

100 Watt Metal Halide

High Efficiency: Super Shallow

Features

Lamp

- Designed for:
 - 100 watt coated E/ED-17 (by others).
- See Option -43 for optional lower wattage.
- See Option -24 for HPS.

Socket

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

Reflectors

- Upper: Specular ellipsoidal Alzak® aluminum.
- Lower: Low brightness parabolic specular Alzak aluminum. Self-flanged.
- Fourteen optional lower cone finishes available. See Options.

Lens

- UV absorbing clear tempered glass mounted to upper reflector. Optional lens available.

Ballast Assembly

- WhisperPack™ fully encapsulated 180°C rated HPF ballast.

- Premium Class H high reactance with 5:12 regulation.
- Capacitor and ignitor 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.
- Rustproof. Exceeds 1000 hour ASTM 5% salt spray test.
- Entire luminaire serviced through removable reflector.
- Built-in plaster frame.

Outlet Box

- Prewired 14GA (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 (4).
- Recesses indoor or outdoor in covered locations.

UL, C-UL (Canada) Listings

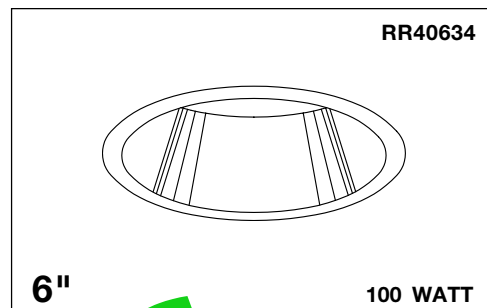
- Wet, damp or dry locations, covered ceilings.
- Through-branch circuit conductors (6#12).

Three Year Limited Warranty

- Complete standard fixture.

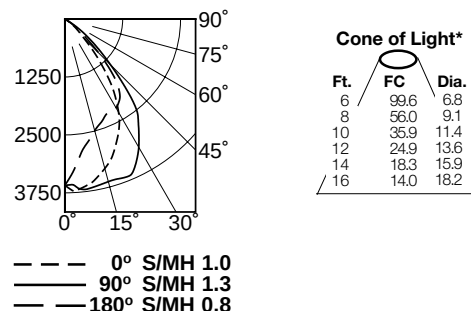
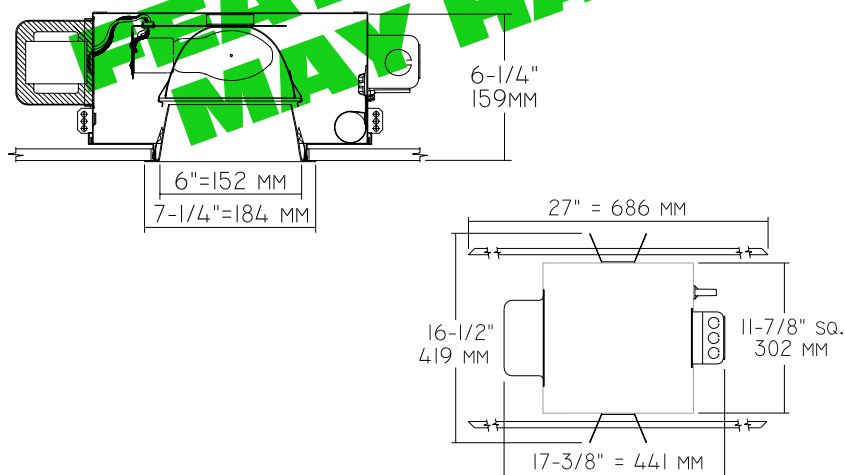
Thermal Protection

- Per current NEC.



Dual Reflector
Low Brightness

Performance at a Glance



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.

Distribution curve and S/MH data shown are 90° to lamp axis.

THE KIRLIN COMPANY

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

LAMP

MAXIMUM WATTAGE

CATALOG NUMBER

HIGH EFFICIENCY
METAL HALIDE LIGHTING

E/ED-17

100

RR40634

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

RR40634

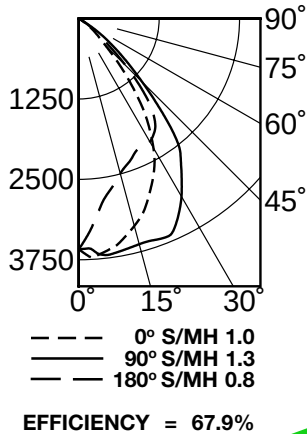
RECESSED ROUND: 100 WATT MEDIUM BASE METAL HALIDE

Detailed Photometry - Installed Fixture

FROM I.T.L. (BOULDER, CO) RR40634: TEST No. 51939
RR40634-70: TEST No. 51940

RR40634

*LER = 39.1 •AEC = \$6.14



CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	3587	3587	3587	3587	3587
5	3679	3685	3677	3346	3101
15	3338	3643	3632	2906	2495
25	2732	3251	3554	2676	2218
35	1781	2387	2774	2162	2074
45	574	1017	1398	1131	1035
55	148	275	391	315	217
65	4	4	4	8	8
75	0	0	0	0	0
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20						
RC	80				50		
RW	70	50	30	10	50	30	10
1	77	74	73	71	70	69	68
2	72	68	65	62	65	62	60
3	68	63	59	55	60	57	54
4	63	57	53	50	55	52	49
5	59	53	48	45	51	47	44
6	56	49	44	41	47	43	40
7	52	45	40	37	44	40	37
8	49	42	37	34	40	36	34
9	46	39	34	31	38	34	31
10	44	36	32	29	35	31	29

