

PRISMATIC KIRLIN LENS: SMALL SIZE - GREAT EFFICIENCY

10"

Features

Lamp

- 100 watt clear E/ED-17 vertical.
- See Option -43 for optional lower wattage.
- Option -23 for Mercury, Option -24 for HPS.

Socket

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

Reflector

- GlassSurfaced™ multi-faceted specular aluminum.

Trim Assembly

- UV absorbing tempered prismatic shock-resisting spread Kirlin lens.
- UV absorbing tempered low brightness prismatic flat glass available (Option -15).
- Rust-free polished nickel stainless door (304-L) and captive thumb screw. Slender with concealed hinges for fast relamping.
- Attractively beveled cast aluminum frame tooled to ensure close fit with door.
- Drop Holophane tempered lens available (Option -DH).

Ballast Assembly

- WhisperPack™ fully encapsulated 180°C rated HPF ballast.
- Premium Class H high reactance; 5:12 regulation.
- Capacitor and ignitor supplied.
- 120 volt standard or see optional voltages.
- Cool, quiet, long-life. Silicone leads.

Fuse

- Fused primary. Renewable. Aids servicing.

Housing

- Tempered, rigid, rustproof aluminum: Exceeds 1000 hour ASTM 5% salt spray test.
- Cool: Dissipates heat across entire surface area.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- No visible housing hardware.
- White acrylic enameled finish is standard.

Installation

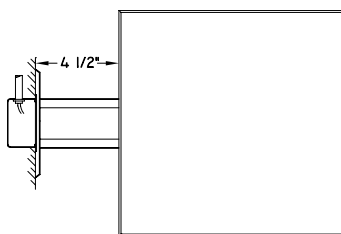
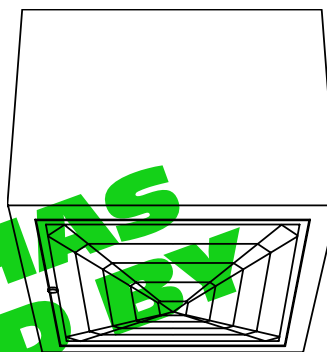
- Center point mounting with snug fit to ceiling.
- Indoor or outdoor for covered ceiling use (See Option -89)
- Mounting beneath surface outlet box available (Option -80).

UL Listing

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

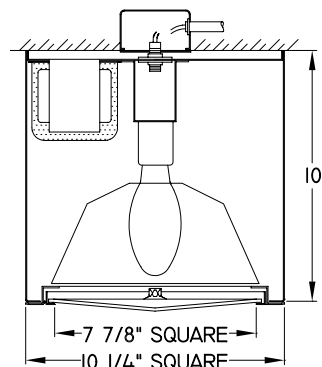
Three Year Limited Warranty

- Complete standard fixture.



PLAN VIEW SHOWN WITH OPTIONAL
WALL-BRACKET (OPTION -WB)

APPROVAL STAMP



THE KIRLIN COMPANY

3401 EAST JEFFERSON AVENUE ■ DETROIT, MICHIGAN 48207-4232
(313) 259-6400 ■ FAX: (313) 259-9409 OR (313) 259-3121

**HIGH EFFICIENCY
METAL HALIDE LIGHTING**

LAMP
E/ED-17

WATTAGE
100

SS51070

SS51070 SURFACE SQUARE: 100 WATT MEDIUM BASE METAL HALIDE

KIRLIN

Performance at a Glance - Installed Fixture

SS51070

Ft.	FC	DIA.
6	104.4	4.7
8	58.7	6.2
10	37.6	7.8
12	26.1	9.3
14	19.2	10.9
16	14.7	12.4

SS51070-15

Ft.	FC	DIA.
6	104.3	5.9
8	58.7	7.9
10	37.6	9.9
12	26.1	11.9
14	19.2	13.9
16	14.7	15.8

SS51070-DH

Ft.	FC	DIA.
6	158.4	3.0
8	89.1	4.0
10	57.0	5.0
12	39.6	6.0
14	29.1	7.0
16	22.3	8.1

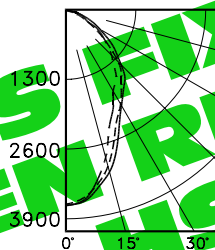
Cone of Light Key

Ft. Distance to surface from fixture (mounting height)
FC. Footcandles
DIA. Diameter (in feet) of circle of light
When FC value is half the FC at 1 ft., the FC at 1 ft. is double the FC value.
When FC value is half the FC at 1 ft., the FC at 1 ft. is double the FC value.

Photometric Data - Installed Fixture

SS51070

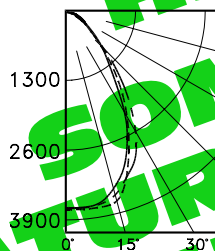
— 0° S/MH 0.9
--- 45° S/MH 0.8
--- 90° S/MH 0.9
EFF. = 65.4%



	0.0	22.5	45.0	67.5	90.0
0°	3758	3758	3758	3758	3758
15°	3643	3634	3624	3650	3660
30°	3102	2978	2862	2993	3187
45°	2278	2168	2015	2191	2394
60°	1807	1698	1629	1794	1926
75°	1378	1194	1172	1279	1521
90°	1035	824	666	754	882
105°	400	348	443	373	438
120°	156	150	205	163	174
135°	29	34	44	35	33
150°	3	3	3	3	3

