LUMEC

Roadway

RoadFocus

RFM Cobra head (medium)



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: RFM-108W32LED3K-G2-R2M-UNV-DMG-HS-PH8-RCD7-GY3

Series	LED module	CCT	Generation	Distribution	Voltage	Options		Finish
						Controls [4]	Options	
RFM	**130W32LED**	**4K** 4000K	**G2**	**Type 2**	**UNV**	**ZD4i** [16] Zhaga-D4i certified luminaire	**2C** Two clamp with 4 bolts	**BK** Black
RoadFocus medium	**135W40LED** [14]	**3K** 3000K	Generation 2	**R2S** Type II short (ASYM)	120-277V	**D4id** [1] D4i driver (DALI)	**API** Factory installed NEMA label, ANSI C136.15-2015 compliant	**BR** Bronze
	55W48LED [12]	**2.7K** [11] 2700K		**R2M** Type II Medium (ASYM)	**HVU**	**DMG** [5] 0-10V driver	**FAWS** [7] Field adjustable wattage selector	**GY3** Gray
	80W48LED	**2.2K** [11] 2200K		**Type 3**	347-480V		**CSS** [2,15] Cul-de-Sac Shield	**WH** White
	108W48LED			**R3S** Type III short (ASYM)		**Legacy** [18]	**FSS** [2,15] Front Side Shield	
	160W48LED			**R3M** Type III Medium (ASYM)		**D4I** [16] Zhaga-D4i certified	**HS** [2,15] House Side Shield	
	50W60LED [14]			**Type 4**		**DALI** [1] Digitally addressable lighting interface	**LSS** [2,15] Left Side Shield	
	75W60LED [14]			**4** Type IV (ASYM)		**SRD** [1] Sensor ready driver, standard configuration	**RSS** [2,15] Right Side Shield	
	100W60LED [14]			**Type 5**			**NRC** [8] No receptacle	
	120W60LED [14]			**5** Type V (SYMM)			**NYBC** 4-position terminal block	
	150W60LED [14]						**OMS** [17] Outdoor Multisensor	
	170W60LED [14]						**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] Tool less receptacle for twist-lock photocell or shorting cap, 5-pin (optional)	
							RCD7 [3,5] Tool less receptacle for twist-lock photocell or shorting cap, 7-pin (standard)	
							SP2 20kV / 10kA Surge protector	
							TLRSR [6] SR receptacle	
							BAC [19] 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 [20] Meets the requirement of the Build America, Buy America Act (BABA).	

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, SRD** Driver Options.
10. Either **RCD** or **RCD7** must be selected for this option.
11. Extended lead-time may apply (consult factory).
12. The **FAWS** table accuracy +/- 15% on these models.
13. Not available with **UNV**.
14. Only available with **R2M** or **R3M** distributions.
15. One shield provided per LED light engine.
16. The **TLRSR** must be selected with **ZD4i** or **D4I.**
17. The **TLRSR** and **ZD4i** or **D4I** 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 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.
20. 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.

RFM RoadFocus

LED Cobra head (medium)

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]
RFM-130W32LED	32	2x16LED	129	130
RFM-135W40LED	40	2x12LED+1x16LED	135	140
RFM-55W48LED	48	3x16LED	55	60
RFM-80W48LED	48	3x16LED	81	80
RFM-108W48LED	48	3x16LED	106	110
RFM-160W48LED[3]	48	3x16LED	161	160
RFM-50W60LED	60	3x20LED	52	50
RFM-75W60LED	60	3x20LED	77	80
RFM-100W60LED	60	3x20LED	99	100
RFM-120W60LED	60	3x20LED	122	120
RFM-150W60LED	60	3x20LED	149	150
RFM-170W60LED[3]	60	3x20LED	170	170

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

RFM RoadFocus

LED Cobra head (medium)

