LUMEC

Roadway

RoadFocus

RFS Cobra head (small)



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.

Project:

Location:

Cat.No:

Type:

Lumens: Qty:

Notes:

Ordering guide

example: RFS-35W16LED4K-G2-R2M-UNV-DMG-HS-PH8-RCD7-GY3

Series	LED module	CCT	Generation	Distribution	Voltage	Options: Controls [4]	Options	Finish
RFS RoadFocus small	**15W12LED**	**4K** 4000K	**G2** Generation 2	**Type 2**	**UNV** 120-277V	**ZD4i**[15] Zhaga-D4i certified luminaire	**API** Factory installed NEMA label, ANSI C136.15-2015 compliant	**BK** Black
	20W12LED	**3K** 3000K		**R2S** Type II short (ASYM)	**HVU** 347-480V	**D4id**[1] D4i driver (DALI)	**FAWS**[7] Field adjustable wattage selector	**BR** Bronze
	25W12LED	**2.7K**[11] 2700K		**R2M** Type II Medium (ASYM)		**DMG**[5] 0-10V driver	**CSS** [2,14] Cul-de-Sac Shield	**GY3** Gray
	25W16LED	**2.2K**[11] 2200K		**Type 3**		**Legacy**[17]	**FSS** [2,14] Front Side Shield	**WH** White
	30W16LED			**R3S** Type III short (ASYM)		**D4I**[15] Zhaga-D4i certified	**HS** [2,14] House Side Shield	
	35W16LED			**R3M** Type III Medium (ASYM)		**DALI**[1] Digitally addressable lighting interface	**LSS** [2,14] Left Side Shield	
	45W16LED			**Type 4**		**SRD**[1] Sensor ready driver, standard configuration	**RSS** [2,14] Right Side Shield	
	50W16LED			**4** Type IV (ASYM)			**NRC**[8] No receptacle	
	54W16LED			**Type 5**			**NYBC** 4-position terminal block	
	60W16LED[7]			**5** Type V (SYMM)			**OMS** [16] Outdoor Multisensor	
	20W20LED[13]						**PH8** [1,10] Twist-lock photoelectric cell, UNV (120-277VAC)	
	40W20LED[13]						**PH8/347** [10,12] Twist-lock photoelectric cell (347VAC)	
	65W20LED[13]						**PH8/480** [10,12] Twist-lock photoelectric cell (480VAC)	
	35W32LED						**PHXL** [1,10] Twist-lock photoelectric cell, extended life, UNV (120-277VAC)	
	55W32LED						**PH9** [10] Shorting cap	
	60W32LED						**RCD** [3,9] Tool less receptacle for twist-lock photocell or shorting cap, 5-pin (optional)	
	72W32LED						**RCD7** [3,5] Tool less receptacle for twist-lock photocell or shorting cap, 7-pin (standard)	
	108W32LED[7]						**SP2** 20kV / 10kA Surge protector	
	35W40LED[13]						**TLRSR** [6] SR receptacle	
	50W40LED[13]						**BAC**[18] Meets the requirements of the Buy American Act of 1933 (BAA)	
	55W40LED[13]						**BABAF**[18] 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	
	65W40LED[13]						**BABA**[19] Meets the requirement of the Build America, Buy America Act (BABA).	
	80W40LED[13]							
	100W40LED[7,13]							

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**, **D4id** 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**, **D4id**, **SRD** Driver Options.

10 Either **RCD** or **RCD7** must be selected for this option.

11 Extended lead-time may apply. Consult factory.

12 Not available with **UNV**.

13 Only available with **R2M** or **R3M** distributions.

14 1 shield provided per LED light engine.

15 **TLRSR** must be selected with **ZD4i** or **D4I**.

16 **TLRSR** and **ZD4i** or **D4I** must be selected with **OMS**.

17. Legacy codes for backward compatibility on existing QPL. Please use new coding where possible.

18 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. 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, applicable projects must be funded by October 1, 2026.

