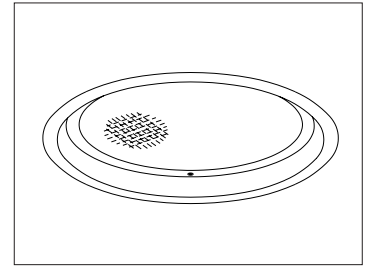


CATALOG #	TYPE	
JOB NAME	WATTAGE	VOLTAGE

10" 1 ED28 200 WATT MAXIMUM

VRR-10050

Vandal Resistant Efficient Large Aperture Pulse Start MH



Specifications

Lamp

- Designed for pulse start metal halide lamp: 200W medium base ED17.
- See Option -43 for lower wattages.

Socket

- Medium 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 HPT pulse start ballast.

- 50-150W: Class H, high reactance for 120V and Options -65, -66; linear reactor for 277V.
- 175-200 watt: 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

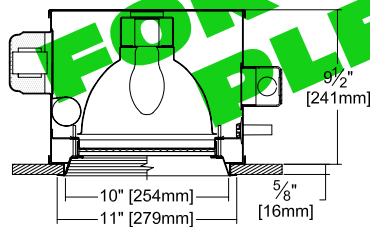
- Complete standard fixture and ballast.

Thermal Protection

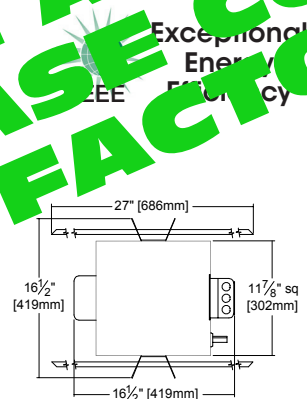
- Per current NEC.

Performance at a Glance

VRR-10050



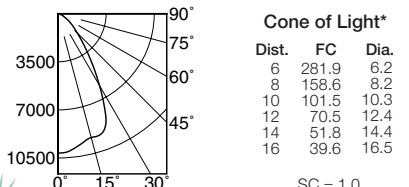
Option -OG Also Shown



Ceiling Cut-out
10 1/2" Dia.

Exceptional
Energy
Efficiency

VRR-10050 (200W Clear Lamp)



EFFICIENCY: 61.7%
ITL TEST #59135

SC = 1.0
LER=58.3 AEC=\$4.12

- 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 200

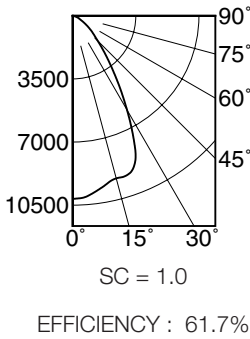
CATALOG NUMBER

VRR-10050

Detailed Photometry - Installed Fixture

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

VRR-10050 (ED28 200 Clear Lamp)



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	10149	10149	10149	10149	10149
5	10010	10010	10010	10010	10010
15	9331	9331	9331	9331	9331
25	8220	8220	8220	8220	8220
35	4188	4188	4188	4188	4188
45	1967	1967	1967	1967	1967
55	1001	1001	1001	1001	1001
65	435	435	435	435	435
75	122	122	122	122	122
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION						
RF	80			20		
	70	50	30	10	50	10
RC						
RW						
1	69	67	66	64	63	61
2	65	62	59	56	55	54
3	61	56	53	50	54	49
4	57	52	46	45	50	44
5	54	48	44	40	46	40
6	51	44	40	37	43	36
7	48	41	37	34	40	36
8	45	38	34	31	37	31
9	43	36	32	29	35	29
10	40	34	29	27	33	27

ITL TEST #59135 LER=58.3 •AEC=\$4.12

LER = Luminaire Efficiency Rating • AEC = Annual Energy Cost per 1000 lumens
 LER = Luminaire Effic. x Total Lumens • Factor = 1000 lumens / 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 175W metal halide ballast instead. Specify voltage.

- 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. 100W max. Do not energize simultaneously with main source. Also see Option -LS.
- 65 Electronic standby system and DCB socket. 100W max. Provides immediate light until HID restrikes. Also see Options -66 and -LS.
- 66 Electronic time delay standby system and DCB socket. 100W 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. 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.

Wattage and Voltage

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

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 repair or modification of the fixture without prior written authorization from the manufacturer will render the warranty void.