

Recessed Square Open
E-Lamp Downlights
39 to 250 Watt



4" 100W	HRS-04157
6" 150W	HRS-06158
8" 250W	HRS-08159

THIS PRODUCT IS NO LONGER AVAILABLE

Features

Lamp

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

Socket

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

Reflectors

- Upper : Ellipsoidal specular Alzak aluminum.
- Lower: SoftTex softly etched pre-powdered aluminum. Self-flanged. Gasketing standard for HRS-04157.
- Thirteen optional specular finishes available.

Ballast Assembly: Self-Volting

- WhisperPac™ fully encapsulated 180°C rated HPF pulse start ballast.

175-250 watt: Class H, 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 chart below.
- Visible and easily serviced in all ceilings including dry wall.

Fuse

- Use only 1/4" Fuses only. No 1/2" fuses.

Housing

- Acrylic enameled aluminum.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.

- Entire luminaire serviced from below through removable reflector.
- Built-in plaster frame.

Outlet Box

- Prewired 14 GA (NEC) galvanized steel, UL listed; with removable insulated cover.
- 1/2" and 3/4" knockouts.

Installation

- 27" galvanized hanger bars supplied (2).
- Fully adjustable universal mounting brackets supplied (2).
- Recesses indoor or outdoor in covered locations.

UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).

Limited Warranty

- Complete standard fixture, including ballast.

Thermal Protection

- Per current NEC.

Please consult
QUOTATIONS
for the best alternative.

Wattage Availability and Cut-out Dimensions

Catalog No.	Lamp/Base	Standard Wattage		Option -43: Lower Wattage		Ceiling Cut-Out
		Pulse MH	-24 (HPS)	Pulse MH	-24 (HPS)	
HRS-04157	ED-17/Med	100	100	50-70	35-70	5.25" Sq.
HRS-06158	ED-17/Med	150	150	50-125	35-100	6.75" Sq.
HRS-08159	ED-28/Mog	250	250	150-200	50-150	9.5" Sq.

Options

Sources and Ballasts

- 24 HPS ballast instead. See wattage chart above for available wattages. Specify voltage.
- 39 Electronic dimming ballast instead for pulse start metal halide. Consult factory for wattage and voltage availability.
- 96 Regulating electronic MH ballast instead. Consult factory for availability in 175W or above.

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 HRS-08159 only. For use with external relay systems (by others). Specify system separately.
- LP With lamp. Specify source, wattage, color temperature, and clear or coated. (3700°K standard for metal halide)

Reflectors and Trims (Self-flanged)

- 16 Champagne Gold specular Alzak lower reflector. (CP x 1.10)
- 30 All White lower reflector. (CP x 1.10)
- 31 White flange (only) on lower reflector.
- 32 Trim extender. Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 45 Gasket above reflector flange. Stops dust streaks on ceiling. Standard for HRS-04157.
- 62 Clear specular Alzak lower reflector. (CP x 1.16)
- 63 Dune specular Alzak lower reflector. (CP x 1.08)
- 69 Wheat specular Alzak lower reflector. (CP x 1.07)
- 71 SoftTex Dune etched lower reflector. (CP x .97)

- 72 Black specular Alzak lower reflector. (CP x .89)
- 77 SoftTex Pewter etched lower reflector. (CP x .92)
- 90 SoftTex Champagne Gold lower reflector. (CP x .97)
- 91 SoftTex Wheat etched lower reflector. (CP x .95)
- 92 Umber specular Alzak lower reflector. (CP x .96)
- 93 Pewter specular Alzak lower reflector. (CP x 1.02)
- 94 Custom color lower reflector instead. Consult factory.

Mounting Options

- 79 Extension collar for up to 2" thick ceilings.
- 85 Ceiling Panel; with recessed fixture hole. Lays-in 2' x 2' grid. White

Other Options

- 99 Special modification. Consult factory.
- TA Top access; for servicing from above ceiling.

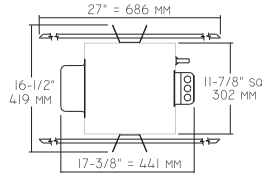
KIRLIN

THE KIRLIN COMPANY

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Plan View

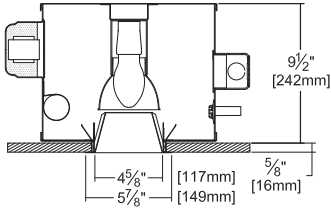


Cone of Light Key

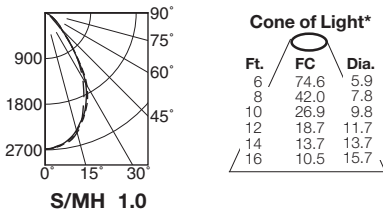
- Ft.** Distance from fixture
- FC** Footcandles (average)
- Dia.** Circle of light at 50% of FC
- * Dia. (in ft.) shown is where FC value is half the FC at nadir.

