LUMEC

Roadway

RoadFocus

RFL Cobra head (large)



Project:

Location:

Cat.No:

Type:

Lumens: Qty:

Notes:

Lumec RoadFocus LED cobra head luminaires feature a sleek design that provides seamless replacement of existing HID luminaires. RoadFocus is available in three sizes, offers multiple lumen packages, and a complete array of optical distributions, making it an outstanding solution for all types of roadway applications. Includes Service Tag, innovative way to provide assistance throughout the life of the product.

Ordering guide

example: RFL-215W96LED4K-G2-R3M-UNV-DMG-RCD7-GY3

Series	LED module	CCT	Generation	Distribution	Voltage	Options: Controls [4]	Options: Options	Finish
RFL RoadFocus large	**145W64LED** **135W80LED** **180W80LED** **270W80LED** **215W96LED** **85W100LED**[14] **105W100LED**[14] **165W100LED**[14] **225W100LED**[14] **305W100LED**[14] **190W112LED** **241W112LED** **350W112LED** **130W120LED**[14] **200W120LED**[14] **270W120LED**[14] **155W140LED**[14] **230W140LED**[14] **310W140LED**[14]	**4K** 4000K **3K** 3000K **2.7K**[11] 2700K **2.2K**[11] 2200K	**G2** Generation 2	**Type 2** **R2S** Type II short (ASYM) **R2M** Type II Medium (ASYM) **Type 3** **R3S** Type III short (ASYM) **R3M** Type III Medium (ASYM) **Type 4** **4** Type IV (ASYM) **Type 5** **5** Type V (SYMM)	**UNV** 120-277V **HVU** 347-480V	**ZD4i**[16] Zhaga-D4i certified luminaire **D4id**[1] D4i driver (DALI) **DMG**[5] 0-10V driver **Legacy**[18] **D4I**[15] Zhaga-D4i certified **DALI**[1] Digitally addressable lighting interface **SRD**[1] Sensor ready driver, standard configuration	**API** Factory installed NEMA label, ANSI C136.15-2015 compliant **FAWS**[7] Field adjustable wattage selector **CSS**[2,15] Cul-de-Sac Shield **FSS**[2,15] Front Side Shield **HS**[2,15] House Side Shield **LSS**[2,15] Left Side Shield **RSS**[2,15] Right Side Shield **NRC**[8] No receptacle **NYBC** 4 - position terminal block **OMS**[17] Outdoor Multisensor **PH8**[1,10] Twist-lock photoelectric cell, UNV (120-277VAC) **PH8/347**[10,13] Twist-lock photoelectric cell (347VAC) **PH8/480**[10,13] Twist-lock photoelectric cell (480VAC) **PHXL**[1,10] Twist-lock photoelectric cell, extended life, UNV (120-277VAC) **PH9**[10] Shorting cap **RCD**[3,9] Receptacle for twist-lock photocell or shorting cap, 5-pin (optional) **RCD7**[3,5] Receptacle for twist-lock photocell or shorting cap, 7-pin (standard) **SP2** 20kV / 10kA Surge protector **TLRSR**[6] SR receptacle **BAC**[19,20] Meets the requirements of the Buy American Act of 1933 (BAA) **BABAF**[19] Meets the requirements of the Build America Buy America Act for projects funded through FHWA that are obligated before October 1, 2026, and meets the Buy America preferences for FTA **BABA**[21] Meets the requirements of the Build America, Buy America Act (BABA)	**BK** Black **BR** Bronze **GY3** Gray **WH** White

