

Recessed Open E-Lamp
"Pulse Start" Vapor Discharge
50 to 150 Watt

THIS PRODUCT IS NO LONGER AVAILABLE

Please consult

QUOTATIONS

for the best alternative.

Features

Lamp

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

Reflectors

- Inner: Self-flanged clear specular aluminum. Adjusts 360° for precise position.
- Eleven optional reflector finishes available.
- Optional double trim flange available.
- Outer: etched and anodized 100% aluminum for uniform wall washing.

Ballast Assembly: Select Voltage

- Pre-wired 14 GA (NEC) galvanized steel, UL listed; with removable insulated cover.
- 1/2" and 3/4" knockouts.
- 27" galvanized hanger bars supplied (2).
- Fully adjustable universal mounting brackets supplied (2).
- Recesses indoor or outdoor in covered locations.
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6 #12).
- Custom color inner reflector. Consult factory.
- White trim. Not available for HRR-04019.
- (CP x .80)
- Extension collar for up to 2" thick ceilings.
- Ceiling Panel; with recessed fixture hole. Lays-in 2' x 2' grid. White.
- Special modification. Consult factory.

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

Outlet Box

- Pre-wired 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).

Three Year Limited Warranty

- Against standard fixture, including ballast.
- Per current NEC.

Wattage Availability and Cut-Out Dimensions

Catalog No.	Lamp/Base	Standard Wattage Pulse MH	Standard Wattage -24 (HPS)	Option -43: Lower Wattage Pulse MH	Option -43: Lower Wattage -24 (HPS)	Ceiling Cut-Out Diameter
HRR-04019	ED-17/Med	100	100	50-70	35-70	5.0"
HRR-06020	ED-17/Med	150	150	50-125	35-100	6.5"
HRR-07021	ED-17/Med	150	150	50-125	35-100	8.0"

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.

Lamps (See Chart)

- LP With lamp. Specify source, wattage, color temperature, and clear or coated. (3700°K standard for metal halide) Consult factory for other color temperatures.

Reflectors and Trims (Self-Flanged)

- 16 Champagne Gold specular Alzak inner reflector. (CP x .93)
- 31 White flange (only) on self-flanged inner reflector.
- 32 Trim extender. Broadens trim flange O.D. by 1" to cover larger ceiling opening.
- 45 Gasket above inner reflector flange. Stops dust streaks on ceiling.
- 63 Dune specular Alzak inner reflector. (CP x .90)
- 69 Wheat specular Alzak inner reflector. (CP x .88)
- 70 SofTex Clear softly etched inner reflector. Resists smudges. (CP x .90)
- 71 SofTex Dune softly etched inner reflector. Resists smudges. (CP x .81)
- 77 SofTex Pewter softly etched inner reflector. Resists smudges. (CP x .78)

- 90 SofTex Champagne Gold softly etched inner reflector. Resists smudges. (CP x .84)
- 91 SofTex Wheat softly etched inner reflector. Resists smudges. (CP x .80)
- 93 Pewter specular Alzak inner reflector. (CP x .85)
- 94 Custom color inner reflector. Consult factory
- DW Double wall wash. 180° opposite.
- OG OptiGroove; black seamless tapered aluminum. White trim. Not available for HRR-04019. (CP x .80)

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.

KIRLIN

THE KIRLIN COMPANY

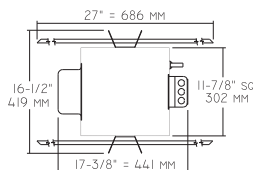
3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
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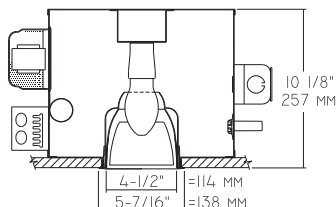
HRR-04019
HRR-06020
HRR-07021

Plan View

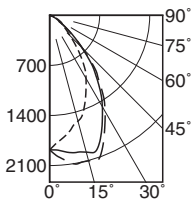


C.U. (Coefficients of Utilization) Tables are available on request. Please contact your Kirlin representative.

