

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **8ILED-LD5-14-W-UNV-L850-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34173)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-14-W-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH OPEN WIDE DISTRIBUTION

Light Source: (1) 5000 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

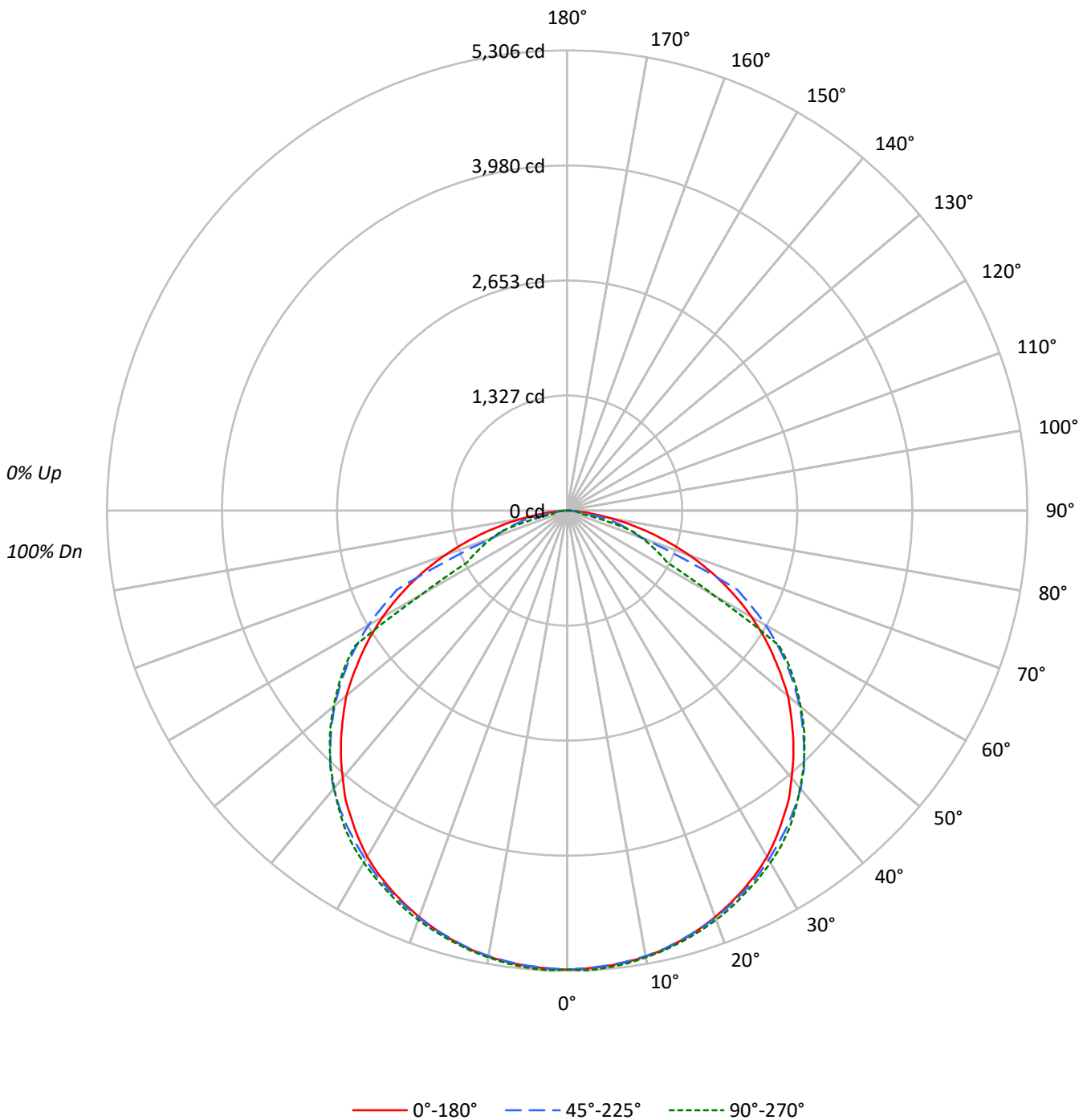
Lumens per Lamp: N/A
Luminaire Lumens: 15274.0 lumens
Efficiency: N/A
Efficacy: 151.5 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.32 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71					71			
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44					44			
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39					39			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7769	7769	7769
5°	7759	7703	7722
10°	7765	7656	7650
15°	7761	7602	7590
20°	7755	7570	7546
25°	7755	7533	7498
30°	7757	7505	7475
35°	7706	7492	7439
40°	7634	7485	7337
45°	7554	7381	7243
50°	7479	7248	7101
55°	7276	7048	6926
60°	7062	6765	4809
65°	6716	6360	3299
70°	6183	3110	3021
75°	5345	2715	1886
80°	4043	1617	771
85°	2112	824	711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	502.1	3.3
10°-20°	1449.7	9.5
20°-30°	2235.2	14.6
30°-40°	2767.8	18.1
40°-50°	2946.3	19.3
50°-60°	2718.7	17.8
60°-70°	1740.7	11.4
70°-80°	784.1	5.1
80°-90°	129.5	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4186.9	27.4
0°-40°	6954.7	45.5
0°-60°	12619.7	82.6
0°-90°	15274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5293	5293	5293	5293	5293	
5°	5272	5280	5268	5282	5291	502
15°	5124	5133	5118	5143	5141	1447
25°	4816	4829	4838	4869	4865	2221
35°	4338	4382	4433	4479	4469	2715
