

Direct - Indirect: Indoor Illumination Pendant Mount Optional

Features

Lamps

- Designed for:
 - 175 watt coated E/ED-17 metal halide universal (direct).
 - 100 watt coated E/ED-17 metal halide universal (indirect).
- See Option -43 for lower wattage.
- Option -23: Mercury; Option -24: 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.
- UV absorbing tempered low brightness prismatic C#73 flat glass.

Indirect:

- Screen grid on upper reflector.

Ballast Assembly

- Two WhisperPack™ fully encapsulated 180°C rated HPF ballasts: Three year warranty.
- Premium Class H CWA with 10:10

regulation (175 watt) and High reactance 5:12 regulation (100 watt).

- Capacitors and ignitor supplied.
- 120 volt standard or see Options.
- 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.
- Indoor only for covered ceiling use.
- See Option -PM for pendant mount instead.

UL, C-UL (Canada) Listings

- Damp or dry locations, covered ceilings.

Three Year Limited Warranty

- Complete standard fixture.



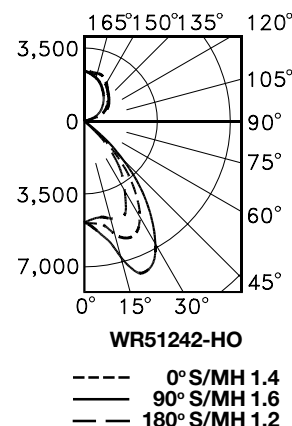
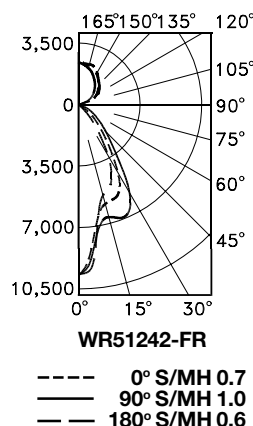
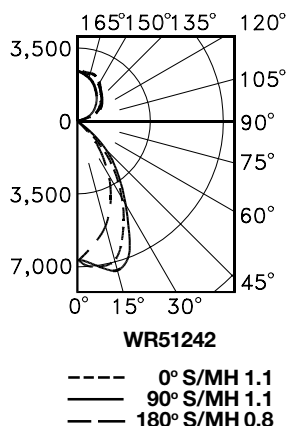
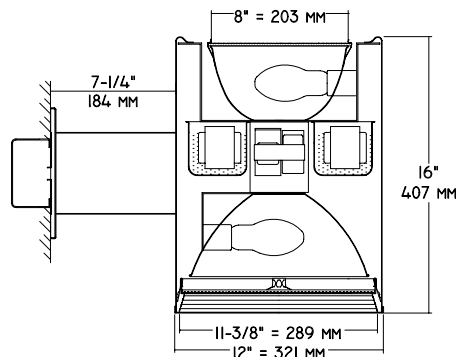
12"

175/100 WATT

69% Efficiency
Seamless Aluminum Housing

Performance at a Glance

WR51242



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

175/100 E/ED-17

WR51242

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Alzak® is a registered trademark of ALCOA.

WR51242

WALL BRACKET ROUND: 175/100 WATT MEDIUM BASE METAL HALIDE

Detailed Photometry - Installed Fixture

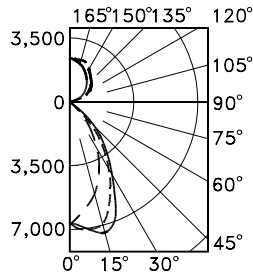
FROM I.T.L. (BOULDER, CO)

WR51242: TEST NUMBER 38214
 WR51242-FR: TEST NUMBER 38212
 WR51242-HO: TEST NUMBER 38216 / 38213

WR51242

*LER = 37.7
 •AEC = \$6.37

--- 0° S/MH 1.1
 --- 90° S/MH 1.1
 --- 180° S/MH 0.8
 EFFICIENCY = 69.5%



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	6628	6628	6628	6628	6628
10	7086	7259	7185	6359	5797
30	4492	4633	4641	3684	3039
50	1041	1074	1074	933	809
70	149	190	190	206	182
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	2358	2315	2289	2273	2299
180	2401	2401	2401	2401	2401

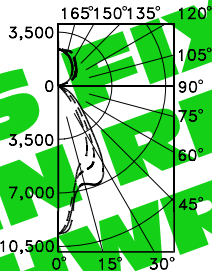
COEFFICIENTS OF UTILIZATION									
RF	20					50			
	80					10			
RW	70	50	30	10	50	30	10	50	10
1	69	66	64	63	58	57	55	53	51
2	64	60	57	54	53	51	49	48	45
3	60	55	51	48	48	45	43	44	41
4	56	50	46	42	44	41	38	40	37
5	52	46	41	37	40	37	34	37	33
6	49	42	37	33	37	33	31	34	31
7	46	38	33	30	34	31	28	32	28
8	43	35	30	27	32	28	25	30	25
9	40	32	28	25	29	26	23	28	23
10	38	30	26	23	27	24	21	26	21