19 Build America, Buy America Act (BABA). BABA establishes the minimum domestic content requirements that federal agencies must apply. This product is manufactured in the US and has a domestic content of 55% or more. This BABA designation does not address the "Buy America" domestic content requirements, which may be stricter, imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by federal agencies.

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Shielding accessories[1] (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

* 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. L_{70} is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11 Addendum B. Published L_{70} hours limited to 6 times actual LED test hours.

Ambient Temperature °C	L_{70} 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[2]	Wattage label[3]
RFS-15W12LED	12	1x12LED	14	10
RFS-20W12LED	12	1x12LED	19	20
RFS-25W12LED	12	1x12LED	25	20
RFS-25W16LED	16	1x16LED	24	20
RFS-30W16LED	16	1x16LED	29	30
RFS-35W16LED	16	1x16LED	38	40
RFS-45W16LED	16	1x16LED	45	50
RFS-50W16LED	16	1x16LED	50	50
RFS-54W16LED	16	1x16LED	53	50
RFS-60W16LED	16	1x16LED	61	60
RFS-20W20LED	20	1x20LED	20	20
RFS-40W20LED	20	1x20LED	40	40
RFS-35W32LED	32	2x16LED	37	40
RFS-55W32LED	32	2x16LED	53	50
RFS-60W32LED	32	2x16LED	59	60
RFS-72W32LED	32	2x16LED	73	70
RFS-108W32LED	32	2x16LED	108	110
RFS-35W40LED	40	2x20LED	35	40
RFS-50W40LED	40	2x20LED	49	50
RFS-55W40LED	40	2x20LED	54	50
RFS-65W40LED	40	2x20LED	66	70
RFS-80W40LED	40	2x20LED	79	80
RFS-100W40LED	40	2x20LED	101	100

1. Consult Signify to confirm whether specific accessories are BAA-compliant.
2. Typical values, rounded.
3. As per ANSI C136.15-2015. Consult factory for other labelling needs.

