

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-LD5-10-W-ASYWG-UNV-L850-CD1-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 (P34184)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8ILED-LD5-10-W-ASYWG-UNV-L850-CD1-U
Description: Metalux 8' ILED WITH ASYMMETRIC DIRECTIONAL LOUVER-HEAVY DUTY WIREGUARD DISTRIBUTION

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

Summary

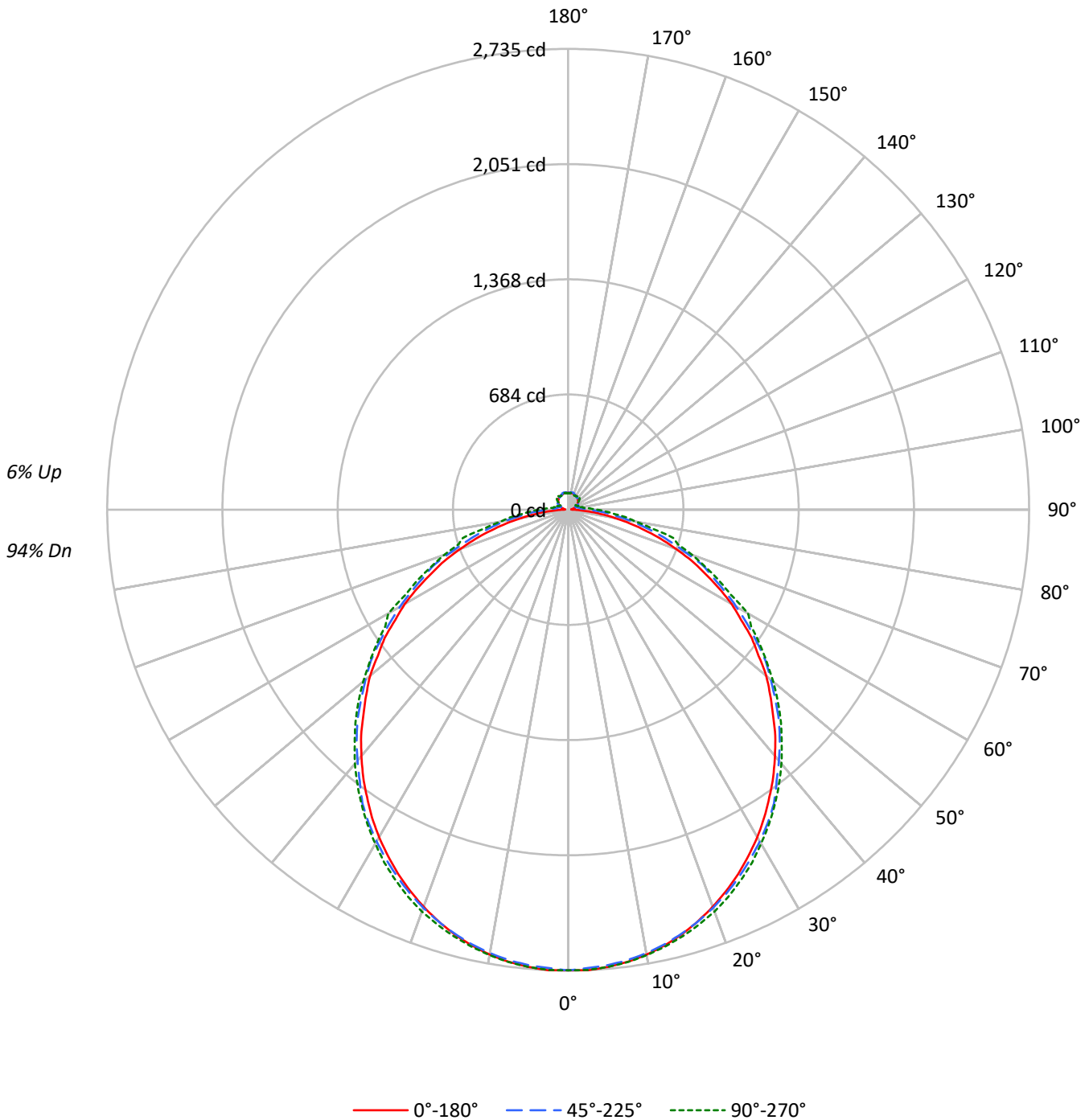
Lumens per Lamp: N/A
Luminaire Lumens: 8238.0 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.24 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 67
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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	97	97	97	94
1	107	102	98	94	104	99	95	91	94	91	87	89	86	84	84	82	80	78
2	97	89	82	76	94	86	80	75	82	76	72	78	73	69	74	70	67	65
3	88	78	70	63	85	76	68	62	72	66	60	68	63	58	65	61	57	54
4	81	69	60	53	78	67	59	53	64	57	51	61	55	50	58	53	49	46
5	74	62	52	46	72	60	52	45	57	50	44	55	48	43	52	47	42	40
6	69	55	46	40	66	54	46	40	52	44	39	49	43	38	47	42	37	35
7	64	50	41	35	62	49	41	35	47	40	34	45	39	34	43	37	33	31
8	59	46	37	31	57	45	37	31	43	36	31	41	35	30	40	34	30	28
9	55	42	34	28	54	41	33	28	40	33	28	38	32	27	37	31	27	25
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4013	4013	4013
5°	4008	3967	3975
10°	3987	3923	3925
15°	3951	3868	3870
20°	3899	3808	3813
25°	3842	3741	3737
30°	3776	3670	3650
35°	3697	3597	3558
40°	3618	3475	3455
45°	3522	3379	3340
50°	3452	3250	3207
55°	3342	3109	3070
60°	3218	2942	3040
65°	3028	2771	2761
70°	2820	2574	2578
75°	2548	2349	2606
80°	2212	2124	2133
85°	1843	1946	2000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	3.1
10°-20°	736.8	8.9
20°-30°	1108.5	13.5
30°-40°	1324.9	16.1
40°-50°	1359.3	16.5
50°-60°	1219.7	14.8
60°-70°	937.2	11.4
70°-80°	573.4	7.0
80°-90°	243.2	3.0
90°-100°	85.6	1.0
100°-110°	59.9	0.7
110°-120°	55.9	0.7
120°-130°	65.1	0.8
130°-140°	68.9	0.8
140°-150°	58.3	0.7
150°-160°	44.5	0.5
160°-170°	28.9	0.4
170°-180°	9.7	0.1
0°-30°	2103.8	25.5
0°-40°	3428.7	41.6
0°-60°	6007.7	72.9
0°-90°	7761.4	94.2
90°-120°	201.3	2.4
90°-150°	393.5	4.8
90°-180°	477.0	5.8
0°-180°	8238.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2734	2734	2734	2734	2734	
5°	2723	2723	2713	2723	2723	259
15°	2609	2610	2604	2618	2621	735
25°	2386	2390	2402	2423	2425	1099
35°	2081	2108	2128	2133	2137	1303
45°	1718	1748	1768	1781	1784	1329
55°	1329	1341	1364	1384	1386	1184
65°	895	912	945	975	981	890
75°	470	496	547	579	647	501
85°	125	170	229	259	267	134
90°	24	68	130	164	172	19
95°	20	47	80	107	112	18
105°	38	36	54	86	80	39
115°	56	62	47	54	57	56
125°	71	71	84	72	60	63
135°	83	81	89	100	96	64
145°	90	93	89	93	98	57
155°	96	102	96	92	92	45
165°	100	102	106	102	100	28
175°	101	101	101	101	98	10
180°	100	100	100	100	100	



