

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-TWBWG-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 (P34176)  
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-TWBWG-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE-HEAVY DUTY WIREGUARD  
DISTRIBUION  
  
Light Source: (1) 5000 CCT, 80 CRI LEDS  
Ballast/Driver: -

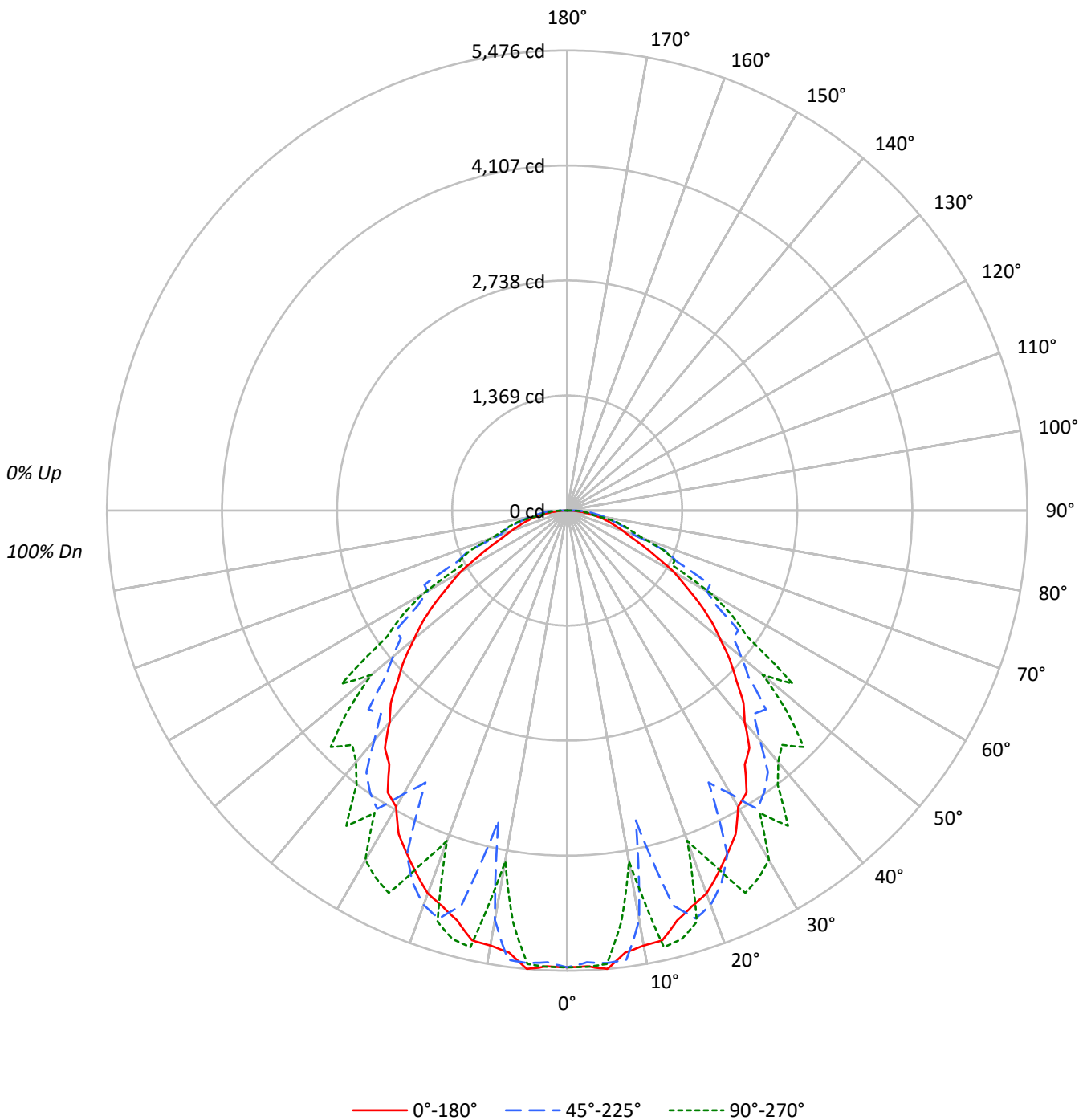
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13208.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.28  
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 (Ain): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	67	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	55	64	59	55	53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38	49	43	38	48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7979	7979	7979
5°	8060	7903	7906
10°	7815	7263	6195
15°	7652	7220	7792
20°	7538	7563	6279
25°	7259	7024	7738
30°	6849	6286	7656
35°	6552	6911	7625
40°	6231	6377	6856
45°	5829	6394	7448
50°	5350	5601	6138
55°	4817	5659	5787
60°	4221	4896	4892
65°	3387	4228	3969
70°	2912	2941	3153
75°	2764	2823	2803
80°	2546	2659	1662
85°	2361	2399	1580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	495.7	3.8
10°-20°	1390.9	10.5
20°-30°	2010.8	15.2
30°-40°	2518.4	19.1
40°-50°	2451.5	18.6
50°-60°	2098.4	15.9
60°-70°	1301.7	9.9
70°-80°	677.4	5.1
80°-90°	263.1	2.0
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°	3897.5	29.5
0°-40°	6415.8	48.6
0°-60°	10965.7	83.0
0°-90°	13208.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13208.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5436	5436	5436	5436	5436	
5°	5476	5459	5404	5383	5417	511
15°	5052	5071	4860	5305	5278	1430
25°	4508	3737	4511	4637	5021	2072