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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
15W12LED	4000	2,168	155	B1-U0-G1	2,257	161	B1-U0-G0	2,161	154	B1-U0-G1	2,190	157	B1-U0-G1	2,151	154	B1-U0-G1	2,238	160	B2-U0-G1
20W12LED	4000	2,939	155	B1-U0-G1	3,059	161	B1-U0-G0	2,929	154	B1-U0-G1	2,969	156	B1-U0-G1	2,916	154	B1-U0-G1	3,033	160	B2-U0-G1
25W12LED	4000	3,360	134	B1-U0-G1	3,498	140	B1-U0-G1	3,349	134	B1-U0-G1	3,394	136	B1-U0-G1	3,334	133	B1-U0-G1	3,468	139	B2-U0-G1
25W16LED	4000	3,867	161	B1-U0-G1	4,026	168	B1-U0-G1	3,855	161	B1-U0-G1	3,907	163	B1-U0-G1	3,837	160	B1-U0-G1	3,991	166	B3-U0-G1
30W16LED	4000	4,380	151	B1-U0-G1	4,560	157	B1-U0-G1	4,367	151	B1-U0-G1	4,425	153	B1-U0-G1	4,346	150	B1-U0-G1	4,521	156	B3-U0-G1
35W16LED	4000	5,598	147	B2-U0-G1	5,827	153	B2-U0-G1	5,580	147	B1-U0-G1	5,655	149	B1-U0-G1	5,554	146	B1-U0-G2	5,777	152	B3-U0-G1
45W16LED	4000	6,397	142	B2-U0-G1	6,659	148	B2-U0-G1	6,377	142	B2-U0-G1	6,463	144	B1-U0-G2	6,347	141	B1-U0-G2	6,602	147	B3-U0-G1
50W16LED	4000	6,779	136	B2-U0-G1	7,057	141	B2-U0-G1	6,757	135	B2-U0-G1	6,848	137	B1-U0-G2	6,726	135	B1-U0-G2	6,996	140	B3-U0-G1
54W16LED	4000	7,397	140	B2-U0-G1	7,700	145	B2-U0-G1	7,373	139	B2-U0-G2	7,473	141	B1-U0-G2	7,339	139	B1-U0-G2	7,634	144	B3-U0-G2
60W16LED	4000	8,064	132	B2-U0-G2	8,394	138	B2-U0-G1	8,038	132	B2-U0-G2	8,146	134	B1-U0-G2	8,001	131	B1-U0-G2	8,322	136	B3-U0-G2
20W20LED	4000	2,971	152	B1-U0-G1	3,093	158	B1-U0-G0	2,962	151	B1-U0-G1	3,002	153	B1-U0-G1	2,948	150	B1-U0-G1	3,066	156	B2-U0-G1
40W20LED	4000	5,915	149	B2-U0-G1	6,158	155	B2-U0-G1	5,897	149	B2-U0-G1	5,976	151	B1-U0-G2	5,869	148	B1-U0-G2	6,105	154	B3-U0-G1
65W20LED	4000	9,109	142	B2-U0-G2	9,482	148	B2-U0-G2	9,080	142	B2-U0-G2	9,202	144	B2-U0-G2	9,038	141	B2-U0-G2	9,401	147	B3-U0-G2
35W32LED	4000	6,048	164	B2-U0-G1	6,296	170	B2-U0-G1	6,029	163	B2-U0-G1	6,110	165	B1-U0-G2	6,001	162	B1-U0-G2	6,242	169	B3-U0-G1
55W32LED	4000	8,761	165	B2-U0-G2	9,120	172	B2-U0-G1	8,733	165	B2-U0-G2	8,851	167	B1-U0-G2	8,693	164	B2-U0-G2	9,042	171	B3-U0-G2
60W32LED	4000	8,880	151	B2-U0-G2	9,243	157	B2-U0-G1	8,851	150	B2-U0-G2	8,971	152	B2-U0-G2	8,810	149	B2-U0-G2	9,164	155	B3-U0-G2
72W32LED	4000	10,949	150	B3-U0-G2	11,397	156	B3-U0-G2	10,914	150	B2-U0-G2	11,061	152	B2-U0-G2	10,863	149	B2-U0-G2	11,300	155	B4-U0-G2
108W32LED	4000	15,158	140	B3-U0-G3	15,779	146	B3-U0-G2	15,110	140	B3-U0-G2	15,314	142	B2-U0-G2	15,040	139	B2-U0-G3	15,644	145	B4-U0-G2
35W40LED	4000	6,369	180	B2-U0-G1	6,630	188	B2-U0-G1	6,348	180	B2-U0-G1	6,434	182	B1-U0-G2	6,319	179	B1-U0-G2	6,573	186	B3-U0-G1
50W40LED	4000	8,518	175	B2-U0-G2	8,867	182	B2-U0-G1	8,491	174	B2-U0-G2	8,606	177	B1-U0-G2	8,452	174	B2-U0-G2	8,791	181	B3-U0-G2
55W40LED	4000	8,932	164	B2-U0-G2	9,298	171	B2-U0-G2	8,903	164	B2-U0-G2	9,023	166	B2-U0-G2	8,862	163	B2-U0-G2	9,218	169	B3-U0-G2
65W40LED	4000	10,502	159	B2-U0-G2	10,933	166	B3-U0-G2	10,469	159	B2-U0-G2	10,610	161	B2-U0-G2	10,421	158	B2-U0-G2	10,839	164	B4-U0-G2
80W40LED	4000	12,273	155	B3-U0-G2	12,776	162	B3-U0-G2	12,234	155	B3-U0-G2	12,399	157	B2-U0-G2	12,178	154	B2-U0-G2	12,666	160	B4-U0-G2
100W40LED	4000	14,967	148	B3-U0-G2	15,580	154	B3-U0-G2	14,919	148	B3-U0-G2	15,120	150	B2-U0-G2	14,850	147	B2-U0-G3	15,446	153	B4-U0-G2

