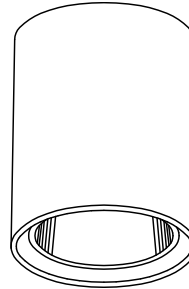


Surface Lensed E-Lamp "Pulse Start" Parabolic Adjustables: 50 to 400 Watt



12" 150W **HSR-12119**
14" 400W **HSR-14120**

Features

Lamp

- Designed for universal burn or Venture "H75" 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

- Adjustable. Pulse rated. Glazed porcelain.
- Nickel-plated brass screw shell. Silicone leads.

Reflector

- Upper: Parabolic specular Alzak® aluminum. Assembly swivels 358° and tilts up to 30°.
- Lower: low brightness parabolic specular Alzak aluminum, self-flanged.
- Fourteen optional lower reflector finishes.

Lens

- UV absorbing tempered Microlux glass mounted to upper reflector. Also see Options.

Ballast Assembly: Specify Voltage

- WhisperPack™ fully encapsulated 180°C rated HPF pulse start ballast.
- 50-150 watt: Class H, high reactance for 120V and Options -65, -66; linear reactor for 277V.
- 175-400 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) available. See Options.
- Cool, quiet, long-life. Silicone leads.

Fuse

- Fused primary. Renewable. Aids servicing.

Housing

- Seamless white acrylic enameled aluminum with interlocking flare trim ring. Deep drawn.
- Cool: Dissipates heat across entire surface area.

- 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-12119	ED-17/Med	150	150	50-125	35-100	100
HSR-14120	ED-28/Mog	400	250	150-350	150-250	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, 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.

Reflectors and Trims (Self-Flanged)

- 16 Champagne Gold Alzak lower reflector. (CP x .95)
- 30 All white lower reflector. (CP x .95)
- 31 White flange on lower reflector.
- 63 Dune specular Alzak lower reflector. (CP x .93)
- 69 Wheat specular Alzak lower reflector. (CP x .92)
- 70 SofTex Clear etched lower reflector. (CP x .92)
- 71 SofTex Dune etched lower reflector. (CP x .89)
- 72 Black specular Alzak lower reflector. (CP x .77)
- 77 SofTex Pewter etched lower reflector. (CP x .92)
- 90 SofTex Champagne Gold etched lower reflector. (CP x .90)
- 91 SofTex Wheat etched lower reflector. (CP x .88)
- 92 Umber specular Alzak lower reflector. (CP x .83)
- 93 Pewter specular Alzak lower reflector. (CP x .88)
- 94 Custom color lower reflector. Consult factory.
- OG OptiGroove black seamless tapered aluminum lower reflector. White trim. (CP x .75)

Lenses

- 15 Prismatic C#73 flat glass lens instead.
- 28 UV absorbing clear tempered 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.

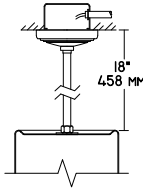
Mounting Options

- 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 -80, -PM or -WB for Wet Label.
- 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

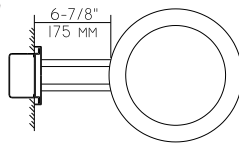
- 99 Special modification. Consult factory.

HSR-12119 HSR-14120

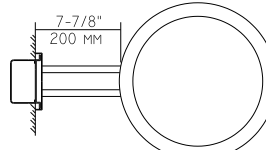


Representative Views:
(Right) With optional wall bracket (Option -WB)

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



View A

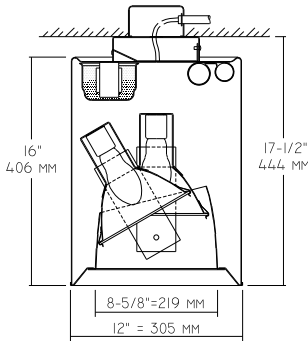


View B

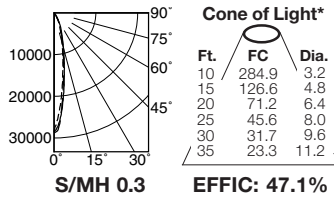
Cone of Light Key
Ft. Distance from fixture
FC Footcandles (average)
Dia. Circle of light at 50% of FC
 * Dia. (in ft.) shown is where FC value is half the FC at nadir.

