

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-LD5-14-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-LD5-14-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

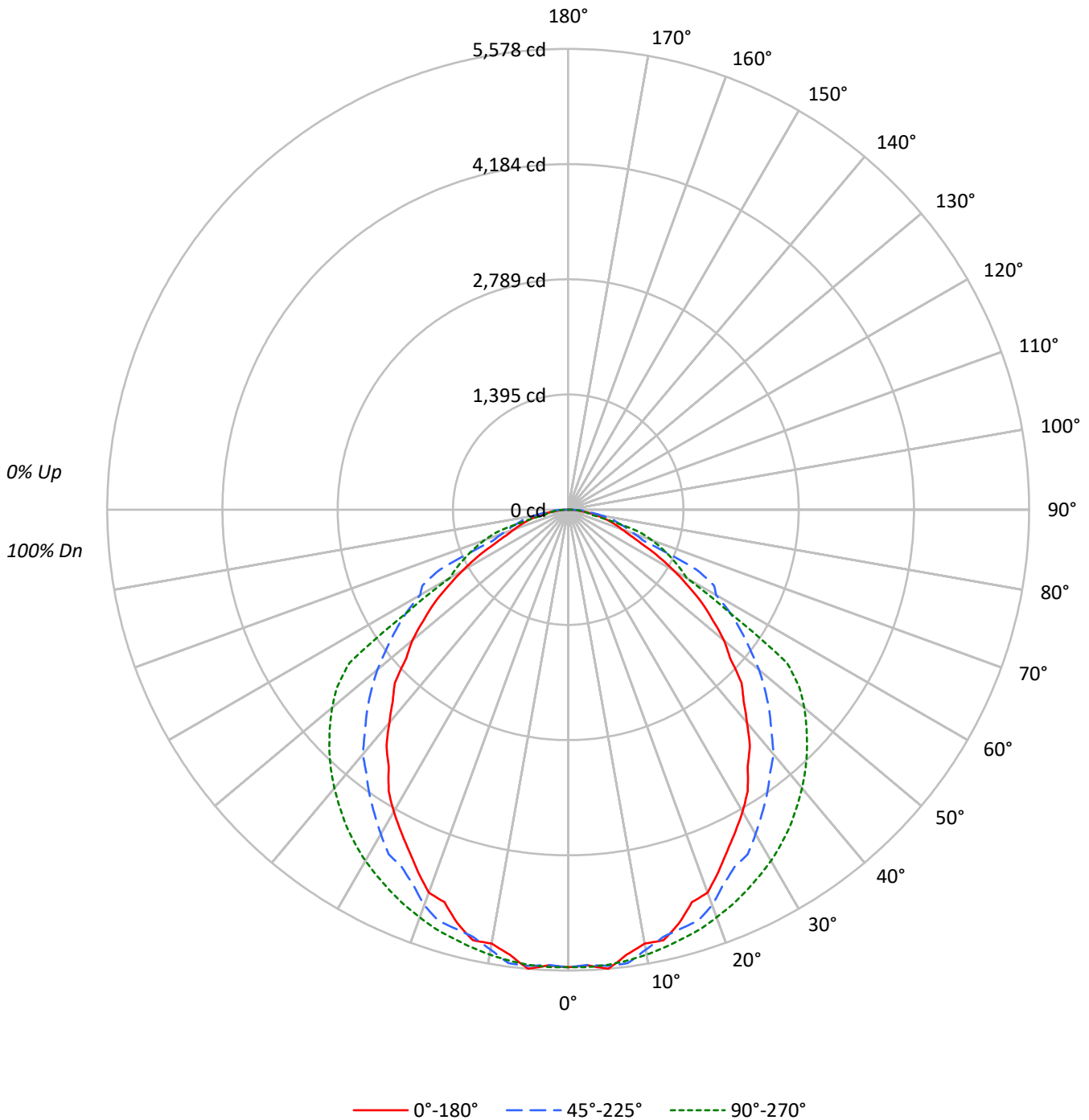
Lumens per Lamp: N/A
Luminaire Lumens: 13965.0 lumens
Efficiency: N/A
Efficacy: 138.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.32 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 100.8
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°	8128	8128	8128
5°	8209	8105	8070
10°	7931	7938	7996
15°	7847	7800	7933
20°	7670	7717	7889
25°	7335	7425	7849
30°	7101	7321	7825
35°	6725	7093	7787
40°	6383	6905	7726
45°	6081	6580	7650
50°	5540	6244	7535
55°	4987	5813	7155
60°	4240	5284	4091
65°	3344	5026	3868
70°	2860	2964	3557
75°	2730	2697	2243
80°	2496	2384	1321
85°	1988	1791	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.6	3.8
10°-20°	1489.4	10.7
20°-30°	2223.1	15.9
30°-40°	2646.2	18.9
40°-50°	2675.6	19.2
50°-60°	2254.3	16.1
60°-70°	1302.6	9.3
70°-80°	643.0	4.6
80°-90°	206.2	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°	4237.1	30.3
0°-40°	6883.3	49.3
0°-60°	11813.2	84.6
0°-90°	13965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5538	5538	5538	5538	5538	
5°	5578	5590	5542	5514	5529	521
15°	5181	5262	5251	5392	5373	1455
25°	4555	4640	4768	5000	5093	2103
35°	3786	3940	4197	4553	4678	2382
45°	2966	3057	3442	3856	4087	2251
55°	1984	2140	2551	3042	3232	1761
65°	989	1206	1714	1288	1374	1018
75°	504	620	628	691	556	530
85°	135	166	211	251	150	155
