

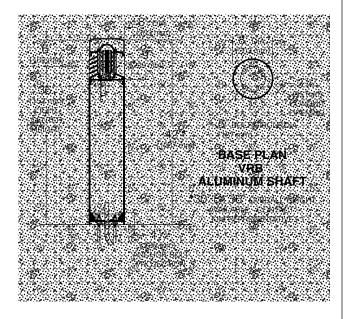
Dual Function, Vandal-Resistant, Aluminum Shaft

revision 3/31/21 • kl_vrb4led_spec.pdf

Type: Job: Catalo	og number:			Approvals:
VRB4	/	1	/	
Fixture	Electrical Module	Luminaire Finish (includes top cap and shaft	Option	
		See page 2		Date:

Specifications





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: Sand-cast with horizontal and vertical blades. Horizontal louvers shall provide 210° of downlighting with source cutoff above horizontal. Vertical louvers shall provide 150° of non-cutoff lighting. Horizontal louver blades shall have a $1\,3/4^\circ$ depth with a 65° upward pitch from horizontal. Vertical louver blades shall have a $1\,3/4^\circ$ depth with a 30° spacing. Louver assembly shall be secured to shaft by four internal tie rod.

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.

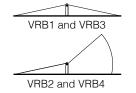
Anchor Bolts: Four 3/8" x 10" + 2" zinc plated L-hooks, each with two nuts, washers and a rigid pressed board template.

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 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.





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	Standard Features	
Fixture	Cat. No. VRB4 Dual Function, Aluminum Shaft, Flat Top	
Electrical Module LED = Light Emitting Diode	Cat. Nos. for LED Electrical Modules available: xL xK Source: Color Temperature:	UV Voltage:

		XL	xK		
		Source: ☐ 10L= 10 LED (IES Type I) ☐ 15L= 15 LED (IES Type III) ☐ 20L= 20 LED (IES Type V)	Color Temp □ 2K = 580n □ 3K = 3000 □ 4K = 4200 □ 5K = 5100	m - Amber K K	Voltage: ☐ UV Universal Voltage shall range from 120V-277V
Finish TGIC thermoset polyester powder coat paint on fixture and shaft.	Gray or W 1 Custom	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 color/hite.	l charges, mini	Platinum Sil Verde Greer White Gloss White Matte Custom Col e slightly les	e Textured



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Standard Features

Battery Back-up Cat. No. BM No Option	Internal battery pack provides 90 minutes of supplemental light at 50% of initial lamp lumens. battery back-up			
Optional Duplex Receptacle Cat. No. DR DR-GFI No Option Mounted 18" from bottom of shaft, in a cast aluminum box that is internally w 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				
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 (+) Purple Dimming Lead (+) On 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					
350mA	N/A	N/A			

Based on 20LED version.

Electrical Drive Current - @350mA							
	Type 1 Type 3 Type 5					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	N/A	N/A	B1 U2 G1			
4200K	N/A	N/A	B1 U2 G1			
5100K	N/A	N/A	B1 U3 G1			

Absolute Lumens					
Temperature	TYPE 1	TYPE 3	TYPE 5		
3000K	N/A	N/A	816		
4200K	N/A	N/A	1012		
5100K	N/A	N/A	1063		

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.