

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. Silicone leads.
- Nickel-plated brass screw shell.

Reflector

- Specular Alzak® aluminum.

Trim Assembly

- Seamless tapered black OptiGroova with white interlocking flange.
- UV absorbing tempered low brightness C#73 flat prismatic glass.
- 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.

Fuse

- Fused primary. Renewable. Aids servicing.

Housing

- Seamless, deep drawn acrylic enameled aluminum. White finish.
- Cool: Dissipates heat across entire surface area. Ventilated.
- Rustproof. Exceeds 1000 hour ASTM 5% salt spray test.
- No visible cylinder hardware.

Installation

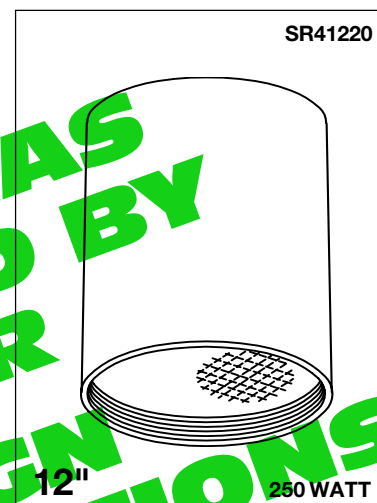
- Center point mounting with snug fit to ceiling.
- Indoor or outdoor for covered ceiling use.
- Mounting beneath surface outlet box available. (see Option -80)

UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings. (see Option -89)

Three Year Limited Warranty

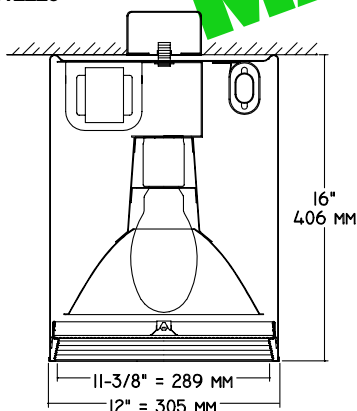
- Complete standard fixture.



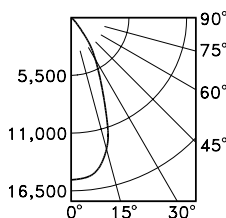
54,000 CP with Option -IN

Performance at a Glance

SR412220



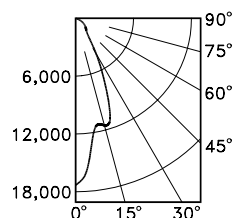
Cone of Light Key
Ft. Distance from fixture
FC Footcandles (average)
Dia. Circle of light at 50% of FC
 * Dia. (in ft.) shown is where FC value is half the FC at nadir.



SR412220 S/MH 0.8

Cone of Light*

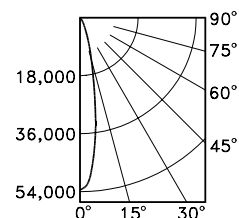
Ft.	FC	Dia.
6	424.0	4.7
8	238.5	6.3
10	152.6	7.8
12	106.0	9.4
14	77.9	10.9
16	59.6	12.5



SR412220-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



SR412220-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

SR41220

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Alzak® is a registered trademark of ALCOA.

SR41220

SURFACE ROUND: 250 WATT MOGUL BASE METAL HALIDE

Detailed Photometry - Installed Fixture

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

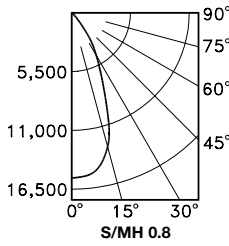
SR41220: TEST NUMBER 43890

SR41220-FR: TEST NUMBER 43892

SR41220-IN: TEST NUMBER 43891

SR41220

*LER = 37.7
•AEC = \$6.37

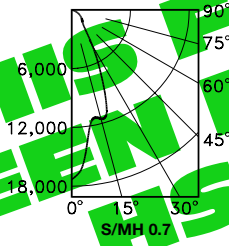


CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	15264	15264	15264	15264	15264
5	15113	15113	15113	15113	15113
15	12958	12958	12958	12958	12958
25	7561	7561	7561	7561	7561
35	2765	2765	2765	2765	2765
45	1100	1100	1100	1100	1100
55	491	491	491	491	491
65	274	274	274	274	274
75	127	127	127	127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

