

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-LD5-18-W-TWB-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 (P34175)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-18-W-TWB-UNV-L850-CD2-U
Description: Metalux 8' ILED WITH THIN WHITE BAFFLE DISTRIBUTION

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

Summary

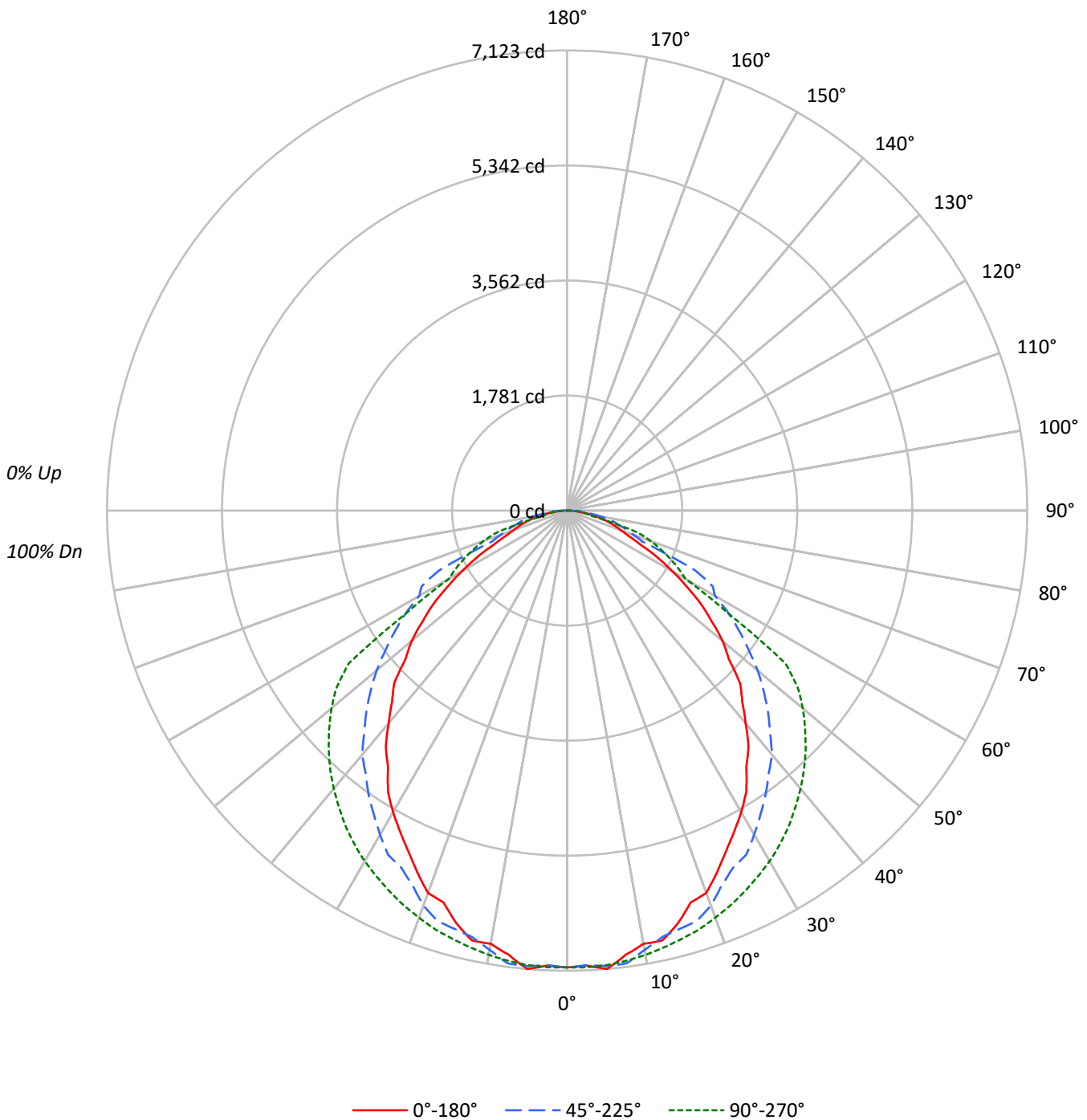
Lumens per Lamp: N/A
Luminaire Lumens: 17834.0 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 131.3
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	84	73	65	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	50	60	54	49	58	53	49	47
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	44	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10380	10380	10380
5°	10484	10350	10306
10°	10129	10138	10211
15°	10021	9960	10131
20°	9795	9855	10074
25°	9367	9482	10023
30°	9069	9350	9992
35°	8588	9058	9944
40°	8152	8819	9867
45°	7765	8403	9769
50°	7074	7973	9623
55°	6369	7424	9137
60°	5415	6748	5224
65°	4270	6418	4940
70°	3652	3785	4542
75°	3486	3444	2864
80°	3187	3044	1687
85°	2539	2287	1432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.9	3.8
10°-20°	1902.0	10.7
20°-30°	2839.1	15.9
30°-40°	3379.3	18.9
40°-50°	3416.8	19.2
50°-60°	2878.8	16.1
60°-70°	1663.5	9.3
70°-80°	821.1	4.6
80°-90°	263.4	1.5
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°	5411.0	30.3
0°-40°	8790.4	49.3
0°-60°	15086.0	84.6
0°-90°	17834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17834.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7072	7072	7072	7072	7072	
5°	7123	7139	7077	7042	7061	666
15°	6617	6719	6706	6886	6862	1858
25°	5817	5925	6089	6385	6504	2686
35°	4835	5031	5360	5815	5974	3041
