

Direct - Indirect: Illumination for Large Areas, Indoor and Outdoor (Optional)

Features

Lamps

- Designed for: 250 watt clear vertical (direct) and 175 watt coated universal (indirect) ED/BT-28 MH.
- See Option -43 for lower wattages.
- Option -23 for Mercury, Option -24 for HPS.

Sockets

- Direct: Vertical mogul base.
- Indirect: Horizontal mogul base.
- 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 Holophane tempered lens available. (See Option -DH)
- Drop Guard with tempered C#73 flat glass available. Protects lens. (See Option -DG)

Ballast Assembly: 3 Year Warranty

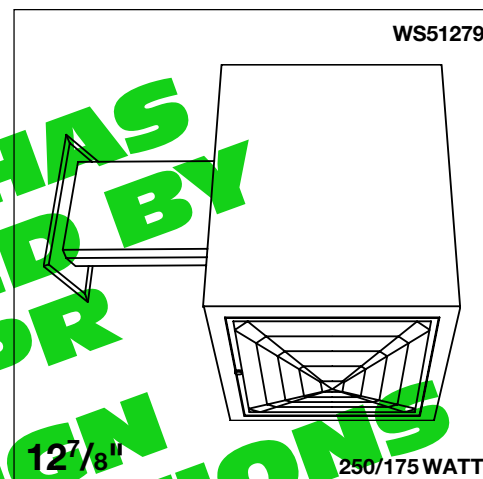
- Two WhisperPack™ fully encapsulated 180°C rated HPF ballasts.
- Premium Class H; CWA 10:9 (250W) and 10:10 (175W) regulation.
- Two capacitors supplied.
- 120 volt standard or see optional voltages.
- Cool, quiet, long-life. Silicone leads.

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.



63% Efficiency

Installation

- 7" wall bracket extrusion assembled to housing. Wall plate included.
- Indoor or outdoor (see Option -86) for covered ceiling use.

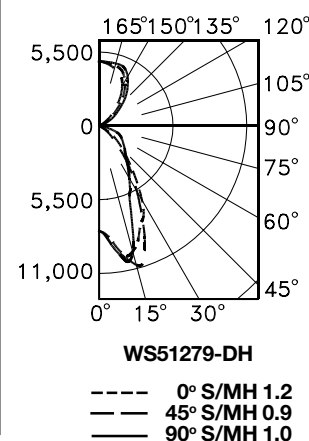
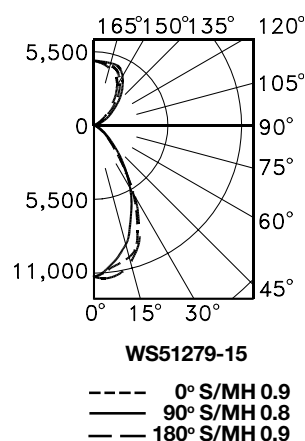
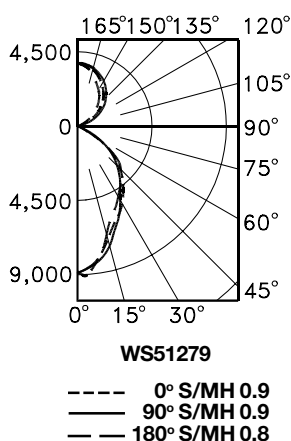
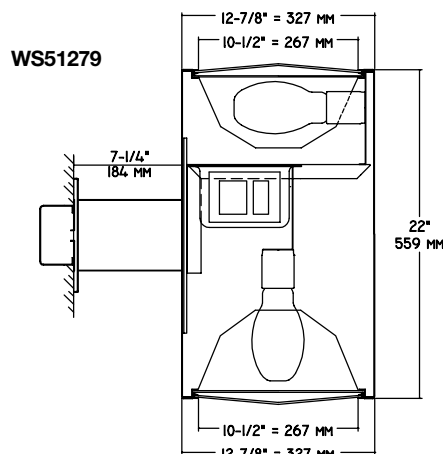
UL-C-UL (Canada) Listings

- 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

250/175 ED/BT-28

WS51279

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

WS51279

WALL BRACKET SQUARE: 250/175 WATT MOGUL BASE METAL HALIDE

Detailed Photometry - Installed Fixture

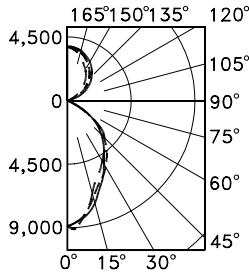
FROM I.T.L. (BOULDER, CO)

WS51279: TEST NUMBER 38653
 WS51279-15: TEST NUMBER 38654
 WS51279-DH: TEST NUMBER 38191 / 38654

WS51279

*LER = 41.9
 •AEC = \$5.72

--- 0° S/MH 0.9
 --- 90° S/MH 0.9
 --- 180° S/MH 0.8
 EFFICIENCY = 63.4%



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	8848	8848	8848	8848	8848
10	7821	7431	7953	8019	7850
30	5439	3771	5167	4248	5057
50	2323	1874	2411	2007	2558
70	515	573	632	706	662
90	7	7	22	22	7
110	461	509	589	461	414
130	1496	1543	1782	1432	1268
150	2625	2689	2784	2538	2434
170	3691	3731	3723	3659	3560
180	3808	3808	3808	3808	3808

COEFFICIENTS OF UTILIZATION											
RF	20										
RC	80					50					10
RW	70	50	30	10	50	30	10	50	30	10	
1	64	62	60	58	51	50	48	46	43	41	
2	59	55	51	48	46	43	41	38	36		
3	55	49	45	41	41	38	36	34	31		
4	50	44	39	36	37	34	31	31	27	24	
5	47	40	35	31	34	30	27	28	25	22	
6	43	36	31	28	31	27	24	26	22	20	
7	40	33	28	25	28	25	22	24	20	18	
8	38	30	25	22	26	22	20	22	18	16	
9	35	28	23	20	24	20	18	20	16	14	
10	33	26	21	18	22	19	17	19	15	13	