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
15W12LED	3000	2,030	145	B1-U0-G1	2,113	151	B1-U0-G0	2,024	145	B1-U0-G1	2,051	147	B1-U0-G0	2,014	144	B1-U0-G1	2,095	150	B2-U0-G1
20W12LED	3000	2,751	145	B1-U0-G1	2,864	151	B1-U0-G0	2,743	144	B1-U0-G1	2,780	146	B1-U0-G1	2,730	144	B1-U0-G1	2,840	149	B2-U0-G1
25W12LED	3000	3,146	126	B1-U0-G1	3,275	131	B1-U0-G0	3,136	125	B1-U0-G1	3,178	127	B1-U0-G1	3,121	125	B1-U0-G1	3,247	130	B2-U0-G1
25W16LED	3000	3,621	151	B1-U0-G1	3,769	157	B1-U0-G1	3,609	150	B1-U0-G1	3,658	152	B1-U0-G1	3,593	150	B1-U0-G1	3,737	156	B2-U0-G1
30W16LED	3000	4,101	141	B1-U0-G1	4,270	147	B1-U0-G1	4,088	141	B1-U0-G1	4,144	143	B1-U0-G1	4,070	140	B1-U0-G1	4,233	146	B3-U0-G1
35W16LED	3000	5,241	138	B1-U0-G1	5,456	144	B1-U0-G1	5,225	138	B1-U0-G1	5,295	139	B1-U0-G1	5,200	137	B1-U0-G2	5,409	142	B3-U0-G1
45W16LED	3000	5,990	133	B2-U0-G1	6,235	139	B2-U0-G1	5,971	133	B2-U0-G1	6,051	135	B1-U0-G2	5,943	132	B1-U0-G2	6,182	137	B3-U0-G1
50W16LED	3000	6,347	127	B2-U0-G1	6,607	132	B2-U0-G1	6,327	127	B2-U0-G1	6,412	128	B1-U0-G2	6,298	126	B1-U0-G2	6,551	131	B3-U0-G1
54W16LED	3000	6,926	131	B2-U0-G1	7,210	136	B2-U0-G1	6,904	130	B2-U0-G1	6,997	132	B1-U0-G2	6,872	130	B1-U0-G2	7,148	135	B3-U0-G2
60W16LED	3000	7,550	124	B2-U0-G2	7,860	129	B2-U0-G1	7,526	123	B2-U0-G2	7,628	125	B1-U0-G2	7,491	123	B1-U0-G2	7,792	128	B3-U0-G2
20W20LED	3000	2,782	142	B1-U0-G1	2,896	148	B1-U0-G0	2,773	142	B1-U0-G1	2,810	143	B1-U0-G1	2,760	141	B1-U0-G1	2,871	147	B2-U0-G1
40W20LED	3000	5,539	140	B2-U0-G1	5,766	145	B2-U0-G1	5,521	139	B1-U0-G1	5,595	141	B1-U0-G1	5,496	138	B1-U0-G2	5,716	144	B3-U0-G1
65W20LED	3000	8,529	133	B2-U0-G2	8,878	139	B2-U0-G1	8,502	133	B2-U0-G2	8,616	135	B1-U0-G2	8,462	132	B2-U0-G2	8,802	138	B3-U0-G2
35W32LED	3000	5,663	153	B2-U0-G1	5,895	159	B2-U0-G1	5,645	153	B2-U0-G1	5,721	155	B1-U0-G2	5,619	152	B1-U0-G2	5,844	158	B3-U0-G1
55W32LED	3000	8,203	155	B2-U0-G2	8,539	161	B2-U0-G1	8,177	154	B2-U0-G2	8,287	156	B1-U0-G2	8,139	154	B2-U0-G2	8,466	160	B3-U0-G2
60W32LED	3000	8,314	141	B2-U0-G2	8,655	147	B2-U0-G1	8,288	141	B2-U0-G2	8,399	142	B1-U0-G2	8,249	140	B2-U0-G2	8,580	145	B3-U0-G2
72W32LED	3000	10,251	140	B2-U0-G2	10,672	146	B2-U0-G2	10,219	140	B2-U0-G2	10,357	142	B2-U0-G2	10,172	139	B2-U0-G2	10,580	145	B4-U0-G2
108W32LED	3000	14,193	131	B3-U0-G2	14,774	137	B3-U0-G2	14,148	131	B3-U0-G2	14,338	133	B2-U0-G2	14,082	130	B2-U0-G3	14,648	136	B4-U0-G2
35W40LED	3000	5,963	169	B2-U0-G1	6,207	176	B2-U0-G1	5,944	168	B2-U0-G1	6,024	171	B1-U0-G2	5,917	168	B1-U0-G2	6,154	174	B3-U0-G1
50W40LED	3000	7,976	164	B2-U0-G2	8,303	171	B2-U0-G1	7,950	163	B2-U0-G2	8,058	166	B1-U0-G2	7,914	163	B1-U0-G2	8,231	169	B3-U0-G2
55W40LED	3000	8,363	154	B2-U0-G2	8,705	160	B2-U0-G1	8,336	153	B2-U0-G2	8,448	155	B1-U0-G2	8,298	153	B2-U0-G2	8,631	159	B3-U0-G2
65W40LED	3000	9,833	149	B2-U0-G2	10,236	155	B2-U0-G2	9,802	149	B2-U0-G2	9,934	151	B2-U0-G2	9,757	148	B2-U0-G2	10,149	154	B4-U0-G2
80W40LED	3000	11,491	146	B3-U0-G2	11,962	151	B3-U0-G2	11,455	145	B3-U0-G2	11,609	147	B2-U0-G2	11,402	144	B2-U0-G2	11,860	150	B4-U0-G2
100W40LED	3000	14,013	139	B3-U0-G2	14,588	144	B3-U0-G2	13,969	138	B3-U0-G2	14,157	140	B2-U0-G2	13,904	138	B2-U0-G3	14,463	143	B4-U0-G2

