

Downlight or Offset Distribution: Halogen Resistant Housings for Gyms, Pools, Food Processing**

Features

Lamp

- Designed for:
400 watt coated BT-37 metal halide horizontal lamp (by others).
- See Option -43 for lower wattage.
- Option -23: Mercury; Option -24: HPS

Socket

- Mogul base. Position oriented.
- SS51980: Horizontal.
- SS51981: Offset horizontal.
- Glazed porcelain.
- Nickel-plated brass screw shell. High temperature rated silicone leads: moisture resistant.

Reflector

- GlasSurfaced™ multifaceted specular aluminum. Exceptionally efficient.

Lens

- High strength acrylic prismatic drop lens.
- Optional prismatic polycarbonate lens for added impact resistance. (Option -42)
- Suitable for wash down applications.
- High temperature silicone gasket prevents moisture or insect intrusion from below.
- Four mounting screws secure lens to housing assembly.

Ballast Assembly

- WhisperPack™ fully encapsulated 180°C rated HPS ballast.
- Cool, quiet, long-life. Silicone leads.
- Premium Class H, CWA 10/10 regulation.
- Capacitor supplied.
- 120 volt standard or see optional voltages.
- Metal halide pulse start ballast. Option -67.

Fuse

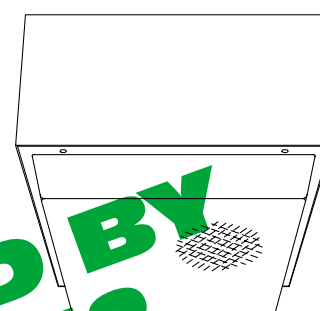
- Fused primary. Renewable. Aids servicing.

Housing

- Tempered, rugged .080" thick aluminum. White acrylic enameled finish is standard. Optional housing colors available.
- Halogen resistant and rustproof. Will not rust in heavily chlorinated atmosphere. Exceeds 1000 hour ASTM 5% salt spray test.
- Cool: Dissipates heat across entire surface area.
- Optional premium stainless steel 304-L (low carbon) housing instead. Brushed (Option -SB) or Polished (Option -SP).

SS51980

SS51981



**Uniform Lighting Below, Around and Above:
Eliminates "Cave-like" Effect of Other
Downlights**

Aluminum or Stainless Steel

- Entire luminaire visible and serviceable from below through lens assembly.

Installation

- Center point mounting with snug fit to ceiling or use four knock-outs provided.
- Indoor or outdoor for covered ceiling use (see Option -89).
- Mounting beneath surface outlet box available (Option -80).
- SS51981: Ideal above pool apron.

UL, C-UL (Canada) Listings

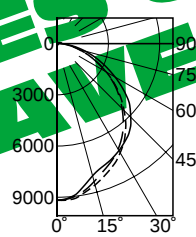
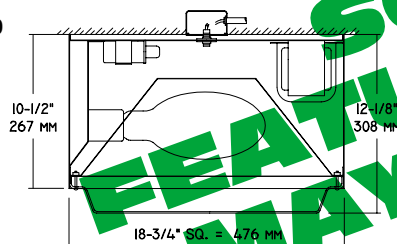
- Wet, damp or dry locations, covered ceilings. (See Option -89)

Three Year Limited Warranty

- Complete standard fixture.

Performance at a Glance

SS51980



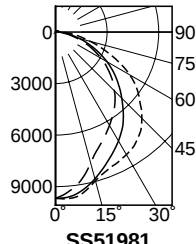
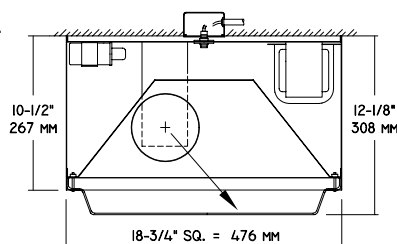
--- 0° S/MH 1.2
— 90° S/MH 1.2
— 180° S/MH 1.2

Cone of Light*

Ft.	FC	Dia.
6	255.0	7.1
8	143.4	9.4
10	91.8	11.8
12	63.7	14.1
14	46.8	16.5
16	35.9	18.8

SS51980

SS51981



--- 0° S/MH 1.3
— 90° S/MH 1.1
— 180° S/MH 1.0

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.

THE KIRLIN COMPANY

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

LAMP

MAXIMUM WATTAGE

CATALOG NUMBERS

**HIGH EFFICIENCY
METAL HALIDE LIGHTING**

**BT-37
BT-37**

**400
400**

**SS51980
SS51981**

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

**Meets present U.S.D.A. guidelines.

SS51980
SS51981

SURFACE SQUARE: 400 WATT MOGUL BASE METAL HALIDE

KIRLIN

Detailed Photometry - Installed Fixture

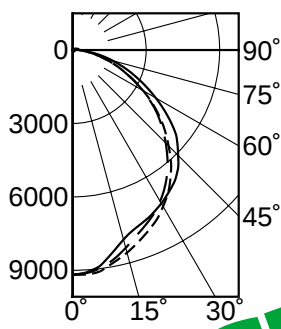
FROM I.T.L. (BOULDER, CO) SS51980: TEST NUMBER 47475
SS51981: TEST NUMBER 47476