45°	3788	3903	4396	4924	5220	2874
55°	2533	2732	3257	3884	4127	2249
65°	1262	1540	2189	1645	1755	1300
75°	643	791	802	883	711	676
85°	172	213	269	320	191	198
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7071.8	7071.8	7071.8	7071.8	7071.8
2.5°	7050.3	7058.4	7042.2	7082.6	7074.5
5°	7123.0	7139.1	7077.2	7042.2	7061.1
7.5°	6937.2	6972.2	7069.2	7023.4	7028.8
10°	6810.7	6816.1	6904.9	7047.6	6983.0
12.5°	6816.1	6805.3	6765.0	7009.9	6926.5
15°	6616.9	6719.2	6705.7	6886.1	6861.9
17.5°	6361.2	6460.8	6662.7	6762.3	6797.3
20°	6299.2	6264.3	6506.5	6603.4	6705.7
22.5°	6059.7	6199.6	6266.9	6482.3	6614.2
25°	5817.4	5925.1	6089.3	6385.4	6503.8
27.5°	5599.3	5715.1	6005.8	6293.9	6388.1
30°	5389.4	5497.0	5790.5	6178.1	6266.9
32.5°	5160.5	5295.1	5572.4	6038.1	6127.0
35°	4834.8	5031.3	5359.7	5814.7	5973.5
37.5°	4611.4	4740.6	5125.5	5577.8	5798.5
40°	4299.1	4506.4	4934.4	5394.7	5620.9
42.5°	4011.1	4215.6	4646.4	5165.9	5429.7
45°	3787.6	3903.4	4396.0	4923.6	5219.8
47.5°	3389.2	3682.6	4124.1	4665.2	4996.3
50°	3144.2	3346.1	3849.5	4417.5	4762.1
52.5°	2826.6	3052.7	3540.0	4143.0	4501.0
55°	2533.2	2732.4	3257.3	3884.5	4126.8
57.5°	2199.4	2455.1	2963.9	3591.1	2945.0
60°	1884.4	2140.1	2640.8	2425.5	2115.9
62.5°	1582.9	1809.0	2541.2	1825.2	1940.9
65°	1262.5	1539.8	2188.6	1644.8	1755.2
67.5°	1036.4	1230.2	1262.5	1472.5	1569.4
70°	880.3	974.5	1090.3	1305.6	1375.6
72.5°	764.5	804.9	947.6	1160.2	1171.0
75°	643.4	791.4	802.2	883.0	710.7
77.5°	514.2	638.0	694.5	514.2	363.4
80°	403.8	433.4	535.7	452.3	323.0
82.5°	280.0	320.3	371.5	390.3	266.5
85°	172.3	212.7	269.2	320.3	191.1
87.5°	72.7	115.8	185.7	247.7	105.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)