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5537.6	5537.6	5537.6	5537.6	5537.6
2.5°	5520.8	5527.1	5514.5	5546.1	5539.8
5°	5577.7	5590.3	5541.9	5514.5	5529.2
7.5°	5432.2	5459.6	5535.5	5499.7	5503.9
10°	5333.2	5337.4	5406.9	5518.7	5468.1
12.5°	5337.4	5329.0	5297.3	5489.2	5423.8
15°	5181.4	5261.5	5251.0	5392.2	5373.2
17.5°	4981.1	5059.1	5217.2	5295.2	5322.6
20°	4932.7	4905.3	5095.0	5170.9	5251.0
22.5°	4745.0	4854.7	4907.4	5076.0	5179.3
25°	4555.3	4639.6	4768.2	5000.1	5092.9
27.5°	4384.6	4475.2	4702.9	4928.4	5002.2
30°	4220.2	4304.5	4534.2	4837.8	4907.4
32.5°	4041.0	4146.4	4363.5	4728.2	4797.7
35°	3785.9	3939.8	4197.0	4553.2	4677.6
37.5°	3611.0	3712.1	4013.6	4367.7	4540.6
40°	3366.4	3528.7	3863.9	4224.4	4401.4
42.5°	3140.9	3301.1	3638.4	4045.2	4251.8
45°	2965.9	3056.6	3442.3	3855.5	4087.4
47.5°	2653.9	2883.7	3229.4	3653.1	3912.4
50°	2462.1	2620.2	3014.4	3459.2	3729.0
52.5°	2213.4	2390.4	2772.0	3244.2	3524.5
55°	1983.6	2139.6	2550.6	3041.8	3231.5
57.5°	1722.2	1922.5	2320.9	2812.0	2306.1
60°	1475.6	1675.8	2067.9	1899.3	1656.9
62.5°	1239.5	1416.6	1989.9	1429.2	1519.8
65°	988.6	1205.8	1713.8	1288.0	1374.4
67.5°	811.6	963.3	988.6	1153.1	1228.9
70°	689.3	763.1	853.7	1022.4	1077.2
72.5°	598.7	630.3	742.0	908.5	917.0
75°	503.8	619.7	628.2	691.4	556.5
77.5°	402.6	499.6	543.9	402.6	284.6
80°	316.2	339.4	419.5	354.1	253.0
82.5°	219.2	250.8	290.9	305.7	208.7
85°	134.9	166.5	210.8	250.8	149.7
87.5°	56.9	90.6	145.5	193.9	82.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)