1 Not available with **HVU**.
2 Refer to Accessories section to confirm compatibility of shields with optical distribution.
3 Use of photoelectric cell or shorting cap is required to ensure proper illumination.
4 Select one mandatory option.
5 Please note this integrated feature come standard with RoadFocus.
6 Only available with ZD4i or **SRD** Driver Options.
7 Only available with **DMG** Driver Options
8 Not available with **PH8**, **PH8/347**, **PH8/480**, **PHXL**, **PH9**, **ZD4i**, **D4id**, **DALI**, or **SRD** Driver Options.
9 Not available with **ZD4i** or **SRD** Driver Options.
10 Either **RCD** or **RCD7** must be selected for this option.
11 Extended lead-time may apply. Consult factory.
12 **FAWS** table accuracy +/- 15% on these models.
13 Not available with **UNV**.
14 Only available with **R2M** or **R3M** distributions.
15 1 shield provided per LED light engine.
16 **TLRSR** must be selected with **ZD4i** or **SRD.**
17 **TLRSR** and **ZD4i** must be selected with **OMS**
18 Legacy codes for backward compatibility on existing QPL. Please use new coding where possible.
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 here-under 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 adminis-tered by the Department of Transportation or other federal agencies. Genlyte's products with a BAC option code designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. "BABAF" designates the product will meet the standards set by FHWA for BABA and FTA for Buy America. As noted, for FHWA BABA compliance, ap-plicable projects must be funded by October 1, 2026
20 Consult Signify to confirm whether specific accesso-ries are BAA-compliant
21 Build America, Buy America Act (BABA). BABA establishes the minimum domestic content re-quirements that federal agencies must apply. This product is manufactured in the US and has a domes-tic content of 55% or more. This BABA designation does not address the "Buy America" domestic con-tent requirements, which may be stricter, imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by federal agencies.

RFL RoadFocus

LED Cobra head (large)

Shielding accessories* (must be ordered as separate line item – quickly and easily installed in the field)

Interact City connector node (Contact the factory for additional support when connected lighting or additional services are desired.)

Description	Luminaire Option Code	Accessory Ordering Code		Shield vs Distribution Compatibility					
		12/16 LED version**	20 LED version**	R2M	R2S	R3M	R3S	4	5
Cul-de-sac shield	CSS	ACC-LG66V16LED-CSS	ACC-LG66V20LED-CSS	Yes	Yes	Yes	Yes	Yes	Yes
Front side shield	FSS	ACC-LG66V16LED-FSS	ACC-LG66V20LED-FSS	Yes	Yes	Yes	Yes	No	Yes
House side shield	HS	ACC-LG66V16LED-HS	ACC-LG66V20LED-HS	Yes	Yes	Yes	Yes	Yes	No
Left side shield	LSS	ACC-LG66V16LED-LSS	ACC-LG66V20LED-LSS	Yes	Yes	Yes	Yes	Yes	Yes
Right side shield	RSS	ACC-LG66V16LED-RSS	ACC-LG66V20LED-RSS	Yes	Yes	Yes	Yes	Yes	Yes

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

**Refer to Wattage table to confirm light engine configuration. Example, if configuration is 2x16LED, 2 of the desired shields must be ordered per luminaire.

Predicted Lumen Depreciation Data

Predicted performance 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 TM21-11 Addendum B. Published L70 hours limited to 6 times actual LED test hours.

Ambient Temperature °C	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	>60,000 hours	>97.6%

LED Wattage values

Ordering Code	Total LEDs	Light Engine Configuration	Average System Watts[1]	Wattage label[2]
RFL-145W64LED	64	4x16LED	137	140
RFL-135W80LED	80	5x16LED	136	140
RFL-180W80LED	80	5x16LED	174	170
RFL-270W80LED	80	5x16LED	268	270
RFL-215W96LED	96	6x16LED	207	210
RFL-85W100LED	100	5x20LED	88	90
RFL-105W100LED	100	5x20LED	106	110
RFL-165W100LED	100	5x20LED	165	170
RFL-225W100LED	100	5x20LED	224	220
RFL-305W100LED	100	5x20LED	306	310
RFL-190W112LED	112	7x16LED	188	190
RFL-241W112LED	112	7x16LED	243	240
RFL-350W112LED[3]	112	7x16LED	340	340
RFL-130W120LED	120	6x20LED	133	130
RFL-200W120LED	120	6x20LED	196	200
RFL-270W120LED	120	6x20LED	269	270
RFL-155W140LED	140	7x20LED	154	150
RFL-230W140LED	140	7x20LED	229	230
RFL-310W140LED	140	7x20LED	311	310

1. Typical values, rounded.
2. As per ANSI C136.15-2015. Consult factory for other labelling needs.
3. Rated for +40°C / +104°F.

