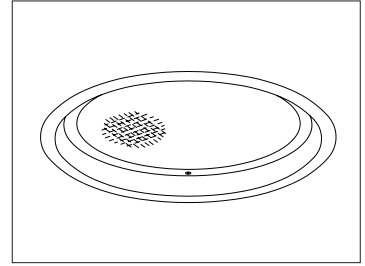


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

10" 2 Triple 32 WATT MAXIMUM

VRR-10020

Vandal Resistant Concrete Pour with Shallow Depth



Specifications

Lamp

- Designed for 4-pin triple/four tube amalgam or quad compact fluorescent lamps: two 32/26W triple or 26W quad.

Ballast: Multi-Wattage/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.
- Single circuit wiring or see Option -84.
- Cold weather -22°F (-30°C).
- End of lamp life protection circuit. RFI filter.
- Internally fused. Also see Options -FS, -FD.

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.
- For gasketing, see Options -45 and -46.
- Tamperproof tool included.

Concrete Pour Housing

- 16 GA. galvanized steel with black enamel finish.
- Fully gasketed.
- Entire luminaire serviced through aperture.
- 2" collar promotes concrete flow.

Outlet Box

- Prewired 14 GA (NEC) galvanized steel, UL listed. 1/2" and 3/4" knockouts.

Installation

- Recesses indoor or outdoor in poured concrete ceilings.

UL, C-UL (Canada) Listings

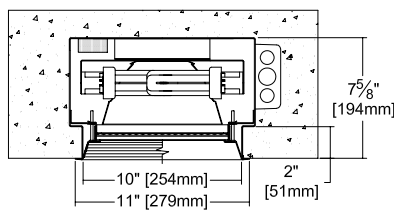
- For use in poured concrete.
- Through-branch conductors (6 #12 AWG 90°C).

Three Year Limited Warranty

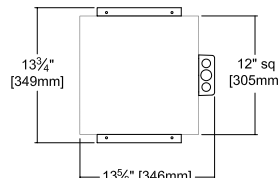
- Complete standard fixture and ballast.

Performance at a Glance

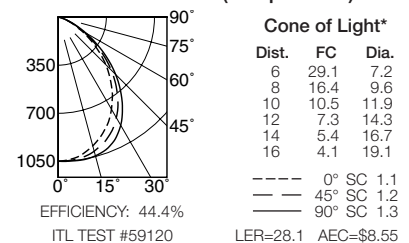
VRR-10020



Option -OG Also Shown



VRR-10020 (2 Triple 32W)



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

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.kirlinlighting.com

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

MAXIMUM WATTAGE

2 Triple 32

CATALOG NUMBER

VRR-10020

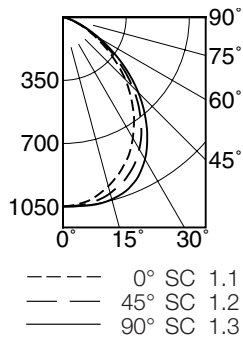
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

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

VRR-10020 (2 Triple 32)



EFFICIENCY : 44.4%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1049	1049	1049	1049	1049
5	1038	1041	1046	1050	1051
15	970	983	1010	1035	1045
25	854	872	918	962	980
35	687	708	757	800	814
45	489	507	546	578	590
55	280	290	312	333	342
65	117	120	130	138	140
75	23	24	25	26	27
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	49	48	46	45	45	44	43
2	46	43	40	38	41	39	37
3	42	38	35	33	37	34	32
4	39	35	31	29	33	30	28
5	36	31	28	25	30	27	25
6	34	29	25	22	27	24	22
7	32	26	23	20	25	22	20
8	29	24	21	18	23	20	18
9	28	22	19	16	21	18	16
10	26	20	17	15	20	17	15

ITL TEST #59120 *LER=28.1 •AEC=\$8.55

* 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.
- 43 Lower wattage. 4-pin 2x18W triple or 2x18-13W quad. Specify wattage.
- 84 Wired for two circuits. Also see -FD.
- 97 Specify other voltage. Consult factory.
- 98 347 volt, 50/60 Hz. input. Consult factory.

Emergency Ballast - Specify Voltage¹

Internal (factory installed) 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 -CE) -20° to 55°C (-4° to 131°F).

- 73 Internal 1-lamp EM ballast.
- CE Internal cold weather (-20° to 55°C) 1-lamp EM ballast. Specify voltage.
- HE¹ Internal higher lumen (up to 1250) 1-lamp EM ballast. 13-42W only.

Lenses and Trims

- 32 White oversize trim ring. Specify O.D.
- 45 Gasket between ceiling and trim flange.
- 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.

Other

- 99 Special modification. Consult factory.
- FD Two additional in-line fuses. One per ballast. Use with Option -84. Not available with Option -98(347V).
- FS Additional in-line fuse. Not available with Option -98(347V).
- LE With 4-pin electronic lamp(s). 3500°K standard. 82 CRI and 12,000 hour life. Specify wattage, style and color temperature.

¹ Visit www.kirlinlighting.com for most current performance / specifications.

SUBMITTAL DATA

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

APPROVAL STAMP