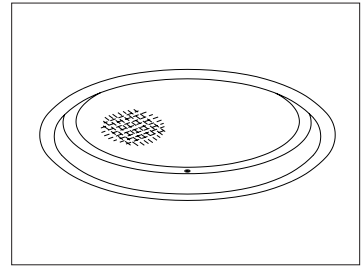


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

12" INDUCTION 85 WATT MAXIMUM VRR-12060

Vandal Resistant Induction 5000°K* 80+ CRI with 100,000 Lamp Life



Specifications

Bulb (Included)

- One vertical induction bulb: 85W (maximum).
- See Option -43 for lower wattage: 55 watt.
- Electrode-less induction bulb with power coupler.
- 100,000 hour system life, 6000 initial lumens.
- Indoor or outdoor use. -30°F rated.
- 5000°K standard. For 3000° or 4000°K bulb instead, see Options -LT or -LW.

Ballast

- Electronic high frequency ballast.
- 120 volt standard. For 277 volt, add Option -58.
- For 347 volt, add Option -98.
- For other input voltages, see Option -97.

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.
- See Options for flare trim colors available.

Aluminum Housing

- Acrylic enameled. Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Lightweight: Minimizes ceiling load.
- Cool operation: Extends component life.
- Entire luminaire serviced through aperture.
- Built-in plaster frame.

Outlet Box and Thermal Protection

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

Installation

- 27" galvanized hanger bars with adjustable mounting brackets (2) supplied.
- Recesses indoor or outdoor in covered locations.

UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Through-branch conductors (6 #12 AWG 90°C).

Three Year Limited Warranty

- Complete standard fixture and ballast.

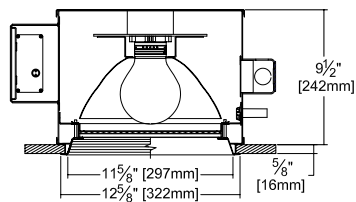
Architectural Design
with
Vandal Resistance



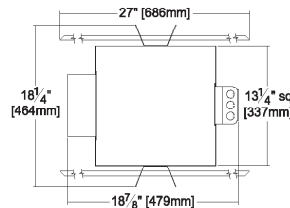
Exceptional
Energy
Efficiency

Performance at a Glance

VRR-12060

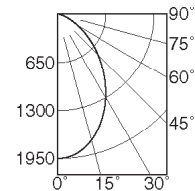


Option -OG Also Shown



Ceiling Cut-out 12 1/4" Dia.

VRR-12060 (85W)



Cone of Light*

Dist.	FC	Dia.
6	54.1	6.2
8	30.5	8.3
10	19.5	10.3
12	13.5	12.4
14	9.9	14.5
16	7.6	16.5

SC = 1.0

ITL TEST #59130
LER=41.8 AEC=\$5.74



EFFICIENCY: 55.6%

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.

* For 3000°K or 4000°K see Options -LT or -LW.

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

85

CATALOG NUMBER

VRR-12060

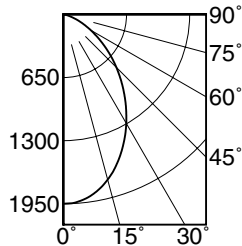
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

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

VRR-12060 (85 Watt Maximum)



SC = 1.0

EFFICIENCY : 55.6%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	1949	1949	1949	1949	1949
5	1929	1929	1929	1929	1929
15	1761	1761	1761	1761	1761
25	1466	1466	1466	1466	1466
35	1117	1117	1117	1117	1117
45	772	772	772	772	772
55	458	458	458	458	458
65	214	214	214	214	214
75	56	56	56	56	56
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
	80				50		
RC	70	50	30	10	50	30	10
RW	70	50	30	10	50	30	10
1	62	60	58	56	56	55	54
2	57	54	51	48	51	48	46
3	53	48	45	42	46	43	40
4	49	44	39	36	42	38	36
5	46	40	35	32	38	34	32
6	43	36	32	29	35	31	28
7	40	33	29	26	32	28	26
8	37	31	26	23	30	26	23
9	35	28	24	21	27	24	21
10	33	26	22	20	26	22	20

ITL TEST #59130 *LER=41.8 •AEC=\$5.74

BULB WATTS	INITIAL LUMENS	LUMEN FACTOR	SYSTEM EFFICACY
85W	5950	1.00	67 LPW
55W	3575	0.60	62 LPW

* LER = Luminaire Efficiency Rating

$$LER = \frac{\text{Luminaire Effic.} \times \text{Total Lamp Lumens} \times \text{Ballast Factor}}{\text{Input Watts}}$$

• AEC = Annual Energy Cost per 1000 lumens (based on 3000 hours use @ \$0.08 KWH).

Options

Ballast, Wattage and Voltage

- 43 Lower wattage: 55W. Specify wattage and voltage.
- 58 277 volt 60 Hz. ballast instead.
- 97 Other input voltage. Consult factory.
- 98 347 volt 50 Hz. ballast instead.

Lenses and Trims

- 32 White oversize trim ring. Specify O.D.
- 35 Natural aluminum (silver) enameled finish flare trim instead.
- 36 Gold enameled finish flare trim instead.
- 37 Dark Bronze enameled finish flare trim instead.
- 38 Flat Black enameled finish flare trim instead.
- 45 Gasket between ceiling and trim.
- 46 Gasket between trim and lens.
- 94 Custom color/finish. Specify. Consult factory.
- OG OptiGroove, black seamless tapered aluminum with white self-flanged trim. Vandal resistant.

Other

- 79 Extension collar for ceilings up to 2" thick.
- 99 Special modification. Consult factory.
- LT With 4000°K bulb instead of standard 5000°K bulb. (Note: Consult factory for estimated lead time)
- LW With 3000°K bulb instead of standard 5000°K bulb. (Note: Consult factory for estimated lead time)

SUBMITTAL DATA

JOB NAME _____
 TYPE _____
 WATTAGE _____ VOLTAGE _____
 CATALOG NUMBER _____

APPROVAL STAMP

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALL TO N.E.C. IN NORMAL USE. Manufacturer of the fixture will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices of manufacturer within three years of original shipment. Liability of manufacturer is limited to the foregoing and manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by purchaser or any person. This warranty is supplied in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.