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

WR51242-FR

*LER = 38.5
 •AEC = \$6.23

--- 0° S/MH 0.7
 --- 90° S/MH 1.0
 --- 180° S/MH 0.6
 EFFICIENCY = 71.0%



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	9445	9445	9445	9445	9445
10	6755	6846	7020	6962	6958
30	4344	5137	5624	4286	3435
50	760	950	1138	908	562
70	248	330	421	330	231
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	2358	2315	2289	2273	2299
180	2401	2401	2401	2401	2401

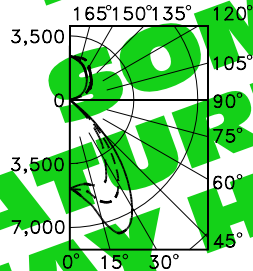
COEFFICIENTS OF UTILIZATION									
RF	20					50			
	80					10			
RW	70	50	30	10	50	30	10	50	10
1	70	67	65	64	58	57	55	53	51
2	65	61	58	55	53	51	49	48	45
3	60	55	51	48	48	45	43	44	41
4	56	50	46	42	44	41	38	40	37
5	52	46	41	37	40	37	34	37	33
6	49	42	37	33	37	33	31	34	31
7	46	38	33	30	34	31	28	32	28
8	43	35	30	27	32	28	25	30	25
9	40	32	28	25	29	26	23	28	23
10	38	30	26	23	27	24	21	26	21

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

WR51242-HO

*LER = 40.4
 •AEC = \$5.94

--- 0° S/MH 1.4
 --- 90° S/MH 1.6
 --- 180° S/MH 1.2
 EFFICIENCY = 74.0%



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	4706	4706	4706	4706	4706
10	4888	5236	5434	4963	4443
30	5153	5797	6706	4988	3914
50	1041	1000	1092	1041	826
70	99	124	140	124	83
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	2358	2315	2289	2273	2299
180	2401	2401	2401	2401	2401

COEFFICIENTS OF UTILIZATION									
RF	20					50			
	80					10			
RW	70	50	30	10	50	30	10	50	10
1	74	71	68	66	58	55	53	53	51
2	68	63	60	56	51	48	46	46	44
3	63	57	52	48	46	43	41	41	39
4	59	52	47	43	42	39	36	36	34
5	54	47	42	38	39	35	32	32	30
6	51	43	38	34	36	32	29	29	27
7	47	39	34	31	33	29	27	27	25
8	44	36	31	28	31	27	24	24	22
9	42	34	29	25	28	25	22	22	20
10	39	31	26	23	27	23	21	21	19

Direct / Indirect Fixtures Note: The zonal cavity calculation technique is accurate when luminaires with symmetric candle 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. 150ME/100ME standard or see Option -43. Specify voltage.
- 27 Clear 1/4" tempered glass beneath prismatic flat glass, for vandal resistance. Direct position only.
- 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 only.
- 43 Lower wattage medium base - specify voltage and combination wattage for: Metal Halide: 150, 100, 70, 50, 35; Mercury: 75, 50; HPS: 100, 70, 50, 35.

- 45 Gasket between trim and housing.
- 46 Gasket between trim and lens.
- 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.
- 88 Swivel canopy for sloped ceilings up to 45°.

- 94 Earthquake rated. Use with Option -PM.
- 97 Custom color trim / housing. Consult factory.
- 99 Other voltage ballasts. Consult factory.
- FR Special modification. Consult factory.
- FR Fresnel concentric lens instead. (Direct position)
- FT Flat white trim instead 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 MH). Consult factory for others.
- LS With tungsten halogen standby lamp. (100W max.) Use only with Options -49, -65 or -66.
- PM Pendant mount instead. 3/8" T.S. x 48" standard. See Options -87 and -88.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____

TYPE _____

WATTAGE _____ VOLTAGE _____

CATALOG NUMBER _____

LIMITED WARRANTY: CATALOGED KIRLIN FIXTURES ARE WARRANTED FREE OF DEFECTS IN WORKMANSHIP OR MATERIAL FOR THREE YEARS FROM DATE OF PURCHASE. INSTALLATION TO N.E.C. IS NOT 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 by purchaser or any person. This warranty is supplied from the manufacturer will void the warranty if the fixture is not installed, used, or modified in accordance with the instructions. For the full details of this warranty, please refer to the warranty card.