

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-LD5-32-W-FL-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 (P34181)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-32-W-FL-UNV-L850-CD4-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

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

Summary

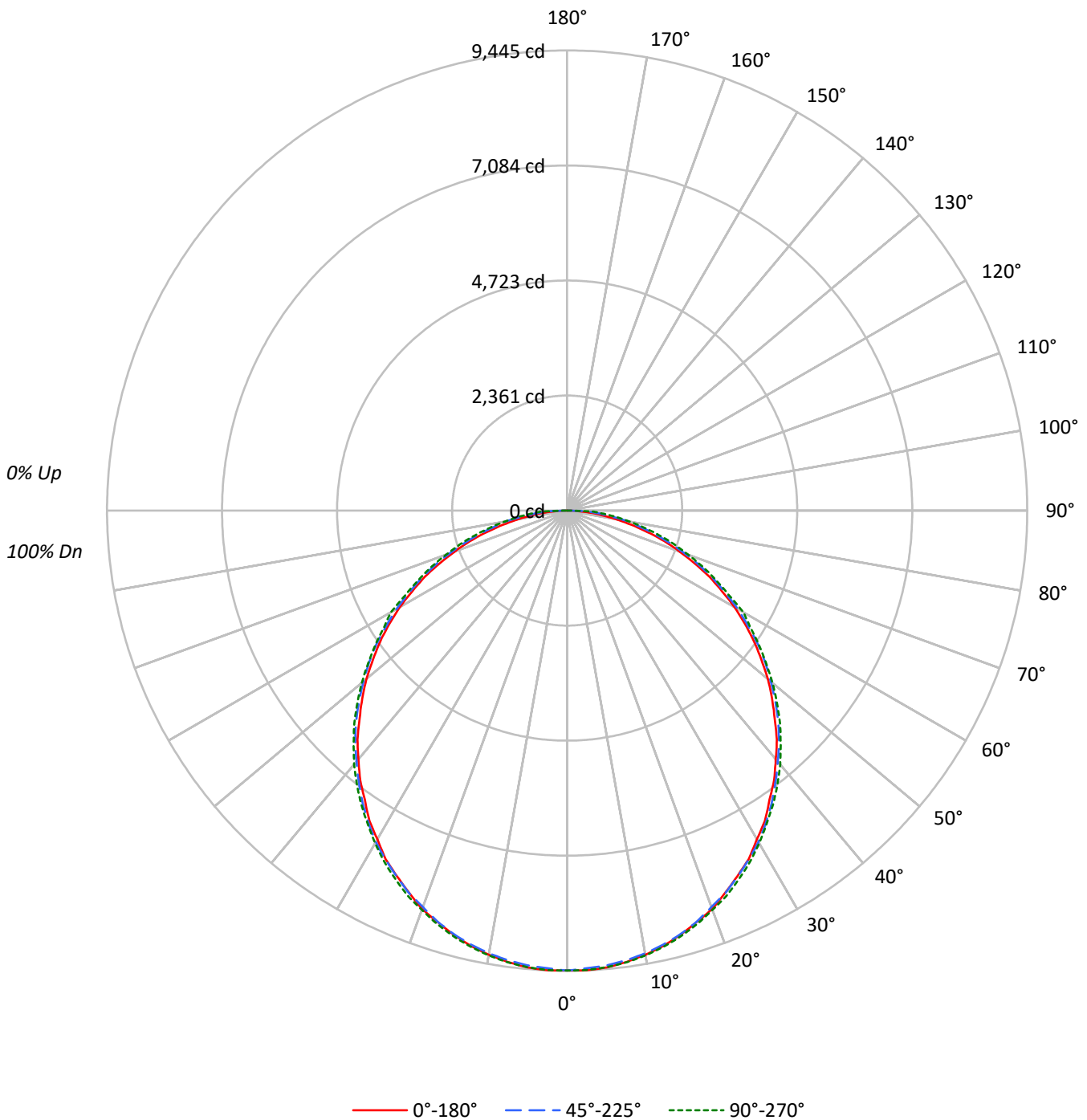
Lumens per Lamp: N/A
Luminaire Lumens: 26730.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 253.2
Input Voltage (V):
Input Current (A_{in}): 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	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45	43
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	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	13857	13857	13857
5°	13851	13699	13728
10°	13766	13547	13557
15°	13645	13368	13352
20°	13535	13118	13106
25°	13322	12898	12863
30°	13107	12679	12574
35°	12865	12371	12266
40°	12631	12018	11940
45°	12347	11706	11562
50°	12102	11301	11123
55°	11782	10890	10644
60°	11393	10341	10316
65°	10906	9710	9470
70°	10164	8891	8712
75°	9259	7982	7863
80°	8101	7152	6801
85°	6777	5387	5660



