

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-LD5-28-W-CLWG-UNV-L850-CD4-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 (P34178)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-28-W-CLWG-UNV-L850-CD4-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME-HEAVY DUTY WIREGUARD  
DISTRIBUION

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

**Summary**

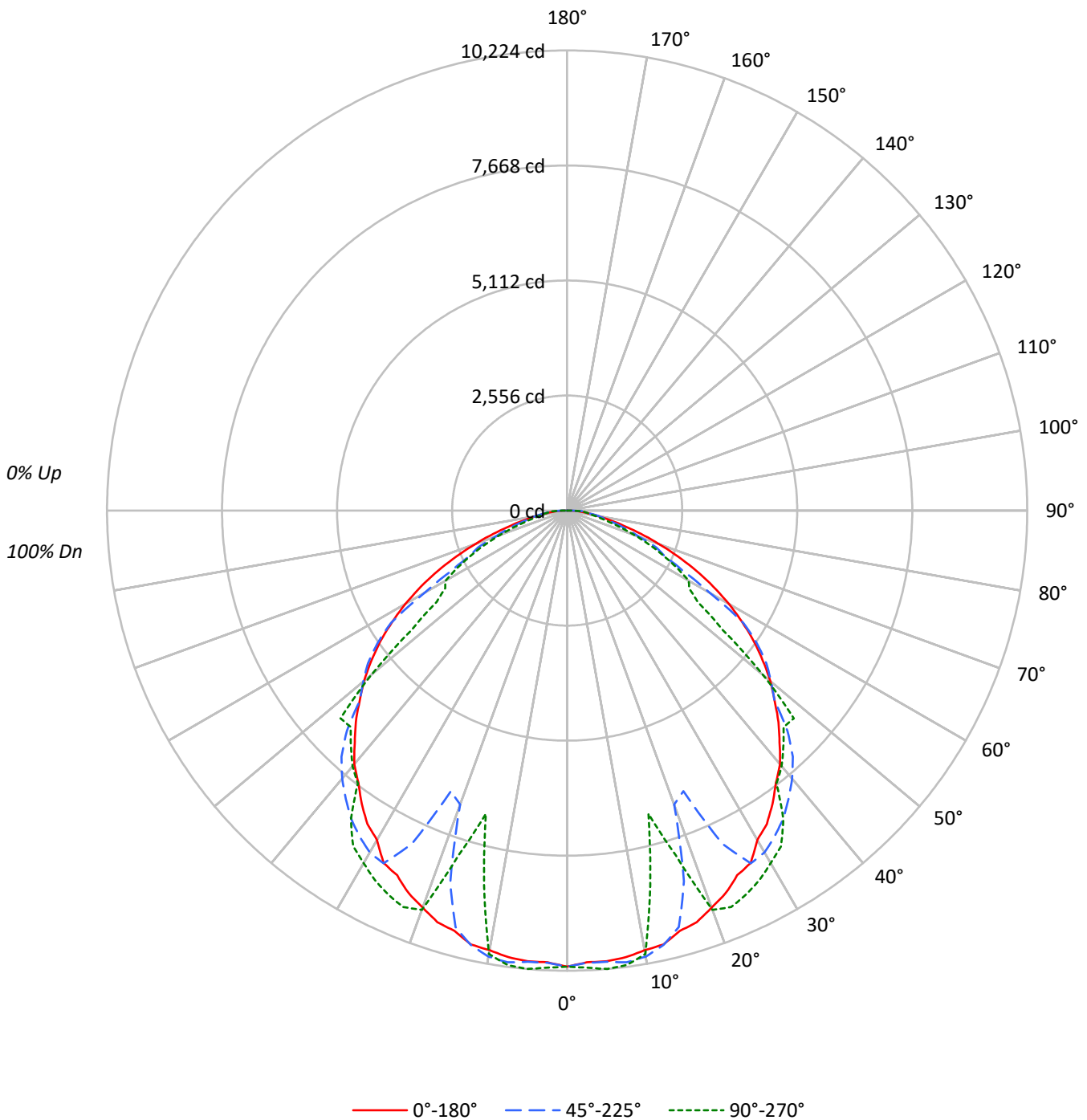
Lumens per Lamp: N/A  
Luminaire Lumens: 26237.0 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.32 / 1.39  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 204  
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	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	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46					46			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31					31			
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	38	32	27	26					26			

