

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-LD5-10-W-WG-UNV-L850-CD1-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 (P34174)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-10-W-WG-UNV-L850-CD1-U  
Description: Metalux 8' ILED WITH OPEN WIDE-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

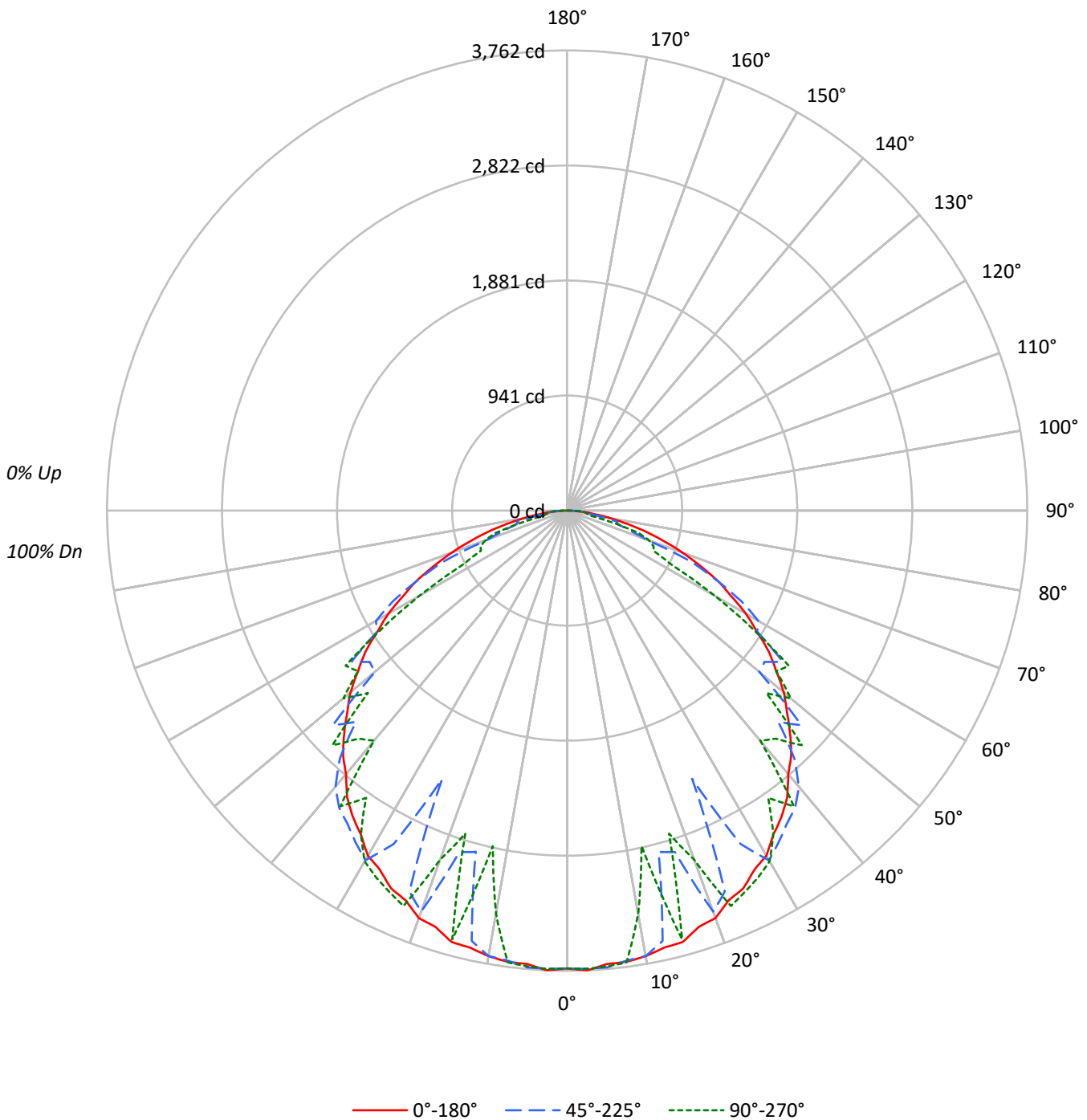
Lumens per Lamp: N/A  
Luminaire Lumens: 10291.0 lumens  
Efficiency: N/A  
Efficacy: 153.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 67  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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	100	97	106	102	98	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	5493	5493	5493
5°	5477	5482	5460
10°	5501	5429	4896
15°	5529	4291	5357
20°	5511	5284	4565
25°	5487	3767	5301
30°	5480	5328	5278
35°	5427	5288	4771
40°	5332	5264	4310
45°	5286	4667	5078
50°	5203	4246	4825
55°	5067	4901	4897
60°	4851	4613	3446
65°	4599	3943	2188
70°	4147	2360	2354
75°	3610	1823	1615
80°	2855	1518	933
85°	2168	1186	1080



