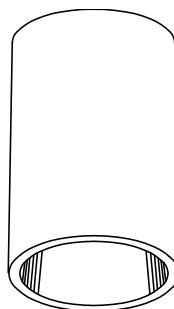


Surface Open PAR Lamp "Pulse Start" Downlights: 39 to 150 Watt



9" 100W **HSR-09086**
9" 150W **HSR-09087**

Features

Lamp

- Designed for metal halide PAR lamps. See chart below for standard and optional lamps and wattages.
- See Option -43 and chart below for lower wattage.

Socket

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

Reflector

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

Ballast Assembly: Specify Voltage

- Core and coil ballast.
- Premium Class H; High reactance for 120 volt, linear reactor for 277 volt.
- Capacitor and ignitor supplied.
- Dimming (-39) and electronic (-96) ballasts available. See Options.
- Cool, long-life. Silicone leads.

Fuse

- Fused primary. Renewable. Not for 480 volt.

Housing

- Seamless white acrylic enameled aluminum.
- No visible 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 / Lamp Availability

Catalog No.	Designed For:				Option -43: Lower Wattage
	Standard Lamp		Optional Lamp(s)		
HSR-09086	100 PAR 38	35° MFL	15° SP	65° FL	39-70
HSR-09087	150 PAR 38	35° MFL	20° SP	65° FL	70-100

Options

Sources and Ballasts

- 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 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 instead. Consult factory.

Lamps (See Chart)

- LP With lamp. Choose standard lamp shown above or specify wattage, beam spread, style (PAR 30, PAR 38), brand and color temperature.

Reflectors and Trims (Self-Flanged)

- 16 Champagne Gold specular Alzak reflector. (CP x .98)

- 30 All White reflector. (CP x .98)
- 31 White flange (only) on reflector. Not available for HSR-09086.
- 63 Dune specular Alzak reflector. (CP x .97)
- 69 Wheat specular Alzak reflector. (CP x .97)
- 70 SoTex Clear softly etched reflector. (CP x .98)
- 71 SoTex Dune softly etched reflector. (CP x .95)
- 72 Black specular Alzak reflector. (CP x .87)
- 77 SoTex Pewter softly etched reflector. (CP x .90)
- 90 SoTex Champagne Gold softly etched reflector. (CP x .96)
- 91 SoTex Wheat softly etched reflector. (CP x .95)
- 92 Umber specular Alzak reflector. (CP x .92)
- 93 Pewter specular Alzak reflector. (CP x .95)
- 94 Custom color reflector. Consult factory.
- OG OptiGroove black seamless tapered aluminum reflector. White trim. (CP x .90)

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.

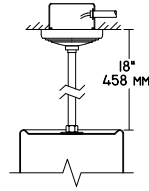
Mounting Options

- 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.

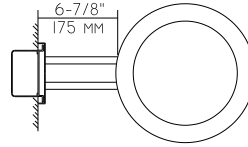
HSR-09086 HSR-09087



Representative Views:

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

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

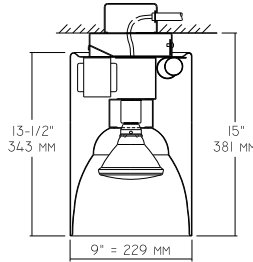


Cone of Light Key

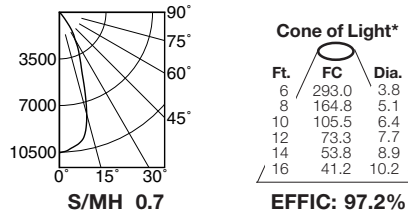
- Ft.** Distance from fixture
- FC** Footcandles (average)
- Dia.** Circle of light at 50% of FC
- * Dia. (in ft.) shown is where FC value is half the FC at nadir.

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

HSR-09086 100W



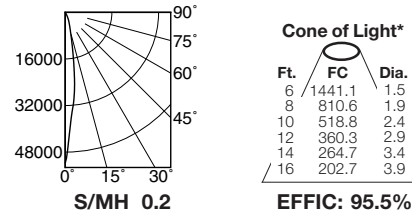
35° Medium Flood



ITL TEST #43906
*LER = 43.0 •AEC = \$5.58

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	10549	10549	10549	10549	10549
5	10244	10244	10244	10244	10244
15	7926	7926	7926	7926	7926
25	3549	3549	3549	3549	3549
35	1509	1509	1509	1509	1509
45	181	181	181	181	181
55	18	18	18	18	18
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

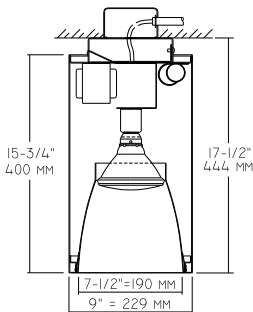
15° Spot



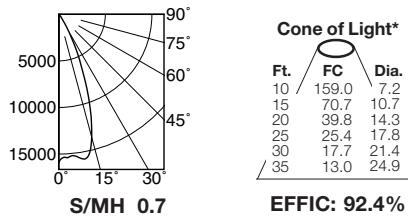
ITL TEST #52129
*LER = 44.4 •AEC = \$5.41

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	51881	51881	51881	51881	51881
5	31886	31886	31886	31886	31886
15	7234	7234	7234	7234	7234
25	2237	2237	2237	2237	2237
35	283	283	283	283	283
45	55	55	55	55	55
55	3	3	3	3	3
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

HSR-09087 150W



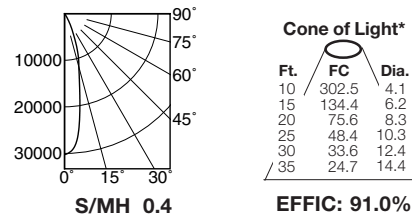
35° Medium Flood



ITL TEST #51935
*LER = 41.8 •AEC = \$5.75

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	15906	15906	15906	15906	15906
5	15264	15264	15264	15264	15264
15	13653	13653	13653	13653	13653
25	5076	5076	5076	5076	5076
35	720	720	720	720	720
45	167	167	167	167	167
55	0	0	0	0	0
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

20° Spot



ITL TEST #51936
*LER = 41.1 •AEC = \$5.84

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	30249	30249	30249	30249	30249
5	27979	27979	27979	27979	27979
15	11835	11835	11835	11835	11835
25	3820	3820	3820	3820	3820
35	473	473	473	473	473
45	117	117	117	117	117
55	0	0	0	0	0
65	0	0	0	0	0
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. INSTALLED 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. Liability of manufacturer shall not be liable for any other damages, direct or indirect, sustained or suffered by the user of the fixture. This warranty is void where prohibited by law. No warranty is made for use of the fixture for any other purpose than that for which it was designed. 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