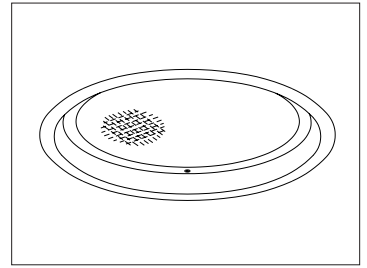


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

12" QL 85 WATT MAXIMUM

VRR-12044

## Vandal Resistant QL Induction With Extraordinary Lamp Life



### Specifications

#### Lamp Vessel (Included)

- One vertical QL lamp vessel: 85W (maximum).
- See Option -43 for lower wattages.
- Electrode-less induction lamp vessel with power coupler.
- 100,000 hour system life, 6000 initial lumens.
- Indoor or outdoor use. -30°F rated.
- 3000°K standard. Add Option -LT for 4000°K.

#### Generator

- Electronic high frequency generator.
- 120 volt standard.
- 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

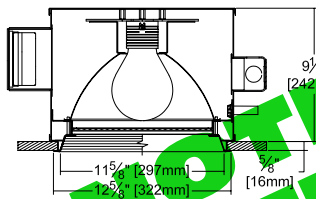
- Complete standard fixture and generator.



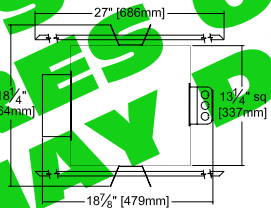
Exceptional  
Energy  
Efficiency

### Performance at a Glance

VRR-12044

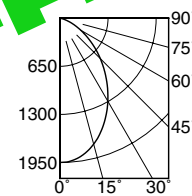


Option -OG Also Shown



Ceiling Cut-out 12 1/4" Dia.

VRR-12044 (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.

## 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-12044

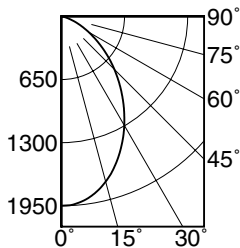
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

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

VRR-12044 (85 Watt)



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

RF	COEFFICIENTS OF UTILIZATION							
	20				50			
RC	70	80	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
35W	2450	0.41	66

LM = Luminaire Efficiency Rating

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

AEC = Annual Energy Cost per 1000 lumens (based on 3000 hours use @ 0.08 kWh/yr).

Options

Ballast, Wattage and Voltage

- 43 Lower wattage: QL55. Specify voltage.
- 58 277 volt 60 Hz. generator.
- 97 Other input voltage. Consult factory.

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 Black OptiGroove flare trim instead. (CP x .95)
- UV UV filter. Consult factory.

Other

- 79 Extension collar for ceilings up to 2" thick.
- 99 Special modification. Consult factory.
- LT With 4000°K lamp vessel instead of standard 3000°K lamp.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME

TYPE

WATTAGE

VOLTAGE

CATALOG NUMBER

THIS FIXTURE IS NO LONGER AVAILABLE FOR AN ALTERNATIVE. PLEASE SEE FIXTURE VRR-12060. NOTE: SOME DESIGN OPTIONS MAY DIFFER.

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THE LIFE OF THE FIXTURE. KIRLIN SHALL NOT BE LIABLE FOR ANY OTHER DAMAGES, DIRECT OR INDIRECT, SUSTAINED OR SUFFERED BY PURCHASER OR ANY PERSON. THIS WARRANTY IS SUBJECT TO THE BUYER IN PLACE OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SEE KIRLIN'S WARRANTY POLICY FOR FULL DETAILS.