



Lumec RoadFocus Plus LED cobra head luminaires feature a unique and patented design with minimalist profile maintaining key cobra head characteristics. Connectable ready, and available in 4 sizes, the RoadFocus Plus family offers multiple lumen packages with industry leading efficacy, a complete array of optical distributions, ensuring the right fit for any type of roadway application. This family also includes Service Tag, which enables data delivery and information sharing, and provides assistance throughout the life of the product.

Project: _____

Location: _____

Cat.No: _____

Type: _____

Lumens: _____ Qty: _____

Notes: _____



Ordering guide

example: RPL-135W90LED-740-G1-R2M-UNV-DMG-HSS-PH8-TLRD7-GY3

Series	LED module	CCT	Gen.	Distribution	Voltage	Options		Finish						
						Controls ⁶	Options							
RPL			G1											
RPL RoadFocus Plus large	Standard Performance	740 4000K/70CRI	G1 Gen 1	Type 2	UNV 120-277V HVU 347-480V HVX ⁵ 277-480V	D4I ⁷ Zhaga-D4i certified DALI Digitally addressable lighting interface DMG ⁸ 0-10V SRD Sensor ready driver, standard configuration SRD1 Sensor ready driver, alternate configuration	API Factory installed NEMA label, ANSI C136.15-2020 compliant CSS ^{9,10} Cul-de-Sac Shield FSS ^{9,10} Front Side Shield HSS ^{9,10} House Side Shield LSS ^{9,10} Left Side Shield RSS ^{9,10} Right Side Shield FAWS ¹¹ Field adjustable wattage switch OMS ¹² Outdoor Multi-Sensor JP Job Pack NRC ¹³ No receptacle PH8 ^{14,16} Twist-lock photoelectric cell, UNV (120-277VAC) PH8/347 ^{14,15} Twist-lock photoelectric cell (347VAC) PH8/480 ^{14,15} Twist-lock photoelectric cell (480VAC) PHXL ^{14,16} Twist-lock photoelectric cell, extended life, UNV (120-277VAC) PH9 ¹⁴ Shorting cap TLRD7 ^{8,17} Tool less receptacle for twist-lock photocell or shorting cap, 7-pin (standard) SP2 20kV / 10kA Surge protector SPIX Fail-Off 10kV/5kA Surge protector SP2X Fail-Off 20kV/10kA Surge protector TLRSR ^{7,18} SR receptacle BAC ¹⁹ Meets the requirements of the Buy American Act of 1933 (BAA)	BK Black BR Bronze GY3 Gray WH White						
	135W90LED	730 3000K/70CRI		R2M ² Type II Medium										
	160W90LED	727 ¹ 2700K/70CRI		R2MB Type II Medium enhanced back-light										
	185W90LED	840 ¹ 4000K/80CRI		R2S ³ Type II Short										
	225W90LED	830 ¹ 3000K/80CRI		R2MHE ⁴ Type II Medium High Efficacy										
	230W90LED	827 ¹ 2700K/80CRI		Type 3										
	245W90LED			R3M Type III Medium										
	260W90LED			R3MB Type III Medium enhanced back-light										
	275W90LED			R3S Type III Short										
	290W90LED			R3MHE ⁴ Type III Medium High Efficacy										
	305W90LED			Type 4										
	310W90LED			4 Type IV										
				Type 5										
				5 Type V										
		High Performance												
		135W120LED												
		160W120LED												
		185W120LED												
		225W120LED												
		230W120LED												
	245W120LED													
	260W120LED													
	275W120LED													
	290W120LED													
	305W120LED													

¹ Extended lead-time may apply. Consult factory.

² Optimized for Type 2 Medium applications but may show as Type 3 Medium in photometric tools.

³ Optimized for Type 2 Short applications but may show as Type 2 Medium in photometric tools.

⁴ Only available with 120LED 4000K/70CRI versions.

⁵ Not available with DMG Driver option. If used, photoelectric cell selection must be compatible with fixture install voltage.

⁶ Select either **D4I**, **DALI** or **DMG** or **SRD** or **SRD1** mandatory option.

⁷ **TLRSR** must be selected with **D4I** Driver option.

⁸ Please note this integrated feature come standard with RoadFocus.

⁹ Refer to Accessories section to confirm compatibility of shields with optical distribution.

¹⁰ One shield provided per LED light engine.

¹¹ Only available with **DMG** Driver option.

¹² **TLRSR** Option and **D4I** Driver option must be selected with **OMS**.

¹³ Not available with **PH8**, **PHXL**, **PH9**, **DALI**, **TLRD7**, **SRD** or **SRD1** Driver options.

¹⁴ **TLRD7** must be selected for this option.

¹⁵ Not available with **UNV** Voltage option.

¹⁶ Not available with **HVU** Voltage option.

¹⁷ Use of photoelectric cell or shorting cap is required to ensure proper illumination.

¹⁸ Only available with **D4I** or **SRD** or **SRD1** Driver options.

¹⁹ Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.



RPL RoadFocus Plus

LED Cobra head (large)

Accessories*

Must be ordered as separate line items - quickly and easily installed in the field.

