

Direct - Indirect: Resort / Mall / Theater Indoor and Outdoor (Optional)

Features

Lamps

- Designed for: 2-100 watt coated E/ED-17 metal halide universal (direct and indirect)
- See Option -43 for lower wattage.
- Option -23 for Mercury, Option -24 for HPS.

Sockets

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

Reflectors

- GlasSurfaced™ multi-faceted specular aluminum.

Trim Assemblies

Direct and Indirect Positions:

- UV absorbing tempered prismatic shock-resisting spread Kirlin lens.
- 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.
- Tempered low brightness prismatic C#73 flat glass available. (Option -15)

Direct Position:

- Drop Hologram tempered lens available. (Option -DH)

Ballast Assembly: 3 Year Warranty

- Two WhisperPack™ fully encapsulated 180°C rated HPF ballasts.
- Premium Class H, High reactance 5:1:2 regulation.
- Two capacitors and ignitors supplied.
- 120 volt standard or see optional voltages.
- Cool, quiet, long-life. Silicone leads.

Fuse

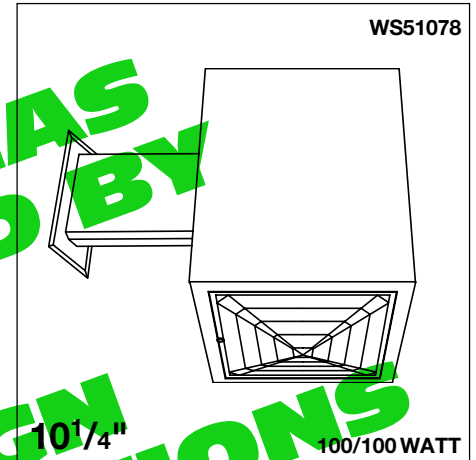
- Fused primary. Renewable. Aids servicing.

Housing

- Tempered, rugged .080" thick aluminum, mig welded and polished with wall bracket.
- White acrylic enameled finish.
- Cool: Dissipates heat across entire surface area.
- Rustproof: Exceeds 1000 hour ASTM 5% salt spray test.
- No visible housing hardware.

Installation

- 6" wall bracket extrusion assembled to housing. Wall plate included.



**71% Efficiency
Compact Size**

For Outdoor Use: Add Option -86

- Indoor or outdoor (see Option -86) for covered ceiling use.

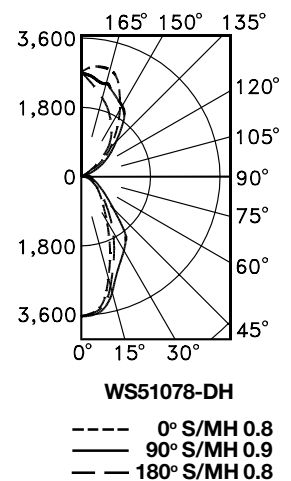
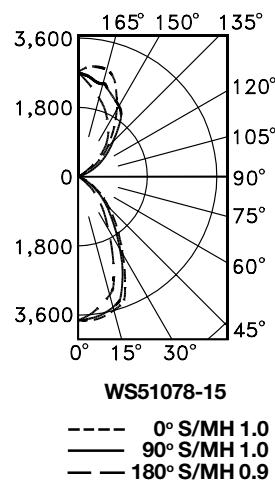
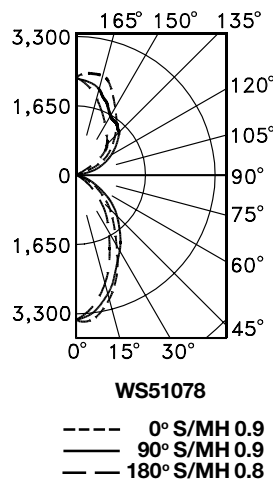
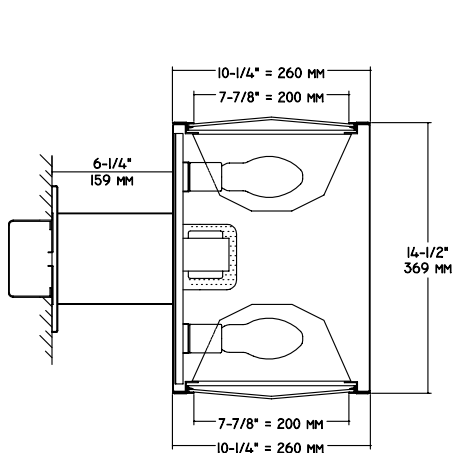
UL, C-UL (Canada) Listings

- Wet, damp or dry locations, covered ceilings. (See Option -86)

Three Year Limited Warranty

- Complete standard fixture.

Performance at a Glance



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**

100/100 E/ED-17

WS51078

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

WS51078

WALL BRACKET SQUARE: 100/100 WATT MEDIUM BASE METAL HALIDE

Detailed Photometry - Installed Fixture

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

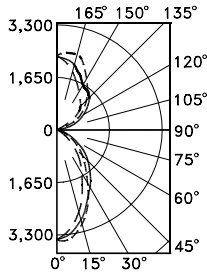
WS51078: TEST NUMBER 38655
WS51078-15: TEST NUMBER 38656
WS51078-DH: TEST NUMBER 38197 / 38656

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. / NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of proof of purchase and defective fixture at 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 for the fixture only and does not cover other components, 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 written authorization from the manufacturer will cancel the warranty. USA.

