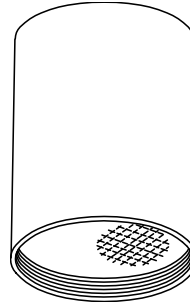


Surface Lensed E-Lamp "Pulse Start" Regressed Downlights: 50 to 100 Watt



9" 100W **HSR-09129**
9" 100W **HSR-09130**

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**
- Core and coil ballast.
- Class H, high reactance for 120 volt and Options -65, -66; linear reactor for 277 volt.
- 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)
		PulseMH	-24 (HPS)	PulseMH	-24 (HPS)	
HSR-09129	ED-17/Med	100	100	50-70	35-70	100
HSR-09130	ED-17/Med	100	100	50-70	35-70	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 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 restriks. 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.
- 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.

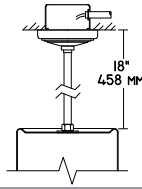
Mounting Options

- 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.

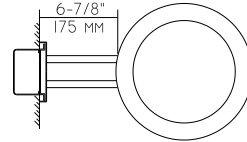
HSR-09129 HSR-09130



Representative Views:

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

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

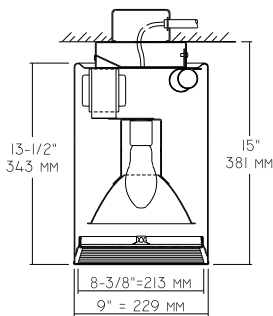


Cone of Light Key

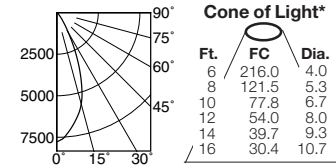
- Ft.** Distance from fixture
- FC** Footcandles (average)
- Dia.** Circle of light at 50% of FC

* 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-09129 100W



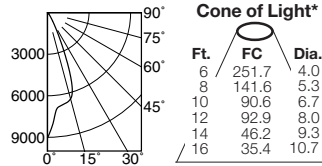
HSR-09129 (Clear Lamp)



S/MH 0.7
EFFIC: 50.3%
ITL TEST #44049
*LER = 31.5
•AEC = \$7.62

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	7775	7775	7775	7775	7775
5	7299	7299	7299	7299	7299
15	5684	5684	5684	5684	5684
25	2721	2721	2721	2721	2721
35	727	727	727	727	727
45	210	210	210	210	210
55	70	70	70	70	70
65	47	47	47	47	47
75	17	17	17	17	17
85	0	0	0	0	0
90	0	0	0	0	0

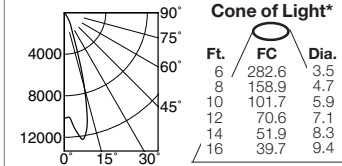
HSR-09129-FR (Clear Lamp)



S/MH 0.6
EFFIC: 48.0%
ITL TEST #44051
*LER = 30.0
•AEC = \$7.99

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	9062	9062	9062	9062	9062
5	7103	7103	7103	7103	7103
15	6441	6441	6441	6441	6441
25	2201	2201	2201	2201	2201
35	433	433	433	433	433
45	155	155	155	155	155
55	118	118	118	118	118
65	57	57	57	57	57
75	3	3	3	3	3
85	8	8	8	8	8
90	0	0	0	0	0

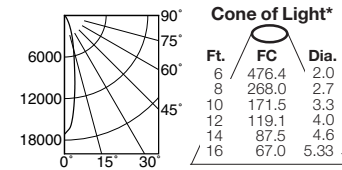
HSR-09129-HO (Clear Lamp)



S/MH 0.5
EFFIC: 51.6%
ITL TEST #44052
*LER = 32.3
•AEC = \$7.43

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	10172	10172	10172	10172	10172
5	11128	11128	11128	11128	11128
15	7502	7502	7502	7502	7502
25	1590	1590	1590	1590	1590
35	402	402	402	402	402
45	121	121	121	121	121
55	69	69	69	69	69
65	40	40	40	40	40
75	13	13	13	13	13
85	0	0	0	0	0
90	0	0	0	0	0

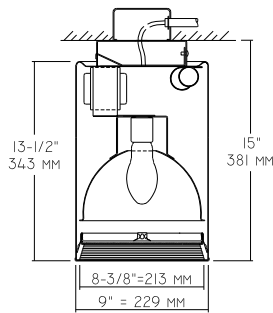
HSR-09129-ML (Clear Lamp)



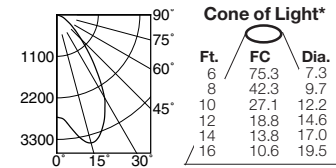
S/MH 0.3
EFFIC: 50.1%
ITL TEST #44050
*LER = 31.4
•AEC = \$7.65

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	17152	17152	17152	17152	17152
5	14271	14271	14271	14271	14271
15	5041	5041	5041	5041	5041
25	1938	1938	1938	1938	1938
35	672	672	672	672	672
45	208	208	208	208	208
55	82	82	82	82	82
65	45	45	45	45	45
75	24	24	24	24	24
85	0	0	0	0	0
90	0	0	0	0	0

HSR-09130 100W



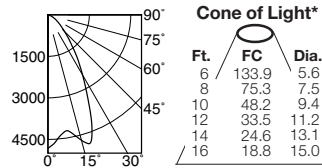
HSR-09130 (Clear Lamp)



S/MH 1.1
EFFIC: 61.3%
ITL TEST #38242
*LER = 38.4
•AEC = \$6.25

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2709	2709	2709	2709	2709
5	2842	2842	2842	2842	2842
15	3511	3511	3511	3511	3511
25	2996	2996	2996	2996	2996
35	1873	1873	1873	1873	1873
45	915	915	915	915	915
55	454	454	454	454	454
65	223	223	223	223	223
75	49	49	49	49	49
85	0	0	0	0	0
90	0	0	0	0	0

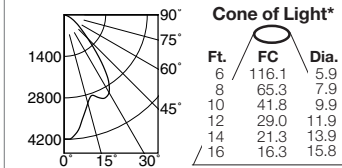
HSR-09130-FR (Clear Lamp)



S/MH 0.9
EFFIC: 67.8%
ITL TEST #38241
*LER = 42.4
•AEC = \$5.65

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	4822	4822	4822	4822	4822
5	4449	4449	4449	4449	4449
15	4689	4689	4689	4689	4689
25	3485	3485	3485	3485	3485
35	1797	1797	1797	1797	1797
45	845	845	845	845	845
55	420	420	420	420	420
65	188	188	188	188	188
75	41	41	41	41	41
85	0	0	0	0	0
90	0	0	0	0	0

HSR-09130-HO (Clear Lamp)



S/MH 1.1
EFFIC: 69.3%
ITL TEST #38243
*LER = 43.4
•AEC = \$5.53

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	4179	4179	4179	4179	4179
5	4069	4069	4069	4069	4069
15	3085	3085	3085	3085	3085
25	3111	3111	3111	3111	3111
35	2538	2538	2538	2538	2538
45	1126	1126	1126	1126	1126
55	533	533	533	533	533
65	243	243	243	243	243
75	41	41	41	41	41
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 _____