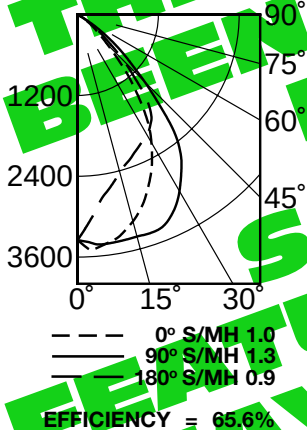
* LER = Luminaire Efficacy Rating

LER = (Luminaire Output in Lumens) / (Total Lamp Lumens x Ballast Factor)

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

RR40634-70

*LER = 37.8 •AEC = \$6.35



CANDLEPOWER DISTRIBUTION

	0.0	45.0	90.0	135.0	180.0
0	3347	3347	3347	3347	3347
5	3471	3473	3425	3132	2945
15	3178	3423	3411	2798	2419
25	2587	3027	3291	2517	2158
35	1704	2290	2692	2019	1912
45	635	1053	1410	1111	984
55	181	309	424	350	257
65	16	20	24	26	28
75	4	4	4	6	8
85	0	0	0	0	0
90	0	0	0	0	0

COEFFICIENTS OF UTILIZATION

RF	20						
RC							
EW	70	50	30	10	50	30	10
1	74	72	70	68	68	66	65
2	69	66	63	60	62	60	58
3	65	60	56	53	57	54	52
4	61	55	51	48	53	49	47
5	57	51	46	43	49	45	42
6	53	47	42	39	45	41	38
7	50	43	38	35	42	38	35
8	47	40	35	32	39	35	32
9	44	37	33	29	36	32	29
10	42	35	30	27	34	30	27

Estimated Multipliers

-16 Champagne Gold Alzak®: CP x .95
 -30 White: CP x .95
 -63 Dune Alzak: CP x .93
 -69 Wheat Alzak: CP x .92

-70 Clear SofTex: CP x .92
 -71 Dune SofTex: CP x .89
 -72 Black Alzak: CP x .77
 -90 Champagne Gold SofTex: CP x .90

-91 Wheat SofTex: CP x .88
 -92 Umber Alzak: CP x .83
 -93 Pewter Alzak: CP x .88
 -OG OptiGroove: CP x .75

Options

- 15 UV absorbing tempered prismatic flat glass. Spread distribution.
- 16 Champagne Gold Alzak lower cone. (CP x .95)
- 24 HPS ballast instead. Specify wattage and voltage.
- 30 White lower cone. (CP x .95)
- 31 White flange (only) on lower cone.
- 32 Trim extender. Broadens trim flange O.D. by 1".
- 43 Lower wattage. Specify wattage and voltage for either MH: 70, 50W; or HPS: 70, 50W.
- 45 Gasket above reflector flange. Stops dust streaks.
- 49 Extra circuit DCB socket. (100W max.) Do not energized simultaneously with main source.

- 58 277 volt 60 Hz. ballast instead.
- 63 Dune specular Alzak lower cone. (CP x .93)
- 65 Standby relay and DCB socket. (100W max.) With fixture energized, provides immediate light during HID outage.
- 66 Time delay relay and DCB socket. (100W max.) When energized provides light until HID reaches 70% output.
- 69 Wheat specular Alzak lower cone. (CP x .92)
- 70 SofTex Clear etched lower cone. (CP x .92)
- 71 SofTex Dune etched lower cone. (CP x .89)
- 72 Black specular Alzak lower cone. (CP x .77)
- 77 SofTex Pewter lower cone. (CP x .85)
- 82 Sloped ceiling adapter. With mounting hardware. Specify 5° increments up to 30°.
- 90 SofTex Champagne Gold etched lower cone.

- (CP x .90)
- 91 SofTex Wheat etched lower cone. (CP x .88)
- 92 Umber specular Alzak lower cone. (CP x .83)
- 93 Pewter specular Alzak lower cone. (CP x .88)
- 94 Custom color lower cone. Consult factory.
- 96 Regulating electronic MH ballast instead.
- 97 Other voltage ballasts. Consult factory.
- 99 Special modification. Consult factory.
- LP With lamp. Specify source, wattage, color temperature and clear or coated (3200°K standard for MH). Consult factory for other color temperatures.
- LS With tungsten halogen standby lamp. (100W max.) Use only with Options -49, -65, -66.
- OG OptiGroove black seamless tapered aluminum lower cone. White trim. (CP x .75)

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____

TYPE _____

WATTAGE _____ VOLTAGE _____

CATALOG NUMBER _____