WS51078

*LER = 42.1
•AEC = \$5.71

--- 0° S/MH 0.9
--- 90° S/MH 0.9
--- 180° S/MH 0.8
EFFICIENCY = 71.4%



| | CANDLEPOWER DISTRIBUTION | | | | |
|-----|--------------------------|------|------|-------|-------|
| | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 |
| 0 | 3410 | 3410 | 3410 | 3410 | 3410 |
| 10 | 3311 | 3290 | 3191 | 3036 | 3029 |
| 30 | 1944 | 2029 | 2057 | 1705 | 1620 |
| 50 | 888 | 874 | 1000 | 733 | 705 |
| 70 | 225 | 247 | 247 | 197 | 169 |
| 90 | 28 | 21 | 25 | 14 | 14 |
| 110 | 305 | 377 | 393 | 297 | 241 |
| 130 | 1011 | 1043 | 1131 | 794 | 770 |
| 150 | 1781 | 1805 | 1661 | 1364 | 1316 |
| 170 | 2455 | 2423 | 2311 | 2138 | 2134 |
| 180 | 2394 | 2394 | 2394 | 2394 | 2394 |

| RF | COEFFICIENTS OF UTILIZATION | | | | | | |
|----|-----------------------------|----|----|----|----|----|----|
| | 80 | | | 50 | | | |
| | 70 | 50 | 30 | 10 | 50 | 30 | |
| 1 | 71 | 68 | 65 | 63 | 54 | 52 | 51 |
| 2 | 65 | 60 | 56 | 53 | 48 | 45 | 43 |
| 3 | 60 | 54 | 49 | 45 | 43 | 40 | 37 |
| 4 | 55 | 48 | 43 | 39 | 39 | 35 | 32 |
| 5 | 51 | 43 | 38 | 34 | 35 | 31 | 29 |
| 6 | 47 | 39 | 34 | 30 | 32 | 28 | 25 |
| 7 | 44 | 36 | 30 | 26 | 29 | 25 | 23 |
| 8 | 41 | 33 | 27 | 24 | 27 | 23 | 20 |
| 9 | 38 | 30 | 25 | 21 | 25 | 21 | 19 |
| 10 | 36 | 28 | 23 | 19 | 23 | 19 | 17 |

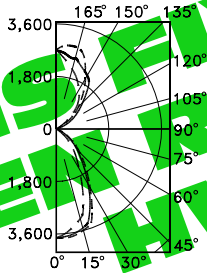
* LER = Luminaire Efficacy Rating
LER = Luminaire Effic. x Total Lamp Lumens x Ballast Effic. Input Watts

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

WS51078-15

*LER = 41.4
•AEC = \$5.79

--- 0° S/MH 1.0
--- 90° S/MH 1.0
--- 180° S/MH 0.9
EFFICIENCY = 70.3%



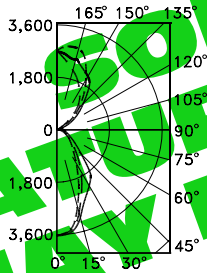
| | CANDLEPOWER DISTRIBUTION | | | | |
|-----|--------------------------|------|------|-------|-------|
| | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 |
| 0 | 3724 | 3724 | 3724 | 3724 | 3724 |
| 10 | 3734 | 3748 | 3649 | 3544 | 3462 |
| 30 | 2212 | 2459 | 2219 | 2163 | 1804 |
| 50 | 676 | 655 | 599 | 578 | 578 |
| 70 | 169 | 169 | 155 | 169 | 169 |
| 90 | 0 | 0 | 0 | 0 | 0 |
| 110 | 177 | 201 | 193 | 177 | 160 |
| 130 | 206 | 851 | 851 | 692 | 516 |
| 150 | 2022 | 2319 | 2150 | 1773 | 1460 |
| 170 | 2728 | 2672 | 2520 | 2343 | 2295 |
| 180 | 2611 | 2611 | 2611 | 2611 | 2611 |

| RF | COEFFICIENTS OF UTILIZATION | | | | | | |
|----|-----------------------------|----|----|----|----|----|----|
| | 80 | | | 50 | | | |
| | 70 | 50 | 30 | 10 | 50 | 30 | |
| 1 | 70 | 67 | 65 | 63 | 53 | 52 | 51 |
| 2 | 65 | 60 | 56 | 53 | 48 | 46 | 44 |
| 3 | 60 | 54 | 49 | 46 | 44 | 41 | 38 |
| 4 | 55 | 49 | 44 | 40 | 40 | 36 | 34 |
| 5 | 51 | 44 | 39 | 35 | 36 | 32 | 30 |
| 6 | 48 | 40 | 35 | 31 | 33 | 30 | 27 |
| 7 | 44 | 37 | 31 | 28 | 30 | 27 | 24 |
| 8 | 42 | 34 | 29 | 25 | 28 | 25 | 22 |
| 9 | 39 | 31 | 26 | 23 | 26 | 23 | 20 |
| 10 | 37 | 29 | 24 | 21 | 24 | 21 | 19 |