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

	0°	45°	90°
0°	14872	14872	14872
5°	14796	14714	14921
10°	14752	14772	14627
15°	14645	14233	10297
20°	14595	10525	14183
25°	14396	12721	14504
30°	14217	14161	14421
35°	14127	14139	13947
40°	13951	13901	13018
45°	13615	13235	12725
50°	13254	12245	11500
55°	12737	11736	7831
60°	11923	9389	7705
65°	10724	6988	6637
70°	8989	5959	5269
75°	7043	4776	3879
80°	5360	4072	2959
85°	4850	3468	2967



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	962.0	3.7
10°-20°	2549.7	9.7
20°-30°	4065.4	15.5
30°-40°	4879.5	18.6
40°-50°	5189.4	19.8
50°-60°	4245.5	16.2
60°-70°	2691.8	10.3
70°-80°	1243.5	4.7
80°-90°	410.2	1.6
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°	7577.1	28.9
0°-40°	12456.6	47.5
0°-60°	21891.5	83.4
0°-90°	26237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	10132	10132	10132	10132	10132	
5°	10053	10057	10061	10140	10224	955
15°	9670	9820	9582	7549	6974	2740
25°	8940	8966	8170	9328	9411	4141
35°	7953	5962	8366	8524	8378	4969
45°	6641	6670	6924	6753	6799	5115
55°	5066	5333	5149	3991	3537	4511
65°	3170	3225	2383	2400	2358	3126
75°	1300	1233	1112	1029	962	1424
85°	329	358	408	408	396	355
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	10132.0	10132.0	10132.0	10132.0	10132.0
2.5°	10044.5	10061.2	10057.0	10132.0	10165.3
5°	10052.9	10057.0	10061.2	10140.3	10223.7
7.5°	10007.0	10094.5	10123.7	10094.5	10182.0
10°	9919.5	9998.7	10061.2	9973.7	10002.9
12.5°	9873.7	9990.4	9886.2	9457.1	8523.9
15°	9669.6	9819.6	9582.1	7549.0	6974.1
17.5°	9586.3	9686.2	8636.4	6940.8	8028.1
20°	9386.3	9523.8	6949.1	8923.8	9440.4
22.5°	9203.0	9303.0	6745.0	9386.3	9532.1
25°	8940.5	8965.5	8169.8	9328.0	9411.3
27.5°	8828.0	8453.1	8836.4	9207.1	9253.0
30°	8448.9	7678.2	8769.7	9040.5	9044.7
32.5°	8257.3	6686.6	8582.2	8798.9	8844.7
35°	7953.1	5961.7	8365.6	8523.9	8378.1
37.5°	7619.8	5857.6	8078.1	7994.8	7640.7
40°	7357.4	6390.8	7778.2	7261.6	7415.7
42.5°	6986.6	6715.8	7419.9	7082.4	7111.6
45°	6640.8	6670.0	6924.1	6753.3	6799.1
47.5°	6249.2	6440.8	6245.0	6470.0	6832.4
50°	5890.9	6095.0	5911.7	6282.5	5690.9
52.5°	5482.6	5736.8	5582.6	5053.5	4366.1
55°	5066.0	5332.6	5149.3	3991.1	3537.0
57.5°	4611.9	4832.7	4641.1	3270.4	3212.1
60°	4149.5	4324.4	3674.5	2978.8	3120.4
62.5°	3662.0	3770.3	2899.6	2745.5	2737.1
65°	3170.4	3224.6	2383.0	2399.7	2358.0
67.5°	2658.0	2683.0	2145.6	2033.1	1970.6
70°	2166.4	2149.7	1716.4	1654.0	1595.6
72.5°	1716.4	1637.3	1395.7	1312.3	1241.5
75°	1299.8	1233.2	1112.4	1029.0	962.4
77.5°	966.5	929.0	870.7	879.1	737.4
80°	679.1	683.2	716.6	608.3	566.6
82.5°	470.8	495.8	512.4	504.1	491.6
85°	329.1	358.3	408.3	408.3	395.8
87.5°	166.6	245.8	329.1	350.0	341.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)