A
S - Standard Dimming (1-10V) **2** - DALI-2 **Z** - DALI-2 + D4i	**GY** - Grey (RAL 7035) **BK** - Black (RAL 9005)	**5** - 5000K **4** - 4000K **3** - 3000K **2** - 2700K **D** - 2200K	**UL** - cULus **CE** - European **NM** - NOM - Mexico[7]	**2** - 2-Bolt Horizontal Mount **4** - 4-Bolt Horizontal Mount*	**S** - Standard **F**- Field Adjustable Output (FAO) Switch[8]	**A** - 20 kV / 10 kA Fail-Off

CATALOG NUMBER:

L6-16S-_-_-_-_-_-_-_-_-_-_-A-_-_-_-_-

CLEAR FORM

ADDITIONAL FEATURES & SPECIAL SELECTIONS*						
MOUNTING ARM	**PHOTOCELL / SHORTING CAP**		**PRE-WIRED LEADS 16 AWG - 600V**		**HIGH AMBIENT KIT**	**SPR**
M1 - wood pole (12 in) **M2** - wood pole (24 in)	**PHOTOCELL**	**SHORTING CAP**	**2 WIRE (STANDARD)**	**3 WIRE (W/GND)**	**50**- +50 ° C ambient rating Kit[7]	If applicable, insert 4 digit Special Product Request code (SPR)
	PC1 - 120-277V Up **PC2** - 120-277V Side **PC3** - 480V Side **PC4** - 347V Side	**SC1** - 120-480V	**06** - 6 ft **01** - 10 ft **02** - 20 ft	**L1** - 10 ft **L2** -20 ft **L6** - 6 ft		

Project Name:	Comments
Quantity:	
Approved By:	
Date:	

* Non-standard configuration. Consult factory for lead time . 4. 347-480V only with 16 LED, 30W and above. 5. If Memory Banks (DALI Part 251) info is to be populated, separate form 'DALI Ordering Guide' will need to be filled in and submitted for the order to be processed. 6. Other color temperatures available. 7. NOM certification only supports models up to 700mA drive current.

8. Requires S - Standard Dimming (1-10V) option. 9. LITE-S: All wattages 82W and below can be rated to +50 °C. Select Hight Ambient Kit 50.

Information provided is subject to change without notice. LED ROADWAY LIGHITNG supplies and warrants luminaires and proprietary control systems only. It is the responsibility of the client to select lighting poles and mounting arms that are suitable for the application (including but not limited to wind loading, seismic requirements, etc.) and the characteristics of the luminaire (e.g. EPA rating), and to confirm integrity and suitability of existing poles and mounting arms prior to installation. Copyright © 2026 LED ROADWAY LIGHTING LTD. All rights reserved.

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NXT LITE

NXT-LITE-S SPECIFICATIONS. OPTIONS AND ACCESSORIES

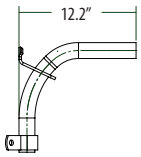
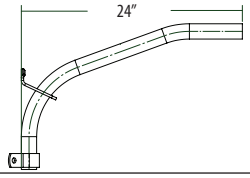
ABOUT THE FIELD ADJUSTABLE OUTPUT SWITCH (FAO)

Manually adjust luminaire wattage and lumen output in the field using the FAO. Seven output levels. Using the chart below, multiply the nominal lumens to arrive at the reduced values. Typical accuracy is +/- 10%. For exact lumen values by configuration, see the FAO reference charts for each model.
When using a control node set FAO to A. Stepped dimming only.

FAO SWITCH SETTING	LUMEN MULTIPLIER (AVG)	WATTAGE OUTPUT FOR EACH MODEL															
		1	M	0	2	W	3	T	4	R	5	U	6	K	7	G	L
		17W	20W	23W	25W	30W	35W	42W	47W	53W	55W	58W	61W	66W	71W	77W	82W
A	100%	17	20	23	25	30	35	42	47	53	55	58	61	66	71	77	82
B	89%	15	18	21	23	27	31	38	42	47	49	51	54	58	63	68	72
C	78%	14	16	18	20	24	27	32	36	41	42	44	47	50	54	59	63
D	67%	12	14	16	17	21	23	27	31	35	36	37	39	42	46	50	53
E	56%	10	12	14	15	18	19	23	25	29	30	31	33	35	38	41	44
F	47%	9	10	12	13	15	15	18	20	23	24	25	26	28	30	33	35
G	35%	7	8	9	10	12	12	14	15	17	18	18	19	21	23	25	26
H	26%	5	6	7	7	9	8	10	11	12	13	12	13	14	15	17	18

