

Parabolic Downlight: Regressed Lens Optional Industrix Lens for Narrow Distribution

Features

Lamp

- Designed for: 250 watt clear ED/BT-28 MH.
- See Option -43 for lower wattage.
- Option -23 for Mercury, Option -24 for HPS.

Socket

- Vertical. Mogul base.
- Glazed porcelain.
- Nickel-plated brass screw shell. Silicone leads.

Reflector

- Specular Alzak® aluminum.

Trim Assembly

- Seamless tapered black OptiGroove with white flange. Self-flanged trim.
- UV absorbing tempered prismatic low brightness C#73 flat glass.
- Torsion springs retain snug fit to ceiling.
- Optional trims and lenses available.

Ballast Assembly

- WhisperPack™ fully encapsulated 180°C rated HPF ballast: 3 year warranty.
- Premium Class H; CWA 10:9 regulation.

- Capacitor supplied.
- 120 volt standard or see optional voltages.
- Cool, quiet, long-life. Silicone leads.
- Visible and easily serviced in all ceilings including dry wall.

Fuse

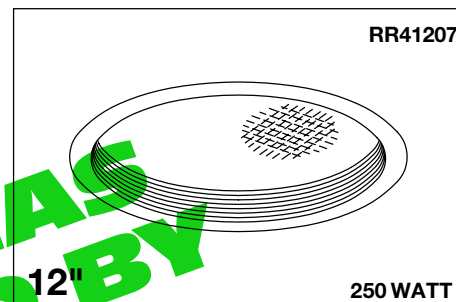
- Fused primary. Renewable. Aids servicing.

Housing

- Acrylic enameled aluminum.
- Cool: Dissipates heat across entire surface area. Ventilated.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through removable trim assembly. For top access see Option -TA.
- Built-in plaster frame.

Outlet Box

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



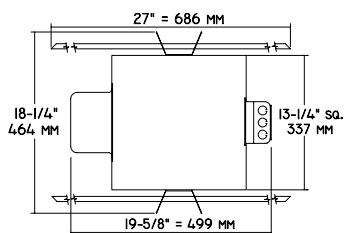
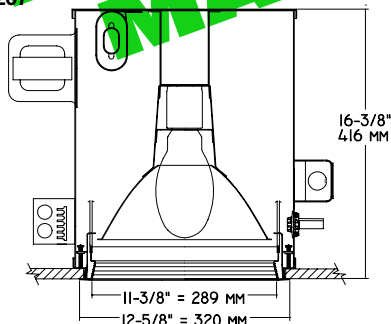
15,300 CP at Nadir
S/MH = 0.8

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.
- **Thermal Protection**
- Per current NEC.

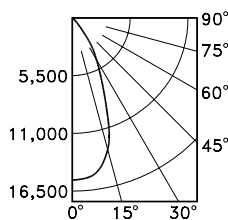
Performance at a Glance

RR41207



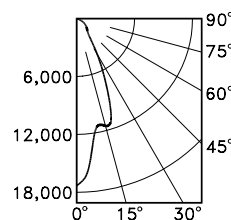
Cone of Light Key

- 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.



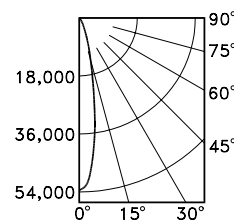
RR41207 S/MH 0.8

Cone of Light*		
Ft.	FC	Dia.
6	424.0	4.7
8	238.5	6.3
10	152.6	7.8
12	106.0	9.4
14	77.9	10.9
16	59.6	12.5



RR41207-FR S/MH 0.7

Cone of Light*		
Ft.	FC	Dia.
6	471.7	4.1
8	265.3	5.4
10	169.8	6.8
12	117.9	8.1
14	86.6	9.5
16	66.3	10.9



RR41207-IN S/MH 0.3

Cone of Light*		
Ft.	FC	Dia.
6	1478.5	2.0
8	831.7	2.6
10	532.3	3.3
12	369.6	3.9
14	271.6	4.6
16	207.9	5.2

THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE • DETROIT, MICHIGAN 48207-4232
(313) 259-6400 • Fax: (313) 259-9409 OR (313) 259-3121 • www.light-link.com/kirlin

MAXIMUM WATTAGE

CATALOG NUMBER

PRECISION LIGHTING
METAL HALIDE

250 ED/BT-28

RR41207

THE KIRLIN COMPANY RESERVES THE RIGHT TO CHANGE, WITHOUT NOTICE, DETAILS OR SPECIFICATIONS IN PRODUCT DESIGN.

Alzak® is a registered trademark of ALCOA.

RR41207

RECESSED ROUND: 250 WATT MOGUL BASE METAL HALIDE

Detailed Photometry - Installed Fixture

FROM I.T.L. (BOULDER, CO)

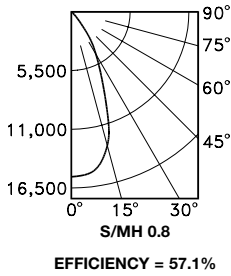
RR41207: TEST NUMBER 43890

RR41207-FR: TEST NUMBER 43892

RR41207-IN: TEST NUMBER 43891

RR41207

*LER = 37.7
•AEC = \$6.37



EFFICIENCY = 57.1%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	15264	15264	15264	15264	15264
5	15113	15113	15113	15113	15113
15	12958	12958	12958	12958	12958
25	7561	7561	7561	7561	7561
35	2765	2765	2765	2765	2765
45	1100	1100	1100	1100	1100
55	491	491	491	491	491
65	274	274	274	274	274
75	127	127	127	127	127
85	1	1	1	1	1
90	0	0	0	0	0

