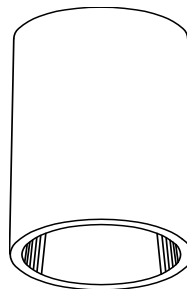


Surface Open E-Lamp "Pulse Start" Downlights: 50 to 250 Watt



9"	100W	HSR-09095
9"	150W	HSR-09096
12"	250W	HSR-12097

Features

Lamp

- Designed for open rated metal halide E-lamps. See chart below for standard and optional wattages.
- See Option -43 and chart below for lower wattage or HPS availability.

Socket

- Vertical. Pulse and open rated.
- Glazed porcelain.
- Nickel-plated brass screw shell. Silicone leads.

Reflector

- Self-flanged clear specular Alzak® aluminum.
- Eleven optional reflector finishes available.

Ballast Assembly: Specify Voltage

- WhisperPack™ fully encapsulated 180°C rated HPF pulse start ballast, except core and coil ballast for HSR-09095 and HSR-09096 only.

- 50-150 watt: Class H, high reactance for 120 volt, linear reactor for 277 volt.
- 175-250 watt: Super CWA for 120 volt and Option -HL; Class H, linear reactor for 277 volt.
- Capacitor and ignitor supplied.
- Dimming (-39) and electronic (-96) ballasts available. See Options.
- Cool, quiet, long-life. Silicone leads.

Fuse

- Fused primary. Renewable. Not for 480 volt.

Housing

- White acrylic enameled aluminum.
- No visible seam or cylinder hardware.
- Cool: Dissipates heat across entire surface area. Ventilated.
- 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	
		Pulse MH	-24 (HPS)	Pulse MH	-24 (HPS)
HSR-09095	ED-17/Med	100	100	50-70	35-70
HSR-09096	ED-17/Med	150	150	50-125	35-100
HSR-12097	ED-28/Mog	250	250	150-200	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 instead. 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, Lamps (See Chart)

- HL Hi-Lo wiring modification for use with external relay systems (by others). 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) Consult factory for other color temperatures.

Reflectors and Trims (Self-Flanged)

- 16 Champagne Gold specular Alzak reflector. (CP x .93)
- 31 White flange (only) on self-flanged reflector.
- 63 Dune specular Alzak reflector. (CP x .90)
- 69 Wheat specular Alzak reflector. (CP x .88)
- 70 SofTex Clear softly etched reflector. (CP x .90)
- 71 SofTex Dune softly etched reflector. (CP x .81)
- 77 SofTex Pewter softly etched reflector. (CP x .78)
- 90 SofTex Champagne Gold softly etched reflector. (CP x .84)
- 91 SofTex Wheat softly etched reflector. (CP x .80)
- 93 Pewter anodized Alzak reflector. (CP x .85)
- 94 Custom color reflector. Consult factory.
- OG OptiGroove black seamless tapered aluminum reflector. White trim, self-flanged. (CP x .80) Not available for HSR-12097.
- DW Double wall wash 180° reflector assembly instead for HSR-09095 or HSR-09096 only.
- WW Wall wash reflector assembly instead for HSR-09095 or HSR-09096 only.

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.

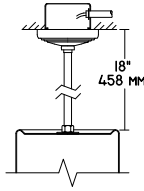
Mounting Options

- 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 provided. 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.

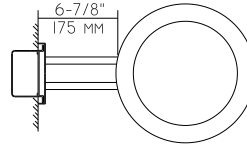
Other Options

- 99 Special modification. Consult factory.