Description	Accessory Ordering Code	Shield vs Distribution Compatibility										
		30-40 LED versions**	R2M	R2MB	R2MHE	R2S	R3M	R3MB	R3MHE	R3S	4	5
Cul-de-sac shield	ACC-LG66V40LED-CSS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Front side shield	ACC-LG66V40LED-FSS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Front side shield (for Type 4 only)	ACC-LG66V40LED-FSS-4	No	No	No	No	No	No	No	No	No	Yes	No
House side shield	ACC-LG66V40LED-HSS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
House side shield (for Type 4 only)	ACC-LG66V40LED-HSS-4	No	No	No	No	No	No	No	No	No	Yes	No
Left side shield	ACC-LG66V40LED-LSS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
Right side shield	ACC-LG66V40LED-RSS	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No

* Consult Signify to confirm whether specific accessories are BAA-compliant.

** Refer to Wattage table to confirm light engine configuration.

Example, if configuration is 2x40LED, 2 of the desired shields must be ordered per luminaire.

Predicted Lumen Depreciation Data

Derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-21.

Ambient Temperature	L70 per TM-21	Lumen Maintenance % at 77,000 hrs
25°C	>102,000 hrs	See table below



Connected lighting

Interact City connector node provides the plug and play wireless communications technology to connect your street light to the Interact City lighting management system.

Accessory Ordering Code	Description
LLC	Interact City cellular technology connector node

Contact the factory for additional support when connected lighting or additional services are desired.

Standard Performance Wattage Values

Ordering Code	Total LEDs	Light Engine Config.	Avg. System Watts (W) ¹	Wattage Label ²	Lumen maintenance at			
					25K hrs	50K hrs	60K hrs	77K hrs
RPL-135W90LED	90	3x30LED	134	130	97.5%	94.1%	92.7%	90.5%
RPL-160W90LED	90	3x30LED	158	160	97.5%	94.1%	92.7%	90.5%
RPL-185W90LED	90	3x30LED	183	180	97.5%	94.1%	92.7%	90.5%
RPL-225W90LED	90	3x30LED	222	220	97.5%	94.1%	92.7%	90.5%
RPL-230W90LED	90	3x30LED	228	230	96.5%	91.7%	89.8%	86.7%
RPL-245W90LED	90	3x30LED	243	240	96.5%	91.7%	89.8%	86.7%
RPL-260W90LED	90	3x30LED	256	260	96.5%	91.7%	89.8%	86.7%
RPL-275W90LED	90	3x30LED	272	270	96.5%	91.7%	89.8%	86.7%
RPL-290W90LED	90	3x30LED	286	290	96.5%	91.7%	89.8%	86.7%
RPL-305W90LED	90	3x30LED	301	300	96.5%	91.7%	89.8%	86.7%
RPL-310W90LED	90	3x30LED	306	310	96.5%	91.7%	89.8%	86.7%

High Performance Wattage Values

Ordering Code	Total LEDs	Light Engine Config.	Avg. System Watts (W) ¹	Wattage Label ²	Lumen maintenance at			
					25K hrs	50K hrs	60K hrs	77K hrs
RPL-135W120LED	120	3x40LED	134	130	96.5%	91.7%	89.8%	86.7%
RPL-160W120LED	120	3x40LED	159	160	96.5%	91.7%	89.8%	86.7%
RPL-185W120LED	120	3x40LED	183	180	96.5%	91.7%	89.8%	86.7%
RPL-225W120LED	120	3x40LED	222	220	96.5%	91.7%	89.8%	86.7%
RPL-230W120LED	120	3x40LED	228	230	96.5%	91.7%	89.8%	86.7%
RPL-245W120LED	120	3x40LED	242	240	96.5%	91.7%	89.8%	86.7%
RPL-260W120LED	120	3x40LED	257	260	96.5%	91.7%	89.8%	86.7%
RPL-275W120LED ³	120	3x40LED	272	270	96.5%	91.7%	89.8%	86.7%
RPL-290W120LED ³	120	3x40LED	287	290	96.5%	91.7%	89.8%	86.7%
RPL-305W120LED ³	120	3x40LED	302	300	96.5%	91.7%	89.8%	86.7%

1. Typical values, rounded.

2. As per ANSI C136.15-2020. Consult factory for other labelling needs.

3. Rated for +40°C / +104°F.

Field Adjustable Wattage (FAWS) Multiplier Chart

For all configurations except 135W120LED

For 135W120LED only

FAWS Position	Typical Delivered Lumens Multiplier	Typical System wattage
1	0.29	0.30
2	0.50	0.52
3	0.58	0.60
4	0.69	0.70
5	0.74	0.75
6	0.80	0.83
7	0.86	0.86
8	0.91	0.91
9	0.96	0.95
10	1.00	1.00

Note: Typical value accuracy +/- 5%

FAWS Position	Typical Delivered Lumens Multiplier	Typical System wattage
1	0.16	0.16
2	0.33	0.33
3	0.39	0.39
4	0.47	0.48
5	0.51	0.52
6	0.56	0.56
7	0.61	0.61
8	0.64	0.64
9	0.68	0.68
10	1.00	1.00

Note: Typical value accuracy +/- 5%

RPL RoadFocus Plus

LED Cobra head (large)

4000K/70CRI LED Standard Performance Lumen Values – multiply values by 0.9 for 80CRI