MOUNTING ARMS

Mounting arms are available for NXT-LITE. 12" and 24" mounting arms can ship in the box with the luminaire. Use the part numbers below if ordering separately.

LRL-MTL0109-LF = (M1) 12" wood pole mounting arm	LRL-MTL0247 = (M2) 24" wood pole mounting arm
	

PHOTOCELL & SHORTING CAP

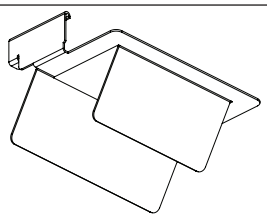
Photocell and Shorting Cap may be ordered to ship in the box with the luminaire, or ordered as an accessory. Use the part numbers below if ordering separately.

			VOLTAGE	STYLE	IP RATING	MOV/SURGE	ON/OFF
Photocell Options	PC1	LRL-65223-LF	120-277V	Upward facing sensor, long life	IP65	320 J	Fail-on
	PC2	101200-00	120-277V	Side facing sensor, long life	IP65	460 J	Fail-on
	PC3	10104-001	480V	Side facing sensor, long life	IP65	460 J	Fail-on
	PC4	LRL-65261-LF	347V	Side facing sensor, long life	IP65	560 J	Fail-on
Shorting Cap Options	SC1	LRL-66326-LF	120-480V Shorting Cap				

LIGHT TRESPASS SHIELD (REVERSIBLE) ACCESSORY ONLY

A light trespass shield is available for NXT-LITE. Shield is reversible for house-side or front-side application. Shields are ordered as an accessory and ship separately from luminaire.

LRL-MTL0155-LF = Light trespass shield for NXT-LITE-S



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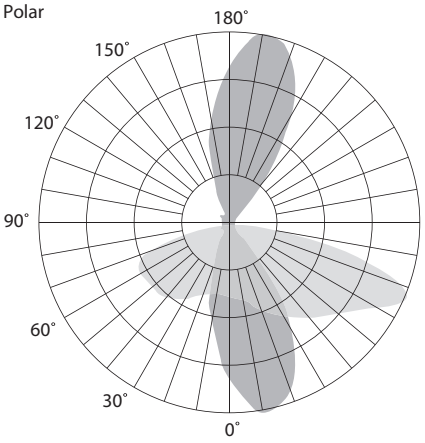
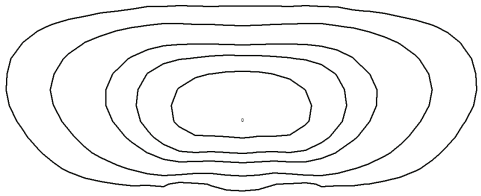
NXT LITE

NXT-LITE-S OPTICS & PERFORMANCE

2ES POLAR CURVES AND ISOLINES TYPE II MAX THROW

2ES Polar





2ES (TYPE II MAX THROW)										
2ES	TEMPERATURE									
WATTAGE	5000K		4000K		3000K		2700K		2200K	
	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W
17W	3,200	186	3,200	187	3,050	178	2,950	174	2,600	154
20W	3,700	186	3,700	186	3,550	178	3,450	174	3,050	153
23W	4,200	185	4,200	185	4,000	177	3,950	172	3,450	152
25W	4,550	183	4,550	183	4,350	175	4,250	171	3,750	151
30W	5,400	181	5,400	181	5,100	174	5,050	169	4,450	150
35W	6,250	179	6,250	179	5,900	172	5,850	167	5,150	148
42W	7,300	174	7,300	174	7,000	167	6,800	163	6,000	144
47W	8,100	172	8,100	172	7,750	165	7,550	161	6,650	142
53W	8,750	166	8,750	166	8,400	159	8,200	155	7,200	137
55W	9,100	165	9,100	165	8,700	158	8,500	154	7,500	136
58W	9,700	168	9,700	168	9,350	160	9,050	156	8,000	138
61W	10,100	166	10,100	166	9,650	159	9,400	155	8,300	137
66W	10,800	164	10,800	164	10,350	157	10,100	153	8,900	135
71W	11,500	163	11,500	163	11,050	156	10,750	152	9,500	134
77W	12,300	160	12,300	160	11,700	153	11,500	149	10,150	132
82W	12,800	158	12,800	158	12,250	152	11,950	148	10,550	130

