

Type:
Job:
Catalog number:

Approvals:

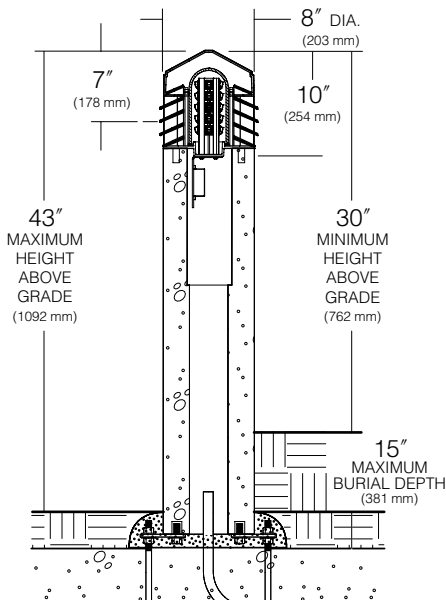
VSB1C /	/
Fixture	Electrical Module Top Cap and Shaft Finish
See page 2	

Date:
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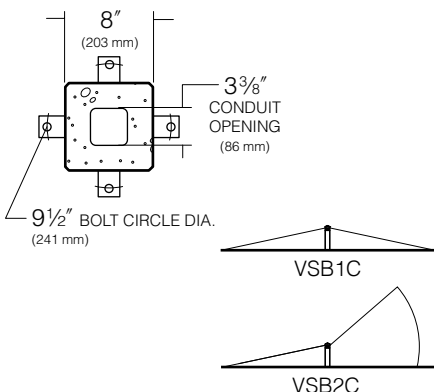
Specifications

VSB Models
10 - 20 Diodes

VSB1C - Single Function Luminaire (Concrete Shaft)
Maximum weight: 120 lb



**BASE PLAN
VSB
CONCRETE SHAFT**



Top Cap: One-piece die-cast, low copper (<0.6% Cu) aluminum $3/16$ " minimum thickness, secured to louvers by concealed stainless steel allen screws in keyhole slots. For relamping access, allen screws shall not require complete removal.

Louvers: One-piece die-cast, low copper (<0.6% Cu) aluminum with vertical support ribs at 90° intervals. Horizontal louver blades shall have a $1\ 3/4$ " depth, and be angled 25° from the horizontal. Louvers shall provide light source cutoff above horizontal. Louver castings shall be secured to shaft by four internal tie rods.

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

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 sing 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, 4000K and 5000K color temperatures.

Anchor Bolts: Four $1/2$ " x 10" x 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, alkalis 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" x 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.

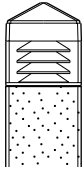
Listed to: UL 1598 Standard for Luminaires - UL 8750 Standard for Safety for Light Emitting Diode (LED) Equipment for use in Lighting Products and CSA C22.2#250.0 Luminaires. RoHS compliant. Meets Buy American provisions within ARRA.

Warranty: For full warranty see <http://www.hubbellighting.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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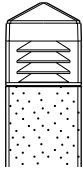
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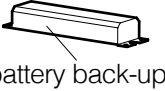