HSR-09095
HSR-09096
HSR-12097



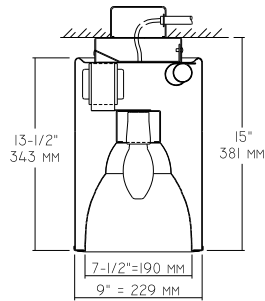
Representative Views:
(Right) With optional wall bracket (Option -WB)
(Left) With optional pendant mount (Option -PM)



Cone of Light Key

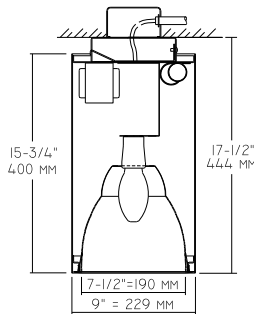
Ft. Distance from fixture
FC Footcandles (average)
Dia. Circle of light at 50% of FC
* Dia. (in ft.) shown is where FC value is half the FC at nadir.

HSR-09095 100W



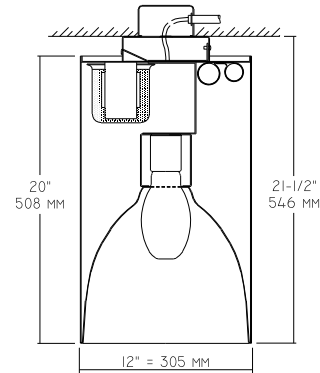
WALL WASH VERSION AVAILABLE - SEE OPTIONS

HSR-09096 150W

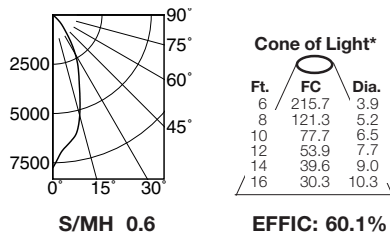


WALL WASH VERSION AVAILABLE - SEE OPTIONS (SEE HRR-07021 FOR WALL WASH PHOTOMETRY)

HSR-12097 250W



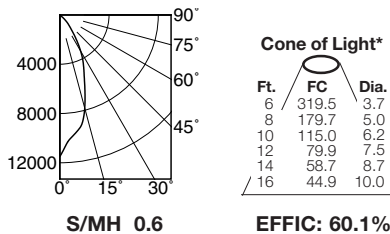
(Coated Lamp)



ITL TEST #51702
*LER = 35.9 •AEC = \$6.69

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	7765	7765	7765	7765	7765
5	6785	6785	6785	6785	6785
15	5283	5283	5283	5283	5283
25	3083	3083	3083	3083	3083
35	1463	1463	1463	1463	1463
45	538	538	538	538	538
55	20	20	20	20	20
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

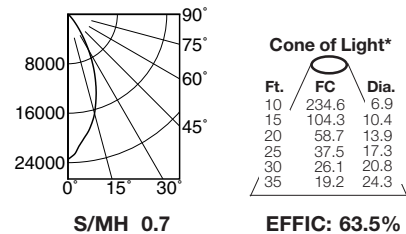
(Coated Lamp)



ITL TEST #46069
*LER = 37.0 •AEC = \$6.48

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	11503	11503	11503	11503	11503
5	10052	10052	10052	10052	10052
15	7827	7827	7827	7827	7827
25	4568	4568	4568	4568	4568
35	2168	2168	2168	2168	2168
45	797	797	797	797	797
55	30	30	30	30	30
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

(Coated Lamp)



ITL TEST #51687
*LER = 46.2 •AEC = \$5.19

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	23463	23463	23463	23463	23463
5	21288	21288	21288	21288	21288
15	16614	16614	16614	16614	16614
25	9986	9986	9986	9986	9986
35	3796	3796	3796	3796	3796
45	825	825	825	825	825
55	54	54	54	54	54
65	9	9	9	9	9
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

ALL FIXTURE DRAWINGS SHOWN WITH OPTION -QM

* LER (Luminaire Efficacy Rating) = $\frac{\text{Luminaire Effic.} \times \text{Total Lamp Lumens} \times \text{Ballast Factor}}{\text{Input Watts}}$

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

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. This warranty is void where prohibited by law. No other statement shall constitute a warranty or amend this specific warranty. 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.

PS MET HAIDE
REV MAY 2012