

### FEATURES & SPECIFICATIONS

### INTENDED USE

General illumination for rough service (vandal-resistant) applications. Ideal for areas that require higher levels of protection from physical assault, while providing proper illumination for safety or security.

### CONSTRUCTION

Housing - Constructed from one-piece die-cast aluminum. Three threaded  $1/2^\circ$  NPS plugs allow conduit entry, or the housing can be mounted over the outlet box.

Gasket - One-piece silicone perimeter lens gasket and closed-cell neoprene housing gasket help to seal out moisture and contaminants.

### FINISH

Post-painted after fabrication in dark bronze polyester powder coat. Additional colors available.

### OPTICAL SYSTEM

Lens - Clear prismatic, UV-stabilized, polycarbonate lens, nominal thickness .125" (1/8"). Prism optics provide uniformity with maximum spacing-to-mounting height ratios. Lens secured by either stainless steel tamper-resistant Torx® T-20 or standard stainless steel slotted hex-head screws (four of each included).

Reflector - Horizontal internal reflector (IR) required for wall mounted units.

### **ELECTRICAL SYSTEM**

Ballast - Copper wound and 100% factory tested. Ballast is High Reactance, High Power Factor (35S is Normal Power Factor).

Socket - Porcelain, medium-base, horizontally oriented socket with copper alloy nickel-plated screw shell and center contact.

Lamp - Reduced UV lamp standard in Metal Halide units. Lamp included unless specified L/LP.

### INSTALLATION

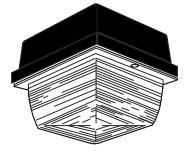
Unit may be ceiling or wall mounted. For maximum vandal-resistance, mount unit to structure through four mounting holes provided.

### LISTING

UL Listed (standard). CSA Certified (see Options). NOM Certified (see Options). UL listed for wet locations for wall mount or covered ceiling applications.

Specifications subject to change without notice.

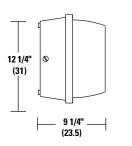
### Catalog Number Notes Type

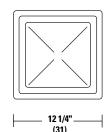


**Rough Service Fixture** 

VR4C

H.I.D.
Ceiling/Wall Mounted



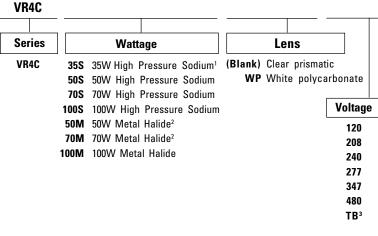


All dimensions are inches (centimeters).

### ORDERING INFORMATION

Choose the boldface catalog nomenclature that best suits your needs and write it on the appropriate line. Order accessories as separate catalog number.

Example: VR4C 100M 120 QRS LPI



**Options** Lamp<sup>8</sup> Shipped installed in fixture Lamp included DF Double fuse (208, 240, 480)4 (standard) L/LP Less Lamp EC Emergency circuit (Incandescent -25W Max.)5 IR Internal reflector<sup>6</sup> NL Night-light (Incandescent - 7W Max.)1,5 PE Photoelectric cell (120V, 208V, 240V, QRS Quartz restrike system2,5 QRSTD Quartz restrike system time delay2,5 SF Single fuse (120, 277, 347)4 CSA CSA Certified

### Shipped separately

FV4C Steel vertical external visor

### NOTES:

- 1 120V only.
- 2 Not available in 480V.
- 3 Multi-tap ballast (120V, 208V, 240V, 277V).
- 4 Must specify voltage. Not available with TB.
- 5 Lamp by others.
- 7 For aluminum visor add  $\boldsymbol{AL}$  (Example:  $\boldsymbol{FV4C}$   $\boldsymbol{AL}).$
- 8 Lamp included unless specified L/LP.

Order as separate catalog numbers.

RK1 T20BIT Hex-base driver bit, Torx TX20, for tamper-

resistant screws with center reject pin.

RK1 T20DRV Torx TX20 screwdriver for use with tamper-

resistant screws with center reject pin.

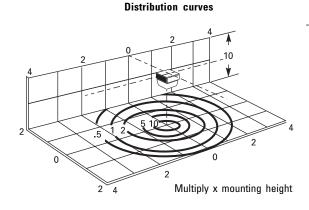
### VR4C Rough Service Ceiling-Mounted Fixture, H.I.D.

VR4C 175M, 175W, Metal Halide lamp, 14,000 rated lumens. Test number 1194053101.

**Distribution curves** 

# 180° 165° 150° 135° 120° 105° 95° 95° 1300 1300 1950 45°

Output data				
Zone	Lumens	%lamp		
0°–30°	1063	7		
0°–90°	6689	47		
90°–180°	1505	10		
0°-180°	8194	58		



Distribution data				
	0°	45°	90°	
0° 5° 15° 25° 45° 55° 65° 75° 85° 90°	1369 1296 1167 1019 894 864 924 935 803 622 641	1369 1351 1350 1148 822 898 1048 1168 1209 1090 1161	1369 1418 1481 1152 1076 1201 1135 1032 935 695 669	

Coefficient of utilization							
ρf			20%				
ρc	80	1%	50°	%	30	)%	
ρw	50%	30%	50%	30%	50%	30%	0%
1 2 3	53 45 33 32 26 23 21	50 39 32 27 23 20 18 16	46 38 33 29 25 23 20	43 35 28 24	42 35 30 26 23 20	40 32 26 22	33 24 19
2 3 4 5 6 7	33 29	27 23	29 25	24 21 18	26 23	22 19 16	16 13
7 8 9	23 21	18 16	20 18	16 14	19 17	15 13	9 8
9 10	19 18	14 13	17 16	13 11	16 14	12 11	7 6

Tested to current IES and NEMA standards under stabilized laboratory conditions. Various operating factors can cause differences between laboratory data and actual field measurements. Dimensions and specifications on this sheet are based on the most current available data and are subject to change without notice.

