### **KIM**LIGHTING®

#### **VRB3 LED** Round Bollard

Single Function, Vandal-Resistant, Aluminum Shaft

revision 3/31/21 • kl\_vrb3led\_spec.pdf

Type:
Job:
Catalog number:

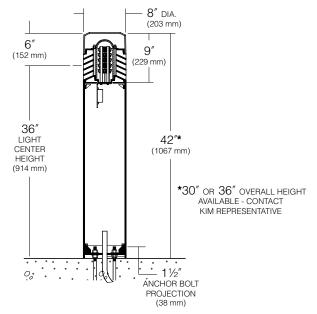
VRB3 / / /
Fixture Electrical Module Luminaire Finish Options (includes top cap and shaft)
See page 2

Date: Page: 1 of 4

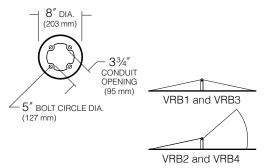
#### **Specifications**

**VRB-LED** Models 10 - 20 Diodes

**VRB3 -** Single Function Luminaire (Aluminum Shaft) Maximum weight: 30 lb



#### BASE PLAN VRB ALUMINUM SHAFT





**Flat Top Cap:** One-piece sand-cast 3/16" minimum thickness, 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 1L" depth, a 65° upward pitch and provide light source cutoff above horizontal. Louver assembly shall be secured to shaft by four internal stainless steel 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 3/8" 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.

**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 LightinFor full warranty see <a href="http://www.hubbelllighting.com/resources/warranty">http://www.hubbelllighting.com/resources/warranty</a>.

**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.



# VRB3 LED Round Bollard

Single Function, Vandal-Resistant, Aluminum Shaft

revision 3/30/21 • kl\_vrb3led\_spec.pdf

Type:	
Job:	Page: 2 of 4



# **Standard and Optional Features**

Fixture	Cat. No. <b>VRB3</b> Single Function, Aluminum Shaft, Flat Top					
Electrical Module LED = Light Emitting Diode	Cat. Nos. for LED Electrical Modules available:    XL					
Finish FGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating on ixture and shaft.	Gray or W  Custom of	Black Gloss Smooth Black Matte Textured Dark Bronze Gloss Smooth Dark Bronze Matte Textured Graphic Matte Textured Light Grey Gloss Smooth lack and Dark Bronze colubite.	charges, minim	Platinum S Verde Gree White Glos White Mat Custom Co	te Textured	



# VRB3 LED Round Bollard

Single Function, Vandal-Resistant, Aluminum Shaft

	revi	ision 3/3121 • kl_vrb3led_spec.pc
Type: Job:		Page: 3 of
	Standard and Optional Feature	es
Battery Back-up Cat. No.   BM  No Option	Internal battery pack provides 90 minutes of supple light at 50% of initial lamp lumens.	mental battery back-up
Optional Duplex Receptacle Cat. No. DR DR-GFI No Option	Mounted 18" from bottom of shaft, in a cast aluminum box th with a gasketed While-In-Use cover with locking tab. Painted <b>DR</b> weather proof duplex receptacle rated 20A, 125V. <b>DR-GFI</b> weather proof duplex receptacle with ground fault ci	to match bollard.
0-10V Dimming Interface	Driver has a 0-10V dimming interface with a dimming range of 10-100%. Is compatible with most control systems. 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 (+)  White (-)  Green (GND)



#### **VRB3 LED** Round Bollard

Single Function, Vandal-Resistant, Aluminum Shaft

revision 3/3121 • kl\_vrb3led\_spec.pdf

Type:

Job: Page: 4 of 4



# **Standard and Optional Features**

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						
	Тур	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>B.U.G. Rating</b> (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.