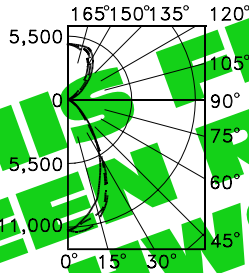
* LER = Luminaire Efficacy Rating
 LER = Luminaire Efficacy x Total Lamp Lumens x Ballast Factor
 Input Watts

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 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 for the fixture in place at other warranties, expressed or implied. Seller does not warrant as to mechanical suitability 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 void the warranty. See also the warranty on page 10.

WS51279-15

*LER = 43.8
 •AEC = \$5.48

--- 0° S/MH 0.9
 --- 90° S/MH 0.8
 --- 180° S/MH 0.8
 EFFICIENCY = 66.2%



CANDLEPOWER DISTRIBUTION					
	0.0	45.0	90.0	135.0	180.0
0	11293	11293	11293	11293	11293
10	10349	9916	10055	10598	10967
30	5469	5652	5425	6226	5557
50	1294	1632	1463	1624	1852
70	353	397	375	404	368
90	0	0	0	0	0
110	207	270	247	207	207
130	1050	1044	1297	1297	986
150	3278	3771	3652	3548	3071
170	4773	4837	4829	4702	4646
180	4904	4904	4904	4904	4904

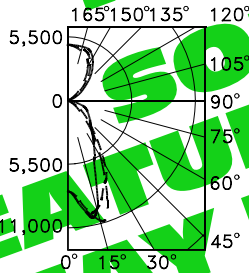
COEFFICIENTS OF UTILIZATION										
RW	80				50				20	
	70	50	30	10	50	30	10	50	30	10
1	68	65	63	61	54	53	51	49	47	45
2	63	59	56	52	49	47	45	45	42	39
3	58	53	49	45	45	42	39	41	37	35
4	54	48	43	40	41	37	35	37	34	31
5	50	43	39	35	37	34	31	34	31	28
6	47	40	35	32	34	31	28	31	28	25
7	44	37	32	28	32	28	25	29	26	23
8	41	34	29	26	29	26	23	27	24	21
9	39	31	27	24	27	24	21	25	22	19
10	36	29	25	22	26	22	20	23	20	17

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

WS51279-DH

*LER = 44.0
 •AEC = \$5.45

--- 0° S/MH 1.2
 --- 45° S/MH 0.9
 --- 90° S/MH 1.0
 EFFICIENCY = 69.0%



CANDLEPOWER DISTRIBUTION					
	0.0	22.5	45.0	67.5	90.0
0	7354	7354	7354	7354	7354
10	9063	9301	9067	9526	9405
30	5789	5868	5183	4661	4001
50	1846	1449	1366	1537	1963
70	601	606	664	677	777
90	176	209	221	217	192
110	274	301	316	333	339
130	1050	1225	1344	1360	1297
150	3278	3469	3771	3723	3652
170	4773	4781	4837	4837	4829
180	4904	4904	4904	4904	4904

COEFFICIENTS OF UTILIZATION											
RF	RC	20									
		80					50				
RW	70	50	30	10	50	30	10	50	30	10	50
1	72	70	67	65	65	63	62	63	61	59	
2	67	63	59	56	59	56	53	59	56	53	
3	62	57	52	49	53	50	47	53	50	47	
4	58	52	47	43	49	45	42	49	45	42	
5	54	47	42	39	45	41	38	45	41	38	
6	51	44	39	35	42	38	34	42	38	34	
7	48	40	35	32	39	35	32	39	35	32	
8	45	38	33	29	36	32	29	36	32	29	
9	43	35	30	27	34	30	27	34	30	27	
10	40	33	28	25	32	28	25	32	28	25	

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. 250MO/175MO or see Option -43. Specify voltage.
- 24 HPS ballasts instead. 250MO/150MO ED-28 (NOT FOR G.E. LAMPS) 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 flat C#73 glass; vandal resistance. Also see -26.
- 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 - specify voltage and combination wattage for: Metal Halide: Direct: 175MO; Indirect: 175, 150, 100, 70, 50, 35ME; Mercury: Direct: 175MO; Indirect: 100, 75, 50ME; HPS: Direct: 150MO; Indirect: 100, 70, 50, 35ME.
- 46 Gasket between trim and lens.
- 49 Extra circuit DCB socket (For downlight 150W max.) Must not be energized simultaneously with main source.
- 58 277 volt 60 Hz. ballast instead.
- 65 Standby relay and DCB socket. (For downlight 150W max.) With fixture energized, provides immediate light during HID outage. Also see Option -66.
- 66 Time delay standby relay and DCB socket. (For downlight 150W 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 and housing. Consult factory.
- 97 Other voltage ballasts. Consult factory.
- 99 Special modification. Consult factory.
- DG Drop Guard with prismatic C#73 flat glass.
- DH Drop Holophane tempered lens instead (direct position only) with prismatic C#73 (indirect).
- LP With lamps. Specify source, wattage, color temperature, and clear or coated (3700°K standard for 250MH; 3200°K for 175MH.) Consult factory for other color temperatures.
- LS With tungsten halogen standby lamp. (150W max.) Use only with Options -49, -65 or -66.

SUBMITTAL DATA

APPROVAL STAMP

JOB NAME _____

TYPE _____

WATTAGE _____ VOLTAGE _____

CATALOG NUMBER _____