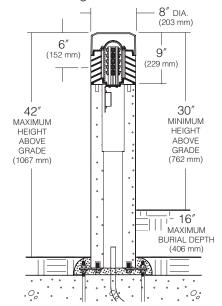
SINGLE FUNCTION, VANDAL-RESISTANT, CONCRETE SHAFT

Type: Job: Catalog	g number:			
VRB3C	/	/	/	/
Fixture	Electrical Module	Top Cap Finish See page 2	Concrete Shaft Finish	Options

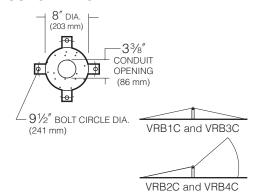
Specifications

VRB-LED Models 10 - 20 Diodes

VRB3C - Single Function Luminaire (Concrete Shaft) Maximum weight: 115 lb



BASE PLAN VRB CONCRETE 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. Stacked horizontal louver blades shall have a 13/4" 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 illlumination 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 1/2 " 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

Finish: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) polyester powdercoat

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.

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





SINGLE FUNCTION, VANDAL-RESISTANT, CONCRETE SHAFT



Standard and Optional Features

Electrical Module	Cat. Nos. for LED Electrical Modules available:					
LED = Light Emitting Diode		xL Source: 10L= 10 LED (IES Type I) 15L= 15 LED (IES Type III) 20L= 20 LED (IES Type V)	xK Color Temp 2K = 580nm 3K = 3000K 4K = 4200K 5K = 5100K		Voltage: UV Universal Voltage shall range from 120V-277V	
Finish TGIC thermoset polyester powder coat paint on fixture top cap. Concrete shaft surface color is integral in concrete mix. Available in any combination of paint and concrete finshes listed at right.	Gray or \ 1 Custom Available	: Color: Black Gloss Smooth Black Matte Textured Dark Bronze Gloss Smooth Dark Bronze Matte Textured Graphic Matte Textured Light Grey Gloss Smooth te Shaft Brown Charcoal Black and Dark Bronze color	charges, minir ult representativ	num quantities	Gloss Smooth atte Textured rooth stured	



SINGLE FUNCTION, VANDAL-RESISTANT, CONCRETE SHAFT



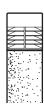
Standard and Optional Features

Battery Back-up Cat. No. EM 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 interface with a dimming range of 10-100%. Is compatible with most control systems. Note: Not compatible with current sourcing dimmers. Controls compatible via Pink and Purple dimming lead.	Standard Input Black (+) White (-) Green (GND) Pink Dimming Lead (-) Purple Dimming Lead (+) Purple Dimming Lead (+)





SINGLE FUNCTION, VANDAL-RESISTANT, CONCRETE SHAFT



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						
	Type 1 Type 3			e 3	Тур	ne 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. For custom optics and color temperature configurations, contact factory.