Ordering Code	Type R2M			Type R2S			Type R3M			Type R3S		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W90LED	22722	171	B3-U0-G3	23476	177	B4-U0-G4	22621	170	B3-U0-G3	22712	171	B3-U0-G3
RPL-160W90LED	26693	169	B3-U0-G3	27578	174	B4-U0-G4	26574	168	B3-U0-G3	26682	168	B3-U0-G3
RPL-185W90LED	30322	166	B4-U0-G4	31328	171	B4-U0-G4	30187	165	B4-U0-G3	30309	165	B3-U0-G4
RPL-225W90LED	35615	160	B4-U0-G4	36796	166	B4-U0-G4	35456	160	B4-U0-G3	35600	160	B4-U0-G4
RPL-230W90LED	36340	160	B4-U0-G4	37546	165	B4-U0-G4	36178	159	B4-U0-G4	36325	160	B4-U0-G4
RPL-245W90LED	38208	158	B4-U0-G4	39475	163	B4-U0-G4	38037	157	B4-U0-G4	38191	158	B4-U0-G4
RPL-260W90LED	39894	156	B4-U0-G4	41217	161	B4-U0-G4	39716	155	B4-U0-G4	39877	156	B4-U0-G4
RPL-275W90LED	41586	153	B4-U0-G4	42965	158	B4-U0-G4	41400	152	B4-U0-G4	41568	153	B4-U0-G4
RPL-290W90LED	43131	151	B4-U0-G4	44562	156	B4-U0-G4	42939	150	B4-U0-G4	43113	151	B4-U0-G4
RPL-305W90LED	44675	149	B4-U0-G4	46157	153	B4-U0-G4	44476	148	B4-U0-G4	44656	148	B4-U0-G4
RPL-310W90LED	45275	148	B4-U0-G4	46777	153	B4-U0-G4	45073	147	B4-U0-G4	45256	148	B4-U0-G4

Ordering Code	Type 4			Type 5			Type R2MB			Type R3MB		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W90LED	22495	169	B3-U0-G4	22828	172	B5-U0-G3	23553	177	B4-U0-G4	23728	178	B4-U0-G4
RPL-160W90LED	26426	167	B3-U0-G4	26818	169	B5-U0-G3	27669	175	B4-U0-G4	26869	170	B4-U0-G4
RPL-185W90LED	30019	164	B3-U0-G4	30464	166	B5-U0-G4	31431	172	B4-U0-G4	30522	167	B4-U0-G4
RPL-225W90LED	35259	159	B3-U0-G4	35782	161	B5-U0-G4	36917	166	B4-U0-G4	35850	162	B4-U0-G4
RPL-230W90LED	35977	158	B3-U0-G4	36510	160	B5-U0-G4	37669	165	B4-U0-G4	36580	161	B4-U0-G4
RPL-245W90LED	37826	156	B3-U0-G5	38386	158	B5-U0-G4	39605	163	B4-U0-G4	38459	159	B4-U0-G4
RPL-260W90LED	39495	154	B3-U0-G5	40080	156	B5-U0-G4	41352	161	B4-U0-G4	40157	157	B4-U0-G4
RPL-275W90LED	41170	152	B3-U0-G5	41780	154	B5-U0-G4	43106	159	B4-U0-G4	41860	154	B4-U0-G4
RPL-290W90LED	42700	149	B3-U0-G5	43333	152	B5-U0-G4	44709	156	B5-U0-G5	43416	152	B4-U0-G4
RPL-305W90LED	44229	147	B3-U0-G5	44884	149	B5-U0-G5	46309	154	B5-U0-G5	44970	150	B4-U0-G4
RPL-310W90LED	44823	147	B3-U0-G5	45487	149	B5-U0-G5	46931	154	B5-U0-G5	45573	149	B4-U0-G4

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout – contact Applications at signify.com/outdoorluminaires. Consult DLC QPL to confirm your specific fixture selection is DLC approved.
 Note: Some data may be scaled based on tests of similar but not identical luminaires.

RPL RoadFocus Plus

LED Cobra head (large)

3000K/70CRI LED Standard Performance Lumen Values – multiply values by 0.9 for 80CRI

Ordering Code	Type R2M			Type R2S			Type R3M			Type R3S		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W90LED	21790	164	B3-U0-G3	22513	170	B4-U0-G3	21693	163	B3-U0-G3	21781	164	B3-U0-G3
RPL-160W90LED	25599	162	B3-U0-G3	26448	167	B4-U0-G3	25484	161	B3-U0-G3	25588	162	B3-U0-G3
RPL-185W90LED	29079	159	B4-U0-G4	30043	164	B4-U0-G4	28949	158	B3-U0-G3	29067	159	B3-U0-G4
RPL-225W90LED	34155	154	B4-U0-G4	35288	159	B4-U0-G4	34002	153	B4-U0-G3	34140	154	B4-U0-G4
RPL-230W90LED	34850	153	B4-U0-G4	36006	158	B4-U0-G4	34695	152	B4-U0-G3	34836	153	B4-U0-G4
RPL-245W90LED	36641	151	B4-U0-G4	37856	156	B4-U0-G4	36477	150	B4-U0-G4	36625	151	B4-U0-G4
RPL-260W90LED	38258	149	B4-U0-G4	39527	154	B4-U0-G4	38087	149	B4-U0-G4	38242	149	B4-U0-G4
RPL-275W90LED	39881	147	B4-U0-G4	41203	152	B4-U0-G4	39702	146	B4-U0-G4	39864	147	B4-U0-G4
RPL-290W90LED	41363	145	B4-U0-G4	42735	150	B4-U0-G4	41178	144	B4-U0-G4	41345	145	B4-U0-G4
RPL-305W90LED	42844	142	B4-U0-G4	44265	147	B4-U0-G4	42652	142	B4-U0-G4	42825	142	B4-U0-G4
RPL-310W90LED	43419	142	B4-U0-G4	44859	147	B4-U0-G4	43225	141	B4-U0-G4	43400	142	B4-U0-G4

