

### Direct - Indirect: Mall or Atrium Lighting

#### Features

##### Lamps

- Designed for: 2-100 watt coated E/ED-17 metal halide universal (direct and indirect positions).
- 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

- Specular Alzak® aluminum.

##### Trim Assemblies

##### Direct:

- Seamless tapered black OptiGroove with white interlocking flange. Also see Options.
- Tempered prismatic C#73 flat glass. See Options for others.
- WR51240: flange and lens gasketed.

##### Indirect:

- WR51240: Weather Cap with UV absorbing tempered low brightness prismatic C#73 flat glass, gasketed.
- WR51241: UV absorbing tempered prismatic C#73 flat glass on upper reflector.

##### Ballast Assembly

- Two WhisperPack™ fully encapsulated

- 180°C rated HPF ballasts: 3 year warranty.
- Premium Class H; High reactance 5:12 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

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

##### Installation

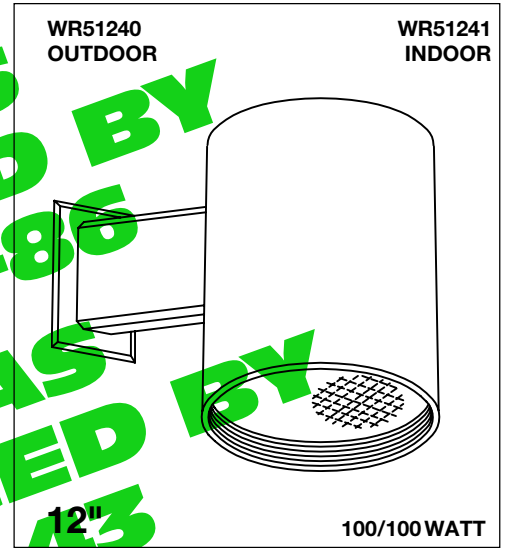
- 7" wall bracket extrusion assembled to housing. Wall plate included.
- WR51240: Outdoor.
- WR51241: Indoor for covered ceiling use.

##### UL, C-UL (Canada) Listings

- Wet, damp or dry locations (WR51240).
- Damp or dry locations, covered ceilings (WR51241).

##### Three Year Limited Warranty

- Complete standard fixture.

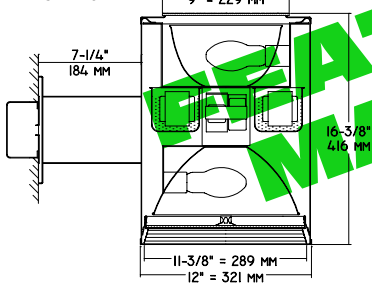


**72% Efficiency**  
**Pendant Mount Optional (WR51241)**

#### Performance at a Glance

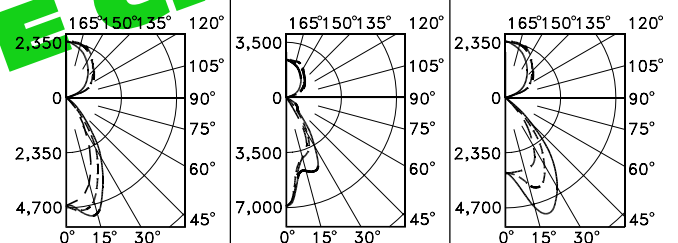
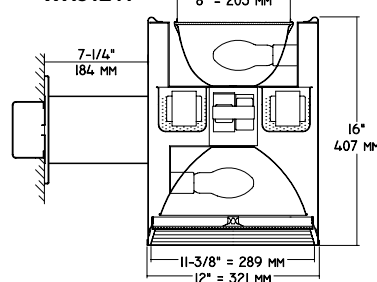
##### OUTDOOR

WR51240



##### INDOOR

WR51241



WR51240 WR51241	WR51240-FR WR51241-FR	WR51240-HO WR51241-HO
--- 0° S/MH 1.0	--- 0° S/MH 0.6	--- 0° S/MH 1.3
--- 90° S/MH 1.1	--- 90° S/MH 0.9	--- 90° S/MH 1.5
--- 180° S/MH 0.8	--- 180° S/MH 0.6	--- 180° S/MH 1.2

## 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

**PRECISION LIGHTING**  
**METAL HALIDE**

MAXIMUM WATTAGE  
**100/100 E/ED-17**  
**100/100 E/ED-17**

CATALOG NUMBER  
**WR51240**  
**WR51241**

**WR51240  
WR51241**

**WALL BRACKET ROUND: 100/100 WATT MEDIUM BASE METAL HALIDE**



**Detailed Photometry - Installed Fixture**

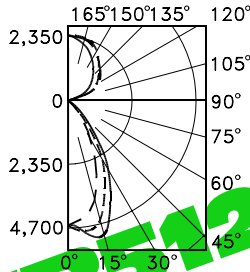
FROM I.T.L. (BOULDER, CO)

WR51240 / WR51241: TEST NUMBER 38220  
WR51240-FR / WR51241-FR: TEST NUMBER 38218  
WR51240-HO / WR51241-HO: TEST NUMBER 38219

**WR51240  
WR51241**

\*LER = 42.5  
•AEC = \$5.65

--- 0° S/MH 1.0  
--- 90° S/MH 1.1  
--- 180° S/MH 0.8  
EFFICIENCY = 72.1%



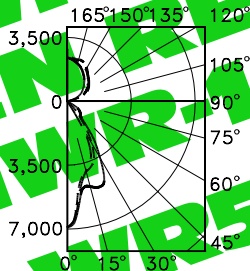
CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	4620	4620	4620	4620	4620
10	4805	4907	5019	4818	4119
30	2542	2662	2959	2505	2115
50	557	573	631	666	501
70	111	121	111	121	93
90	0	0	0	0	0
110	607	479	397	475	633
130	1391	1225	972	1170	1365
150	1946	1822	1622	1793	1937
170	2356	2315	2289	2273	2299
180	2401	2401	2401	2401	2401

