

FEATURES & SPECIFICATIONS

INTENDED USE — Architectural deep-cast luminaire provides general illumination for rough service (vandal resistant) applications. Ideal for interior or exterior applications where safety and security are a concern. Designed to complement building architecture and to endure extreme environmental conditions and physical abuse. Certain airborne contaminants can diminish integrity of acrylic. [Click here for Acrylic Environmental Compatibility table for suitable uses.](#)

CONSTRUCTION — *Bezel* - One-piece, die-cast aluminum, low copper alloy (<1% copper). Encloses lens and secures to housing with stainless steel Torx® T-10 set screws (two included) or optional stainless steel tamper-resistant screws (see options).

Housing - One-piece, die-cast aluminum, low copper alloy (<1% copper), with post-painted polyester powder coat finish. Four hole mounting detail for use directly over outlet box, or conduit entry through three 1/2" threaded openings on side or 3/4" threaded opening on rear surface. .012 gauge aluminum sheet metal internal bracket and board plate for thermal conduction and support.

Gasket - Polycarbonate: Perimeter lens gasket is one-piece silicone "O" ring, mechanically held in lens channel. Glass: Perimeter lens gasket is closed-cell silicone. Pad mounting gasket is closed-cell neoprene and seals housing to mounting surface. Gaskets help cushion impact shock.

Finish - Standard finish is textured polyester powder coat in white, black or bronze. Optional architectural colors available (see paint finishes).

OPTICS — *Polycarbonate lens* — Injection-molded lens is .125 inch thick. Designed to enrich the LED color and lumen output. Smooth exterior allows for easy cleaning, and interior pattern diffuses light for even surface illumination.

Glass lens — Tempered borosilicate lens, .250 inch thick, has smooth exterior for easy cleaning and textured interior.

ELECTRICAL — Utilizes high-efficiency LEDs mounted to 3 metal core circuit boards. 3500 Kelvin temperature (4100K available). Driver: 2 electronic drivers wired in series allows total power to be reduced by half while maintaining even illumination across the 3 boards. 70% lumen maintenance at 50,000 hours. 100V through 277V, 50-60HZ operation. 6KV pulse rated. Initial surge protection standard.

INSTALLATION — Unit may be wall or ceiling mounted.

LISTINGS — CSA Certified to UL and C-UL standards. NOM Certified (see Options). CSA Listed for 30°C ambient and wet locations. IP65 rated.

WARRANTY — Five-year LED board and driver warranty, one year fixture warranty.

Rough Service products by Lithonia Lighting are engineered to withstand extreme physical assault. When properly installed per instructions for maximum vandal resistance, any Rough Service lighting fixture utilizing a polycarbonate lens and/or polycarbonate housing enclosure that is rendered inoperable as a result of physical abuse, will be repaired or replaced without charge for the life of the product.

NOTE: Specifications subject to change without notice. The CCT % provided is % lamp source and actual CCT will vary upon power levels.

Catalog Number
Notes
Type



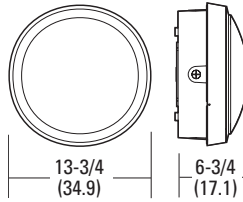
GATEWAY®

Architectural Rough Service Fixture

VGR1C



LED
Round Open Face
Deep Housing
Ceiling/Wall Mounted



All dimensions are inches (centimeters).

ORDERING INFORMATION For shortest lead times, configure products using **bolded options**.

Example: VGR1C 50LED 120 DWHG SF LPI

VGR1C	Lumen output ¹ /Color temperature ²		Lens	Voltage	Paint finishes ³	Options	Lamp
VGR1C	Lumen output¹ 50LED 50W 40LED 40W	Color temperature² (blank) 3500K 41 4100K	(blank) Polycarbonate GL Borosilicate glass	120 277 MVOLT	<u>Standard textured finishes</u> DWHG White DBLB Black DDBT Dark bronze DNAT Natural aluminum DSST Sandstone	<u>Shipped installed in fixture</u> DF Double fuse ⁴ SF Single fuse DS Dual switching MS18 Wet location motion sensor ⁵ PE Photoelectric cell ^{6,7} TRS Tamper-resistant screws ⁸ VGRDS Decorative shroud ^{9,10} NOM Meets Mexican standards	LPI Lamp included LPIAMB Amber LEDs

Accessories: Order as separate catalog number.

