KIMLIGHTING®

VRB1C LED Round Bollard

Single Function, Vandal-Resistant, Concrete Shaft

revision 4/30/21 • kl_vrb1cled_spec.pdf

Type:
Job:
Catalog number:

VRB1C / / / /
Fixture Electrical Module Top Cap Finish Concrete Shaft Finish Option
See page 2

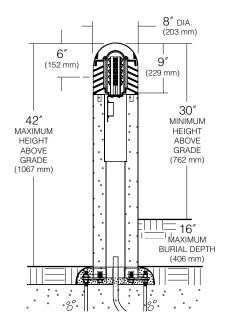
Date:
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Specifications

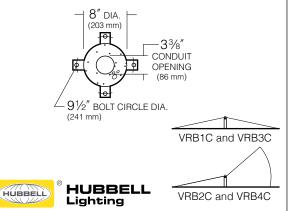
VRB-LED Models 10 - 20 Diodes

VRB1C - Single Function Luminaire (Concrete Shaft)

Maximum weight: 115 lb



BASE PLAN VRB CONCRETE SHAFT



Domed Top Cap: One-piece die-cast aluminum secured to louvers by concealed allen screws in keyhole slots. For relamping access, allen screws shall not require complete removal.

Louvers: Aluminum die-cast with vertical support ribs at 90° intervals. Horizontal louver blades shall have a 1 3/4" depth, a 65° upward pitch and provide light source cutoff above horizontal. Louver assembly shall be secured to shaft by four internal tie rods.

Lamp Enclosure: One-piece tempered molded glass with internal flutes and full gasketing at bottom edge.

Socket: Porcelain medium base socket rated 4KV for HID and incandescent. Plastic socket for Fluorescent.

Fixture Head: Allows flow-through ventilation around and above the lamp enclosure.

Electronic Module: All electrical components are either UL or ETL recognized, mounted on a single plate and factory prewired with quick disconnect plugs. Driver is rated for -40°F starting and has a 0-10V dimming interface for multi-level illumination options.

Optical Module: Each LED equipped with a directional optic for maximum beam angle projecting through louver stack spacings. LED boards to be mounted to an anodized inter-locking heat sink extrusion. (Type I) two 5-LED boards for a total of 10-LED. (Type III) three 5-LED boards for a total of 15-LED. (Type V) four 5-LED boards for a total of 20-LED. Available in 580nm Amber, 3000K, 4200K and 5100K color temperatures.

Anchor Bolts: Four 3/8" x 10" + 2" zinc plated L-hooks, each with two nuts, washers and a rigid pressed board template.

Material: Cement shall conform to current specifications for "Portland Cement." ASTM C150, Type I or II. Aggregates shall meet current requirements of "Specifications for Concrete Aggregates," ASTM C33. Water shall be clean and free from deleterious amounts of silt, oil, acids, alkalies or organic materials. Wire for reinforcement shall conform to ASTM A185. Steel for lugs and plates shall conform to ASTM A36, or A283 grade D.

Surface: Medium sand-blasted with anti-graffiti sealer. Available colors are Charcoal, Brown, Natural Gray or White, integral in concrete mix.

Cure and Strength: Allows for completion of the hydration process, and result in a 28 day compressive strength of not less than 4,500 psi.

Manufacture: Fiberglass molds used to insure uniform parts. Mold parting lines may be slightly visible in finished parts.

Anchorage: Four steel mounting tabs for installation on four K" x 10" + 2" zinc electroplated L-hook anchor bolts. Each anchor bolt is supplied with two nuts, two washers, and a rigid pressed board template.

Shipment: Palletized with adequate hold-downs to prevent load movement in transit.

Finish: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat finish. Standard colors include (BL) Black, (DB) Dark Bronze, (WH) White, (PS) Platinum Silver, (SG) Stealth Gray, (LG) Light Gray, and (CC) Custom Color (Include RAL#).

Listed to: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARRA.

Warranty: For full warranty see http://www.hubbelllighting.com/resources/warranty.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

KIM LIGHTING RESERVES THE RIGHT TO CHANGE SPECIFICATIONS WITHOUT NOTICE.