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.

RFS RoadFocus

LED Cobra head (small)

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
15W12LED	2700	1,749	125	B1-U0-G1	1,821	130	B1-U0-G0	1,744	125	B1-U0-G1	1,767	126	B0-U0-G0	1,736	124	B0-U0-G1	1,805	129	B1-U0-G0
20W12LED	2700	2,371	125	B1-U0-G1	2,468	130	B1-U0-G0	2,363	124	B1-U0-G1	2,395	126	B1-U0-G1	2,352	124	B1-U0-G1	2,447	129	B2-U0-G1
25W12LED	2700	2,711	108	B1-U0-G1	2,822	113	B1-U0-G0	2,702	108	B1-U0-G1	2,739	110	B1-U0-G1	2,690	108	B1-U0-G1	2,798	112	B2-U0-G1
25W16LED	2700	3,120	130	B1-U0-G1	3,248	135	B1-U0-G0	3,110	130	B1-U0-G1	3,152	131	B1-U0-G1	3,096	129	B1-U0-G1	3,220	134	B2-U0-G1
30W16LED	2700	3,534	122	B1-U0-G1	3,679	127	B1-U0-G1	3,523	122	B1-U0-G1	3,570	123	B1-U0-G1	3,507	121	B1-U0-G1	3,647	126	B2-U0-G1
35W16LED	2700	4,516	119	B1-U0-G1	4,701	124	B1-U0-G1	4,502	119	B1-U0-G1	4,563	120	B1-U0-G1	4,481	118	B1-U0-G1	4,661	123	B3-U0-G1
45W16LED	2700	5,161	115	B1-U0-G1	5,373	119	B1-U0-G1	5,145	114	B1-U0-G1	5,214	116	B1-U0-G1	5,121	114	B1-U0-G2	5,327	118	B3-U0-G1
50W16LED	2700	5,469	109	B2-U0-G1	5,693	114	B2-U0-G1	5,452	109	B1-U0-G1	5,525	111	B1-U0-G1	5,427	109	B1-U0-G2	5,644	113	B3-U0-G1
54W16LED	2700	5,968	113	B2-U0-G1	6,212	117	B2-U0-G1	5,949	112	B2-U0-G1	6,029	114	B1-U0-G2	5,921	112	B1-U0-G2	6,159	116	B3-U0-G1
60W16LED	2700	6,506	107	B2-U0-G1	6,772	111	B2-U0-G1	6,485	106	B2-U0-G1	6,573	108	B1-U0-G2	6,455	106	B1-U0-G2	6,714	110	B3-U0-G1
20W20LED	2700	2,397	122	B1-U0-G1	2,495	127	B1-U0-G0	2,389	122	B1-U0-G1	2,422	124	B1-U0-G1	2,378	121	B1-U0-G1	2,474	126	B2-U0-G1