SS51980

*LER = 60.2
•AEC = \$3.98

CANDLEPOWER DISTRIBUTION

COEFFICIENTS OF UTILIZATION



	0.0	45.0	90.0	135.0	180.0
0	9179	9179	9179	9179	9179
10	8901	8777	8562	8644	8798
30	7383	7229	7239	7127	7137
50	4840	5629	5537	5547	4717
70	1928	2953	2389	2861	1907
90	267	410	297	410	267
110	144	123	144	123	144
130	0	0	0	0	0
150	0	0	0	0	0
170	0	0	0	0	0
180	0	0	0	0	0

RF	20						
RC	80				50		
RW	70	50	30	10	50	30	10
1	78	75	71	68	69	67	65
2	71	65	60	55	60	56	53
3	65	57	51	46	53	48	44
4	59	50	44	39	47	42	38
5	54	45	38	33	42	37	32
6	50	40	34	29	38	32	28
7	46	36	30	25	34	29	25
8	43	33	27	23	32	26	22
9	40	30	24	20	29	24	20
10	38	28	22	18	27	22	18

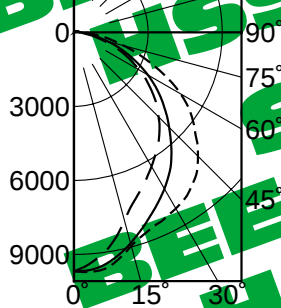
--- 0° S/MH 1.2
--- 90° S/MH 1.2
--- 180° S/MH 1.2
EFFICIENCY = 72.6%

SS51981

*LER = 59.7
•AEC = \$4.02

CANDLEPOWER DISTRIBUTION

COEFFICIENTS OF UTILIZATION



	0.0	45.0	90.0	135.0	180.0
0	9682	9682	9682	9682	9682
10	9475	9516	9311	8901	8716
30	8244	7834	7321	6501	6275
50	6419	6142	4789	4553	4307
70	2994	3189	2061	2061	1784
90	410	492	246	287	164
110	144	123	113	82	103
130	0	0	0	0	0
150	0	0	0	0	0
170	0	0	0	0	0
180	0	0	0	0	0

RF	20						
RC	80				50		
RW	70	50	30	10	50	30	10
1	78	74	71	68	68	67	64
2	71	64	59	55	60	56	53
3	64	57	51	46	53	48	44
4	59	50	44	39	47	42	38
5	54	45	38	33	42	37	33
6	50	40	34	29	38	33	29
7	46	36	30	26	35	29	25
8	43	33	27	23	32	26	23
9	40	31	25	21	29	24	20
10	38	28	23	19	27	22	18

(OBJECT>) --- 0° S/MH 1.3
--- 90° S/MH 1.1
--- 180° S/MH 1.0
EFFICIENCY = 72.0%

Options

- 23 Mercury ballast instead. 400MO standard or see Option -43. Specify voltage.
- 24 HPS ballast instead. 400MO standard or see Option -43. Specify voltage.
- 35 Silver enameled finish instead.
- 36 Gold enameled finish instead.
- 37 Dark Bronze enameled finish instead.
- 38 Black enameled finish instead.
- 42 Prismatic polycarbonate drop lens instead for added impact resistance. UV stabilized.
- 43 Lower wattage mogul base - specify voltage and wattage for: Metal Halide: 250, 175; Mercury: 250, 175; HPS: 250, 150.
- 49 Extra circuit DCB socket. (150 watt max.) Must not be energized simultaneously with main source.
- 56 277 volt 60 Hz. ballast instead.
- 65 Relay and DCB socket. (150W max.) With fixture energized, provides immediate light during HID outage. Also see Option -66.
- 66 Time delay relay and DCB socket. (150W max.) When energized, provides light until HID reaches 70% output.
- 67 Pulse start ballast instead. Consult factory for availability and latest restrictions.
- 80 2" extension collar with two T.S. 1/2" knockouts for mounting beneath surface outlet box.
- 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 WeatherCap prevents moisture and insect intrusion from above. Use with Option -PM or -WB.
- 94 Custom color housing. Consult factory.
- 97 Other voltage ballasts. Consult factory.
- 99 Special modification. Consult factory.
- LP With lamp. Specify source, wattage, °K, and clear or coated (3700°K standard for MH). Consult factory for other color temperatures.
- LS With tungsten halogen standby lamp. (150W max.) Use only with Options -49, -65, or -66.
- PM Pendant mount instead. 3/8" T.S. x 18" standard or see Option -87.
- SB Brushed stainless steel (304-L low carbon) 18 GA. housing instead.
- SP Polished stainless steel (304-L low carbon) 18 GA. housing instead.
- WB Consult factory for wall bracket availability.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____
TYPE _____
WATTAGE _____ VOLTAGE _____
CATALOG NUMBER _____