WS51078-DH

*LER = 40.7
•AEC = \$5.90

--- 0° S/MH 0.8
--- 90° S/MH 0.9
--- 180° S/MH 0.8
EFFICIENCY = 69.0%



| | CANDLEPOWER DISTRIBUTION | | | | |
|-----|--------------------------|------|------|-------|-------|
| | 0.0 | 45.0 | 90.0 | 135.0 | 180.0 |
| 0 | 3609 | 3609 | 3609 | 3609 | 3609 |
| 10 | 3278 | 3295 | 3059 | 3369 | 3321 |
| 30 | 1467 | 1711 | 2174 | 1777 | 1705 |
| 50 | 521 | 555 | 682 | 513 | 501 |
| 70 | 273 | 253 | 272 | 250 | 228 |
| 90 | 113 | 121 | 103 | 116 | 105 |
| 110 | 218 | 246 | 234 | 220 | 203 |
| 130 | 722 | 851 | 869 | 683 | 562 |
| 150 | 2022 | 2319 | 2150 | 1773 | 1460 |
| 170 | 2728 | 2672 | 2520 | 2343 | 2295 |
| 180 | 2611 | 2611 | 2611 | 2611 | 2611 |

| RF | COEFFICIENTS OF UTILIZATION | | | | | | |
|----|-----------------------------|----|----|----|----|----|----|
| | 80 | | | 50 | | | |
| | 70 | 50 | 30 | 10 | 50 | 30 | |
| 1 | 76 | 73 | 71 | 68 | 68 | 66 | 64 |
| 2 | 71 | 66 | 62 | 58 | 61 | 58 | 55 |
| 3 | 66 | 59 | 54 | 50 | 56 | 52 | 49 |
| 4 | 61 | 54 | 49 | 45 | 51 | 47 | 43 |
| 5 | 57 | 49 | 44 | 40 | 47 | 42 | 39 |
| 6 | 54 | 45 | 40 | 36 | 43 | 39 | 35 |
| 7 | 50 | 42 | 37 | 33 | 40 | 36 | 32 |
| 8 | 47 | 39 | 34 | 30 | 37 | 33 | 30 |
| 9 | 45 | 36 | 31 | 28 | 35 | 31 | 27 |
| 10 | 42 | 34 | 29 | 26 | 33 | 28 | 26 |

Direct / Indirect Fixtures Note: The zonal cavity calculation technique is accurate when luminaires with symmetric candela distributions are employed and when the luminaires are located symmetrically throughout the room. These units have special characteristics and therefore the coefficients should be used with caution.

Options

- 15 UV absorbing tempered low brightness prismatic C#73 flat glass in both positions instead.
- 23 Mercury ballasts instead. 100ME/100ME standard or see Option -43. Specify voltage.
- 24 HPS ballasts instead. 100ME/100ME standard or see Option -43. Specify voltage.
- 26 Tamper-proof recessed hex, center pin, button door screws with key. One key provided per ten fixtures. See also Option -27. (Both positions)
- 27 Clear 1/4" tempered glass beneath prismatic C#73 flat glass for vandal resistance. Also see Option -26. (Both positions)
- 35 Silver enameled housing and frame finish.

- 36 Gold enameled housing and frame finish.
- 37 Dark Bronze enameled housing and frame finish.
- 38 Black enameled housing and frame finish.
- 43 Lower wattage medium base - specify voltage and combination wattage for: Metal Halide: 70, 50, 35; Mercury: 75, 50; HPS: 70, 50, 35.
- 46 Gasket between trim and lens. (Both positions)
- 49 Extra circuit DCB socket (For downlight 100W max.) Must not be energized simultaneously with main source.
- 58 277 volt 60 Hz. ballast instead.
- 65 Standby relay and DCB socket. (For downlight 100W max.) With fixture energized, provides immediate light during HID outage. Also see Option -66.

- 66 Time delay standby relay and DCB socket. (For downlight 100W max.) When energized, provides light until HID reaches 70% output.
- 86 Prismatic glass weather cap (indirect position) instead of standard trim assembly - required when luminaire is installed without covered ceiling protection. Always add for outdoor use.
- 94 Custom color frame / housing. Consult factory.
- 97 Other voltage ballasts. Consult factory.
- 99 Special modification. Consult factory.
- DH Drop Holophane tempered lens instead (direct position only) with prismatic C#73 (indirect).
- LP With coated lamps. Specify source, wattage and color temperature (3200°K standard for MH.) Consult factory for others.
- LS With tungsten halogen standby lamp. (100W max.) Use only with Options -49, -65 or -66.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____

TYPE _____

WATTAGE _____ VOLTAGE _____

CATALOG NUMBER _____