Standard Features

<p>Fixture</p>	<p>Cat. No. VSB1C Single Function, Concrete Shaft, Gabled Top</p>				
<p>Electrical Module LED = Light Emitting Diode</p>	<p>Cat. Nos. for LED Electrical Modules available:</p> <table border="0" style="width: 100%;"> <tr> <td style="text-align: center; vertical-align: top;"> <p>xL</p> <p>Source:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 10L= 10 LED (IES Type I) <input type="checkbox"/> 15L= 15 LED (IES Type III) <input type="checkbox"/> 20L= 20 LED (IES Type V) </td> <td style="text-align: center; vertical-align: top;"> <p>xK</p> <p>Color Temperature:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 2K = 580nm - Amber <input type="checkbox"/> 3K = 3000K <input type="checkbox"/> 4K = 4000K <input type="checkbox"/> 5K = 5000K </td> <td style="text-align: center; vertical-align: top;"> <p>UV</p> <p>Voltage:</p> <ul style="list-style-type: none"> <input type="checkbox"/> UV Universal Voltage shall range from 120V-277V </td> </tr> </table>	<p>xL</p> <p>Source:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 10L= 10 LED (IES Type I) <input type="checkbox"/> 15L= 15 LED (IES Type III) <input type="checkbox"/> 20L= 20 LED (IES Type V) 	<p>xK</p> <p>Color Temperature:</p> <ul style="list-style-type: none"> <input type="checkbox"/> 2K = 580nm - Amber <input type="checkbox"/> 3K = 3000K <input type="checkbox"/> 4K = 4000K <input type="checkbox"/> 5K = 5000K 	<p>UV</p> <p>Voltage:</p> <ul style="list-style-type: none"> <input type="checkbox"/> UV Universal Voltage shall range from 120V-277V 	
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<p>Finish TGIC thermoset polyester powder coat paint applied over a titanated zirconium conversion coating on fixture top cap. Concrete shaft surface color is integral in concrete mix. Available in any combination of paint and concrete finishes listed at right.</p>	<p>Top Cap</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <p>Cat. No.: Color:</p> <ul style="list-style-type: none"> <input type="checkbox"/> BLS Black Gloss Smooth <input type="checkbox"/> BLT Black Matte Textured <input type="checkbox"/> DBS Dark Bronze Gloss Smooth <input type="checkbox"/> DBT Dark Bronze Matte Textured <input type="checkbox"/> GTT Graphic Matte Textured <input type="checkbox"/> LGS Light Grey Gloss Smooth </td> <td style="vertical-align: top;"> <p>Cat. No.: Color:</p> <ul style="list-style-type: none"> <input type="checkbox"/> LGT Light Grey Matte Textured <input type="checkbox"/> PSS Platinum Silver Gloss Smooth <input type="checkbox"/> VGT Verde Green Matte Textured <input type="checkbox"/> WHS White Gloss Smooth <input type="checkbox"/> WHT White Matte Textured <input type="checkbox"/> CC¹ Custom Color </td> </tr> </table> <p>Concrete Shaft</p> <table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <input type="checkbox"/> BR-C Brown <input type="checkbox"/> CH-C Charcoal </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <input type="checkbox"/> NG-C Natural Gray <input type="checkbox"/> WH-C White </td> </tr> </table> <p>NOTE: Black and Dark Bronze colors will produce slightly less louver brightness than Light Gray or White.</p> <p>¹Custom colors subject to additional charges, minimum quantities and extended lead times. Available on fixture head only. Consult representative. Custom color description: _____</p>	<p>Cat. No.: Color:</p> <ul style="list-style-type: none"> <input type="checkbox"/> BLS Black Gloss Smooth <input type="checkbox"/> BLT Black Matte Textured <input type="checkbox"/> DBS Dark Bronze Gloss Smooth <input type="checkbox"/> DBT Dark Bronze Matte Textured <input type="checkbox"/> GTT Graphic Matte Textured <input type="checkbox"/> LGS Light Grey Gloss Smooth 	<p>Cat. No.: Color:</p> <ul style="list-style-type: none"> <input type="checkbox"/> LGT Light Grey Matte Textured <input type="checkbox"/> PSS Platinum Silver Gloss Smooth <input type="checkbox"/> VGT Verde Green Matte Textured <input type="checkbox"/> WHS White Gloss Smooth <input type="checkbox"/> WHT White Matte Textured <input type="checkbox"/> CC¹ Custom Color 	<ul style="list-style-type: none"> <input type="checkbox"/> BR-C Brown <input type="checkbox"/> CH-C Charcoal 	<ul style="list-style-type: none"> <input type="checkbox"/> NG-C Natural Gray <input type="checkbox"/> WH-C White
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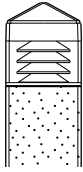
Type:
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Standard Features

<p>Battery Back-up Cat. No. <input type="checkbox"/> EM <input type="checkbox"/> No Option</p>	<p>Internal battery pack provides 90 minutes of supplemental light at 50% of initial lamp lumens.</p>	
<p>0-10V Dimming Interface</p>	<p>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.</p>	

Type:
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Lumen Data

Electrical Drive Current - @350mA						
Volts - AC	Type 1		Type 3		Type 5	
	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 U3 G1	B1 U3 G1
4000K	B1 U2 G1	B1 U3 G1	B1 U3 G1
5000K	B1 U2 G1	B1 U3 G1	B1 U3 G1

Absolute Lumens			
Temperature	TYPE 1	TYPE 3	TYPE 5
3000K	546	784	1121
4000K	560	804	1150
5000K	567	8131	1163

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.