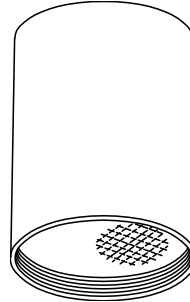


Surface Lensed E-Lamp "Pulse Start" Regressed Downlights: 150 to 250 Watt



12" 250W **HSR-12133**
12" 250W **HSR-12134**

Features

Lamp

- Designed for mogul base metal halide ED-28 lamps. See chart below for standard and optional wattages.
- See Option -43 and chart below for lower wattage or HPS availability.

Socket

- Vertical. Mogul base. Pulse rated.
- Nickel-plated brass screw shell. Silicone leads. Glazed porcelain.

Reflector

- Specular Alzak® aluminum.

Trim Assembly

- Seamless tapered black OptiGroove with white flange. Self-flanged trim.
- UV absorbing tempered prismatic low brightness C#73 flat glass lens.
- Optional trims and lenses available.

Ballast Assembly: Specify Voltage

- WhisperPack™ fully encapsulated 180°C rated HPF pulse start ballast.
- 150 watt: Class H, high reactance for 120V and Options -65, -66; linear reactor for 277V.
- 175-250 watt: Super CWA for 120V and Options -65, -66, -HL; Class H, linear reactor for 277V.
- Capacitor and ignitor supplied.
- Dimming (-39) and electronic (-96) ballasts available. See Options.
- Cool, quiet, long-life. Silicone leads.

Fuse

- Fused primary. Renewable. Aids servicing.

Housing

- White acrylic enameled aluminum.
- No visible seam or cylinder hardware.
- Cool: Dissipates heat across entire surface.

- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.

Installation

- Center point mounting for snug fit to ceiling. Mounting hardware furnished.
- QuickConnect mounting system available (Option -QM).
- Surface J-box mount available. (Option -80)
- Pendant or wall bracket mount available. (See Options -PM, -WB)
- Indoor or outdoor for covered ceiling use. (See Options -QM, -89)

UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings. (See Options -QM, -89)

Three Year Limited Warranty

- Complete standard fixture, including ballast.

Wattage Availability

Catalog No.	Lamp/Base	Standard Wattage		Option -43: Lower Wattage		Max. Standby Wattage (-49-65-66-LS)
		Pulse MH	-24 (HPS)	Pulse MH	-24 (HPS)	
HSR-12133	ED-28/Mog	250	250	150-200	150	150
HSR-12134	ED-28/Mog	250	250	150-200	150	150

Options

Sources and Ballasts

- 24 HPS ballast instead. See wattage chart above for available wattages. Specify voltage.
- 39 Remote (10' max.) electronic dimming ballast instead, for pulse start metal halide. Consult factory for wattage and voltage availability.
- 96 Remote (15' max.) electronic MH ballast. Consult factory for availability in 175W or above, or for internal mounting.

Wattage and Voltage

- 43 Lower wattage: See Option -43 chart above for available lower wattages. 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. Consult factory.

Relays, Standbys, Lamps (See Chart)

- 49 Extra circuit DCB socket. Do not energize simultaneously with main source. Also see -LS.
- 65 Electronic standby system and DCB socket. Following HID outage, provides immediate light until HID restrikes. Also see -66 and -LS.
- 66 Electronic time delay standby system and DCB

socket. Following outage, provides light until HID reaches 70% output. Also see Option -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 temperature, and clear or coated. (3700°K standard for metal halide)
- LS With T-4 DCB tungsten halogen standby lamp. Use only with Options -49, -65 or -66.

Lenses and Trims

- 27 Clear 1/4" tempered glass beneath tempered prismatic C#73 flat glass lens for impact resistance.
- 40 White grooveless flare trim assembly instead.
- 45 Gasket between trim and housing.
- 46 Gasket between trim and lens.
- 94 Custom color trim assembly. Consult factory.
- FR Fresnel tempered lens instead.
- HO Holophane concave lens instead.
- ML UV absorbing tempered Microlux glass instead.

Luminaire (Housing) Finishes

- 35 Natural Aluminum enameled luminaire finish instead.
- 36 Gold enameled luminaire finish instead.
- 37 Dark Bronze enameled luminaire finish instead.
- 38 Black enameled luminaire finish instead.
- 94 Custom color luminaire finish. Consult factory.

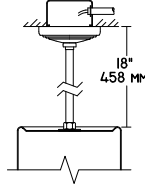
Mounting Options

- 54 Safety cable through pendant stem. 12" longer than specified stem length. Anchored to fixture. Use with Option -PM.
- 80 2" concealment collar for mounting luminaire beneath surface outlet box. 1/2" T.S. KO's. Also see Option -89.
- 87 Custom -PM length. Specify up to 4 feet or consult factory for longer lengths with couplers.
- 88 Swivel canopy for sloped ceilings up to 45°. Earthquake rated. Use with Option -PM.
- 89 Sealed top feature prevents moisture and insect intrusion from above in outdoor or high humidity areas. Must add to Options -80, -PM or -WB for Wet Label listing.
- PM Pendant mount instead. 3/8" T.S. x 18" standard. Also see Options -54, -87, -88, -89.
- QM QuickConnect mount, for indoor (damp or dry) use only. Housing swings aside for easy wiring, then pivots and locks to matte black collar.
- WB Wall bracket mount instead. Also see Option -89.

Other Options

- 99 Special modification. Consult factory.