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Standard and Optional Features

Is that if I				
Fixture	Cat. No. VRB1C Single Function, Concrete Shaft, Domed Top			
Electrical Module LED = Light Emitting Diode	Cat. Nos. for LED Electrical Modul	es available:		
	xL	xK	UV	
	Source	Color Tomporoturo	Vallage	
	Source: ☐ 10L= 10 LED	Color Temperature: ☐ 2K = 580nm - Ambe ☐ 3K = 3000K ☐ 4K = 4200K ☐ 5K = 5100K		
Finish	Top Cap Color: Cat. No.:	Cat. No.: Color:		
TGIC thermoset polyester	BLS Black Gloss Smooth	☐ LGT Light Gr	ey Matte Textured	
powder coat paint applied over a titanated tirconium	☐ BLT Black Matte Textured	_	n Silver Gloss Smooth	
conversion coating on fixture	☐ DBS Dark Bronze Gloss Smooth		reen Matte Textured	
top cap. Concrete shaft surface color is	DBT Dark Bronze Matte Textured		lloss Smooth	
integral in concrete mix. Available in any combination	☐ GTT Graphic Matte Textured ☐ LGS Light Grey Gloss Smooth	☐ WHT White M☐ CC Custom	tatte Textured Color	
of paint and concrete finshes listed at right.	Concrete Shaft BR-C Brown	☐ NG-C Natural	Cray	
O	☐ CH-C Charcoal	☐ NG-C Natural☐ WH-C White	Gray	
	NOTE: Black and Dark Bronze colors will produce slightly less louver brightness than Light Gray or White.			
	¹ Custom colors subject to additional charges, minimum quantities and extended lead times. Available on fixture head only. Consult representative. Custom color description:			
Battery Back-up Cat. No. BM No Option	Internal battery pack provides 90 minutes of supplemental light at 50% of initial lamp lumens.			
0-10V Dimming Interface	Driver has a 0-10V dimming interfaction range of 10-100%. Is compatible systems. Note: Not compatible wit dimmers. Controls compatible via dimming lead.	with most control h current sourcing	Standard Input Black (+) White (-) Green (GND) Gray Dimming Lead (-) Purple Dimming Lead (+) Housing White (-) Fixture A Gray Dimming Lead (-) Purple Dimming Lead (+)	



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Lumen Data

Spectroradiometric					
	3000K Average	4200K Average	5100K Average		
Correlated Color Temp. CCT (K)	2800K - 3175K	3800K - 4600K	4600K - 5600K		
Color Rendering Index (CRI)	≥75	≥70	≥65		
Power Factor	>.90	>.90	>.90		

Projected Lumen Maintenance				
mA	50,000 hrs	100,000 hrs		
350mA	N/A	N/A		

Based on 20LED version.

Electrical Drive Current - @350mA						
	Type 1		Type 3		Type 5	
Volts - AC	Amps - AC	System Watts	Amps - AC	System Watts	Amps - AC	System Watts
120	0.11	13	0.16	19	0.21	25
208	0.06	13	0.09	19	0.12	25
240	0.05	13	0.08	19	0.10	25
277	0.05	13	0.07	19	0.09	25

B.U.G. Rating (TM15) in Lumens where B = Backlight, U = Uplight, G = Glare					
Temperature	TYPE 1	TYPE 3	TYPE 5		
3000K	B1 U2 G1	B1 U2 G1	B1 U2 G1		
4200K	B1 U2 G1	B1 U2 G1	B1 U2 G1		
5100K	B1 U2 G1	B1 U2 G1	B1 U2 G1		

Absolute Lumens				
Temperature	TYPE 1	TYPE 3	TYPE 5	
3000K	396	567	811	
4200K	491	703	1005	
5100K	515	739	1057	

LED performance and lumen output continues to improve at a rapid pace. Log onto www.kimlighting.com to download the most current photometric files from Kim Lighting's IES File Library. For custom optics and color temperature configurations, contact factory.