

VRB1 LED Round Bollard

Single Function, Vandal-Resistant, Aluminum Shaft

revision 8/7/14 • kl_vrb1led_spec.pdf

Type: Approvals: Job:

Catalog number:

VRB1 / / /
Fixture Electrical Module Luminaire Finish Option (includes top cap and shaft)

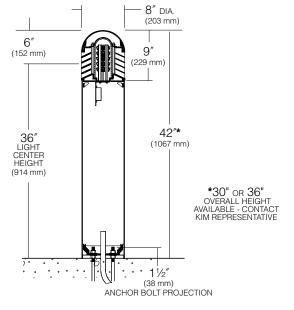
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Specifications

VRB-LED Models 10 - 20 Diodes

VRB1- Single Function Luminaire (Aluminum Shaft) Maximum weight: 30 lb

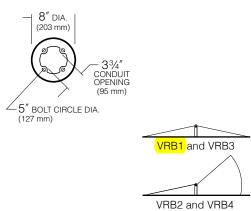


BASE PLAN VRB ALUMINUM SHAFT

HUBBELL

Lighting

HUBBELL



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 1¾″ 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.

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

Shaft: One-piece extruded aluminum, .125" wall thickness with a heavy cast aluminum twist-lock anchor base concealed within the shaft. Concealed set screws shall lock shaft onto the cast anchor base.

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 $\frac{3}{2}$ x 10'' + 2'' zinc plated L-hooks, each with two nuts, washers and a rigid pressed board template.

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 RAI #).

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: Kim Lighting warrants Bollard LED products sold by Kim Lighting to be free from defects in material and workmanship for (i) a period of five (5) years for metal parts, (ii) a period of five (5) years for exterior housing paint finish(s), (iii) a period of five (5) years for LED Light Engines and, (iv) a period of five (5) years for LED power components (driver, surge protector and LifeShield® device), from the date of sale of such goods to the buyer as specified in Kim Lighting shipment documents for each product.

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

Fixture	Cat. No. VRB1 Single Function, Aluminum Shaft, Domed Top				
Electrical Module LED = Light Emitting Diode	Cat. Nos. for LED Electrical Modules available: XL				
Finish TGIC thermoset polyester bowder coat paint applied over a titanated zirconium conversion coating on fixture and shaft.	Color: Black Dark Bronze Light Gray Stealth Gray Platinum Silver White Custom Color Cat. No.: BL DB LG SG PS WH CC NOTE: Black and Dark Bronze colors will produce slightly less louver brightness than Lig Gray or White. ¹ Custom colors subject to additional charges, minimum quantities and extended lead time Consult representative. Custom color description:				
Battery Back-up Cat. No.	Internal battery pack provides 90 minutes of supplemental light at 50% of initial lamp lumens. battery back-u				
Optional Duplex Receptacle Cat. No. DR DR-GFI No Option	Mounted 18" from bottom of shaft, in a cast aluminum box that is internally welded and sealed with a gasketed While-In-Use cover with locking tab. Painted to match bollard. DR weather proof duplex receptacle rated 20A, 125V. DR-GFI weather proof duplex receptacle with ground fault circuit interrupter rated 20A, 125V.				
0-10V Dimming Interface	Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems including Hubbell Building Automation wiHUBB APPROVED ANTV, Lutron Nova NFTV and NTFTV. Note: Not compatible with current sourcing dimmers. Controls compatible via Gray and Purple dimming lead. Standard Input Black (+) White (-) Green (GND) Gray Dimming Lead (-) Purple Dimming Lead (-) Purple Dimming Lead (+) ← 30 mA Max				



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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						
	Туј	pe 1	Тур	ne 3	Тур	e 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	<mark>567</mark>	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.