

CATALOG #	TYPE
JOB NAME	WATTAGE VOLTAGE

12" 1 Triple 70 WATT MAXIMUM

VSR-12021

## Vandal Resistant Shallow & Efficient Surface Cylinder

### Specifications

#### Lamp

- Designed for one 4-pin triple/four tube amalgam compact fluorescent lamp:  
70W triple/four tube.

#### Ballast: Multi-Voltage

- Installed electronic high power factor, thermally protected. For lower wattages: Option -43.
- 120-277 multi-volt; 50-60 Hz. THD <10%.
- ClickQuick connectors for easy service.
- Cold weather -22°F (-30°C).
- End of lamp life protection circuit. RFI filter.
- Internally fused. Also see Option -FS.

#### Reflector

- Specular Alzak® aluminum.

#### Trim / Lens Assembly

- Vandal resistant smooth white seamless tapered aluminum self-flanged flare trim or see -OG.
- Flush center pin tamperproof hex screws and captive nuts secure trim to housing.
- Prismatic 3/16" high strength acrylic above 1/4" clear polycarbonate.

- Continuous ring secures lens to trim.
- Tamperproof tool included.

#### Aluminum Housing

- Seamless white acrylic enameled. Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- No visible cylinder hardware.
- Lightweight: Minimizes ceiling load.
- Cool operation: Extends component life.

#### Installation

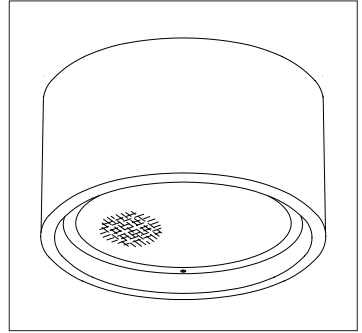
- Center point mounting for snug fit to ceiling. Mounting hardware included.
- 2" collar for surface J-box mount. (Option -80)
- Pendant or wall bracket mount available. (See Options -PM, -WB)
- Indoor or outdoor for covered ceiling use. (See Option -89)

#### UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings. (See Option -89)

#### Three Year Limited Warranty

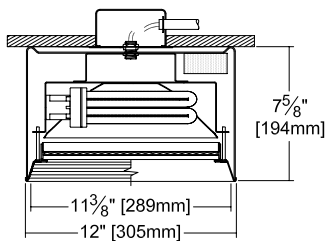
- Complete standard fixture and ballast.



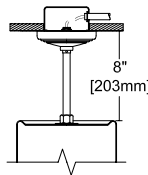
**Exceptional  
Energy  
Efficiency**

### Performance at a Glance

VSR-12021



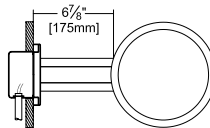
Option -OG Also Shown



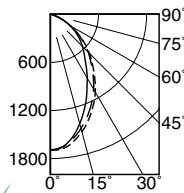
Representative Views:

(Above) With optional pendant mount (Option -PM)

(Below) With optional wall bracket (Option -WB)



VSR-12021 (1 Triple 70W)



Cone of Light\*

Dist.	FC	Dia.
6	47.1	5.7
8	26.5	7.6
10	17.0	9.5
12	11.8	11.4
14	8.6	13.3
16	6.6	15.2



EFFICIENCY: 51.7%  
ITL TEST #59144

--- 0° SC 1.0  
--- 90° SC 0.9  
--- 180° SC 1.0  
LER=32.0 AEC=\$7.51

#### Cone of Light Key

- Ft. Distance from fixture
- FC Footcandles at nadir (0°)
- Dia. Circle of light at 50% of FC

\* Dia. (in ft.) shown is where FC value is half the FC at nadir.

