

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-LD5-22-W-CL-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 (P34177)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8ILED-LD5-22-W-CL-UNV-L850-CD2-U  
Description: Metalux 8' ILED WITH CLEAR ACRYLIC LENS & FRAME DISTRIBUTION

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

**Summary**

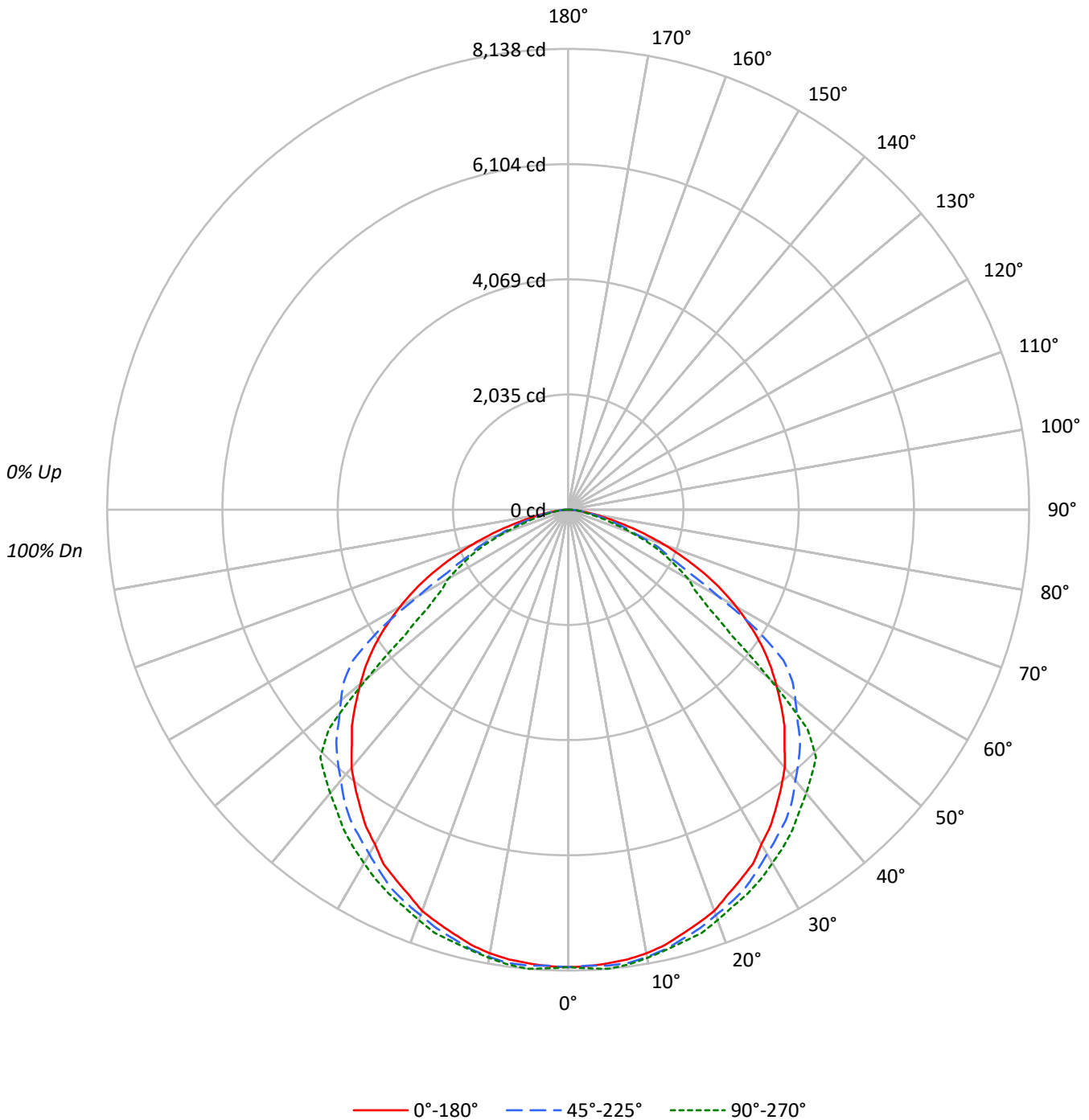
Lumens per Lamp: N/A  
Luminaire Lumens: 21879.0 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.33 / 1.43  
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 167.7  
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	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	70	65	72	68	64	62
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36
8	62	49	40	35	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°	11859	11859	11859
5°	11838	11820	11878
10°	11829	11775	11752
15°	11753	11649	11656
20°	11724	11544	11584
25°	11600	11494	11533
30°	11480	11340	11492
35°	11377	11320	11489
40°	11278	11152	11474
45°	11067	11067	11581
50°	10777	10847	9366
55°	10462	10579	6701
60°	9859	7817	6051
65°	8912	5740	5259
70°	7480	4511	3954
75°	5543	3347	2638
80°	3609	2355	1649
85°	1891	1425	1233