RFL RoadFocus

LED Cobra head (large)

4000K LED Lumen values

Ordering Code	Color Temp.	Type R2M			Type R2S			Type R3M			Type R3S			Type 4			Type 5		
		Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
145W64LED	4000	22,300	163	B3-U0-G3	23,214	169	B3-U0-G2	22,229	162	B3-U0-G3	22,529	164	B3-U0-G3	22,126	162	B3-U0-G4	23,015	168	B5-U0-G3
135W80LED	4000	21,901	161	B3-U0-G3	22,799	168	B3-U0-G2	21,831	161	B3-U0-G3	22,126	163	B3-U0-G3	21,730	160	B3-U0-G4	22,603	166	B5-U0-G3
180W80LED	4000	27,875	160	B4-U0-G3	29,017	167	B4-U0-G3	27,786	160	B3-U0-G3	28,160	162	B3-U0-G4	27,657	159	B3-U0-G4	28,768	165	B5-U0-G3
270W80LED	4000	37,829	141	B4-U0-G4	39,380	147	B4-U0-G4	37,709	141	B4-U0-G4	38,217	143	B3-U0-G5	37,535	140	B3-U0-G5	39,042	146	B5-U0-G4
215W96LED	4000	33,449	162	B4-U0-G4	34,820	168	B4-U0-G3	33,343	161	B4-U0-G4	33,792	163	B3-U0-G4	33,189	160	B3-U0-G5	34,521	167	B5-U0-G4
85W100LED	4000	15,715	179	B3-U0-G3	N/A	N/A	N/A	15,665	179	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
105W100LED	4000	18,815	178	B3-U0-G3	N/A	N/A	N/A	18,756	177	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
165W100LED	4000	26,256	159	B3-U0-G3	N/A	N/A	N/A	26,173	159	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
225W100LED	4000	33,283	149	B4-U0-G4	N/A	N/A	N/A	33,177	148	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
305W100LED	4000	43,617	143	B4-U0-G4	N/A	N/A	N/A	43,479	142	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
190W112LED	4000	30,662	163	B4-U0-G3	31,919	170	B4-U0-G3	30,565	163	B4-U0-G4	30,976	165	B3-U0-G4	30,423	162	B3-U0-G4	31,644	168	B5-U0-G4
241W112LED	4000	38,352	158	B4-U0-G4	39,924	164	B4-U0-G4	38,230	157	B4-U0-G4	38,745	159	B3-U0-G5	38,053	157	B3-U0-G5	39,581	163	B5-U0-G4
350W112LED	4000	49,478	146	B4-U0-G4	51,505	152	B4-U0-G4	49,320	145	B4-U0-G5	49,985	147	B4-U0-G5	49,092	144	B4-U0-G5	51,063	150	B5-U0-G5
130W120LED	4000	22,578	170	B3-U0-G3	N/A	N/A	N/A	22,507	169	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200W120LED	4000	31,507	161	B4-U0-G3	N/A	N/A	N/A	31,407	160	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
270W120LED	4000	39,940	149	B4-U0-G4	N/A	N/A	N/A	39,813	148	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
155W140LED	4000	26,341	171	B3-U0-G3	N/A	N/A	N/A	26,258	171	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
230W140LED	4000	36,758	161	B4-U0-G4	N/A	N/A	N/A	36,642	160	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
310W140LED	4000	46,596	150	B4-U0-G4	N/A	N/A	N/A	46,449	149	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