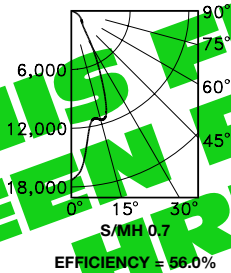
COEFFICIENTS OF UTILIZATION							
RF	20						
	80			50			
RC	70	50	30	10	50	30	10
1	65	63	61	60	59	58	57
2	61	58	56	54	55	54	52
3	58	54	51	49	52	49	48
4	55	50	47	45	49	46	44
5	52	47	44	41	46	43	41
6	50	44	41	38	43	40	38
7	47	42	38	36	41	38	36
8	45	39	36	34	38	36	33
9	43	37	34	32	37	34	31
10	41	35	32	30	35	32	30

* LER = Luminaire Efficacy Rating
LER = Luminaire Effic. x Total Lamp Lumens x Ballast Factor
Input Watts

* AEC = Annual Energy Cost per
1000 lumens (based on 3000
hrs use @ \$0.08 KWH).

RR41207-FR

*LER = 37.0
•AEC = \$6.49



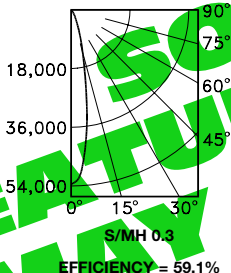
EFFICIENCY = 56.0%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	16980	16980	16980	16980	16980
5	16820	16820	16820	16820	16820
15	14314	14314	14314	14314	14314
25	6994	6994	6994	6994	6994
35	2349	2349	2349	2349	2349
45	1208	1208	1208	1208	1208
55	870	870	870	870	870
65	562	562	562	562	562
75	320	320	320	320	320
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
	80			50			
RC	70	50	30	10	50	30	10
1	63	61	59	58	57	56	55
2	59	56	53	51	53	51	49
3	55	51	48	45	49	46	44
4	52	47	44	41	46	43	40
5	49	44	40	38	43	39	37
6	47	41	37	35	40	37	34
7	44	39	35	32	38	34	32
8	42	36	33	30	35	32	30
9	40	34	31	28	33	30	28
10	38	32	29	27	32	29	27

RR41207-IN

*LER = 39.0
•AEC = \$6.15



EFFICIENCY = 59.1%

CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	53226	53226	53226	53226	53226
5	42769	42769	42769	42769	42769
15	14388	14388	14388	14388	14388
25	4523	4523	4523	4523	4523
35	2050	2050	2050	2050	2050
45	991	991	991	991	991
55	331	331	331	331	331
65	140	140	140	140	140
75	66	66	66	66	66
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION							
RF	20						
	80			50			
RC	70	50	30	10	50	30	10
1	67	66	65	63	62	61	61
2	65	62	60	58	59	58	56
3	62	59	56	54	56	54	53
4	59	55	53	50	54	51	50
5	57	53	50	48	51	49	47
6	55	50	47	45	49	47	45
7	53	48	45	43	47	45	43
8	51	46	43	41	45	43	41
9	49	45	42	40	44	41	39
10	48	43	40	38	42	40	38

Options

- 23 Mercury ballast instead. 250MO standard or see Option -43.
- 24 HPS ballast instead. 250MO-E28 only standard or see Option -43. (NOT FOR G.E. LAMPS)
- 26 Tamper-proof trim. One key/ten fixtures. Also see Option -27.
- 27 Clear 1/4" tempered glass beneath prismatic C#73 flat glass, for vandal resistance. Also see Option -26.
- 32 Trim extender. Broadens trim flange O.D. by 1".
- 40 White grooveless regressed flare trim instead.
- 43 Lower wattage - specify wattage and voltage for: Metal Halide: 175MO; Mercury: 175MO; HPS: 150MO.
- 45 Gasket between trim and ceiling.

- 46 Gasket between trim and lens.
- 49 Extra circuit DCB socket. (150 watt max.) Must not be energized simultaneously with main source.
- 58 277 volt 60 Hz. ballast instead.
- 65 Standby relay and DCB socket. (150 watt max.) With fixture energized, provides immediate light during HID outage. Also see Option -66.
- 66 Time delay standby relay and DCB socket. (150 watt max.) When energized, provides light until HID reaches 70% output.
- 94 Custom color trim assembly. Consult factory.
- 97 Other voltage ballast. Consult factory.
- 99 Special modification. Consult factory.
- FR Fresnel tempered lens instead. Concentric prisms.

- FT Flat white trim instead. Standard with prismatic glass or add Option -IN or -FR.
- HL High to Low light output - provides 100% to 50% bi-level lighting. 120 or 277V only for 250, 175MH or 250, 150 HPS. Requires separate control circuit.
- IN Indus-trix glass instead. Concentrates distribution.
- LP With clear lamp. Specify source, wattage and color temperature (3700°K standard for MH.) Consult factory for other color temperatures.
- LS With tungsten halogen standby lamp. (150 watt max. Use only with Options -49, -65 or -66.
- TA Top Access modification for servicing from above ceiling.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____

TYPE _____

WATTAGE _____ VOLTAGE _____

CATALOG NUMBER _____

LIMITED WARRANTY: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. IS NOT NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of a proof of purchase and defective fixture to 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 from the manufacturer and shall apply to the fixture only.