

Recessed Lensed E-Lamp
"Pulse Start" Compact Fluorescent
Downlight: 50 to 150 Watt



HRR-08077

THIS PRODUCT IS NO LONGER AVAILABLE

Features

Lamp

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

Socket

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

Reflector

- Specular Alzak® aluminum.

Trim Assembly

- Seamless tapered black OptiGlow® or white self-flanged trim.
- UV absorbing tempered prismatic low brightness C#7 flat glass lens.
- Fully gasketed.
- Optional trims and lenses available.

Ballast Assembly - See Chart

- Class H, high reactance for 120 volt and Options -65, -66; linear reactor for 277 volt.
- Capacitor and ignitor supplied.
- Dimming (39) and standby (99) ballasts available. See Options.
- Cool, quiet, long-life. Silicone leads.
- Visible and easily serviced.
- Resistor (39) and standby (99) ballasts available. See Options.
- 16 GA. galvanized steel: red oxide motorproof primer coat with black enamel finish.
- Fully gasketed.

- Entire luminaire serviced through removable trim assembly.
- 2" bottom flange promotes concrete flow.

Outlet Box

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

Installation

- Recesses indoors or outdoor in poured concrete ceilings.

UL, C-UL (Canada) Listings

- For use in poured concrete.
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).

Three Year Limited Warranty

- Complete standard fixture, including ballast.
- Full warranty 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		Max. Standby Wattage (-49-65-66-LS)
		Pulse MH	-24 (HPS)	Pulse MH	-24 (HPS)	
HRR-08077	ED-17/Med	150	150	50-125	35-100	100

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.

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.

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.
- 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

- 32 Trim extender. Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 40 White grooveless flare trim assembly instead.
- 45 Gasket between trim and ceiling
- 46 Gasket between trim and lens.
- 94 Custom color trim assembly. Consult factory.
- FR Fresnel tempered lens instead.
- FT Flat white trim instead. With standard C#73 lens or specify optional lens.
- HO Holophane concave lens instead.

Other Options

- 99 Special modification. Consult factory.

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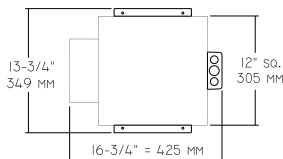
3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-9409 or (313) 259-3121 • www.kirlinlighting.com

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HRR-08077

Plan View



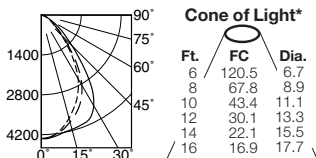
Cone of Light Key

- 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.

HRR-08077 150W

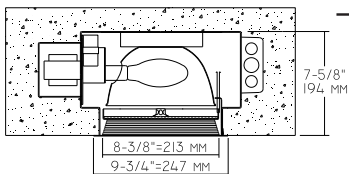
HRR-08077 (Coated Lamp)



— — —	0° S/MH	1.0
=====	90° S/MH	1.2
— — —	180° S/MH	1.0

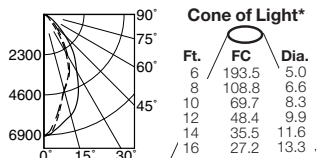
EFFIC: 55.3%

ITL TEST #51631
LEB = 34.1 AEC = \$7.04



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	4338	4338	4338	4338	4338
5	4278	4256	4313	4292	4271
15	3755	3906	4157	4025	3888
25	3027	3402	4014	3603	3294
35	2010	2475	3060	2606	2244
45	1007	1227	1521	1292	1080
55	458	594	728	614	488
65	251	257	261	269	254
75	66	77	89	74	57
85	0	0	0	0	0
90	0	0	0	0	0

HRR-08077-FR (Coated Lamp)



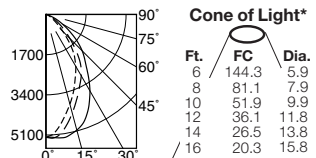
— — —	0° S/MH	0.7
=====	90° S/MH	0.9
— — —	180° S/MH	0.7

EFFIC: 60.9%

ITL TEST #51632
LER = 37.5 AEC = \$6.40

CANDLEPOWER DISTRIBUTION						
	0.0	45.0	90.0	135.0	180.0	
0	6966	6966	6966	6966	6966	
5	6521	6557	6680	6494	6278	
15	4475	5147	5976	5271	4502	
25	3318	4005	4885	4074	3468	
35	1710	2357	3104	2516	1977	
45	573	1242	1727	1346	971	
55	303	575	762	623	447	
65	144	240	306	257	186	
75	50	72	84	72	57	
85	0	0	0	0	0	
90	0	0	0	0	0	

HRR-08077-HO (Coated Lamp)



— — —	0° S/MH	0.8
————	90° S/MH	1.1
— — —	180° S/MH	0.9

EFFIC: 63.8%

ITL TEST #51633
LER = 39.3 AEC = \$6.10

CANDLEPOWER DISTRIBUTION						
	0.0	45.0	90.0	135.0	180.0	
0	5193	5193	5193	5193	5193	
5	4944	5016	5237	5265	8192	
15	3927	4442	5063	4857	4134	
25	2945	3552	4301	3893	3371	
35	2087	2486	3119	2727	2555	
45	1020	1488	2174	1784	1437	
55	387	770	1200	956	677	
65	161	330	492	401	267	
75	54	69	81	72	54	
85	0	0	0	0	0	
90	0	0	0	0	0	

LIMITED WARRANTY: CATALONIS KILN SYSTEMS ARE WARRANTED FREE OF DEFECTS IN WORKSMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE, INSTALLED TO BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. MANUFACTURER AT HIS OPTION WILL REPAIR, REPLACE OR REFUND THE PURCHASE PRICE OF PRESENTATION OF PROOF OF PURCHASE AND DEFECTIVE KILN IN THE OFFICES 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, SUSISTANT OR SUPERSEDED BY PURCHASER OR ANY PERSON. THIS WARRANTY IS SUPPLIED TO THE BUYER IN PLACE OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. SHELTER 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 KILN, IMPROPER INSTALLATION, REPAIR, OR MODIFICATION OF THE KILN WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE MANUFACTURER WILL RENDER THE WARRANTY VOID.

* **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

CATALOG NUMBER

VOLTAGE

PS MET HALIDE
REV JULY 2009