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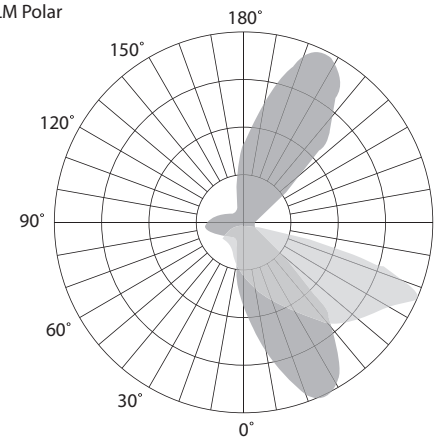
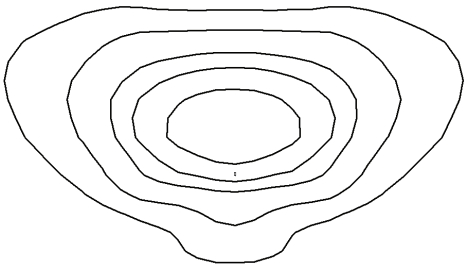
NXT LITE

NXT-LITE-S OPTICS & PERFORMANCE

3LM POLAR CURVES AND ISOLINES TYPE III MEDIUM

3LM Polar





3LM (TYPE III MEDIUM)										
3LM	TEMPERATURE									
WATTAGE	5000K		4000K		3000K		2700K		2200K	
	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W
17W	3,200	189	3,200	189	3,050	181	2,950	176	2,600	156
20W	3,700	186	3,700	186	3,550	178	3,450	173	3,050	153
23W	4,200	183	4,200	183	4,000	175	3,900	171	3,450	151
25W	4,550	183	4,550	183	4,350	175	4,250	170	3,750	150
30W	5,350	179	5,350	179	5,100	171	5,000	167	4,400	148
35W	6,150	177	6,150	177	5,900	169	5,750	165	5,100	146
42W	7,300	174	7,300	174	7,000	167	6,800	163	6,000	144
47W	8,050	172	8,050	172	7,700	165	7,550	161	6,650	142
53W	8,750	166	8,750	166	8,400	159	8,150	155	7,200	137
55W	9,100	166	9,100	166	8,700	159	8,450	155	7,500	136
58W	9,750	168	9,750	168	9,300	161	9,100	157	8,000	139
61W	10,050	166	10,050	166	9,650	158	9,400	154	8,300	136
66W	10,800	164	10,800	164	10,300	157	10,050	153	8,900	135
71W	11,550	163	11,550	163	11,050	156	10,750	152	9,500	134
77W	12,250	159	12,250	159	11,700	152	11,400	148	10,050	131
82W	12,800	158	12,800	158	12,250	152	11,950	148	10,550	131

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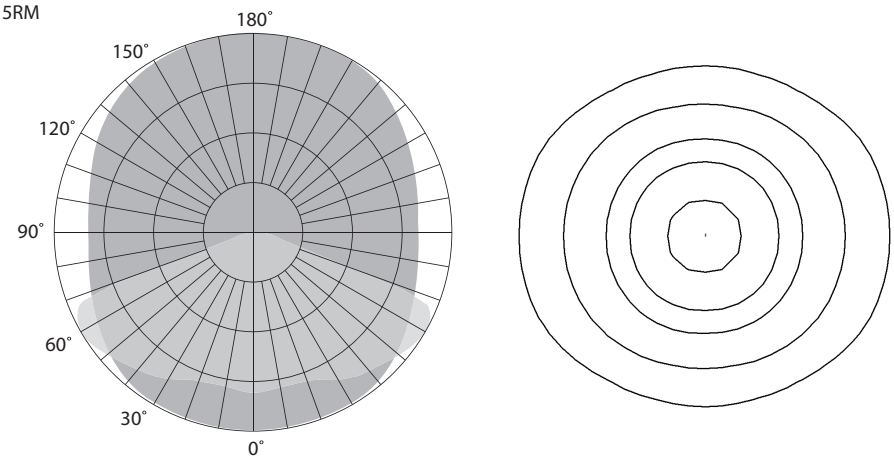
NXT LITE