Ordering Code	Type 4			Type 5			Type R2MB			Type R3MB		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W90LED	21573	162	B3-U0-G4	21892	165	B5-U0-G3	22587	170	B4-U0-G4	22756	171	B4-U0-G4
RPL-160W90LED	25343	160	B3-U0-G4	25718	162	B5-U0-G3	26535	168	B4-U0-G4	25767	163	B4-U0-G4
RPL-185W90LED	28789	157	B3-U0-G4	29215	160	B5-U0-G4	30142	165	B4-U0-G4	29271	160	B4-U0-G4
RPL-225W90LED	33814	152	B3-U0-G4	34315	155	B5-U0-G4	35404	160	B4-U0-G4	34380	155	B4-U0-G4
RPL-230W90LED	34502	152	B3-U0-G4	35013	154	B5-U0-G4	36125	159	B4-U0-G4	35080	154	B4-U0-G4
RPL-245W90LED	36275	150	B3-U0-G4	36812	152	B5-U0-G4	37981	157	B4-U0-G4	36882	152	B4-U0-G4
RPL-260W90LED	37876	148	B3-U0-G5	38437	150	B5-U0-G4	39657	155	B4-U0-G4	38510	150	B4-U0-G4
RPL-275W90LED	39482	145	B3-U0-G5	40067	148	B5-U0-G4	41339	152	B4-U0-G4	40143	148	B4-U0-G4
RPL-290W90LED	40950	143	B3-U0-G5	41556	145	B5-U0-G4	42875	150	B4-U0-G4	41636	146	B4-U0-G4
RPL-305W90LED	42416	141	B3-U0-G5	43044	143	B5-U0-G4	44410	148	B5-U0-G4	43126	143	B4-U0-G4
RPL-310W90LED	42985	141	B3-U0-G5	43622	143	B5-U0-G5	45006	147	B5-U0-G5	43705	143	B4-U0-G4

2700K/70CRI LED Standard Performance Lumen Values – multiply values by 0.9 for 80CRI

Ordering Code	Type R2M			Type R2S			Type R3M			Type R3S		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W90LED	19632	148	B3-U0-G3	21043	158	B3-U0-G3	20276	153	B3-U0-G3	20358	153	B3-U0-G3
RPL-160W90LED	23063	146	B3-U0-G3	23828	150	B3-U0-G3	22960	145	B3-U0-G3	23053	146	B3-U0-G3
RPL-185W90LED	26198	143	B3-U0-G3	27067	148	B4-U0-G4	26081	142	B3-U0-G3	26187	143	B3-U0-G3
RPL-225W90LED	30771	139	B4-U0-G4	31792	143	B4-U0-G4	30634	138	B4-U0-G3	30758	139	B3-U0-G4
RPL-230W90LED	31398	138	B4-U0-G4	32439	142	B4-U0-G4	31258	137	B4-U0-G3	31385	138	B3-U0-G4
RPL-245W90LED	33011	136	B4-U0-G4	34106	141	B4-U0-G4	32864	136	B4-U0-G3	32997	136	B3-U0-G4
RPL-260W90LED	34468	135	B4-U0-G4	35611	139	B4-U0-G4	34314	134	B4-U0-G3	34453	134	B4-U0-G4
RPL-275W90LED	35930	132	B4-U0-G4	37121	137	B4-U0-G4	35770	132	B4-U0-G3	35915	132	B4-U0-G4
RPL-290W90LED	37266	130	B4-U0-G4	38501	135	B4-U0-G4	37099	130	B4-U0-G4	37250	130	B4-U0-G4
RPL-305W90LED	38600	128	B4-U0-G4	39880	133	B4-U0-G4	38427	128	B4-U0-G4	38583	128	B4-U0-G4
RPL-310W90LED	39118	128	B4-U0-G4	40415	132	B4-U0-G4	38943	127	B4-U0-G4	39101	128	B4-U0-G4