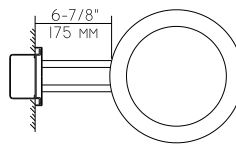
HSR-12133 HSR-12134



Representative Views:

(Right) With optional wall bracket (Option -WB)

(Left) With optional pendant mount (Option -PM)

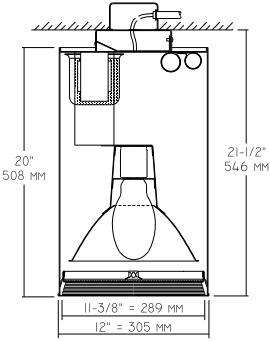


Cone of Light Key

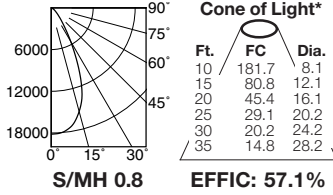
- Ft.** Distance from fixture
- FC** Footcandles (average)
- Dia.** Circle of light at 50% of FC
- * Dia. (in ft.) shown is where FC value is half the FC at nadir.

C.U. (Coefficients of Utilization)
Tables are available on request.
Please contact your Kirlin representative.

HSR-12133 250W



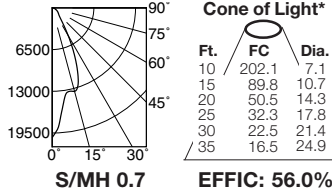
HSR-12133 (Clear Lamp)



ITL TEST #51666
LER = 46.0 AEC = \$5.22

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	18172	18172	18172	18172	18172
5	17992	17992	17992	17992	17992
15	15427	15427	15427	15427	15427
25	9001	9001	9001	9001	9001
35	3292	3292	3292	3292	3292
45	1310	1310	1310	1310	1310
55	585	585	585	585	585
65	326	326	326	326	326
75	151	151	151	151	151
85	1	1	1	1	1
90	0	0	0	0	0

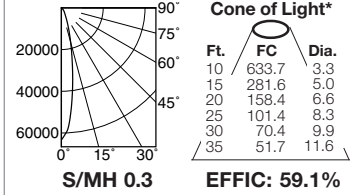
HSR-12133-FR (Clear Lamp)



ITL TEST #51668
LER = 45.1 AEC = \$5.32

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	20215	20215	20215	20215	20215
5	16453	16453	16453	16453	16453
15	13469	13469	13469	13469	13469
25	8326	8326	8326	8326	8326
35	2797	2797	2797	2797	2797
45	1438	1438	1438	1438	1438
55	1036	1036	1036	1036	1036
65	669	669	669	669	669
75	381	381	381	381	381
85	0	0	0	0	0
90	0	0	0	0	0

HSR-12133-ML (Clear Lamp)

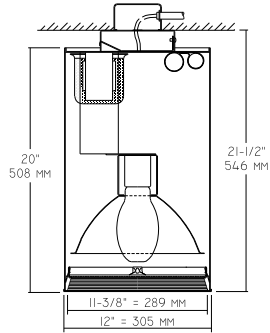


ITL TEST #51667
LER = 47.6 AEC = \$5.04

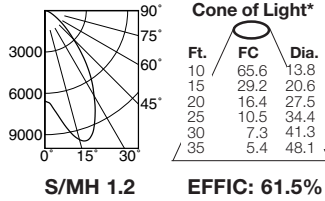
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	63367	63367	63367	63367	63367
5	50917	50917	50917	50917	50917
15	17129	17129	17129	17129	17129
25	5385	5385	5385	5385	5385
35	2441	2441	2441	2441	2441
45	1180	1180	1180	1180	1180
55	394	394	394	394	394
65	167	167	167	167	167
75	79	79	79	79	79
85	0	0	0	0	0
90	0	0	0	0	0

MULTIPLY CANDELA BY 10.0

HSR-12134 250W



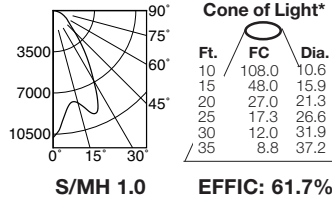
HSR-12134 (Clear Lamp)



ITL TEST #51625
LER = 49.5 AEC = \$4.85

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	6562	6562	6562	6562	6562
5	7133	7133	7133	7133	7133
15	9685	9685	9685	9685	9685
25	8589	8589	8589	8589	8589
35	5740	5740	5740	5740	5740
45	2935	2935	2935	2935	2935
55	1372	1372	1372	1372	1372
65	581	581	581	581	581
75	245	245	245	245	245
85	0	0	0	0	0
90	0	0	0	0	0

HSR-12134-FR (Clear Lamp)



ITL TEST #51624
LER = 49.7 AEC = \$4.83

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	10796	10796	10796	10796	10796
5	9357	9357	9357	9357	9357
15	8119	8119	8119	8119	8119
25	8991	8991	8991	8991	8991
35	5116	5116	5116	5116	5116
45	2596	2596	2596	2596	2596
55	1533	1533	1533	1533	1533
65	1004	1004	1004	1004	1004
75	493	493	493	493	493
85	0	0	0	0	0
90	0	0	0	0	0

ALL FIXTURE DRAWINGS
SHOWN WITH OPTION -QM

* LER (Luminaire Efficacy Rating) = Luminaire Effic. x Total Lamp Lumens x Ballast Factor
Input Watts

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

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. INSTALLATION TO N.E.C., IN NORMAL USE. Manufacturer at his option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the office 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 or for any person in connection with the use of the fixture without prior written authorization from the manufacturer. The manufacturer will render the warranty void if repair, or modification of the fixture without prior written authorization from the manufacturer, will render the warranty void.