

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-FLWG-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 (P34182)  
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-FLWG-UNV-L850-CD1-U  
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD DISTRIBUTION

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

**Summary**

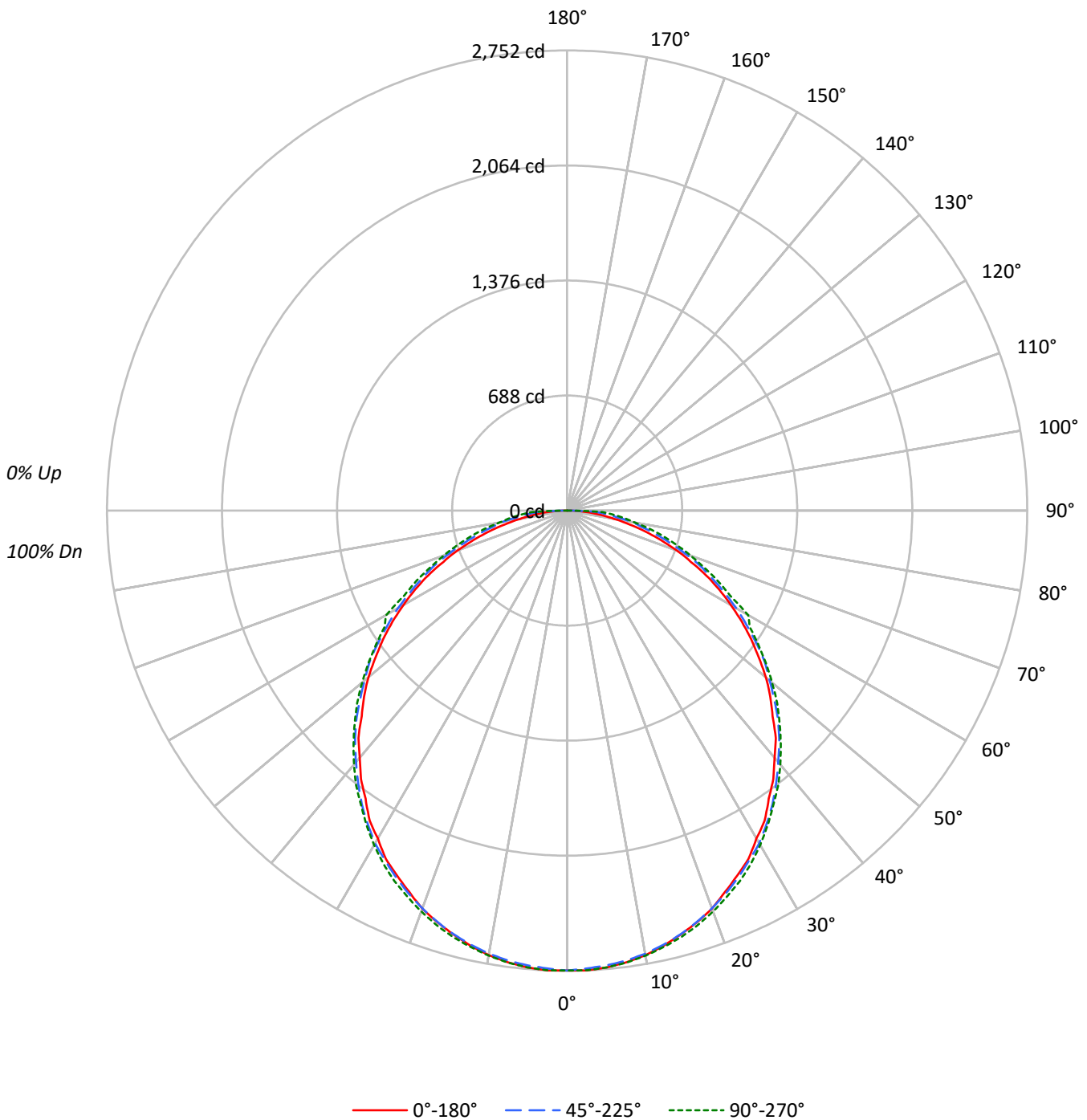
Lumens per Lamp: N/A  
Luminaire Lumens: 7823.0 lumens  
Efficiency: N/A  
Efficacy: 116.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.25 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