Ordering Code	Type 4			Type 5			Type R2MB			Type R3MB		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W90LED	20164	152	B3-U0-G3	20462	154	B5-U0-G3	21112	159	B3-U0-G3	20501	154	B3-U0-G3
RPL-160W90LED	22832	144	B3-U0-G3	23171	146	B5-U0-G3	23906	151	B4-U0-G4	23215	147	B3-U0-G3
RPL-185W90LED	25937	142	B3-U0-G4	26321	144	B5-U0-G3	27156	148	B4-U0-G4	26371	144	B4-U0-G4
RPL-225W90LED	30464	137	B3-U0-G4	30915	139	B5-U0-G4	31897	144	B4-U0-G4	30974	140	B4-U0-G4
RPL-230W90LED	31084	137	B3-U0-G4	31545	139	B5-U0-G4	32546	143	B4-U0-G4	31605	139	B4-U0-G4
RPL-245W90LED	32681	135	B3-U0-G4	33166	137	B5-U0-G4	34218	141	B4-U0-G4	33229	137	B4-U0-G4
RPL-260W90LED	34124	133	B3-U0-G4	34629	135	B5-U0-G4	35728	139	B4-U0-G4	34695	135	B4-U0-G4
RPL-275W90LED	35571	131	B3-U0-G4	36098	133	B5-U0-G4	37244	137	B4-U0-G4	36167	133	B4-U0-G4
RPL-290W90LED	36893	129	B3-U0-G4	37440	131	B5-U0-G4	38628	135	B4-U0-G4	37511	131	B4-U0-G4
RPL-305W90LED	38214	127	B3-U0-G5	38780	129	B5-U0-G4	40011	133	B4-U0-G4	38854	129	B4-U0-G4
RPL-310W90LED	38727	127	B3-U0-G5	39301	129	B5-U0-G4	40548	133	B4-U0-G4	39375	129	B4-U0-G4

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at signify.com/outdoorluminaire. Consult DLC QPL to confirm your specific fixture selection is DLC approved. Note: Some data may be scaled based on tests of similar but not identical luminaires.

RPL RoadFocus Plus

LED Cobra head (large)

4000K/70CRI LED High Performance Lumen Values - multiply values by 0.9 for 80CRI

Ordering Code	Type R2M			Type R2S			Type R3M			Type R3S		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W120LED	24662	184	B4-U0-G4	25480	191	B4-U0-G4	24552	184	B3-U0-G3	24652	184	B3-U0-G3
RPL-160W120LED	27927	176	B4-U0-G4	28854	182	B4-U0-G4	27803	175	B3-U0-G3	27916	176	B3-U0-G3
RPL-185W120LED	31797	174	B4-U0-G4	32852	180	B4-U0-G4	31655	173	B4-U0-G3	31784	174	B3-U0-G4
RPL-225W120LED	37707	170	B4-U0-G4	38958	175	B4-U0-G4	37539	169	B4-U0-G4	37691	170	B4-U0-G4
RPL-230W120LED	38494	169	B4-U0-G4	39770	174	B4-U0-G4	38322	168	B4-U0-G4	38477	169	B4-U0-G4
RPL-245W120LED	40418	167	B4-U0-G4	41759	173	B4-U0-G4	40238	166	B4-U0-G4	40401	167	B4-U0-G4
RPL-260W120LED	42461	165	B4-U0-G4	43869	171	B4-U0-G4	42271	164	B4-U0-G4	42443	165	B4-U0-G4
RPL-275W120LED	44319	163	B4-U0-G4	45789	169	B4-U0-G4	44121	162	B4-U0-G4	44300	163	B4-U0-G4
RPL-290W120LED	46248	161	B4-U0-G4	47781	167	B4-U0-G4	46041	161	B4-U0-G4	46228	161	B4-U0-G5
RPL-305W120LED	47983	159	B4-U0-G4	49575	164	B5-U0-G4	47769	158	B4-U0-G4	47963	159	B4-U0-G5

Ordering Code	Type 4			Type 5			Type R2MB			Type R3MB		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W120LED	24416	183	B3-U0-G4	24778	185	B5-U0-G4	25564	191	B4-U0-G4	24825	186	B4-U0-G4
RPL-160W120LED	27648	174	B3-U0-G4	28058	177	B5-U0-G4	28949	183	B4-U0-G4	28112	177	B4-U0-G4
RPL-185W120LED	31479	172	B3-U0-G4	31946	175	B5-U0-G4	32960	180	B4-U0-G4	32007	175	B4-U0-G4
RPL-225W120LED	37330	168	B3-U0-G5	37884	170	B5-U0-G4	39086	176	B4-U0-G4	37956	171	B4-U0-G4
RPL-230W120LED	38109	167	B3-U0-G5	38674	170	B5-U0-G4	39901	175	B4-U0-G4	38747	170	B4-U0-G4
RPL-245W120LED	40014	165	B3-U0-G5	40607	168	B5-U0-G4	41896	173	B4-U0-G4	40685	168	B4-U0-G4
RPL-260W120LED	42036	163	B3-U0-G5	42659	166	B5-U0-G4	44013	171	B5-U0-G4	42741	166	B4-U0-G4
RPL-275W120LED	43876	162	B3-U0-G5	44526	164	B5-U0-G5	45940	169	B5-U0-G5	44611	164	B4-U0-G4
RPL-290W120LED	45785	160	B3-U0-G5	46464	162	B5-U0-G5	47939	167	B5-U0-G5	46552	163	B4-U0-G4
RPL-305W120LED	47504	158	B4-U0-G5	48208	160	B5-U0-G5	49738	165	B5-U0-G5	48300	160	B5-U0-G5

Ordering Code	R2MHE			R2MHE		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W120LED	25669	192	B4U0G4	25391	190	B4U0G4
RPL-160W120LED	29067	183	B4U0G4	28753	181	B4U0G4
RPL-185W120LED	33095	181	B4U0G4	32737	179	B4U0G4
RPL-225W120LED	39246	177	B4U0G4	38821	175	B4U0G4
RPL-230W120LED	40065	176	B4U0G4	39631	174	B4U0G4
RPL-245W120LED	42068	174	B4U0G4	41613	172	B4U0G4
RPL-260W120LED	44194	172	B4U0G4	43715	170	B4U0G4
RPL-275W120LED	46128	170	B4U0G4	45629	168	B4U0G4
RPL-290W120LED	48135	168	B4U0G4	47614	166	B4U0G4
RPL-305W120LED	49942	166	B5U0G5	49401	164	B5U0G5