40W20LED	2700	4,773	120	B1-U0-G1	4,968	125	B1-U0-G1	4,757	120	B1-U0-G1	4,821	121	B1-U0-G1	4,735	119	B1-U0-G2	4,925	124	B3-U0-G1
65W20LED	2700	7,349	115	B2-U0-G1	7,650	120	B2-U0-G1	7,326	115	B2-U0-G2	7,424	116	B1-U0-G2	7,292	114	B1-U0-G2	7,584	119	B3-U0-G2
35W32LED	2700	4,880	132	B1-U0-G1	5,080	137	B1-U0-G1	4,864	132	B1-U0-G1	4,930	133	B1-U0-G1	4,842	131	B1-U0-G2	5,036	136	B3-U0-G1
55W32LED	2700	7,068	133	B2-U0-G1	7,358	139	B2-U0-G1	7,046	133	B2-U0-G1	7,141	135	B1-U0-G2	7,013	132	B1-U0-G2	7,295	138	B3-U0-G2
60W32LED	2700	7,164	121	B2-U0-G1	7,458	126	B2-U0-G1	7,141	121	B2-U0-G1	7,237	123	B1-U0-G2	7,108	121	B1-U0-G2	7,394	125	B3-U0-G2
72W32LED	2700	8,833	121	B2-U0-G2	9,195	126	B2-U0-G1	8,805	121	B2-U0-G2	8,924	122	B2-U0-G2	8,765	120	B2-U0-G2	9,116	125	B3-U0-G2
108W32LED	2700	12,229	113	B3-U0-G2	12,731	118	B3-U0-G2	12,191	113	B3-U0-G2	12,355	114	B2-U0-G2	12,134	112	B2-U0-G2	12,621	117	B4-U0-G2
35W40LED	2700	5,138	146	B1-U0-G1	5,349	152	B1-U0-G1	5,122	145	B1-U0-G1	5,191	147	B1-U0-G1	5,098	144	B1-U0-G2	5,303	150	B3-U0-G1
50W40LED	2700	6,872	141	B2-U0-G1	7,154	147	B2-U0-G1	6,851	141	B2-U0-G1	6,943	143	B1-U0-G2	6,819	140	B1-U0-G2	7,093	146	B3-U0-G1
55W40LED	2700	7,206	133	B2-U0-G1	7,501	138	B2-U0-G1	7,183	132	B2-U0-G1	7,280	134	B1-U0-G2	7,150	131	B1-U0-G2	7,437	137	B3-U0-G2
65W40LED	2700	8,473	128	B2-U0-G2	8,821	134	B2-U0-G1	8,446	128	B2-U0-G2	8,560	130	B1-U0-G2	8,407	127	B2-U0-G2	8,745	133	B3-U0-G2
80W40LED	2700	9,902	125	B2-U0-G2	10,308	131	B2-U0-G2	9,870	125	B2-U0-G2	10,003	127	B2-U0-G2	9,825	124	B2-U0-G2	10,219	129	B4-U0-G2
100W40LED	2700	12,075	120	B3-U0-G2	12,570	125	B3-U0-G2	12,037	119	B3-U0-G2	12,199	121	B2-U0-G2	11,981	119	B2-U0-G2	12,462	123	B4-U0-G2