HRR-04019 100W



(Coated Lamp)



WALL > --- 0°
--- 90°
--- 180°

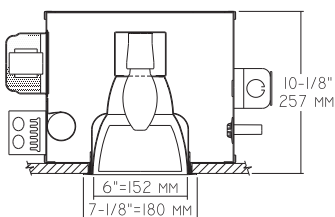
DISTANCE FROM CEILING IN FEET	SINGLE FIXTURE				MULTIPLE FIXTURES			
	1'	2'	3'	4'	3' CENTERS	4' CENTERS	3' CENTERS	4' CENTERS
FIXTURE INSTALLED 3' FROM WALL Footcandle Distribution on Wall Surface								
1	5.5	4.3	3.0	1.8	1.2	10.7	10.6	10.7
2	10.3	8.3	5.2	3.1	2.0	19.9	19.8	19.9
3	14.5	12.4	8.7	5.0	3.0	28.6	28.8	28.6
4	16.7	14.9	11.3	7.1	4.2	35.0	35.4	35.0
5	16.4	15.4	12.6	8.8	5.5	38.2	38.6	38.2
6	13.3	12.8	11.4	8.8	6.1	36.6	37.1	36.6
7	10.8	10.4	9.5	8.1	6.1	33.3	33.8	33.3
8	8.8	8.6	7.8	7.0	5.8	30.1	30.4	30.1
9	7.3	7.4	6.8	6.0	5.1	27.4	27.3	27.4

EFFIC: 36.6%

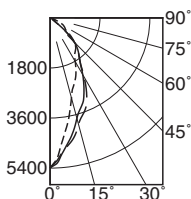
ITL TEST #51197

***LER = 21.8 •AEC = \$10.99**

HRR-06020 150W



(Coated Lamp)



WALL > --- 0°
--- 90°
--- 180°

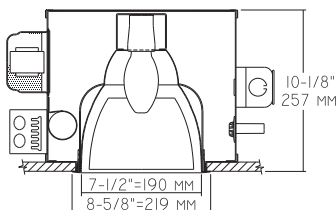
DISTANCE FROM CEILING IN FEET	SINGLE FIXTURE				MULTIPLE FIXTURES			
	1'	2'	3'	4'	3' CENTERS	4' CENTERS	3' CENTERS	4' CENTERS
FIXTURE INSTALLED 3' FROM WALL Footcandle Distribution on Wall Surface								
1	13.6	10.1	6.4	3.5	2.0	23.3	22.8	23.3
2	29.1	22.5	12.3	6.7	4.0	49.8	49.0	49.8
3	38.9	33.0	22.4	11.7	6.4	69.3	69.1	69.3
4	38.8	34.9	26.6	16.5	8.9	77.0	77.2	77.0
5	30.9	29.1	24.3	17.7	11.4	74.3	74.9	74.0
6	24.3	23.1	20.2	16.0	11.6	66.3	67.4	66.3
7	19.8	18.8	16.8	14.0	10.8	59.9	61.0	59.9
8	16.4	15.9	14.2	12.2	9.9	54.2	54.8	54.2
9	13.7	13.7	12.6	10.7	8.9	49.4	49.1	49.4

EFFIC: 44.3%

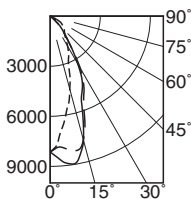
ITL TEST #51198

***LER = 27.3 •AEC = \$8.79**

HRR-07021 150W



(Coated Lamp)



WALL > --- 0°
--- 90°
--- 180°

DISTANCE FROM CEILING IN FEET	SINGLE FIXTURE				MULTIPLE FIXTURES			
	1'	2'	3'	4'	3' CENTERS	4' CENTERS	3' CENTERS	4' CENTERS
FIXTURE INSTALLED 3' FROM WALL Footcandle Distribution on Wall Surface								
1	13.6	9.8	6.0	3.1	2.0	23.2	22.7	23.2
2	31.9	25.0	13.6	6.9	4.0	54.5	54.3	54.5
3	42.1	36.0	25.1	13.4	6.8	74.3	74.8	74.3
4	40.2	36.0	27.3	17.3	9.3	79.8	80.5	79.8
5	33.4	30.8	24.6	16.9	10.4	75.5	76.2	75.5
6	28.7	27.3	23.1	17.0	11.3	72.2	73.3	72.2
7	24.8	23.7	21.3	16.8	12.0	69.8	70.5	69.8
8	21.8	21.1	18.9	16.1	12.3	66.9	67.1	66.9
9	19.3	19.2	17.4	14.7	11.9	63.7	63.1	63.7

EFFIC: 56.8%

ITL TEST #51199

***LER = 35.0 •AEC = \$6.86**

* 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. INSTALLED TO N.E.C. IN NORMAL USE. Manufacturer at his option will replace or repair fixture or refund the purchase price (less transportation) if proof of manufacturer's defect is furnished to the office of manufacturer within three years of date of shipment. Liability of manufacturer is limited to the foregoing and does not 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 render this warranty void.

PS MET HALIDE
REV APRIL 2009