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
130W32LED	4000	17,355	135	B3-U0-G3	18,067	140	B3-U0-G2	17,300	134	B3-U0-G3	17,533	136	B2-U0-G3	17,220	134	B3-U0-G3	17,911	139	B4-U0-G2
135W40LED	4000	18,567	138	B3-U0-G3	19,328	143	B3-U0-G2	18,508	137	B3-U0-G3	18,757	139	B3-U0-G3	18,422	137	B3-U0-G3	19,162	142	B4-U0-G2
55W48LED	4000	9,016	164	B2-U0-G2	9,385	171	B2-U0-G2	8,987	163	B2-U0-G2	9,108	166	B2-U0-G2	8,946	163	B2-U0-G2	9,305	169	B3-U0-G2
80W48LED	4000	12,928	160	B3-U0-G2	13,458	166	B3-U0-G2	12,887	159	B3-U0-G2	13,061	161	B2-U0-G2	12,828	158	B2-U0-G3	13,343	165	B4-U0-G2
108W48LED	4000	16,321	154	B3-U0-G3	16,990	160	B3-U0-G2	16,269	154	B3-U0-G2	16,488	156	B2-U0-G3	16,194	153	B3-U0-G3	16,844	159	B4-U0-G2
160W48LED	4000	22,591	140	B3-U0-G3	23,517	146	B3-U0-G2	22,519	140	B3-U0-G3	22,823	142	B3-U0-G3	22,415	139	B3-U0-G4	23,315	145	B5-U0-G3
50W60LED	4000	9,355	179	B2-U0-G2	N/A	N/A	N/A	9,325	178	B2-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
75W60LED	4000	12,777	166	B3-U0-G2	N/A	N/A	N/A	12,737	165	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100W60LED	4000	15,845	160	B3-U0-G3	N/A	N/A	N/A	15,794	160	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
120W60LED	4000	18,730	154	B3-U0-G3	N/A	N/A	N/A	18,670	153	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
150W60LED	4000	22,202	149	B3-U0-G3	N/A	N/A	N/A	22,132	149	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
170W60LED	4000	24,482	144	B3-U0-G3	N/A	N/A	N/A	24,405	144	B3-U0-G3	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
130W32LED	3000	16,250	126	B3-U0-G3	16,916	131	B3-U0-G2	16,198	126	B3-U0-G2	16,417	127	B2-U0-G3	16,123	125	B3-U0-G3	16,771	130	B4-U0-G2
135W40LED	3000	17,384	129	B3-U0-G3	18,097	134	B3-U0-G2	17,329	128	B3-U0-G3	17,562	130	B2-U0-G3	17,249	128	B3-U0-G3	17,941	133	B4-U0-G2
55W48LED	3000	8,442	154	B2-U0-G2	8,788	160	B2-U0-G1	8,415	153	B2-U0-G2	8,528	155	B1-U0-G2	8,376	152	B2-U0-G2	8,712	158	B3-U0-G2
80W48LED	3000	12,105	149	B3-U0-G2	12,601	156	B3-U0-G2	12,066	149	B3-U0-G2	12,229	151	B2-U0-G2	12,011	148	B2-U0-G2	12,493	154	B4-U0-G2
108W48LED	3000	15,281	144	B3-U0-G3	15,908	150	B3-U0-G2	15,233	144	B3-U0-G2	15,438	146	B2-U0-G2	15,162	143	B2-U0-G3	15,771	149	B4-U0-G2
160W48LED	3000	21,152	131	B3-U0-G3	22,019	137	B3-U0-G2	21,085	131	B3-U0-G3	21,369	133	B3-U0-G3	20,987	130	B3-U0-G4	21,830	136	B5-U0-G3
50W60LED	3000	8,759	168	B2-U0-G2	N/A	N/A	N/A	8,731	167	B2-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
75W60LED	3000	11,963	155	B3-U0-G2	N/A	N/A	N/A	11,925	155	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100W60LED	3000	14,836	150	B3-U0-G2	N/A	N/A	N/A	14,788	149	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
120W60LED	3000	17,537	144	B3-U0-G3	N/A	N/A	N/A	17,481	143	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
150W60LED	3000	20,788	140	B3-U0-G3	N/A	N/A	N/A	20,722	139	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
170W60LED	3000	22,923	135	B3-U0-G3	N/A	N/A	N/A	22,850	134	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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
130W32LED	2700	14,002	109	B3-U0-G2	14,576	113	B3-U0-G2	13,958	108	B3-U0-G2	14,146	110	B2-U0-G2	13,893	108	B2-U0-G3	14,451	112	B4-U0-G2
135W40LED	2700	14,980	111	B3-U0-G3	15,593	116	B3-U0-G2	14,932	111	B3-U0-G2	15,133	112	B2-U0-G2	14,863	110	B2-U0-G3	15,460	115	B4-U0-G2
55W48LED	2700	7,274	132	B2-U0-G1	7,572	138	B2-U0-G1	7,251	132	B2-U0-G2	7,348	134	B1-U0-G2	7,217	131	B1-U0-G2	7,507	137	B3-U0-G2
80W48LED	2700	10,430	129	B2-U0-G2	10,858	134	B2-U0-G2	10,397	128	B2-U0-G2	10,537	130	B2-U0-G2	10,349	128	B2-U0-G2	10,765	133	B4-U0-G2
108W48LED	2700	13,167	124	B3-U0-G2	13,707	129	B3-U0-G2	13,126	124	B3-U0-G2	13,303	126	B2-U0-G2	13,065	123	B2-U0-G3	13,589	128	B4-U0-G2
160W48LED	2700	18,226	113	B3-U0-G3	18,973	118	B3-U0-G2	18,168	113	B3-U0-G3	18,413	114	B3-U0-G3	18,084	112	B3-U0-G3	18,810	117	B4-U0-G2
50W60LED	2700	7,547	144	B2-U0-G2	N/A	N/A	N/A	7,523	144	B2-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
75W60LED	2700	10,309	134	B2-U0-G2	N/A	N/A	N/A	10,276	134	B2-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100W60LED	2700	12,783	129	B3-U0-G2	N/A	N/A	N/A	12,743	129	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
120W60LED	2700	15,111	124	B3-U0-G3	N/A	N/A	N/A	15,063	124	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
150W60LED	2700	17,913	120	B3-U0-G3	N/A	N/A	N/A	17,856	120	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
170W60LED	2700	19,752	116	B3-U0-G3	N/A	N/A	N/A	19,689	116	B3-U0-G3	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.