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RPL RoadFocus Plus

LED Cobra head (large)

3000K/70CRI LED High Performance Lumen Values - multiply values by 0.9 for 80CRI

Ordering Code	Type R2M			Type R2S			Type R3M			Type R3S		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W120LED	23651	177	B3-U0-G3	24436	183	B4-U0-G4	23546	176	B3-U0-G3	23641	177	B3-U0-G3
RPL-160W120LED	26782	169	B3-U0-G3	27671	175	B4-U0-G4	26663	168	B3-U0-G3	26771	169	B3-U0-G3
RPL-185W120LED	30493	167	B4-U0-G4	31505	172	B4-U0-G4	30357	166	B4-U0-G3	30480	167	B3-U0-G4
RPL-225W120LED	36161	163	B4-U0-G4	37360	168	B4-U0-G4	36000	162	B4-U0-G4	36146	163	B4-U0-G4
RPL-230W120LED	36915	162	B4-U0-G4	38140	167	B4-U0-G4	36751	161	B4-U0-G4	36900	162	B4-U0-G4
RPL-245W120LED	38761	160	B4-U0-G4	40047	166	B4-U0-G4	38588	160	B4-U0-G4	38745	160	B4-U0-G4
RPL-260W120LED	40720	158	B4-U0-G4	42070	164	B4-U0-G4	40538	158	B4-U0-G4	40703	158	B4-U0-G4
RPL-275W120LED	42502	156	B4-U0-G4	43912	162	B4-U0-G4	42312	156	B4-U0-G4	42484	156	B4-U0-G4
RPL-290W120LED	44351	155	B4-U0-G4	45822	160	B4-U0-G4	44153	154	B4-U0-G4	44333	155	B4-U0-G4
RPL-305W120LED	46016	153	B4-U0-G4	47542	158	B4-U0-G4	45811	152	B4-U0-G4	45996	153	B4-U0-G5

Ordering Code	Type 4			Type 5			Type R2MB			Type R3MB		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W120LED	23415	175	B3-U0-G4	23762	178	B5-U0-G3	24516	183	B4-U0-G4	23807	178	B4-U0-G4
RPL-160W120LED	26515	167	B3-U0-G4	26908	170	B5-U0-G3	27762	175	B4-U0-G4	26959	170	B4-U0-G4
RPL-185W120LED	30189	165	B3-U0-G4	30636	167	B5-U0-G4	31608	173	B4-U0-G4	30694	168	B4-U0-G4
RPL-225W120LED	35800	161	B3-U0-G4	36330	163	B5-U0-G4	37483	169	B4-U0-G4	36399	164	B4-U0-G4
RPL-230W120LED	36547	160	B3-U0-G4	37088	163	B5-U0-G4	38265	168	B4-U0-G4	37159	163	B4-U0-G4
RPL-245W120LED	38374	159	B3-U0-G5	38942	161	B5-U0-G4	40178	166	B4-U0-G4	39017	161	B4-U0-G4
RPL-260W120LED	40313	157	B3-U0-G5	40910	159	B5-U0-G4	42209	164	B4-U0-G4	40988	159	B4-U0-G4
RPL-275W120LED	42077	155	B3-U0-G5	42701	157	B5-U0-G4	44056	162	B5-U0-G4	42782	158	B4-U0-G4
RPL-290W120LED	43908	153	B3-U0-G5	44559	156	B5-U0-G5	45973	161	B5-U0-G5	44644	156	B4-U0-G4
RPL-305W120LED	45556	151	B3-U0-G5	46231	153	B5-U0-G5	47699	158	B5-U0-G5	46319	154	B4-U0-G4

2700K/70CRI LED High Performance Lumen Values - multiply values by 0.9 for 80CRI

Ordering Code	Type R2M			Type R2S			Type R3M			Type R3S		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W120LED	21308	159	B3-U0-G3	22015	165	B3-U0-G3	21213	159	B3-U0-G3	21299	159	B3-U0-G3
RPL-160W120LED	24129	152	B3-U0-G3	24930	157	B3-U0-G3	24022	152	B3-U0-G3	24119	152	B3-U0-G3
RPL-185W120LED	27473	150	B4-U0-G4	28384	155	B4-U0-G4	27350	150	B3-U0-G3	27461	150	B3-U0-G3
RPL-225W120LED	32579	147	B4-U0-G4	33659	151	B4-U0-G4	32434	146	B4-U0-G3	32565	146	B3-U0-G4
RPL-230W120LED	33259	146	B4-U0-G4	34362	151	B4-U0-G4	33110	145	B4-U0-G3	33244	146	B4-U0-G4
RPL-245W120LED	34921	144	B4-U0-G4	36080	149	B4-U0-G4	34766	144	B4-U0-G3	34907	144	B4-U0-G4
RPL-260W120LED	36686	143	B4-U0-G4	37903	147	B4-U0-G4	36522	142	B4-U0-G4	36670	143	B4-U0-G4
RPL-275W120LED	38292	141	B4-U0-G4	39562	146	B4-U0-G4	38121	140	B4-U0-G4	38275	141	B4-U0-G4
RPL-290W120LED	39958	140	B4-U0-G4	41283	144	B4-U0-G4	39780	139	B4-U0-G4	39941	139	B4-U0-G4
RPL-305W120LED	41458	138	B4-U0-G4	42832	142	B4-U0-G4	41273	137	B4-U0-G4	41440	137	B4-U0-G4