SS51070-15

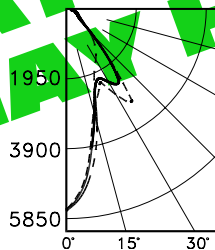
— 0° S/MH 1.0
--- 45° S/MH 1.1
--- 90° S/MH 1.0
EF. = 65.4%



	0.0	22.5	45.0	67.5	90.0
0°	3756	3756	3756	3756	3756
15°	3738	3754	3754	3762	3752
30°	3434	3483	3540	3603	3650
45°	2728	2858	3059	2978	2792
60°	1710	1847	2065	2024	1827
75°	889	991	1043	1074	987
90°	468	501	472	542	438
105°	227	241	251	250	218
120°	122	129	140	131	132
135°	45	50	49	52	44
150°	0	0	0	0	0

SS51070-DH

— 0° S/MH 0.5
--- 45° S/MH 0.5
--- 90° S/MH 0.5
EFF. = 65.6%



	0.0	22.5	45.0	67.5	90.0
0°	5701	5701	5701	5701	5701
15°	5263	5291	5313	5250	5191
30°	2952	2886	3352	3032	2922
45°	2207	1939	1847	2048	2379
60°	2526	1549	1409	1579	3131
75°	1171	753	872	767	1140
90°	439	424	483	442	486
105°	320	327	333	355	354
120°	266	276	251	298	279
135°	168	186	173	204	169
150°	114	140	134	141	110

COEFFICIENTS OF UTILIZATION

RF	RC	80	50	30	10	50	30	10
1	72	70	68	65	66	64	62	62
2	67	62	59	55	59	56	54	54
3	62	56	51	48	53	50	47	47
4	57	51	46	42	48	44	41	41
5	53	46	41	37	44	40	36	36
6	50	42	37	33	40	36	33	33
7	46	39	33	30	37	33	29	29
8	44	36	31	27	34	30	27	27
9	41	33	28	25	32	28	25	25
10	39	31	26	23	30	26	23	23

RF	RC	80	50	30	10	50	30	10
1	73	70	68	66	66	65	63	63
2	68	64	60	57	60	58	55	55
3	63	58	54	50	55	52	49	49
4	59	53	48	45	51	47	44	44
5	55	48	44	40	46	43	40	40
6	52	45	40	36	43	39	36	36
7	49	41	36	33	40	36	33	33
8	46	38	34	30	37	33	30	30
9	43	36	31	28	35	31	28	28
10	41	33	29	26	32	28	26	26

RF	RC	80	50	30	10	50	30	10
1	71	68	66	63	63	61	60	60
2	66	61	57	54	57	54	51	51
3	61	55	51	47	52	48	45	45
4	57	50	45	41	47	43	40	40
5	53	46	41	37	43	39	36	36
6	50	42	37	34	40	36	33	33
7	47	39	34	31	37	33	30	30
8	44	36	31	28	35	31	28	28
9	42	34	29	26	33	28	26	26
10	39	32	27	24	31	27	24	24

Options

- 15 UV absorbing tempered low brightness prismatic flat glass instead.
- 23 Mercury ballast instead. 100ME standard or see Option -43. Specify voltage.
- 24 HPS ballast instead. 100ME standard or see Option -43. Specify voltage.
- 26 Tamper-proof recessed hex, center pin, button door screw with key. One key provided per ten fixtures. See also -27.
- 27 Clear 1/4" tempered glass beneath prismatic flat lens, for vandal resistance. Also see Option -26.
- 29 White Son ballast instead. For ED-17 medium base lamp. 100 watt standard in 120 volt only. Consult factory for 277 volt.
- 35 Silver enameled housing and frame finish.
- 36 Gold enameled housing and frame finish.
- 37 Bronze enameled housing and frame finish.

- 38 Black enameled housing and frame finish.
- 43 Lower wattage medium base - specify voltage and wattage for: Metal Halide: 70, 50; Mercury: 75, 50; HPS: 70, 50, 35; White Son: 50.
- 46 Gasket between trim and lens.
- 49 Extra circuit DCB socket. (100 watt max.) Must not be energized simultaneously with main source.
- 58 277 volt 60 Hz. ballast instead.
- 65 Relay and DCB socket. (100 watt max.) With fixture energized, provides immediate light during HID outage. Also see Option -66.
- 66 Time delay relay and DCB socket. (100 watt max.) When energized, provides light until HID reaches 70% output.
- 80 Extension collar with two-1/2" knockouts (180° apart) for mounting luminaire beneath surface outlet box.
- 87 Custom -PM length. Specify up to 5 feet or consult factory. Use with Option -PM.

- 88 Swivel canopy for sloped ceilings up to 45°.
- 89 Weather Cap - required when luminaire is installed without covered ceiling protection.
- 94 Custom color frame and housing. Consult factory.
- 97 Other voltage ballasts. Consult factory.
- 99 Special modification. Consult factory.
- DH Drop Holophane tempered lens instead. With lamp. Specify source, wattage, color temperature, and clear or coated (3200°K standard for 100MH). Consult factory for other color temperatures.
- LS With tungsten halogen standby lamp. (100 watt max.) Use only with Options -49, -65 or -66.
- PM Pendant mount instead. 3/8" T.S. x 18" standard or see Option -87.
- WB Wall bracket mount instead. 4-1/2" arm.

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SS51070

WATTAGE

100

LAMP

E/ED-17

HIGH EFFICIENCY
METAL HALIDE LIGHTING

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 such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at the offices 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 to the buyer in place of all other warranties, expressed or implied. Seller does not warrant as to merchantability or fitness for a particular use, nor will any oral statement 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 authorization from the manufacturer will render the warranty void.