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

HRS-04157 100W



HRS-04157 (Coated Lamp)

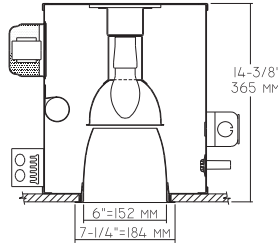


CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	2686	2686	2686	2686	2686
5	2655	2655	2647	2643	2638
15	2410	2444	2440	2428	2393
25	1966	1982	1812	1931	1918
35	1168	1279	1125	1235	1138
45	452	464	400	467	465
55	229	192	139	197	235
65	97	81	66	82	97
75	35	32	28	32	36
85	7	7	5	7	8
90	0	0	0	0	0

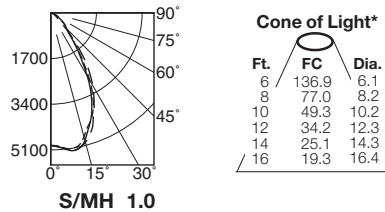
EFFIC: 39.6%

ITL TEST #51798
***LER = 23.6**
***AEC = \$10.16**

HRS-06158 150W



HRS-06158 (Coated Lamp)

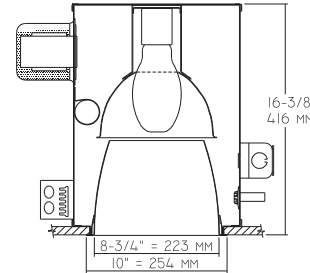


CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	4928	4928	4928	4928	4928
5	5030	5025	5055	5045	5040
15	4773	4842	4991	5005	4912
25	3755	3938	3824	3750	3597
35	1947	2164	2327	2031	1828
45	870	776	677	770	850
55	484	400	257	385	474
65	247	193	153	183	237
75	99	89	74	79	99
85	30	20	20	30	30
90	0	0	0	0	0

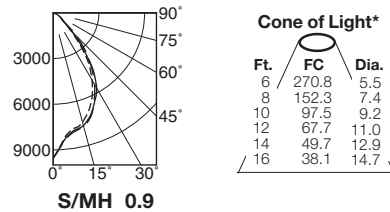
EFFIC: 49.0%

ITL TEST #51799
***LER = 31.7**
***AEC = \$7.57**

HRS-08159 250W



HRS-08159 (Coated Lamp)

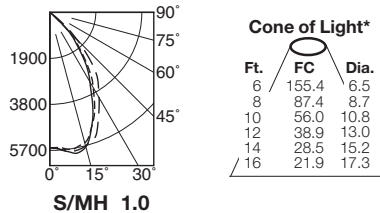


CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	9749	9749	9749	9749	9749
5	8469	8571	8632	8673	8575
15	7600	7743	7898	7944	7834
25	6193	6326	6507	6598	6579
35	4174	4443	4496	4764	4658
45	1656	1924	2212	2045	1800
55	703	594	397	605	711
65	340	268	193	276	340
75	129	102	83	98	129
85	23	15	15	15	15
90	0	0	0	0	0

EFFIC: 49.7%

ITL TEST #51801
***LER = 36.2**
***AEC = \$6.64**

HRS-06158-62 (Coated Lamp)



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	5595	5595	5595	5595	5595
5	5619	5658	5701	5708	5711
15	5574	5632	5713	5761	5748
25	4387	4962	4756	4564	4198
35	2762	3358	3467	3073	2578
45	1121	1471	1564	1389	1103
55	26	29	67	27	24
65	9	7	5	7	7
75	5	5	2	3	5
85	0	0	0	0	0
90	0	0	0	0	0

EFFIC: 57.5%

ITL TEST #52144
***LER = 37.2**
***AEC = \$6.45**

* 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 its 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 purchaser or any person. This warranty is supplied to the buyer in place of all other warranties expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement constitute a warranty or amend this specific warranty. Abnormal use, abuse of the fixture, improper installation, or repair, or modification of the fixture without prior written authorization from the manufacturer will void the warranty void.

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