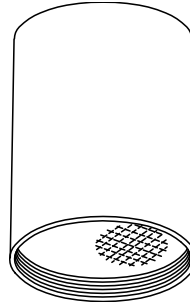


Surface Lensed E-Lamp "Pulse Start" Regressed Downlights: 50 to 175 Watt



12" 150W **HSR-12131**
12" 175W **HSR-12132**

Features

Lamp

- Designed for medium base 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. Medium base. Pulse rated.
- Nickel-plated brass screw shell. Silicone leads. Glazed porcelain.

Reflector

- Specular Alzak® aluminum.

Trim Assembly

- Seamless tapered black OptiGroove with white 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.
- 50-150 watt: Class H, high reactance for 120V and Options -65, -66; linear reactor for 277V.
- 175 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.
- No visible 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-12131	ED-17/Med	100	100	50-70	35-70	100
HSR-12132	ED-17/Med	175	150	50-150	35-100	100

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 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 HSR-12132 only. 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.

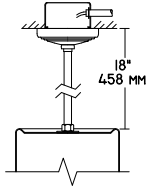
Mounting Options

- 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.

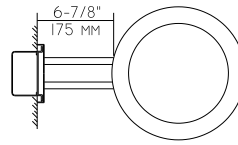
HSR-12131 HSR-12132



Representative Views:

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

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

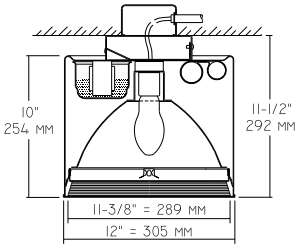


Cone of Light Key

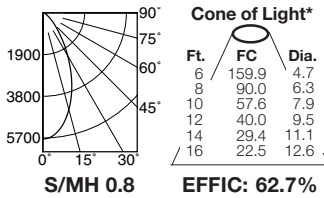
- Ft.** Distance from fixture
- FC** Footcandles (average)
- Dia.** Circle of light at 50% of FC
- * Dia. (in ft.) shown is where FC value is half the FC at nadir.

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

HSR-12131 100W



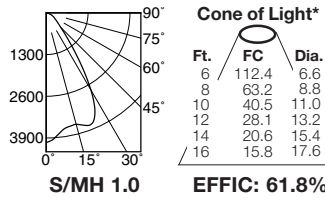
HSR-12131 (Coated Lamp)



ITL TEST #51710
LER = 39.2 AEC = \$6.11

	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	5758	5758	5758	5758	5758
5	5596	5596	5596	5596	5596
15	4562	4562	4562	4562	4562
25	3027	3027	3027	3027	3027
35	1608	1608	1608	1608	1608
45	737	737	737	737	737
55	331	331	331	331	331
65	171	171	171	171	171
75	79	79	79	79	79
85	0	0	0	0	0
90	0	0	0	0	0

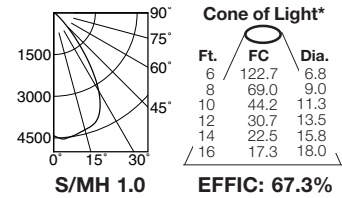
HSR-12131-FR (Coated Lamp)



ITL TEST #51711
LER = 38.7 AEC = \$6.20

	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	4046	4046	4046	4046	4046
5	3842	3842	3842	3842	3842
15	3596	3596	3596	3596	3596
25	3560	3560	3560	3560	3560
35	1727	1727	1727	1727	1727
45	645	645	645	645	645
55	351	351	351	351	351
65	216	216	216	216	216
75	91	91	91	91	91
85	5	5	5	5	5
90	0	0	0	0	0

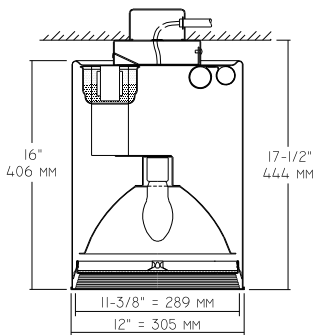
HSR-12131-HO (Coated Lamp)



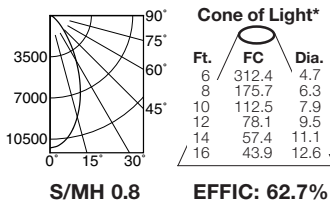
ITL TEST #51712
LER = 42.1 AEC = \$5.70

	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	4418	4418	4418	4418	4418
5	4548	4548	4548	4548	4548
15	4353	4353	4353	4353	4353
25	3913	3913	3913	3913	3913
35	2268	2268	2268	2268	2268
45	670	670	670	670	670
55	181	181	181	181	181
65	92	92	92	92	92
75	54	54	54	54	54
85	0	0	0	0	0
90	0	0	0	0	0

HSR-12132 175W



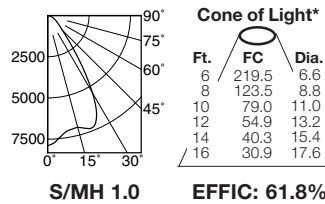
HSR-12132 (Coated Lamp)



ITL TEST #51728
LER = 47.1 AEC = \$5.10

	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	11246	11246	11246	11246	11246
5	10928	10928	10928	10928	10928
15	8909	8909	8909	8909	8909
25	5911	5911	5911	5911	5911
35	3141	3141	3141	3141	3141
45	1440	1440	1440	1440	1440
55	646	646	646	646	646
65	335	335	335	335	335
75	154	154	154	154	154
85	0	0	0	0	0
90	0	0	0	0	0

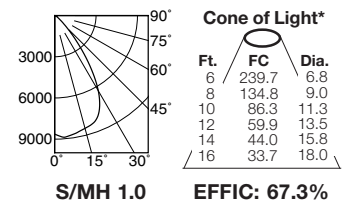
HSR-12132-FR (Coated Lamp)



ITL TEST #51729
LER = 46.4 AEC = \$5.17

	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	7902	7902	7902	7902	7902
5	7502	7502	7502	7502	7502
15	7024	7024	7024	7024	7024
25	6952	6952	6952	6952	6952
35	3372	3372	3372	3372	3372
45	1259	1259	1259	1259	1259
55	685	685	685	685	685
65	421	421	421	421	421
75	178	178	178	178	178
85	10	10	10	10	10
90	0	0	0	0	0

HSR-12132-HO (Coated Lamp)



ITL TEST #51730
LER = 50.5 AEC = \$4.75

	CANDLEPOWER DISTRIBUTION				
	0.0	22.5	45.0	67.5	90.0
0	8629	8629	8629	8629	8629
5	8882	8882	8882	8882	8882
15	8502	8502	8502	8502	8502
25	7642	7642	7642	7642	7642
35	4430	4430	4430	4430	4430
45	1309	1309	1309	1309	1309
55	354	354	354	354	354
65	180	180	180	180	180
75	105	105	105	105	105
85	1	1	1	1	1
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 the purchaser or any other party. This warranty is void where prohibited by law. No other warranty, express or implied, shall constitute a warranty or amend this specific warranty. Additional 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.