### **Mounting Height Correction Factor**

To obtain the footcandle value for different mounting heights multiply the footcandle value by the above correction factor.

МН	7.5	15'	20'
10'	1.77	0.44	0.25



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# **LITHONIA ROUGH SERVICE**

408

## VR4



### Intended Use

General illumination for rough service (vandalresistant) applications. Ideal for interior or exterior applications where safety and security are a concern.

### **Features**

Lens - Clear prismatic, UV-stabilized polycarbonate, nominal thickness .125". Prism optics provide uniformity with maximum spacing-to-mounting height ratios. Torx® T-20 and standard stainless steel slotted hex-head screw (one each included).

Backplate - Heavy-duty, 16-gauge cold-rolled steel. White polyester powder coat for high reflectance, durability, and corrosion resistance. Closed-cell neoprene gasket seals out moisture and contaminants.

Ballast - VR3: electromagnetic, NPF, with starting temperature of 0°F for 7W and 25°F for 9W.

VR4: Class P, electronic, HPF multi-volt,

THD<10%, starting temperature 0°F. Exceptions are 7TT, 9TT, 13TT, 22DTT, 28DTT. Electromagnetic, NPF, 120V only.

Socket - Compact fluorescent: thermoplastic socket. Incandescent: unglazed porcelain snap-in socket with aluminum screw shell. Spring-loaded steel clips hold socket tightly in place. VR3 provided with one socket and VR4 provided with two sockets. SM1 single socket option available.

Lamps – 35K compact fluorescent lamp(s) included unless L/LP is specified. Incandescent lamp(s) not included.

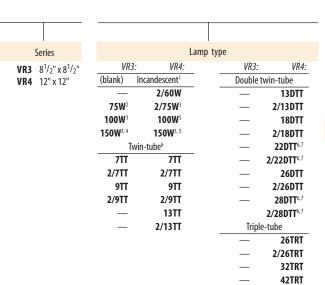
Installation: Keyhole slots simplify wall or ceiling installation. For maximum vandal resistance, use fourhole mounting pattern.

### Listings

UL Listed (standard). CSA Certified (see Options). UL listed for 25°C ambient and wet locations for wall mount or in covered ceiling applications.

Example: VR4 26DTT MVOLT EC LPI

### Ordering Information



Voltage 120 277 347 MVOI T Lens type Clear prismatic (blank) White polycarbonate

**Options** AL Aluminum backplate EC Emergency circuit (Incandescent, 25W max.)9 **Dual switching** Four screws per unit 45 Internal fast-blow fusing 10,11 Internal slow-blow fusing 10,11 GMF

Internal reflector IR NL Night-light (Incandescent, 7W max.)6,9 Single medium-base incandescent socket<sup>5</sup> Low-energy diode extended lamp life12 XT CSA Certified For other options and accessories, see below and pages

Lamps<sup>13</sup> Lamp(s) included (standard)

Less lamp(s)

Accessories (Order separately)

**RK1 T20BIT** Torx TX20 hex-base driver bit for tamper-resistant screws with center reject pin.

RK1 T20DRV Torx TX20 screwdriver for tamper-resistant screws with center reject pin

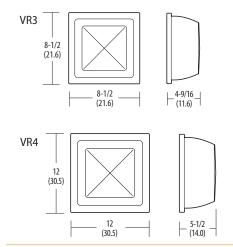
For extension boxes and external visors, see page 418.

418-419

Lamp

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- 1 Leave lamp type information blank.
- 2 Maximum ceiling-mount wattage
- 3 Wall-mount only.
- Available for base-up wall mounting using an A21 lamp.
- Single socket Incandescent on wall: order SM1 option
- 2-pin 15mm lamp
- .  $\label{lem:multi-volt} {\color{blue} Multi-volt electronic ballast (for DTT and TRT lamps) capable of operating on any}}$ line voltage between 120V and 277V.
- 9 Maximum wattage lamp provided.
- 10 Available for compact fluorescent units only.
- 11 Must specify voltage. Not available with MVOLT.
- 12 Available for Incandescent units only
- B Compact fluorescent lamp(s) included unless L/LP is specified.



Dimensions are shown in inches (centimeters) unless otherwise noted.

Wattage Incandescent 60W 5.80 A19IF 75W 5.50 A19IF 100W 5.50 A21IF 150W 5.50 A21IF Fluorescent Electromagnetic, NPF 5.00 7W G23 5.80 G23 9W Electromagnetic 13W Electromagnetic, NPF GX23 5.45 Flectronic HPF 13W 5.45 G24q-1 Electronic, HPF 18W 5.60 G24q-2 22W Electromagnetic, HPF 5.60 GX32d-2 26W Electronic, HPF 4.65 G/GX24q-3 28W Electromagnetic, HPF 5.75 GX32d-3 32W Electronic, HPF 6.00 GX24q-3 GX24q-4 42W Electronic, HPF

Lamp/Fixture Data

Ballast

Weight

lhs.

www.lithonia.com, keywords: VR3 and VR4