3000K LED Lumen values

Ordering Code	Color Temp.	Type R2M			Type R2S			Type R3M			Type R3S			Type 4			Type 5		
		Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
145W64LED	3000	20,880	152	B3-U0-G3	21,736	159	B3-U0-G2	20,814	152	B3-U0-G3	21,094	154	B3-U0-G3	20,717	151	B3-U0-G4	21,549	157	B5-U0-G3
135W80LED	3000	20,506	151	B3-U0-G3	21,347	157	B3-U0-G2	20,441	150	B3-U0-G3	20,716	152	B3-U0-G3	20,346	150	B3-U0-G4	21,163	156	B5-U0-G3
180W80LED	3000	26,099	150	B3-U0-G3	27,169	156	B3-U0-G3	26,016	150	B3-U0-G3	26,367	152	B3-U0-G4	25,896	149	B3-U0-G4	26,936	155	B5-U0-G3
270W80LED	3000	35,420	132	B4-U0-G4	36,872	138	B4-U0-G3	35,308	132	B4-U0-G4	35,783	134	B3-U0-G4	35,144	131	B3-U0-G5	36,555	136	B5-U0-G4
215W96LED	3000	31,319	151	B4-U0-G3	32,602	158	B4-U0-G3	31,219	151	B4-U0-G4	31,640	153	B3-U0-G4	31,075	150	B3-U0-G5	32,322	156	B5-U0-G4
85W100LED	3000	14,714	168	B3-U0-G2	N/A	N/A	N/A	14,667	167	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
105W100LED	3000	17,617	166	B3-U0-G3	N/A	N/A	N/A	17,561	166	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
165W100LED	3000	24,584	149	B3-U0-G3	N/A	N/A	N/A	24,506	149	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
225W100LED	3000	31,163	139	B4-U0-G3	N/A	N/A	N/A	31,064	139	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
305W100LED	3000	40,839	134	B4-U0-G4	N/A	N/A	N/A	40,710	133	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
190W112LED	3000	28,709	153	B4-U0-G3	29,886	159	B4-U0-G3	28,618	152	B4-U0-G3	29,003	154	B3-U0-G4	28,485	152	B3-U0-G4	29,629	158	B5-U0-G3
241W112LED	3000	35,909	148	B4-U0-G4	37,381	154	B4-U0-G3	35,795	147	B4-U0-G4	36,278	149	B3-U0-G4	35,630	147	B3-U0-G5	37,060	153	B5-U0-G4
350W112LED	3000	46,326	136	B4-U0-G4	48,225	142	B4-U0-G4	46,179	136	B4-U0-G4	46,801	138	B4-U0-G5	45,965	135	B4-U0-G5	47,811	141	B5-U0-G5
130W120LED	3000	21,140	159	B3-U0-G3	N/A	N/A	N/A	21,073	158	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200W120LED	3000	29,500	151	B4-U0-G3	N/A	N/A	N/A	29,407	150	B4-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
270W120LED	3000	37,396	139	B4-U0-G4	N/A	N/A	N/A	37,277	139	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
155W140LED	3000	24,664	160	B3-U0-G3	N/A	N/A	N/A	24,585	160	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
230W140LED	3000	34,417	150	B4-U0-G4	N/A	N/A	N/A	34,308	150	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
310W140LED	3000	43,629	140	B4-U0-G4	N/A	N/A	N/A	43,490	140	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc. It is highly recommended to confirm performance with a lighting layout. Please contact your local sales representative for assistance. 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 luminaries.

RFL RoadFocus

LED Cobra head (large)

2700K LED Lumen values

Ordering Code	Color Temp.	Type R2M			Type R2S			Type R3M			Type R3S			Type 4			Type 5		
		Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
145W64LED	2700	17,992	131	B3-U0-G3	18,729	137	B3-U0-G2	17,934	131	B3-U0-G3	18,176	133	B3-U0-G3	17,851	130	B3-U0-G3	18,568	136	B4-U0-G2
135W80LED	2700	17,670	130	B3-U0-G3	18,394	135	B3-U0-G2	17,613	130	B3-U0-G3	17,851	131	B3-U0-G3	17,532	129	B3-U0-G3	18,236	134	B4-U0-G2
180W80LED	2700	22,489	129	B3-U0-G3	23,411	135	B3-U0-G2	22,418	129	B3-U0-G3	22,720	131	B3-U0-G3	22,314	128	B3-U0-G4	23,210	133	B5-U0-G3
270W80LED	2700	30,521	114	B4-U0-G3	31,771	119	B4-U0-G3	30,424	114	B4-U0-G4	30,834	115	B3-U0-G4	30,283	113	B3-U0-G4	31,499	118	B5-U0-G4
215W96LED	2700	26,986	130	B3-U0-G3	28,093	136	B4-U0-G3	26,901	130	B3-U0-G3	27,263	132	B3-U0-G4	26,776	129	B3-U0-G4	27,851	135	B5-U0-G3
85W100LED	2700	12,679	145	B3-U0-G2	N/A	N/A	N/A	12,638	144	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
105W100LED	2700	15,180	143	B3-U0-G3	N/A	N/A	N/A	15,132	143	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
165W100LED	2700	21,183	128	B3-U0-G3	N/A	N/A	N/A	21,116	128	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
225W100LED	2700	26,853	120	B3-U0-G3	N/A	N/A	N/A	26,767	120	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
305W100LED	2700	35,190	115	B4-U0-G4	N/A	N/A	N/A	35,079	115	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
190W112LED	2700	24,738	132	B3-U0-G3	25,752	137	B3-U0-G3	24,659	131	B3-U0-G3	24,991	133	B3-U0-G4	24,545	131	B3-U0-G4	25,530	136	B5-U0-G3
241W112LED	2700	30,942	127	B4-U0-G3	32,210	133	B4-U0-G3	30,844	127	B4-U0-G4	31,259	129	B3-U0-G4	30,701	126	B3-U0-G4	31,934	131	B5-U0-G4
350W112LED	2700	39,918	117	B4-U0-G4	41,554	122	B4-U0-G4	39,791	117	B4-U0-G4	40,327	119	B3-U0-G5	39,607	117	B3-U0-G5	41,197	121	B5-U0-G4
130W120LED	2700	18,216	137	B3-U0-G3	N/A	N/A	N/A	18,158	137	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200W120LED	2700	25,420	130	B3-U0-G3	N/A	N/A	N/A	25,339	129	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
270W120LED	2700	32,223	120	B4-U0-G3	N/A	N/A	N/A	32,121	119	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
155W140LED	2700	21,252	138	B3-U0-G3	N/A	N/A	N/A	21,185	138	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
230W140LED	2700	29,656	130	B4-U0-G3	N/A	N/A	N/A	29,562	129	B4-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
310W140LED	2700	37,594	121	B4-U0-G4	N/A	N/A	N/A	37,474	121	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2200K LED Lumen values