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	769.9	3.5
10°-20°	2219.6	10.1
20°-30°	3398.2	15.5
30°-40°	4182.9	19.1
40°-50°	4433.4	20.3
50°-60°	3560.6	16.3
60°-70°	2212.9	10.1
70°-80°	910.7	4.2
80°-90°	190.8	0.9
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
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0°-30°	6387.7	29.2
0°-40°	10570.7	48.3
0°-60°	18564.6	84.9
0°-90°	21879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	21879.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8079	8079	8079	8079	8079	
5°	8043	8063	8082	8125	8138	765
15°	7760	7869	7842	7895	7895	2193
25°	7204	7280	7382	7464	7484	3324
35°	6405	6563	6698	6865	6901	4010
45°	5398	5516	5790	6066	6188	4153
55°	4161	4346	4642	3313	3026	3704
65°	2635	2822	1957	1859	1868	2596
75°	1023	941	780	697	655	1122
85°	128	158	168	168	164	183
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8079.1	8079.1	8079.1	8079.1	8079.1
2.5°	8065.9	8075.8	8059.3	8095.5	8105.4
5°	8042.9	8062.6	8082.4	8125.1	8138.3
7.5°	8010.0	8052.8	8075.8	8102.1	8102.1
10°	7954.1	8019.9	8019.9	8029.7	8036.3
12.5°	7875.1	7963.9	7947.5	7954.1	7963.9
15°	7760.0	7868.6	7842.2	7894.9	7894.9
17.5°	7651.4	7743.6	7746.8	7812.6	7835.7
20°	7539.6	7615.3	7621.8	7717.2	7710.7
22.5°	7358.7	7473.8	7506.7	7559.3	7585.7
25°	7204.1	7279.7	7381.7	7463.9	7483.7
27.5°	7056.0	7118.5	7200.8	7342.2	7358.7
30°	6822.5	6954.1	7023.1	7210.6	7207.4
32.5°	6638.3	6756.7	6855.4	7036.3	7062.6
35°	6404.7	6562.6	6697.5	6865.2	6901.4
37.5°	6177.7	6322.5	6490.2	6654.7	6704.1
40°	5947.5	6079.0	6240.2	6437.6	6536.3
42.5°	5651.4	5812.6	6023.1	6250.1	6361.9
45°	5398.1	5516.5	5789.6	6065.9	6187.6
47.5°	5092.2	5246.8	5486.9	5838.9	5727.1
50°	4789.6	4967.2	5236.9	5289.6	4634.9
52.5°	4490.2	4667.8	4993.5	4184.3	3625.1
55°	4161.3	4345.5	4641.5	3312.6	3026.4
57.5°	3802.7	3977.0	3950.7	2750.0	2651.4
60°	3431.0	3602.0	3059.3	2407.9	2450.7
62.5°	3046.1	3230.3	2401.4	2200.7	2134.9
65°	2634.9	2822.4	1957.3	1858.6	1868.5
67.5°	2207.3	2365.2	1717.1	1585.6	1552.7
70°	1802.7	1848.7	1299.4	1263.2	1197.4
72.5°	1398.0	1338.8	1032.9	954.0	884.9
75°	1023.0	940.8	779.6	697.4	654.6
77.5°	710.5	651.3	562.5	592.1	437.5
80°	457.2	424.3	414.5	329.0	315.8
82.5°	269.7	266.5	256.6	236.8	230.3
85°	128.3	157.9	167.8	167.8	164.5
87.5°	46.1	78.9	105.3	111.8	118.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)