COEFFICIENTS OF UTILIZATION					
RF	80		20		
RC	70	50	10	50	30
1	72	69	67	65	55
3	62	56	51	48	45
4	57	51	46	42	41
5	53	46	41	37	38
6	49	42	37	33	35
7	46	38	33	30	32
8	43	35	30	27	30
9	41	33	28	25	28
10	38	30	26	23	26

**WR51240-FR  
WR51241-FR**

\*LER = 43.5  
•AEC = \$5.52

--- 0° S/MH 0.6  
--- 90° S/MH 0.9  
--- 180° S/MH 0.6  
EFFICIENCY = 73.8%



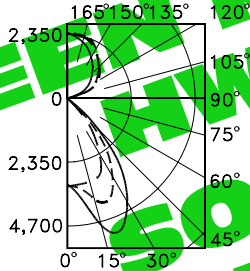
CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	6787	6787	6787	6787	6787
10	4644	4797	4950	4826	4778
30	2542	2934	3450	2816	2064
50	420	545	650	545	344
70	153	201	248	201	134
90	0	0	0	0	0
110	607	479	397	475	633
130	1391	1225	972	1170	1365
150	1946	1822	1622	1793	1937
170	2356	2315	2289	2273	2299
180	2401	2401	2401	2401	2401

COEFFICIENTS OF UTILIZATION					
RF	80		20		
RC	70	50	10	50	30
1	74	71	68	66	55
3	68	63	60	56	51
4	63	57	52	48	46
5	59	52	47	43	42
6	54	47	42	38	39
7	51	43	38	34	36
8	47	39	34	31	33
9	44	36	31	28	31
10	42	34	29	25	28
11	39	31	26	23	27

**WR51240-HO  
WR51241-HO**

\*LER = 44.4  
•AEC = \$5.41

--- 0° S/MH 1.3  
--- 90° S/MH 1.5  
--- 180° S/MH 1.2  
EFFICIENCY = 73.3%



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	3181	3181	3181	3181	3181
10	3414	3701	3952	3553	3136
30	3191	3599	4323	3198	2449
50	445	445	1123	464	427
70	56	74	74	65	56
90	0	0	0	0	0
110	607	479	397	475	633
130	1391	1225	972	1170	1365
150	1946	1822	1622	1793	1937
170	2356	2315	2289	2273	2299
180	2401	2401	2401	2401	2401

COEFFICIENTS OF UTILIZATION					
RF	80		20		
RC	70	50	10	50	30
1	76	73	70	68	58
3	70	65	61	58	53
4	65	59	54	50	48
5	60	53	48	44	44
6	56	48	43	39	40
7	52	44	39	35	37
8	49	40	35	31	34
9	45	37	32	28	31
10	42	34	29	25	29
11	40	31	27	23	27

**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**

- 23 Mercury ballast instead. 100ME/100ME standard or see Option -43. Specify voltage.
- 24 HPS ballast instead. 100ME/100ME standard or see Option -43. Specify voltage.
- 27 Clear 1/4" tempered glass beneath prismatic C#73 flat glass instead, for vandal resistance. (Direct position)
- 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 flare trim assembly instead. Direct position. Available with optional lenses.
- 43 Lower wattage medium base - specify voltage and combination wattage for: Metal Halide:
  - 70, 50, 35; Mercury: 75, 50; HPS: 70, 50, 35.
- 45 Gasket between trim and housing. (WR51241)
- 46 Gasket between trim and lens. (WR51241)
- 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.
- 87 Custom -PM length. Specify up to 8 feet (coupled entire assembly length) or consult factory. Use with Option -PM. (WR51241 only)
- 88 Swivel canopy for sloped ceilings up to 45°. Earthquake rated. Use with -PM (WR51241 only).
- 94 Custom color trim / housing. Consult factory.
- 97 Other voltage ballasts. Consult factory.
- 99 Special modification. Consult factory.
- FR Fresnel concentric lens instead. (Direct position)
- FT Flat white trim with prismatic C#73 glass or add Option -FR or -HO. (Direct position)
- HO Holophane concave prismatic lens instead. (Direct position)
- LP With coated lamps. Specify source, wattage and color temperature (3200°K standard for 100MH). Consult factory for others.
- LS With tungsten halogen standby lamp. (100W max.) Use only with Options -49, -65 or -66.
- PM Pendant mount instead - WR51241 only. 3/8" T.S. x 48" standard. See Options -87, -88, -89.

**SUBMITTAL DATA**

**APPROVAL STAMP**

JOB NAME \_\_\_\_\_

TYPE \_\_\_\_\_

WATTAGE \_\_\_\_\_ VOLTAGE \_\_\_\_\_

CATALOG NUMBER \_\_\_\_\_

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

• AEC = Annual Energy Cost per 1000 lumens (\$/hr @ \$/kWh) on 3000 hours

WR51240 HAS BEEN REPLACED BY WR51241-43-86  
WR51241 HAS BEEN REPLACED BY WR51241-43-86  
WR51240-HO HAS BEEN REPLACED BY WR51241-43-86  
WR51241-HO HAS BEEN REPLACED BY WR51241-43-86  
SOME DESIGN OPTIONS MAY HAVE CHANGED

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., IN NORMAL USE. Manufacturer at the option will replace or repair such fixture or refund the purchase price on presentation of a 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 from the manufacturer and shall not be in violation of any applicable laws, regulations or codes. Seller does not warrant as to merchantability or fitness for a particular use, nor warranty or 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 void this warranty. KIRLIN