Ordering Code	Color Temp.	Type R2M			Type R2S			Type R3M			Type R3S			Type 4			Type 5		
		Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating	Lumen Output	Efficacy (LPW)	BUG Rating
145W64LED	2200	17,149	125	B3-U0-G3	17,852	130	B3-U0-G2	17,094	125	B3-U0-G2	17,325	127	B2-U0-G3	17,015	124	B3-U0-G3	17,698	129	B4-U0-G2
135W80LED	2200	16,842	124	B3-U0-G3	17,532	129	B3-U0-G2	16,788	123	B3-U0-G2	17,014	125	B2-U0-G3	16,711	123	B3-U0-G3	17,381	128	B4-U0-G2
180W80LED	2200	21,435	123	B3-U0-G3	22,314	128	B3-U0-G2	21,367	123	B3-U0-G3	21,655	125	B3-U0-G3	21,268	122	B3-U0-G4	22,122	127	B5-U0-G3
270W80LED	2200	29,091	109	B4-U0-G3	30,283	113	B4-U0-G3	28,998	108	B4-U0-G3	29,389	110	B3-U0-G4	28,864	108	B3-U0-G4	30,023	112	B5-U0-G4
215W96LED	2200	25,722	124	B3-U0-G3	26,776	129	B3-U0-G3	25,641	124	B3-U0-G3	25,986	126	B3-U0-G4	25,522	123	B3-U0-G4	26,546	128	B5-U0-G3
85W100LED	2200	12,085	138	B3-U0-G2	N/A	N/A	N/A	12,046	138	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
105W100LED	2200	14,469	137	B3-U0-G2	N/A	N/A	N/A	14,423	136	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
165W100LED	2200	20,191	122	B3-U0-G3	N/A	N/A	N/A	20,127	122	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
225W100LED	2200	25,595	114	B3-U0-G3	N/A	N/A	N/A	25,513	114	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
305W100LED	2200	33,542	110	B4-U0-G4	N/A	N/A	N/A	33,435	109	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
190W112LED	2200	23,579	125	B3-U0-G3	24,545	131	B3-U0-G2	23,504	125	B3-U0-G3	23,821	127	B3-U0-G4	23,395	124	B3-U0-G4	24,334	129	B5-U0-G3
241W112LED	2200	29,493	121	B4-U0-G3	30,701	126	B4-U0-G3	29,399	121	B4-U0-G3	29,795	123	B3-U0-G4	29,263	120	B3-U0-G4	30,438	125	B5-U0-G4
350W112LED	2200	38,048	112	B4-U0-G4	39,607	117	B4-U0-G4	37,927	112	B4-U0-G4	38,438	113	B3-U0-G5	37,752	111	B3-U0-G5	39,267	116	B5-U0-G4
130W120LED	2200	17,363	131	B3-U0-G3	N/A	N/A	N/A	17,307	130	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
200W120LED	2200	24,229	124	B3-U0-G3	N/A	N/A	N/A	24,152	123	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
270W120LED	2200	30,714	114	B4-U0-G3	N/A	N/A	N/A	30,616	114	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
155W140LED	2200	20,256	132	B3-U0-G3	N/A	N/A	N/A	20,192	131	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
230W140LED	2200	28,267	123	B4-U0-G3	N/A	N/A	N/A	28,177	123	B4-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
310W140LED	2200	35,832	115	B4-U0-G4	N/A	N/A	N/A	35,719	115	B4-U0-G4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc. It is highly recommended to confirm performance with a lighting layout. Please contact your local sales representative for assistance. Consult DLC QPL to confirm your specific fixture selection is DLC approved.

