

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-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-LD5-28-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

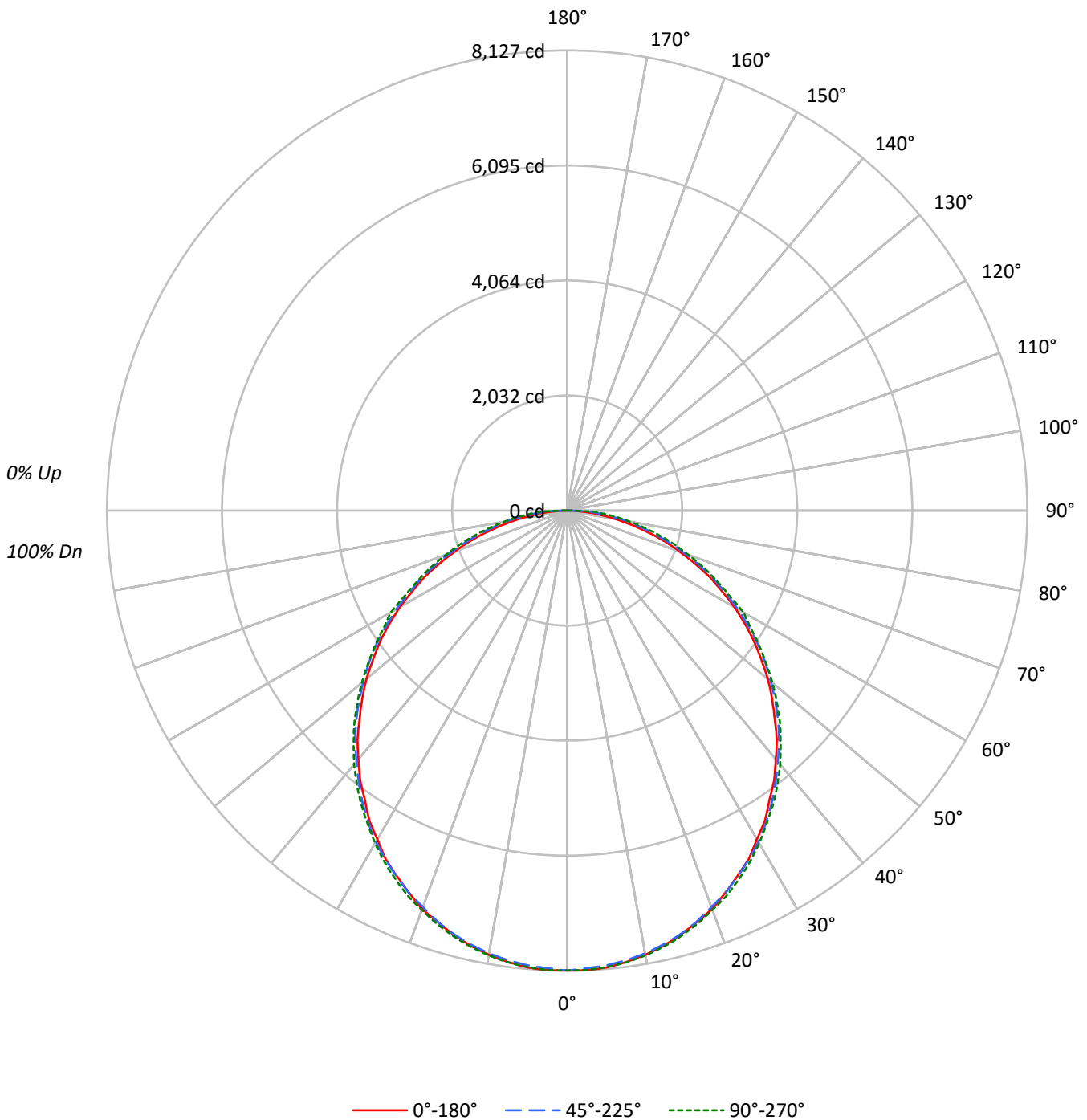
Lumens per Lamp: N/A
Luminaire Lumens: 23000.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 204
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	49	45
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	44	37	32	43	36	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11923	11923	11923
5°	11919	11788	11813
10°	11845	11657	11665
15°	11741	11503	11489
20°	11646	11287	11277
25°	11463	11098	11068
30°	11279	10910	10820
35°	11069	10645	10554
40°	10869	10340	10274
45°	10624	10072	9948
50°	10413	9724	9571
55°	10138	9371	9158
60°	9803	8898	8876
65°	9384	8355	8149
70°	8745	7650	7496
75°	7968	6868	6766
80°	6970	6154	5851
85°	5831	4635	4870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.7	3.3
10°-20°	2188.5	9.5
20°-30°	3293.0	14.3
30°-40°	3939.7	17.1
40°-50°	4059.9	17.7
50°-60°	3660.3	15.9
60°-70°	2811.4	12.2
70°-80°	1692.6	7.4
80°-90°	586.8	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°	6249.2	27.2
0°-40°	10188.9	44.3
0°-60°	17909.2	77.9
0°-90°	23000.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	23000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8123	8123	8123	8123	8123	
5°	8098	8090	8060	8090	8094	769
15°	7752	7760	7744	7777	7781	2188
25°	7119	7123	7127	7169	7182	3283
35°	6232	6294	6298	6336	6340	3906
45°	5182	5228	5270	5311	5315	4006
55°	4032	4066	4112	4136	4136	3599
65°	2774	2783	2849	2883	2895	2734