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
15W12LED	2200	1,667	119	B1-U0-G1	1,736	124	B1-U0-G0	1,662	119	B1-U0-G1	1,684	120	B0-U0-G0	1,654	118	B0-U0-G1	1,721	123	B1-U0-G0
20W12LED	2200	2,260	119	B1-U0-G1	2,352	124	B1-U0-G0	2,253	119	B1-U0-G1	2,283	120	B1-U0-G1	2,242	118	B1-U0-G1	2,332	123	B2-U0-G1
25W12LED	2200	2,584	103	B1-U0-G1	2,690	108	B1-U0-G0	2,576	103	B1-U0-G1	2,610	104	B1-U0-G1	2,564	103	B1-U0-G1	2,667	107	B2-U0-G1
25W16LED	2200	2,974	124	B1-U0-G1	3,096	129	B1-U0-G0	2,964	124	B1-U0-G1	3,004	125	B1-U0-G1	2,951	123	B1-U0-G1	3,069	128	B2-U0-G1
30W16LED	2200	3,369	116	B1-U0-G1	3,507	121	B1-U0-G1	3,358	116	B1-U0-G1	3,403	117	B1-U0-G1	3,342	115	B1-U0-G1	3,477	120	B2-U0-G1
35W16LED	2200	4,305	113	B1-U0-G1	4,481	118	B1-U0-G1	4,291	113	B1-U0-G1	4,349	114	B1-U0-G1	4,271	112	B1-U0-G1	4,443	117	B3-U0-G1
45W16LED	2200	4,919	109	B1-U0-G1	5,121	114	B1-U0-G1	4,904	109	B1-U0-G1	4,970	110	B1-U0-G1	4,881	109	B1-U0-G2	5,077	113	B3-U0-G1
50W16LED	2200	5,213	104	B1-U0-G1	5,427	109	B1-U0-G1	5,196	104	B1-U0-G1	5,266	105	B1-U0-G1	5,172	103	B1-U0-G2	5,380	108	B3-U0-G1
54W16LED	2200	5,688	107	B2-U0-G1	5,921	112	B2-U0-G1	5,670	107	B2-U0-G1	5,747	108	B1-U0-G2	5,644	107	B1-U0-G2	5,871	111	B3-U0-G1
60W16LED	2200	6,201	102	B2-U0-G1	6,455	106	B2-U0-G1	6,181	101	B2-U0-G1	6,265	103	B1-U0-G2	6,153	101	B1-U0-G2	6,400	105	B3-U0-G1
20W20LED	2200	2,285	117	B1-U0-G1	2,378	121	B1-U0-G0	2,278	116	B1-U0-G1	2,308	118	B1-U0-G1	2,267	116	B1-U0-G1	2,358	120	B2-U0-G1
40W20LED	2200	4,549	115	B1-U0-G1	4,735	119	B1-U0-G1	4,535	114	B1-U0-G1	4,596	116	B1-U0-G1	4,514	114	B1-U0-G1	4,695	118	B3-U0-G1
65W20LED	2200	7,005	109	B2-U0-G1	7,292	114	B2-U0-G1	6,982	109	B2-U0-G1	7,077	111	B1-U0-G2	6,950	109	B1-U0-G2	7,229	113	B3-U0-G2
35W32LED	2200	4,651	126	B1-U0-G1	4,842	131	B1-U0-G1	4,636	125	B1-U0-G1	4,699	127	B1-U0-G1	4,615	125	B1-U0-G1	4,800	130	B3-U0-G1
55W32LED	2200	6,737	127	B2-U0-G1	7,013	132	B2-U0-G1	6,716	127	B2-U0-G1	6,806	128	B1-U0-G2	6,685	126	B1-U0-G2	6,953	131	B3-U0-G1
60W32LED	2200	6,828	116	B2-U0-G1	7,108	121	B2-U0-G1	6,807	115	B2-U0-G1	6,898	117	B1-U0-G2	6,775	115	B1-U0-G2	7,047	119	B3-U0-G1
72W32LED	2200	8,420	115	B2-U0-G2	8,765	120	B2-U0-G1	8,393	115	B2-U0-G2	8,506	117	B1-U0-G2	8,354	114	B2-U0-G2	8,689	119	B3-U0-G2
108W32LED	2200	11,657	108	B3-U0-G2	12,134	112	B3-U0-G2	11,620	108	B3-U0-G2	11,776	109	B2-U0-G2	11,566	107	B2-U0-G2	12,030	111	B4-U0-G2
35W40LED	2200	4,897	139	B1-U0-G1	5,098	144	B1-U0-G1	4,882	138	B1-U0-G1	4,948	140	B1-U0-G1	4,859	138	B1-U0-G2	5,054	143	B3-U0-G1
50W40LED	2200	6,551	135	B2-U0-G1	6,819	140	B2-U0-G1	6,530	134	B2-U0-G1	6,618	136	B1-U0-G2	6,499	134	B1-U0-G2	6,760	139	B3-U0-G1
55W40LED	2200	6,868	126	B2-U0-G1	7,150	131	B2-U0-G1	6,847	126	B2-U0-G1	6,939	128	B1-U0-G2	6,815	125	B1-U0-G2	7,088	130	B3-U0-G1
65W40LED	2200	8,076	122	B2-U0-G2	8,407	127	B2-U0-G1	8,051	122	B2-U0-G2	8,159	124	B1-U0-G2	8,013	121	B1-U0-G2	8,335	126	B3-U0-G2
80W40LED	2200	9,438	120	B2-U0-G2	9,825	124	B2-U0-G2	9,408	119	B2-U0-G2	9,535	121	B2-U0-G2	9,365	119	B2-U0-G2	9,740	123	B3-U0-G2
100W40LED	2200	11,509	114	B3-U0-G2	11,981	119	B3-U0-G2	11,473	114	B3-U0-G2	11,627	115	B2-U0-G2	11,420	113	B2-U0-G2	11,878	118	B4-U0-G2