Ordering Code	Type 4			Type 5			Type R2MB			Type R3MB		
	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
RPL-135W120LED	21095	158	B3-U0-G4	21408	160	B5-U0-G3	22087	165	B4-U0-G4	21449	160	B4-U0-G4
RPL-160W120LED	23888	151	B3-U0-G4	24242	153	B5-U0-G3	25012	158	B4-U0-G4	24288	153	B4-U0-G4
RPL-185W120LED	27198	149	B3-U0-G4	27601	151	B5-U0-G4	28477	156	B4-U0-G4	27654	151	B4-U0-G4
RPL-225W120LED	32253	145	B3-U0-G4	32731	147	B5-U0-G4	33770	152	B4-U0-G4	32794	148	B4-U0-G4
RPL-230W120LED	32926	144	B3-U0-G4	33414	147	B5-U0-G4	34475	151	B4-U0-G4	33478	147	B4-U0-G4
RPL-245W120LED	34573	143	B3-U0-G4	35085	145	B5-U0-G4	36198	150	B4-U0-G4	35152	145	B4-U0-G4
RPL-260W120LED	36319	141	B3-U0-G4	36858	143	B5-U0-G4	38027	148	B4-U0-G4	36928	144	B4-U0-G4
RPL-275W120LED	37909	140	B3-U0-G5	38471	142	B5-U0-G4	39692	146	B4-U0-G4	38544	142	B4-U0-G4
RPL-290W120LED	39559	138	B3-U0-G5	40145	140	B5-U0-G4	41419	145	B4-U0-G4	40221	140	B4-U0-G4
RPL-305W120LED	41043	136	B3-U0-G5	41651	138	B5-U0-G4	42973	143	B4-U0-G4	41731	138	B4-U0-G4

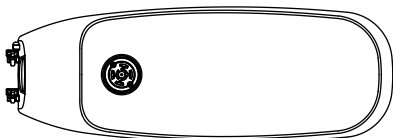
Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications at signify.com/outdoorluminaire. Consult DLC QPL to confirm your specific fixture selection is DLC approved. Note: Some data may be scaled based on tests of similar but not identical luminaires.

RPL RoadFocus Plus

LED Cobra head (large)

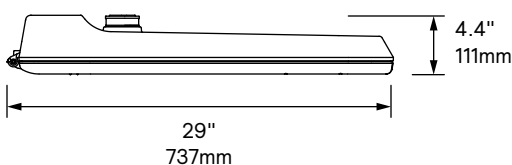
Dimensions

Top View

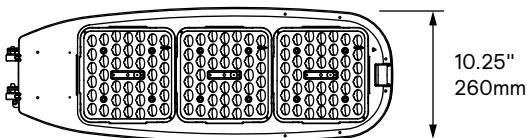


Weight: 17 lbs
EPA: 0.32 sq. feet

Side View



Bottom View



Specifications

Housing

Made of a low copper die cast Aluminum alloy (A360), 0.100" (2.5mm) minimum thickness. Fits on a 1.66" (42mm) O.D. (1.25" NPS), 1.9" (48mm) O.D. (1.5" NPS) or 2 3/8" (60mm) O.D. (2" NPS) by 7" (178mm) minimum long tenon. Comes with 2 zinc plated clamps fixed by 4 zinc plated hexagonal bolts 3/8 16 UNC for ease of installation. Provides an easy step adjustment of +/- 5° tilt in 2.5° increments. Includes integral bubble level standard (always included). A quick release, tool less entry, single latch, hinged, removable door opens downward to provide access to electronic components and to a terminal block. Door is secured to prevent accidental dropping or disengagement. A clearance of 25 1/2" (648mm) at the rear is required in order to remove the door. Complete with a bird guard protecting against birds and similar intruders and an ANSI label as per C136.15-2020 to identify wattage and source (both included in box). Housing (including electrical compartment) rated IP54 per ANSI C136.37.

Light Engine

Composed of 4 main components: LED Module / Optical System / Heat Sink / Driver.

Electrical components are RoHS compliant, IP66 sealed light engine equipped LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

LED Module: Composed of high-performance white LEDs. Color temperature as per ANSI/ NEMA bin 2700 Kelvin nominal (2725 ±145K), 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory.

Optical System: Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. 0% uplight and U0 per IESNA TM-15.

Heat Sink: Built in the housing and door, designed to ensure high efficacy and superior cooling by natural vertical convection air flow pattern always close to LEDs and driver optimizing their efficiency and life.

Product does not use any cooling device with moving parts (only passive cooling). Wide openings enable natural cleaning and removal of dirt and debris. Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +50°C / +122°F unless otherwise specified, refer to LED Wattages Values Table.

Driver: High power factor of 90% min. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 VAC rated for both application line to line or line to neutral, Class I or 2, THD of 20% max.