NXT-LITE-S OPTICS & PERFORMANCE

5RM POLAR CURVES AND ISOLINES TYPE V ROUND



5RM (TYPE V ROUND)										
5RM	TEMPERATURE									
WATTAGE	5000K		4000K		3000K		2700K		2200K	
	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W
17W	3,250	190	3,250	191	3,100	185	3,050	180	2,700	159
20W	3,750	190	3,750	190	3,600	182	3,500	177	3,100	156
23W	4,300	188	4,300	188	4,100	179	4,000	175	3,550	154
25W	4,650	187	4,650	187	4,450	179	4,350	174	3,800	154
30W	5,550	185	5,550	185	5,250	175	5,100	171	4,500	151
35W	6,300	181	6,300	183	6,050	175	5,950	171	5,250	151
42W	7,450	178	7,450	178	7,150	171	6,950	166	6,150	147
47W	8,250	176	8,250	176	7,900	168	7,700	164	6,800	145
53W	8,950	169	8,950	169	8,550	162	8,350	158	7,350	140
55W	9,300	169	9,300	169	8,900	162	8,700	158	7,700	140
58W	9,900	171	9,900	171	9,500	165	9,300	160	8,200	142
61W	10,300	170	10,300	170	9,850	162	9,600	158	8,500	139
66W	11,050	167	11,050	167	10,550	160	10,300	156	9,100	138
71W	11,750	166	11,750	166	11,300	159	11,000	155	9,700	137
77W	12,550	164	12,550	164	11,950	156	11,650	152	10,300	134
82W	13,050	162	13,050	162	12,550	155	12,200	151	10,800	133

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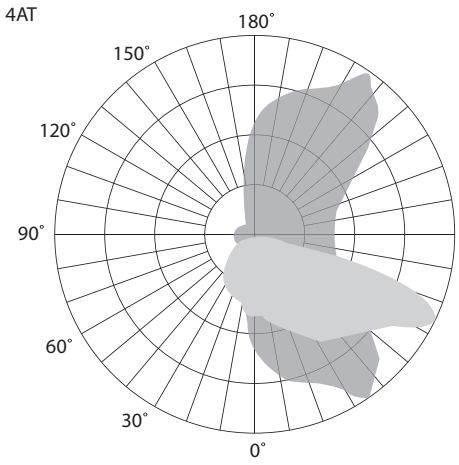
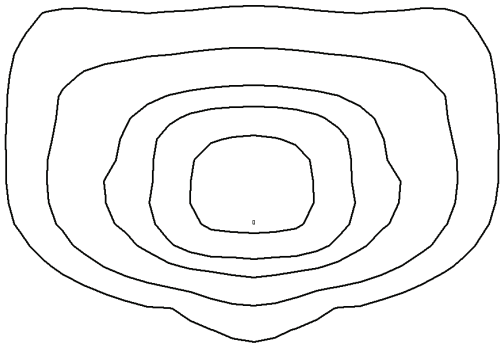
NXT LITE

NXT-LITE-S OPTICS & PERFORMANCE

4AT POLAR CURVES AND ISOLINES TYPE IV HIGH THROW





4AT (TYPE IV HIGH THROW)										
4AT	TEMPERATURE									
WATTAGE	5000K		4000K		3000K		2700K		2200K	
	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W	Lumens	Lm/W
17W										
20W										
23W										
25W										
30W										
35W										
42W										
47W										
53W										
55W										
58W										
61W										
66W										
71W										
77W										
82W										

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