75°	1470	1512	1600	1658	1679	1562
85°	396	458	546	621	650	445
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8122.9	8122.9	8122.9	8122.9	8122.9
2.5°	8127.1	8122.9	8089.6	8114.6	8122.9
5°	8097.9	8089.6	8060.4	8089.6	8093.8
7.5°	8039.6	8035.5	8010.5	8039.6	8048.0
10°	7964.6	7964.6	7939.6	7968.8	7977.1
12.5°	7873.0	7868.8	7848.0	7881.3	7889.7
15°	7752.2	7760.5	7743.9	7777.2	7781.4
17.5°	7618.9	7623.1	7610.6	7639.7	7652.2
20°	7489.8	7468.9	7452.3	7502.3	7506.4
22.5°	7302.3	7310.6	7306.5	7352.3	7360.6
25°	7119.0	7123.2	7127.4	7169.0	7181.5
27.5°	6939.9	6935.7	6948.2	6981.6	6994.1
30°	6702.5	6735.8	6756.6	6781.6	6785.8
32.5°	6498.3	6510.8	6535.8	6552.5	6556.7
35°	6231.7	6294.2	6298.4	6335.9	6340.1
37.5°	6002.6	6023.5	6044.3	6090.1	6098.4
40°	5731.9	5761.0	5786.0	5827.7	5852.7
42.5°	5481.9	5515.3	5540.3	5577.7	5581.9
45°	5182.0	5227.8	5269.5	5311.1	5315.3
47.5°	4907.1	4952.9	4986.2	5019.6	5023.7
50°	4628.0	4665.5	4694.6	4736.3	4736.3
52.5°	4319.7	4365.6	4411.4	4428.0	4428.0
55°	4032.3	4065.6	4111.5	4136.4	4136.4
57.5°	3719.9	3736.5	3786.5	3832.4	3832.4
60°	3411.6	3432.5	3482.4	3515.8	3594.9
62.5°	3082.5	3115.9	3149.2	3257.5	3211.7
65°	2774.3	2782.6	2849.3	2882.6	2895.1
67.5°	2432.7	2461.9	2528.5	2566.0	2591.0
70°	2107.8	2145.3	2203.6	2249.4	2270.3
72.5°	1799.5	1816.2	1891.2	1953.7	1982.8
75°	1470.5	1512.1	1599.6	1657.9	1678.7
77.5°	1158.0	1224.7	1308.0	1512.1	1395.5
80°	883.1	933.1	1083.1	1091.4	1120.5
82.5°	616.5	674.8	774.8	841.5	874.8
85°	395.7	458.2	545.7	620.7	649.8
87.5°	183.3	249.9	362.4	445.7	470.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)