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

SR41220-FR

*LER = 37.0
•AEC = \$6.49

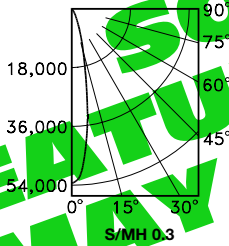


CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	16980	16980	16980	16980	16980
5	13820	13820	13820	13820	13820
15	11314	11314	11314	11314	11314
25	6994	6994	6994	6994	6994
35	2349	2349	2349	2349	2349
45	1208	1208	1208	1208	1208
55	870	870	870	870	870
65	562	562	562	562	562
75	320	320	320	320	320
85	0	0	0	0	0
90	0	0	0	0	0

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

SR41220-IN

*LER = 39.0
•AEC = \$6.15



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	4823	4823	4823	4823	4823
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	30	10	50
RC	70	50	30	10	50
1	67	66	65	63	62
2	65	62	60	58	59
3	62	59	56	54	56
4	59	55	53	50	54
5	57	53	50	48	51
6	55	50	47	45	49
7	53	48	45	43	47
8	51	46	43	41	45
9	49	45	42	40	44
10	48	43	40	38	42

THIS FIXTURE HAS BEEN REPLACED BY SR41220-FR OR SR41220-IN. SOME FEATURES OR OPTIONS MAY HAVE BEEN CHANGED.

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

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

LIMITED WARRANTY: CATALOGUED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION, MAINTENANCE, AND REPAIRS ARE THE RESPONSIBILITY OF THE USER. THE PURCHASER AGREES TO HOLD KIRLIN HARMLESS FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES, INCLUDING ATTORNEY'S FEES, ARISING OUT OF OR FROM THE USE OF THESE FIXTURES. THIS WARRANTY IS VOID IF THE FIXTURES ARE USED IN A MANNER NOT INTENDED BY THE MANUFACTURER. THE USER SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF THE FIXTURES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER SELECTION OF THE FIXTURES. THE USER SHALL BE RESPONSIBLE FOR THE PROPER SELECTION OF THE FIXTURES.

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)
- 27 Clear 1/4" tempered glass beneath prismatic C#73 flat glass instead, for vandal resistance.
- 35 Silver enameled housing finish instead.
- 36 Gold enameled housing finish instead.
- 37 Dark Bronze enameled housing finish instead.
- 38 Black enameled housing finish instead.
- 40 White grooveless regressed flare trim instead.
- 43 Lower wattage - specify wattage and voltage: Metal Halide: 175MO; Mercury: 175MO; HPS: 150MO.
- 45 Gasket between trim and housing.
- 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.
- 80 Extension collar. (Surface outlet box mount)
- 87 Custom -PM length. Specify up to 4 feet or consult factory. Use with Option -PM.
- 88 Swivel canopy for sloped ceilings up to 45°. Earthquake rated. Use with Option -PM.
- 89 Sealed top feature prevents moisture and insect intrusion from above in outdoor or high humidity areas. Use with Option -PM or -WB.
- 94 Custom color trim or housing. Consult factory.
- 97 Other voltage ballast. Consult factory.
- 99 Special modification. Consult factory.
- FR Fresnel tempered lens instead. Concentric prisms.
- FT Flat trim with C#73 glass or add optional lens.
- HL High to Low light output - provides 100% to 50% bi-level lighting. 120 or 277V only for 175 or 250 MH or 150 HPS only. Requires separate control circuit.
- IN Industrix 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.
- PM Pendant mount instead. 3/8" T.S. x 18" standard. Also see Options -87, -88 and -89.
- WB Wall bracket mount instead. Also see Option -89. 7" arm length.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____

TYPE _____

WATTAGE _____ VOLTAGE _____

CATALOG NUMBER _____