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.2	3.3
10°-20°	2543.4	9.5
20°-30°	3827.1	14.3
30°-40°	4578.6	17.1
40°-50°	4718.3	17.7
50°-60°	4254.0	15.9
60°-70°	3267.3	12.2
70°-80°	1967.1	7.4
80°-90°	682.0	2.6
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°	7262.7	27.2
0°-40°	11841.3	44.3
0°-60°	20813.6	77.9
0°-90°	26730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	26730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9440	9440	9440	9440	9440	
5°	9411	9402	9368	9402	9406	893
15°	9009	9019	9000	9038	9043	2543
25°	8274	8278	8283	8332	8346	3815
35°	7242	7315	7320	7363	7368	4540
45°	6022	6076	6124	6172	6177	4655
55°	4686	4725	4778	4807	4807	4182
65°	3224	3234	3311	3350	3365	3177
75°	1709	1757	1859	1927	1951	1815
85°	460	532	634	721	755	518
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9440.3	9440.3	9440.3	9440.3	9440.3
2.5°	9445.1	9440.3	9401.5	9430.6	9440.3
5°	9411.2	9401.5	9367.6	9401.5	9406.4
7.5°	9343.4	9338.6	9309.5	9343.4	9353.1
10°	9256.3	9256.3	9227.2	9261.1	9270.8
12.5°	9149.8	9144.9	9120.7	9159.5	9169.2
15°	9009.4	9019.1	8999.7	9038.4	9043.3
17.5°	8854.5	8859.3	8844.8	8878.7	8893.2
20°	8704.4	8680.2	8660.8	8718.9	8723.8
22.5°	8486.6	8496.2	8491.4	8544.6	8554.3
25°	8273.5	8278.4	8283.2	8331.6	8346.2
27.5°	8065.4	8060.5	8075.1	8113.8	8128.3
30°	7789.4	7828.2	7852.4	7881.4	7886.2
32.5°	7552.2	7566.7	7595.8	7615.1	7620.0
35°	7242.4	7315.0	7319.8	7363.4	7368.2
37.5°	6976.1	7000.3	7024.5	7077.8	7087.5
40°	6661.4	6695.3	6724.4	6772.8	6801.8
42.5°	6371.0	6409.7	6438.7	6482.3	6487.2
45°	6022.4	6075.7	6124.1	6172.5	6177.3
47.5°	5702.9	5756.1	5794.9	5833.6	5838.4
50°	5378.5	5422.1	5456.0	5504.4	5504.4
52.5°	5020.3	5073.5	5126.8	5146.2	5146.2
55°	4686.2	4725.0	4778.2	4807.3	4807.3
57.5°	4323.2	4342.5	4400.6	4453.9	4453.9
60°	3964.9	3989.1	4047.2	4085.9	4177.9
62.5°	3582.5	3621.2	3659.9	3785.8	3732.5
65°	3224.2	3233.9	3311.4	3350.1	3364.6
67.5°	2827.2	2861.1	2938.6	2982.2	3011.2
70°	2449.6	2493.2	2561.0	2614.2	2638.4
72.5°	2091.4	2110.7	2197.9	2270.5	2304.4
75°	1708.9	1757.3	1859.0	1926.8	1951.0
77.5°	1345.8	1423.3	1520.1	1757.3	1621.8
80°	1026.3	1084.4	1258.7	1268.4	1302.3
82.5°	716.5	784.3	900.5	977.9	1016.6
85°	459.9	532.5	634.2	721.3	755.2
87.5°	213.0	290.5	421.2	518.0	547.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)