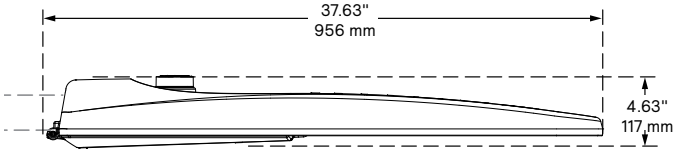
Note: Some data may be scaled based on tests of similar but not identical luminaries.

RFL RoadFocus

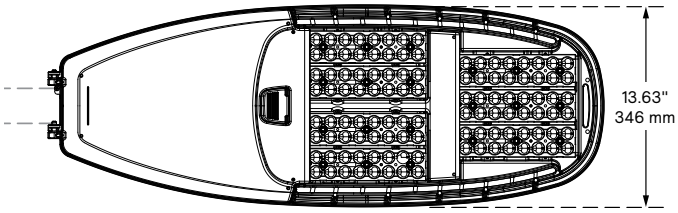
LED Cobra head (large)

Dimensions

Side View



Bottom View



Weight: 27.3 Lbs
EPA: 0.92 sq. ft.

Field Adjustable Wattage (FAWS) Multiplier Chart

FAWS Position	Typical Delivered Lumens Multiplier	Typical System wattage
1	0.31	0.28
2	0.53	0.5
3	0.62	0.58
4	0.7	0.67
5	0.78	0.75
6	0.83	0.81
7	0.89	0.87
8	0.92	0.91
9	0.96	0.95
10	1.00	1.00

Note: Typical value accuracy +/- 5%

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 5 1/2" (140mm) 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 13" (330mm) 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 C136.15-2015 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 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, designed to ensure high efficacy and superior cooling by natural vertical convection air flow pattern always close to LEDs and driver optimising 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 or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. 1 driver (64 LED); 2 drivers (all others).

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

RCD7*: 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.

SP1: 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.

Please note that these integrated features always come with RoadFocus luminaire.

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

Driver and Luminaire Options

ZD4i: Zhaga-D4i certified fixture. Provides easy integration with zD4i smart sensors and communication nodes, enabling plug-and-play IoT upgrades (replaces legacy D4I code).

D4id: DALI D4i certified driver. Provides extended DALI-2 functionality with power and data, especially for intra-luminaire DALI systems (Driver-Nodes-Sensors). Backward compatible with older DALI standards (replaces legacy DALI code).

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.

OMS: ZD4i certified Outdoor Multi Sensor. Contains multiple sensors to support different smart city applications. Offers standalone and connected functions, see sensor spec sheet for details. Shipped in luminaire box.

RFL RoadFocus

LED Cobra head (large)

Specifications (continued)

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.

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 the other dimming or controls.

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

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

NYBC: 4 - position terminal block.

RCD*: Receptacle with 5 pins enabling dimming, can be used with a twist lock Interact City or photoelectric cell or a shorting cap.

TLRSR: 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Mounted on underside of the luminaire, shipped with protective cover.

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

PH8/347: Twist-lock photoelectric cell, HVU (347VAC).

PH8/480: Twist-lock photoelectric cell, HVU (480VAC).

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

PH9: Shorting cap.

API: Factory Installed NEMA label, ANSI C136.15-2015 compliant. Consult factory for other labeling needs.

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

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.

HS: 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 RFL 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 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 right away.

For more details visit:
genlyte.com/en-us/solutions/technologies-and-innovation/service-tag

Limited Warranty

10-year limited warranty.See:
genlyte.com/en-us/support/warranties for details and restrictions.

Brackets/Arms

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

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GENLYTE SOLUTIONS
a signify business

Signify North America Corp.
400 Crossing Blvd, Suite 600
Bridgewater, NJ 08807
Telephone: 800-555-0050

Signify Canada Ltd.
281 Hillmount Road,
Markham, ON, Canada L6C 2S3
Telephone: 800-668-9008

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