RFM RoadFocus

LED Cobra head (medium)

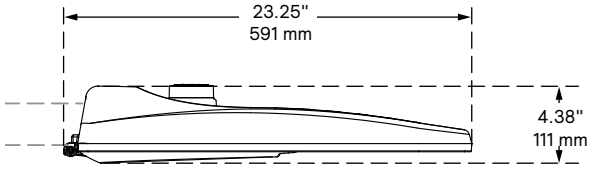
2200K LED Lumen values

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
130W32LED	2200	13,346	104	B3-U0-G2	13,893	108	B3-U0-G2	13,304	103	B3-U0-G2	13,483	105	B2-U0-G2	13,242	103	B2-U0-G3	13,774	107	B4-U0-G2
135W40LED	2200	14,278	106	B3-U0-G2	14,863	110	B3-U0-G2	14,232	105	B3-U0-G2	14,424	107	B2-U0-G2	14,167	105	B2-U0-G3	14,735	109	B4-U0-G2
55W48LED	2200	6,933	126	B2-U0-G1	7,217	131	B2-U0-G1	6,911	126	B2-U0-G1	7,004	127	B1-U0-G2	6,879	125	B1-U0-G2	7,155	130	B3-U0-G2
80W48LED	2200	9,942	123	B2-U0-G2	10,349	128	B2-U0-G2	9,910	122	B2-U0-G2	10,044	124	B2-U0-G2	9,864	122	B2-U0-G2	10,260	127	B4-U0-G2
108W48LED	2200	12,551	118	B3-U0-G2	13,065	123	B3-U0-G2	12,511	118	B3-U0-G2	12,679	120	B2-U0-G2	12,453	118	B2-U0-G2	12,953	122	B4-U0-G2
160W48LED	2200	17,372	108	B3-U0-G3	18,084	112	B3-U0-G2	17,317	108	B3-U0-G3	17,551	109	B2-U0-G3	17,237	107	B3-U0-G3	17,929	111	B4-U0-G2
50W60LED	2200	7,194	138	B2-U0-G1	N/A	N/A	N/A	7,171	137	B2-U0-G1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
75W60LED	2200	9,826	128	B2-U0-G2	N/A	N/A	N/A	9,794	127	B2-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100W60LED	2200	12,185	123	B3-U0-G2	N/A	N/A	N/A	12,146	123	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
120W60LED	2200	14,403	118	B3-U0-G2	N/A	N/A	N/A	14,357	118	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
150W60LED	2200	17,073	115	B3-U0-G3	N/A	N/A	N/A	17,019	114	B3-U0-G2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
170W60LED	2200	18,827	111	B3-U0-G3	N/A	N/A	N/A	18,767	110	B3-U0-G3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

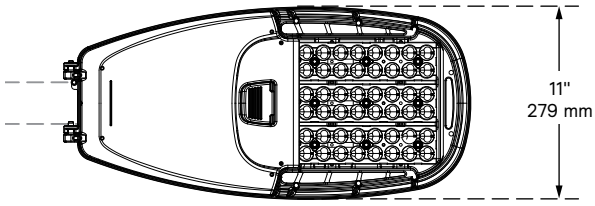
Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc. It is highly recommended to confirm performance with a lighting layout. Please contact your local sales representative for assistance. Consult DLC QPL to confirm your specific fixture selection is DLC approved.
Note: Some data may be scaled based on tests of similar but not identical luminaries.

Dimensions

Side View



Bottom View



Weight: 12.2 lbs
EPA: 0.53 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%

RFM RoadFocus

LED Cobra head (medium)

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 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 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 or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, 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.

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.

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*: 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, 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.

RFM RoadFocus

LED Cobra head (medium)

Specifications (continued)

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 RFM 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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