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	354.5	3.4
10°-20°	946.6	9.2
20°-30°	1467.8	14.3
30°-40°	1881.7	18.3
40°-50°	1927.1	18.7
50°-60°	1827.3	17.8
60°-70°	1170.4	11.4
70°-80°	568.8	5.5
80°-90°	146.9	1.4
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°	2768.8	26.9
0°-40°	4650.6	45.2
0°-60°	8404.9	81.7
0°-90°	10291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10291.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3743	3743	3743	3743	3743	
5°	3722	3732	3749	3758	3741	355
15°	3651	3651	2889	3397	3628	1025
25°	3408	2944	2419	3460	3439	1566
35°	3055	3075	3129	3048	2866	1908
45°	2578	2583	2442	2458	2713	1987
55°	2015	2078	2150	2074	2212	1791
65°	1360	1328	1345	873	777	1332
75°	666	744	425	515	401	705
85°	147	129	140	147	144	167
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3742.6	3742.6	3742.6	3742.6	3742.6
2.5°	3762.1	3765.1	3748.6	3742.6	3750.1
5°	3721.6	3732.1	3748.6	3757.6	3741.1
7.5°	3720.1	3724.6	3711.1	3760.6	3724.6
10°	3699.0	3724.6	3697.5	3567.0	3347.9
12.5°	3660.0	3664.5	3603.0	2596.1	2809.2
15°	3651.0	3651.0	2888.7	3397.4	3628.5
17.5°	3570.0	3589.5	2927.7	3568.5	2768.7
20°	3544.5	3532.5	3489.0	2527.1	3038.8
22.5°	3448.4	3365.9	3368.9	3511.5	3498.0
25°	3407.9	2944.2	2419.0	3460.4	3439.4
27.5°	3311.9	2468.5	3073.3	3385.4	3380.9
30°	3256.4	2567.6	3299.9	3323.9	3310.4
32.5°	3139.3	2947.2	3217.3	3268.4	3137.8
35°	3055.3	3074.8	3128.8	3047.8	2866.2
37.5°	2954.7	2821.2	3061.3	2779.2	3046.3
40°	2812.2	2198.4	2945.7	2981.7	2455.0
42.5°	2711.6	2151.9	2750.6	2314.0	2528.6
45°	2578.1	2582.6	2441.5	2458.0	2713.1
47.5°	2438.5	2495.5	2597.6	2611.1	2208.9
50°	2312.5	2368.0	2049.9	2213.4	2387.5
52.5°	2154.9	2232.9	2033.3	2285.5	2154.9
55°	2015.3	2078.4	2150.4	2073.9	2211.9
57.5°	1836.8	1937.3	1841.3	2036.4	1797.8
60°	1688.2	1686.7	1805.3	1814.3	1395.6
62.5°	1509.6	1497.6	1605.7	1217.0	966.4
65°	1359.6	1328.1	1344.6	873.4	777.3
67.5°	1172.0	1039.9	1107.5	729.3	765.3
70°	999.4	993.4	679.8	505.7	712.8
72.5°	828.3	901.9	535.7	631.8	616.8
75°	666.3	744.3	424.7	514.7	400.7
77.5°	499.7	540.2	418.7	315.1	195.1
80°	361.7	255.1	267.1	178.6	178.6
82.5°	234.1	210.1	156.1	166.6	157.6
85°	147.1	129.1	139.6	147.1	144.1
87.5°	51.0	88.5	111.0	108.0	99.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)