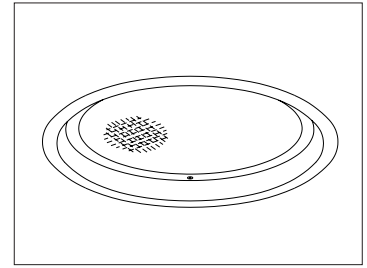


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

12" 1 ED28 250 WATT MAXIMUM

VRR-12051

Vandal Resistant 250W Pulse Start MH for High Ceilings



Specifications

Lamp

- Designed for pulse start metal halide lamp: 250W mogul base ED28.
- See Option -43 for lower wattages.

Socket

- Horizontal. Mogul base. Pulse rated.
- Glazed porcelain. Silicone leads.

Reflector

- Specular Alzak® aluminum.

Trim / Lens Assembly

- Vandal resistant smooth white seamless tapered aluminum self-flanged trim or see Option -OG.
- Flush center pin tamperproof hex screws and captive nuts secure trim to housing.
- Lens: UV absorbing tempered prismatic C#73 above 1/4" clear tempered glass.
- Continuous ring secures lens to trim.
- Tamperproof tool included.

Ballast Assembly: Specify Voltage

- WhisperPack™ fully encapsulated 180°C rated HPF pulse start ballast.
- Super CWA for 120 volt and Options -65, -66, -HL; Class H, linear reactor for 277 volt.
- See Option -PR for conventional probe start.
- Capacitor and ignitor supplied.

- Dimming (-39) and electronic (-96) ballasts available. See Options.
- Cool, quiet, long-life. Silicone leads.
- Visible and easily serviced in all ceilings.

Fuse

- Fused primary. Renewable. Aids servicing.

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

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

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.

Thermal Protection

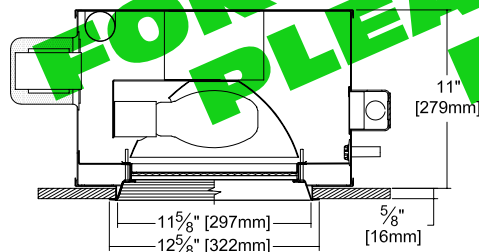
- Per current NEC.



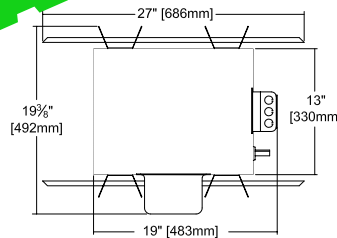
**Exceptional
Energy
Efficiency**

Performance at a Glance

VRR-12051

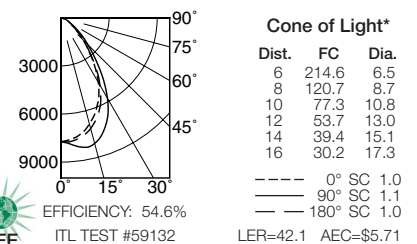


Option -OG Also Shown



Ceiling Cut-out
12 1/4" Dia.

VRR-12051 (250 Watt Coated Lamp)



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

ED28 250

CATALOG NUMBER

VRR-12051

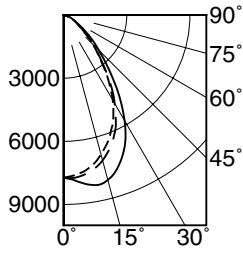
DUE TO OUR CONTINUING EFFORT TO IMPROVE PRODUCTS, TECHNICAL INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

Alzak® is a registered trademark of ALCOA.

Detailed Photometry - Installed Fixture

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

VRR-12051 (ED28 250 Coated Lamp)



--- 0° SC 1.0
--- 90° SC 1.1
--- 180° SC 1.0

EFFICIENCY : 54.6%

CANDLEPOWER DISTRIBUTION table with columns for beam angles (0.0, 45.0, 90.0, 135.0, 180.0) and rows for beam diameters (0, 5, 15, 25, 35, 45, 55, 65, 75, 85, 90).

COEFFICIENTS OF UTILIZATION table with columns for beam diameters (70, 80, 90, 100, 110, 120, 130, 140) and rows for beam heights (1, 2, 3, 4, 5, 6, 7, 8, 9, 10).

ITL TEST #59132 LER=42.1 AEC=\$5.71

LER = Luminaire Efficiency Rating AEC = Annual Energy Cost per 1000 lumens
LER = Luminaire Effic. x Total Lum. x Util. Coef. x 1000 / Input-watt-hrs. in 3000 hours use @ \$0.08 KWH.

THIS FIXTURE IS NO LONGER AVAILABLE FOR AN ALTERNATIVE PLEASE CONSULT FACTORY

Options

Sources and Ballasts

- 24 HPS ballast instead. Specify wattage and voltage.
-39 Electronic dimming ballast instead, for pulse start metal halide. Consult factory for wattage and voltage availability.
-96 Regulating electronic MH ballast instead. Consult for availability in 175W or above.
-PR Conventional probe start CWA 250W metal halide ballast instead. Specify voltage.

Wattage and Voltage

- 43 Lower wattage: 150 pulse, 175 probe, 150 HPS. Specify voltage.
-120 120 volt, 60 Hz. ballast.
-277 277 volt, 60 Hz. ballast.

- 347 347 volt, 60 Hz. ballast. Consult factory for dimming or electronic.
-97 Other voltage ballast instead. Consult factory.

Relays, Standbys, Lamps

- 49 Extra circuit DCB socket. 150W max. Do not energize simultaneously with main source. Also see Option -LS.
-65 Electronic standby system and DCB socket. 150W max. Provides immediate light until HID restrikes. Also see Options -66 and -LS.
-66 Electronic time delay standby system and DCB socket. 150W max. Provides light until HID reaches 70% output. Also see -LS.
-HL Hi-Lo wiring modification. For use with external relay systems. 175 watt or above. CWA ballast only. Specify system.

- LP With lamp. Specify source, wattage, color temp, clear or coated. (3700°K std for MH)
-LS With T-4 DCB tungsten halogen standby lamp. 150W max. Use only with -49, -65, -66.

Lenses and Trims

- 32 White oversize trim ring. Specify O.D.
-45 Gasket between trim and ceiling.
-46 Gasket between trim and lens.
-94 Custom color trim assembly. Consult factory.
-OG Black OptiGroove flare trim instead. (CP x .95)

Other

- 79 Extension collar for up to 2" thick ceilings.
-99 Special modification. Consult factory.
-TA Top access for servicing from above.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME
TYPE
WATTAGE VOLTAGE
CATALOG NUMBER

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 option 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 to the buyer 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 modification of the fixture without prior written authorization from the manufacturer will render the warranty void.