DMG: Dimming compatible 0-10 volts. The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built-in driver surge protection of 2.5kV (min).

Integrated Features

DMG: Dimmable driver 0-10V.

TLRD7: Tool less orientable receptacle with 7 pins enabling dimming and additional functionality (to be determined), can be used with a twist lock Interact City node or photoelectric cell or a shorting cap. Use of photoelectric cell or shorting cap is required to ensure proper illumination.

Note: Additional hardware will be required to utilize the additional 2 pins on this receptacle.

SP1: Fail-On Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA.

Note: These integrated features always come with RoadFocus luminaire.

Note: It is not recommended to use FAWS with other dimming or controls; if you do, set the switch to position 10 (maximum output) to enable the other dimming or controls. Switching FAWS to any position other than 10 will disable other dimming or controls.

Driver and Luminaire Options

HVX: Extended voltage range (277-480VAC). Provides additional protection for abnormal power conditions like neutral drop on 277V installations or others.

D4I*: Zhaga-D4i certified fixture

DALI*: Pre-set driver compatible with the DALI control system.

SRD*: Sensor Ready Driver including SR communication (used for dimming and other functionalities), 24V auxiliary supply and a logical signal input (LSI) connected to the top NEMA twist lock receptacle and bottom TLRSR receptacle, if this option included/chosen. This configuration is compatible with Interact City controllers.

SRD1*: Sensor Ready Driver including SR communication (used for dimming and other functionalities) but with 24V auxiliary supply and a logical signal input (LSI) not connected to the top NEMA twist lock. If TLRSR receptacle option included, standard SR communication, 24V auxiliary supply and LSI are connected to the TLRSR receptacle.

JP: Job pack bulk packaging

OMS: Outdoor Multi Sensor

NRC: No Receptacle. Fixture is shipped with a cap instead of a receptacle.

SP2: Fail-On 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

SP2X: Fail-Off 20kV / 10kA surge protection device that provides extra protection beyond the SP1X 10kV/5kA level.

SP1X: Fail-Off Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/ IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/5kA.

FAWS: Field Adjustable Wattage Selector, pre-set to the highest position, can be easily switched in the field to the required position. This reduces total luminaire wattage consumption and reduces the light level- see the FAWS multiplier chart for more details.

TLRSR: SR Sensor connector, installed in fixture door. Shipped with protective cover.

RPL RoadFocus Plus

LED Cobra head (large)

Specifications (continued)

Driver and Luminaire Options (continued)

PH8: Twist-lock photoelectric cell, UNV (120-277VAC).

PHXL: Twist-lock photoelectric cell, extended life, UNV (120-277VAC).

PH9: Shorting cap (use of photoelectric cell or shorting cap is required to ensure proper illumination).

API: Factory Installed NEMA label, ANSI C136.15-2020 compliant. Consult factory for other labeling needs.

Connected Lighting

Interact City connector node provides the plug and play wireless communications technology to connect your street light to the Interact City lighting management system. With Interact you can remotely manage, monitor and control all city lighting, from roads and streets, to parks and plazas, and bridges from one single system. Connected lighting enables capabilities including, accurate on/off switching, dimming control, fault reporting and integration with other systems to enable condition-based lighting. Interact provides you with a robust and scalable infrastructure to further reduce energy consumption, improve operations, and turn lighting into a connected network for your smart city journey.

For more details visit: interact-lighting.com/en-us/what-is-possible/interact-city

Factory Installed Shield Options (one per Light Engine)

CSS: Cul-de-Sac Shield. Shields light output on the left and right side of fixture.

FSS: Front Side Shield. Shields light output on the front side of fixture.

HSS: House Side Shield. Shields light output to the back side of fixture.

LSS: Left Side Shield. Shields light output on the left side of fixture.

RSS: Right Side Shield. Shields light output on the right side of fixture.

Luminaire Useful Life

Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, System Reliability Tool, Advance data and LED manufacturer LM-80/TM-21 data, expected to reach 100,000 + hours with >L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

Wiring

The connection of the luminaire is done using a terminal block connector 600V, 85A for use with #2 14 AWG. wires from the primary circuit, located inside the housing. Due to the inrush current that occurs with electronic drivers, recommend using a 10Amp time-delay fuse to avoid unwanted fuse blowing (false tripping) that can occur with normal or fast acting fuses.

Hardware

All exposed screws shall be complete with Ceramic primer seal to reduce seizing of the parts, also offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

Finish

Color in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with ± 1 mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 5000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

LED products manufacturing standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

Vibration Resistance

The RPL meets the ANSI C136.31-2018, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications. (Tested for 3G over 100,000 cycles by independent lab)

Certifications and Compliance

cULus Listed for Canada and USA. Luminaire meets DOE and MSSLC Model Specification for LED Roadway Luminaires. Most versions of RoadFocus LED Cobrahead luminaires are DesignLights Consortium qualified, consult DLC QPL to confirm your specific fixture selection is approved. CCTs 3000K and warmer are IDA Dark Sky Approved. Luminaire complies with or exceeds the following ANSI C136 standards: .2, .3, .10, .14, .15, .22, .25, .31, .37, .41.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product.

For more details visit: signify.com/servicetag

Limited Warranty

10-year limited warranty. See signify.com/warranties for details and restrictions.

Brackets/Arms

For brackets / arms available with this luminaire, see Lumec 3D for details.