RK1 T10DRV	Torx TX10 screwdriver, for use with Gateway set screws.
RK1 T20BIT	Hex-base driver bit, Torx TX20, for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for use with tamper-resistant screws with center reject pin.
VGRDS XXX	Decorative shroud ^{10,11}

Notes

- 1 Refer to table on back page.
- 2 The CCT value provided is of lamp source and actual CCT will vary upon power levels.
- 3 For additional colors, refer to Architectural Paint brochure.
- 4 Must specify DS option.
- 5 Provided with lens for mounting up to 8'.
- 6 Must specify voltage. Not available with MVOLT.
- 7 Not available with DS option.
- 8 T-20 screws with center reject pin.
- 9 Color will be the same as the bezel.
- 10 Maximum operating ambient temperature is 25°C when using this accessory.
- 11 Must specify color (Example: VGRDS DWHG).

VGR1C Rough Service Wall/Ceiling-Mounted Fixture, LED

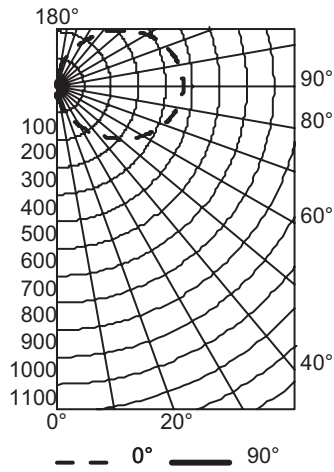
System watts	Initial delivered lumens through polycarbonate lens*		Initial delivered lumens through glass lens*		mA	Ambient temperature °C
	3500K	4100K	3500K	4100K		
50	1785	2490	1265	1770	700	30
40	1320	1970	930	1390	500	30

* 3500K and 4100K are LED CCTs.

PHOTOMETRICS

VGR1C 40LED

Test No. 18645A



Coefficients of Utilization

RGR	pw	Coefficients of Utilization								
		80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	107	107	107	99	99	99	83	83	83	
1	92	85	79	78	72	67	64	60	56	
2	81	71	63	65	57	51	53	47	42	
3	73	61	51	55	47	40	45	38	33	
4	66	53	43	48	39	32	39	32	26	
5	60	46	36	42	33	27	34	27	22	
6	55	41	31	37	29	23	30	23	18	
7	50	36	27	33	25	19	27	20	16	
8	47	33	24	30	22	17	24	18	13	
9	43	30	21	27	20	14	22	16	12	
10	40	27	19	25	18	13	20	14	10	

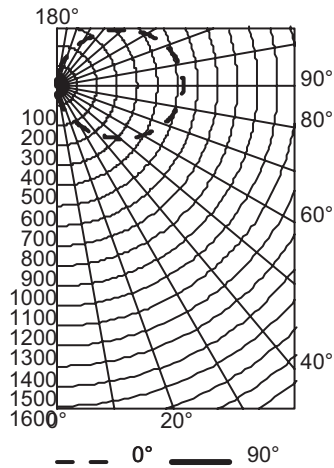
Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	39	3.0	3.0
0° - 40°	82	6.2	6.2
0° - 60°	243	18.4	18.4
0° - 90°	651	49.4	49.4
90° - 120°	415	31.5	31.5
90° - 130°	513	38.9	38.9
90° - 150°	629	47.8	47.8
90° - 180°	666	50.6	50.6
0° - 180°	1318	100.0	100.0

Efficiency: 100.0%

VGR1C 50LED

Test No. 18661



Coefficients of Utilization

RGR	pw	Coefficients of Utilization								
		80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	107	107	107	99	99	99	83	83	83	
1	92	85	79	78	72	67	64	60	56	
2	81	71	63	65	57	51	53	47	42	
3	73	61	51	55	47	40	45	38	33	
4	66	53	43	48	39	32	39	32	26	
5	60	46	36	42	33	27	34	27	22	
6	55	41	31	37	29	23	30	23	18	
7	50	36	27	33	25	19	27	20	16	
8	47	33	24	30	22	17	24	18	13	
9	43	30	21	27	20	14	22	16	12	
10	40	27	19	25	18	13	20	14	10	

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	53	3.0	3.0
0° - 40°	111	6.2	6.2
0° - 60°	328	18.4	18.4
0° - 90°	881	49.4	49.4
90° - 120°	562	31.5	31.5
90° - 130°	694	38.9	38.9
90° - 150°	852	47.8	47.8
90° - 180°	902	50.6	50.6
0° - 180°	1783	100.0	100.0

Efficiency: 100.0%

Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications on this sheet are based on the most current available data and are subject to change without notice.