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

HSR-12119 150W (View A)



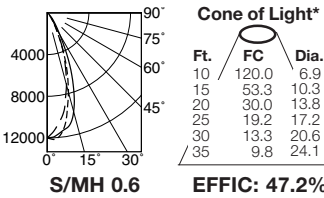
HSR-12119 (Clear Lamp)



ITL TEST #52259
 LER = 33.9 AEC = \$7.09

	CANDLEPOWER DISTRIBUTION				
	0.0	45.0	90.0	135.0	180.0
0	28492	28492	28492	28492	28492
5	20325	20529	22843	23557	21834
15	7278	7624	8715	8674	8256
25	2874	3170	3649	3710	3160
35	693	836	979	917	815
45	183	224	255	265	245
55	81	102	122	133	122
65	21	21	21	10	21
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

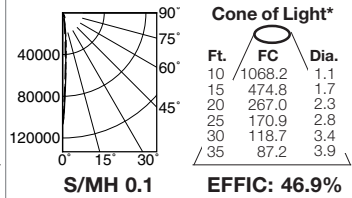
HSR-12119-15 (Clear Lamp)



ITL TEST #52258
 LER = 33.9 AEC = \$7.07

	CANDLEPOWER DISTRIBUTION				
	0.0	45.0	90.0	135.0	180.0
0	11994	11994	11994	11994	11994
5	12004	12045	11699	11215	10895
15	7884	9843	9807	8800	7141
25	2960	3810	4578	3866	3082
35	824	1093	1409	1211	977
45	234	310	437	437	377
55	132	143	193	213	203
65	10	10	10	15	21
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

HSR-12119-28 (Clear Lamp)

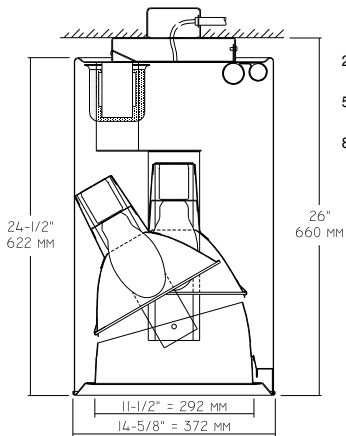


ITL TEST #52260
 LER = 33.7 AEC = \$7.12

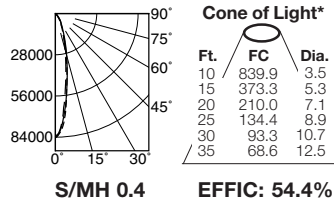
	CANDLEPOWER DISTRIBUTION				
	0.0	45.0	90.0	135.0	180.0
0	10682	10682	10682	10682	10682
5	3874	3821	3534	3385	2821
15	521	591	612	607	468
25	330	378	410	505	437
35	43	48	59	43	43
45	11	5	5	5	0
55	0	0	0	0	0
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

MULTIPLY CANDELA BY 10.0

HSR-14120 400W (View B)



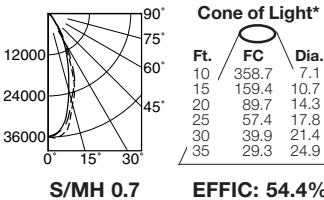
HSR-14120 (Clear Lamp)



ITL TEST #51709
 LER = 49.6 AEC = \$4.83

	CANDLEPOWER DISTRIBUTION				
	0.0	45.0	90.0	135.0	180.0
0	83988	83988	83988	83988	83988
5	71199	69165	68448	63927	64159
15	27860	28727	29327	25957	25124
25	10143	11211	11578	10994	10143
35	3769	4589	5588	5789	5504
45	1035	1284	1601	1869	1902
55	467	534	635	717	733
65	134	168	300	367	367
75	0	0	0	34	34
85	0	0	0	0	0
90	0	0	0	0	0

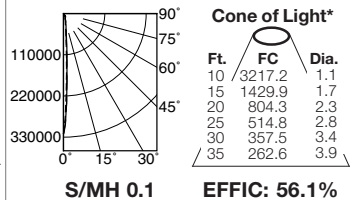
HSR-14120-15 (Clear Lamp)



ITL TEST #51708
 LER = 49.6 AEC = \$4.83

	CANDLEPOWER DISTRIBUTION				
	0.0	45.0	90.0	135.0	180.0
0	35870	35870	35870	35870	35870
5	36033	35899	34516	34298	34899
15	27359	28910	23121	27043	25924
25	14413	16282	12395	15999	16581
35	4804	5839	5188	6223	6072
45	1735	2102	2018	2370	2303
55	666	834	935	1035	1035
65	168	249	467	601	635
75	0	0	0	34	34
85	0	0	0	0	0
90	0	0	0	0	0

HSR-14120-28 (Clear Lamp)



ITL TEST #51438
 LER = 51.2 AEC = \$4.69

	CANDLEPOWER DISTRIBUTION				
	0.0	45.0	90.0	135.0	180.0
0	32172	32172	32172	32172	32172
5	8433	10011	10896	11518	9485
15	1946	2419	2323	2945	2419
25	771	912	912	999	982
35	473	622	947	1043	912
45	35	44	70	96	70
55	0	0	9	9	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

MULTIPLY CANDELA BY 10.0

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. INSTALL 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 or repair, or modification of the fixture without prior written authorization from the manufacturer. Manufacturer's warranty is void where prohibited by law.