45°	3685	3760	3862	3887	3870	2843
55°	2894	3000	3092	3143	3128	2588
65°	1986	2080	2169	1197	1172	1961
75°	986	1073	632	649	468	1048
85°	143	108	97	103	95	209
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5292.9	5292.9	5292.9	5292.9	5292.9
2.5°	5284.4	5295.0	5280.2	5295.0	5305.5
5°	5271.8	5280.2	5267.6	5282.3	5290.8
7.5°	5250.7	5259.1	5244.4	5259.1	5267.6
10°	5221.2	5225.4	5214.9	5229.6	5231.7
12.5°	5179.0	5183.3	5174.8	5189.6	5191.7
15°	5124.2	5132.7	5117.9	5143.2	5141.1
17.5°	5061.0	5069.4	5063.1	5082.1	5084.2
20°	4987.2	4995.7	4997.8	5020.9	5023.1
22.5°	4905.0	4917.7	4919.8	4951.4	4949.3
25°	4816.5	4829.1	4837.6	4869.2	4865.0
27.5°	4719.5	4736.4	4749.0	4780.7	4780.7
30°	4609.9	4633.1	4647.9	4690.0	4687.9
32.5°	4479.2	4523.5	4540.4	4593.1	4588.8
35°	4338.0	4382.3	4432.9	4479.2	4468.7
37.5°	4198.9	4243.1	4312.7	4340.1	4327.5
40°	4026.0	4099.8	4188.3	4198.9	4179.9
42.5°	3861.6	3920.6	4040.8	4047.1	4030.3
45°	3684.6	3760.4	3861.6	3886.9	3870.1
47.5°	3501.2	3566.5	3684.6	3716.2	3703.5
50°	3324.1	3383.1	3499.1	3530.7	3513.8
52.5°	3107.0	3195.5	3294.6	3345.2	3326.2
55°	2894.1	2999.5	3092.2	3142.8	3128.1
57.5°	2681.2	2797.1	2866.7	2936.3	2900.4
60°	2457.8	2571.6	2647.5	2615.9	1947.7
62.5°	2225.9	2335.5	2398.8	1608.3	1304.8
65°	1985.6	2080.5	2169.0	1197.3	1172.0
67.5°	1741.1	1836.0	1443.9	1064.5	1041.3
70°	1490.3	1578.8	895.8	927.5	914.8
72.5°	1237.3	1321.6	769.4	805.2	788.3
75°	986.5	1072.9	632.4	649.2	467.9
77.5°	752.5	739.9	510.1	358.3	160.2
80°	512.2	341.5	284.6	149.7	147.6
82.5°	318.3	229.8	120.1	132.8	130.7
85°	143.3	107.5	97.0	103.3	94.9
87.5°	50.6	52.7	59.0	54.8	50.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)