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

	0°	45°	90°
0°	4038	4038	4038
5°	4036	3992	4002
10°	4015	3951	3953
15°	3975	3897	3898
20°	3939	3835	3833
25°	3876	3769	3768
30°	3811	3710	3683
35°	3735	3620	3578
40°	3660	3511	3480
45°	3563	3414	3362
50°	3492	3276	3233
55°	3377	3147	3087
60°	3252	2983	3087
65°	3107	2799	2796
70°	2896	2605	2587
75°	2634	2365	2401
80°	2274	2243	2139
85°	1947	1937	2036



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	260.1	3.3
10°-20°	741.9	9.5
20°-30°	1117.3	14.3
30°-40°	1336.1	17.1
40°-50°	1372.2	17.5
50°-60°	1232.3	15.8
60°-70°	948.2	12.1
70°-80°	584.4	7.5
80°-90°	230.5	2.9
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°	2119.3	27.1
0°-40°	3455.4	44.2
0°-60°	6059.9	77.5
0°-90°	7823.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7823.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2751	2751	2751	2751	2751	
5°	2742	2740	2730	2740	2742	260
15°	2625	2629	2623	2634	2640	741
25°	2407	2410	2421	2439	2445	1110
35°	2103	2133	2142	2149	2149	1319
45°	1738	1765	1786	1793	1796	1346
55°	1343	1361	1381	1396	1394	1201
65°	918	928	954	988	994	906
75°	486	512	551	587	596	514
85°	132	176	228	261	272	151
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2750.9	2750.9	2750.9	2750.9	2750.9
2.5°	2752.4	2750.9	2740.4	2747.9	2750.9
5°	2741.9	2740.4	2729.9	2740.4	2741.9
7.5°	2723.9	2723.9	2713.4	2723.9	2725.4
10°	2699.9	2699.9	2690.9	2699.9	2702.9
12.5°	2665.4	2668.4	2659.4	2669.9	2672.9
15°	2624.8	2629.3	2623.3	2633.9	2639.9
17.5°	2581.3	2582.8	2579.8	2593.3	2599.3
20°	2533.3	2531.8	2531.8	2549.8	2551.3
22.5°	2468.8	2476.3	2477.8	2497.3	2498.8
25°	2407.2	2410.2	2420.7	2438.8	2444.8
27.5°	2348.7	2347.2	2357.7	2374.2	2380.2
30°	2264.7	2279.7	2297.7	2303.7	2309.7
32.5°	2198.6	2203.1	2221.1	2227.1	2231.6
35°	2102.6	2132.6	2141.6	2149.1	2149.1
37.5°	2024.5	2041.0	2053.1	2066.6	2072.6
40°	1930.0	1951.0	1964.5	1978.0	1982.5
42.5°	1847.4	1861.0	1877.5	1888.0	1891.0
45°	1737.9	1764.9	1785.9	1793.4	1796.4
47.5°	1647.8	1677.9	1680.9	1698.9	1703.4
50°	1551.8	1574.3	1581.8	1602.8	1599.8
52.5°	1445.2	1472.3	1490.3	1496.3	1497.8
55°	1343.2	1361.2	1380.7	1395.7	1394.2
57.5°	1239.6	1254.6	1271.2	1293.7	1295.2
60°	1131.6	1149.6	1167.6	1190.1	1250.1
62.5°	1026.5	1037.0	1058.0	1101.6	1097.1
65°	918.5	927.5	954.5	987.5	993.5
67.5°	801.4	819.4	859.9	881.0	884.0
70°	697.9	714.4	750.4	777.4	783.4
72.5°	588.3	607.8	646.8	681.3	690.4
75°	486.2	511.8	550.8	586.8	595.8
77.5°	381.2	414.2	460.7	547.8	505.8
80°	288.1	325.7	394.7	405.2	409.7
82.5°	205.6	246.1	295.7	331.7	343.7
85°	132.1	175.6	228.1	261.1	271.6
87.5°	73.5	115.6	171.1	204.1	213.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)