## THE KIRLIN COMPANY

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(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • [www.kirlinlighting.com](http://www.kirlinlighting.com)

**ENERGY EFFICIENT VANDAL RESISTANT  
& MAXIMUM SECURITY LIGHTING**

MAXIMUM WATTAGE

1 Triple 70

CATALOG NUMBER

**VSR-12021**

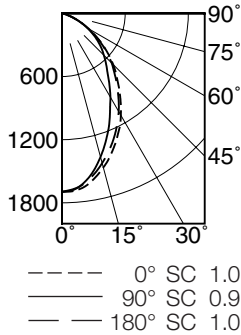
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

## Detailed Photometry - Installed Fixture

Photometry from I.T.L., Boulder, CO

## VSR-12021 (1 Triple 70)



EFFICIENCY : 51.7%

CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	1695	1695	1695	1695	1695
5	1683	1678	1665	1662	1662
15	1516	1469	1412	1440	1473
25	1260	1173	1075	1142	1217
35	963	870	775	847	928
45	687	615	562	605	667
55	412	379	377	379	411
65	183	174	181	172	185
75	39	39	38	38	38
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
RC	80				50		
RW	70	50	30	10	50	30	10
1	58	56	54	52	52	51	50
2	53	50	47	45	47	45	43
3	49	45	41	39	43	40	38
4	46	41	37	34	39	36	33
5	43	37	33	30	35	32	29
6	40	34	30	27	32	29	26
7	37	31	27	24	30	26	24
8	35	29	25	22	28	24	22
9	33	26	23	20	26	22	20
10	31	25	21	18	24	21	18

ITL TEST #59144 \*LER=32.0 •AEC=\$7.51

## \* LER = Luminaire Efficiency Rating

$$\text{LER} = \frac{\text{Luminaire Effic.} \times \text{Total Lamp Lumens} \times \text{Ballast Factor}}{\text{Input Watts}}$$
• AEC = Annual Energy Cost per 1000 lumens  
(based on 3000 hours use @ \$0.08 KWH).

## Options

## Ballast, Wattage and Voltage

- 39 Installed electronic dimming ballast. Indoor use. 10°C (50°F) minimum start. Specify wattage, voltage and brand. Not available with Option -75, -CR or -HR.
- 43 Lower wattage: for 4-pin 57W or 42/32/26W triple or 26W quad (multi-wattage/voltage). Specify wattage.
- 97 Specify other voltage. Consult factory.
- 98 347 volt, 50/60 Hz. input. Consult factory.

Emergency Ballast<sup>1</sup>

- Remote (field mounted) ballast, test switch and indicator light. Suitable for damp locations from 0° to 50°C (32° to 122°F) or with Cold Weather version (see -CR) -20° to 55°C (-4° to 131°F).
- 75 Remote 1-lamp EM ballast.
- CR Remote cold weather (-20° to 55°C) 1-lamp EM ballast.
- HR<sup>1</sup> Remote higher lumen (up to 1250) 1-lamp EM ballast. 13-42W only.

## Lenses and Trims

- 46 Gasket between trim and lens.
- 94 Custom color/finish. Specify. Consult factory.
- CF High temperature color filter. Specify color.
- OG Black OptiGroove flare trim. (CP x .95)
- UV UV filter. Consult factory.

## Luminaire (Housing) Finishes

- 35 Natural aluminum acrylic enamel.
- 37 Dark Bronze acrylic enamel.
- 38 Black acrylic enamel.
- 94 Custom color/finish. Specify. Consult factory.

## Mounting

- 54 Safety cable from fixture through pendant stem and 12" beyond. Use with -PM.
- 80 2" collar for mounting beneath surface outlet box. 1/2" T.S. KO's.
- 87 Custom pendant length. Specify length. Use with Option -PM.

- 88 Swivel canopy for sloped ceilings up to 40°. Use with Option -PM.
- 89 Sealed top WeatherCap. Must add to Options -PM and -WB for wet label listing.
- PM Pendant mount. 8" stem or see Option -87. Must add Option -89 for wet label listing.
- WB Wall bracket mount. Must add Option -89 for wet label listing.

## Other

- 99 Special modification. Consult factory.
- FS Additional in-line fuse. Not available with Option -98(347V).
- LE With 4-pin electronic lamp. 3500°K standard. 82 CRI and 12,000 hour life. Specify wattage, style and color temperature.

<sup>1</sup> Visit [www.kirlinlighting.com](http://www.kirlinlighting.com) for most current performance/specifications.

## SUBMITTAL DATA

## APPROVAL STAMP

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER