

Recessed Open PAR Lamp
"Pulse Start" Downlights.
39 to 70 Watt

THIS PRODUCT IS NO LONGER AVAILABLE

4" 39W
4" 70W
6" 70W

HRR-04001
HRR-04002
HRR-06003

Features

Lamp

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

Socket

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

Reflector

- Self-flanged clear specular Alzak.
- Fourteen optional reflector finishes available.

Ballast Assembly: Specify Voltage

- WhisperPack full frequency electronic ballast rated HPF pulse start ballast.

- Premium Class H; High reactance for 120 volt, line reactor.
- Capacitor and ignitor starter.
- Compensating (39) and electronic (66) ballasts available. See Options.
- Cool, quiet, long-life. Silicone leads.
- Visible and easily serviced in all ceilings including dry wall.

Fuse

- Fluidex manometer rated for 400V.
- Acrylic enameled aluminum.
- Entire luminaire serviced through removable top access.
- Acrylic enameled aluminum.
- Entire luminaire serviced through removable top access.

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).

Three Year Limited Warranty

- Complete standard fixture, including ballast.

Protection

- Replacement N.C.

Please consult
QUOTATIONS
for the best alternative.

Wattage / Lamp Availability and Cut-out Dimensions

Catalog No.	Standard Lamp	Designed For:	Option -43: Lower Wattage	Max. Standby Wattage (-49-65-66-LS)	Ceiling Cut-Out Diameter
HRR-04001	39 PAR 20	30° MFL	10° SP —	—	5.0"
HRR-04002	70 PAR 30	40° MFL	10° SP —	39	5.0"
HRR-06003	70 PAR 30	40° MFL	10° SP —	39	6.5"

Options

Sources and Ballasts

- 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, Lamps (See Chart)

- 49 Extra circuit DCB socket with clear tempered glass shield for HRR-06003 only. Do not energize simultaneously with main source. Also see -LS.
- 65 Electronic standby system and DCB socket with clear tempered glass shield for HRR-06003 only. Following HID outage, provides light until HID restrikes. Also see -66 and -LS.

- 66 Electronic time delay standby system and DCB socket with clear tempered glass shield for HRR-06003 only. Following outage, provides light until HID reaches 70% output. Also see Option -LS.
- LP With lamp. Choose standard lamp shown above or specify wattage, beam spread, style (PAR 20, PAR 30), brand and color temperature.
- LS With T-4 DCB tungsten halogen standby lamp. Use only with Options -49, -65 or -66.

Reflectors and Trims (Self-Flanged)

- 16 Champagne Gold specular Alzak reflector. (CP x .98)
- 30 All White reflector (CP x .98) or cross baffle.
- 31 White flange (only) on self-flanged reflector or cross baffle.
- 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.
- 63 Dune specular Alzak reflector. (CP x .97)
- 69 Wheat specular Alzak reflector. (CP x .97)
- 70 Softex Clear softly etched reflector. (CP x .98)
- 71 Softex Dune softly etched reflector. (CP x .95)
- 72 Black specular Alzak reflector. (CP x .87)

- 77 Softex Pewter softly etched reflector. (CP x .90)
- 90 Softex Champagne Gold softly etched reflector. (CP x .96)
- 91 Softex Wheat softly etched reflector. (CP x .95)
- 92 Umber specular Alzak reflector. (CP x .92)
- 93 Pewter specular Alzak reflector. (CP x .95)
- 94 Custom color reflector or cross baffle. Consult factory.
- OG OptiGroove; black seamless tapered aluminum reflector. White trim. (CP x .90)

Mounting Options

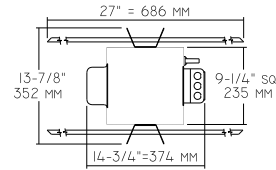
- 79 Extension collar for up to 2" thick ceilings.
- 82 Sloped ceiling adapter, with mounting hardware. Specify 5° increments up to 30°. Not available for HRR-04001, HRR-04002.
- 85 Ceiling Panel; with recessed fixture hole. Lays-in 2' x 2' grid. White.

Other Options

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

HRR-04001
HRR-04002
HRR-06003

Plan View

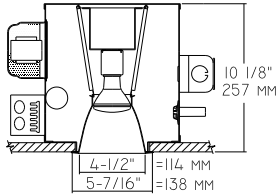


Cone of Light Key

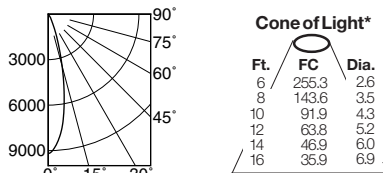
- Ft.** Distance from fixture
- FC** Footcandles (average)
- Dia.** Circle of light at 50% of FC
- * Dia. (in ft.) shown is where FC value is half the FC at nadir.

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

HRR-04001 39W



30° MEDIUM FLOOD

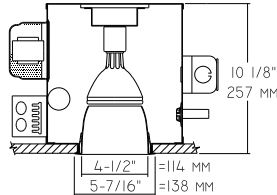


S/MH 0.4

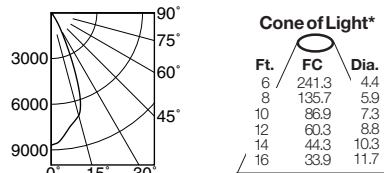
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	9189	9189	9189	9189	9189
5	8212	8212	8212	8212	8212
15	3534	3534	3534	3534	3534
25	727	727	727	727	727
35	23	23	23	23	23
45	0	0	0	0	0
55	0	0	0	0	0
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

EFFIC: 90.7%
ITL TEST #49885
***LER = 36.9**
***AEC = \$6.50**

HRR-04002 70W



40° MEDIUM FLOOD

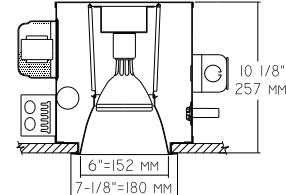


S/MH 0.6

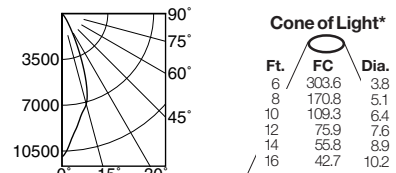
CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	8687	8687	8687	8687	8687
5	8202	8202	8202	8202	8202
15	6363	6363	6363	6363	6363
25	2659	2659	2659	2659	2659
35	514	514	514	514	514
45	101	101	101	101	101
55	1	1	1	1	1
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

EFFIC: 90.5%
ITL TEST #49881
***LER = 46.3**
***AEC = \$5.18**

HRR-06003 70W



40° MEDIUM FLOOD

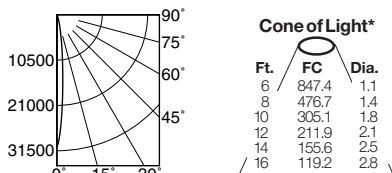


S/MH 0.6

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	10329	10329	10329	10329	10329
5	9407	9407	9407	9407	9407
15	7162	7162	7162	7162	7162
25	2857	2857	2857	2857	2857
35	632	632	632	632	632
45	58	58	58	58	58
55	11	11	11	11	11
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

EFFIC: 95.5%
ITL TEST #49879
***LER = 48.9**
***AEC = \$4.91**

10° NARROW SPOT

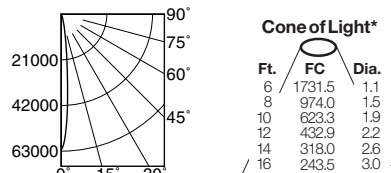


S/MH 0.2

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	30507	30507	30507	30507	30507
5	15564	15564	15564	15564	15564
15	2206	2206	2206	2206	2206
25	476	476	476	476	476
35	136	136	136	136	136
45	34	34	34	34	34
55	0	0	0	0	0
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

EFFIC: 91.4%
ITL TEST #49884
***LER = 37.2**
***AEC = \$6.45**

10° NARROW SPOT

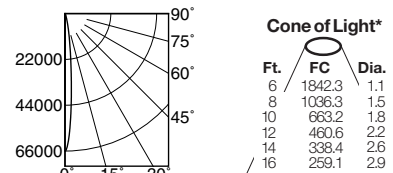


S/MH 0.2

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	62335	62335	62335	62335	62335
5	33879	33879	33879	33879	33879
15	4308	4308	4308	4308	4308
25	697	697	697	697	697
35	124	124	124	124	124
45	143	143	143	143	143
55	22	22	22	22	22
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

EFFIC: 89.1%
ITL TEST #49880
***LER = 45.6**
***AEC = \$5.26**

10° NARROW SPOT



S/MH 0.2

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	66321	66321	66321	66321	66321
5	35181	35181	35181	35181	35181
15	4227	4227	4227	4227	4227
25	918	918	918	918	918
35	176	176	176	176	176
45	135	135	135	135	135
55	0	0	0	0	0
65	0	0	0	0	0
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

EFFIC: 94.2%
ITL TEST #49878
***LER = 48.2**
***AEC = \$4.98**

* **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

CATALOG NUMBER

VOLTAGE

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLLED TO N.E.C. - IN NORMAL USE. Manufacturer at the 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 third party. This warranty is supplied on the understanding that the purchaser has read and understood the terms of this warranty, and that the purchaser has not altered the fixture in any way which would void this warranty. This warranty is void if the fixture is used for any purpose other than that for which it was designed. This warranty is void if the fixture is used for any purpose other than that for which it was designed. This warranty is void if the fixture is used for any purpose other than that for which it was designed.

PS MET HALIDE
REV. SEPT 2015