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.

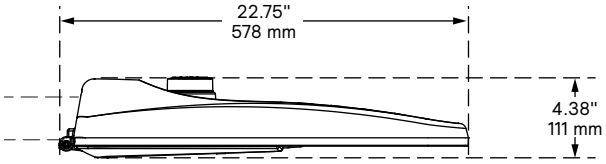
Note: Some data may be scaled based on tests of similar but not identical luminaries.

RFS RoadFocus

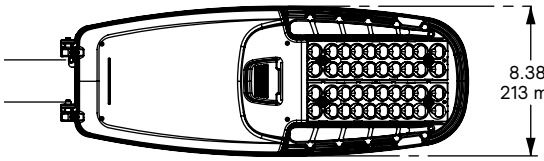
LED Cobra head (small)

Dimensions

Side View



Bottom View



Weight: 9.4 lbs
EPA: 0.52 sq. feet

Field Adjustable Wattage (FAWS) Multiplier Chart

FAWS Position	Typical Delivered Lumens Multiplier	Typical System wattage
1	0.31	0.28
2	0.53	0.50
3	0.62	0.58
4	0.70	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 a zinc plated clamp fixed by 2 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 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, 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.

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.

RCD7*: 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.

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

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.

RFS RoadFocus

LED Cobra head (small)

Specifications (continued)

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.

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.

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

NYBC: 4-position terminal block

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

RCD*: Tool Less orientable 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, UNV (120-277VAC).

PH8/480: Twist-lock photoelectric cell, UNV (120-277VAC).

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 RFS 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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