35°	3689	3845	4089	4055	4580	2331
45°	2843	2552	3345	3421	3980	2199
55°	1916	2097	2483	2964	2614	1714
65°	1001	1123	1442	1220	1410	1016
75°	510	592	658	706	696	540
85°	160	213	282	325	211	172
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5436.0	5436.0	5436.0	5436.0	5436.0
2.5°	5429.6	5406.5	5381.2	5425.4	5433.9
5°	5476.0	5459.2	5404.3	5383.3	5417.0
7.5°	5305.3	5341.1	5391.7	5117.7	4940.6
10°	5254.7	5235.7	4947.0	3808.8	4236.6
12.5°	5237.8	5214.6	3777.1	5294.7	5320.0
15°	5052.3	5071.3	4860.5	5305.3	5277.9
17.5°	4938.5	4677.2	5090.3	5178.8	5130.3
20°	4847.9	4076.4	4993.3	4757.3	4179.7
22.5°	4681.4	3475.7	4799.4	3817.2	4559.1
25°	4508.5	3737.1	4510.6	4637.1	5020.7
27.5°	4342.0	4234.5	3648.6	4839.5	4930.1
30°	4070.1	4198.7	3893.1	4738.3	4801.5
32.5°	3975.3	4009.0	4209.2	4474.8	4264.0
35°	3688.6	3844.6	4089.1	4055.4	4580.2
37.5°	3562.1	3606.4	3924.7	4270.4	4114.4
40°	3286.0	3353.5	3568.5	3772.9	3905.7
42.5°	3106.9	2881.3	3279.7	3657.0	3783.5
45°	2843.4	2552.5	3345.0	3420.9	3979.5
47.5°	2628.4	2535.7	2927.7	3560.0	3560.0
50°	2377.6	2499.8	2704.3	3180.6	3037.3
52.5°	2162.6	2329.1	2495.6	2765.4	3383.0
55°	1916.0	2097.2	2483.0	2963.5	2613.6
57.5°	1673.6	1827.4	2107.8	2270.1	2331.2
60°	1469.1	1618.8	1916.0	2040.3	1981.3
62.5°	1205.7	1395.4	1916.0	1608.2	1410.1
65°	1001.2	1123.4	1441.7	1220.4	1410.1
67.5°	822.0	948.5	1281.5	1178.2	1256.2
70°	701.9	792.5	847.3	1053.9	954.8
72.5°	600.7	666.1	775.7	796.7	792.5
75°	510.1	592.3	657.6	706.1	695.6
77.5°	423.7	539.6	541.7	649.2	564.9
80°	322.5	368.9	467.9	423.7	318.3
82.5°	236.1	288.8	356.2	366.8	280.3
85°	160.2	212.9	282.4	324.6	210.8
87.5°	73.8	145.4	229.7	290.9	191.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)