TEST NUMBER: P#

CATALOG NUMBER: 8ILED-LD5-10-W-ASYWG-UNV-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2733.9	2733.9	2733.9	2733.9	2733.9
2.5°	2735.4	2733.9	2721.9	2730.9	2733.9
5°	2723.4	2723.4	2712.8	2723.4	2723.4
7.5°	2706.8	2705.3	2696.2	2705.3	2708.3
10°	2681.2	2681.2	2672.1	2682.7	2684.2
12.5°	2648.0	2649.5	2642.0	2652.5	2655.5
15°	2608.8	2610.3	2604.3	2617.9	2620.9
17.5°	2560.6	2563.6	2562.1	2577.2	2581.7
20°	2507.8	2516.9	2513.9	2533.5	2538.0
22.5°	2449.1	2455.1	2461.1	2482.2	2485.2
25°	2385.8	2390.3	2402.3	2423.4	2425.0
27.5°	2316.4	2328.5	2339.0	2355.6	2361.7
30°	2244.1	2260.7	2272.7	2287.8	2289.3
32.5°	2165.7	2188.3	2203.4	2210.9	2215.5
35°	2081.3	2108.5	2128.1	2132.6	2137.1
37.5°	1998.4	2027.1	2031.6	2052.7	2054.2
40°	1908.0	1941.2	1944.2	1963.8	1968.3
42.5°	1819.1	1837.2	1858.3	1876.4	1874.9
45°	1718.1	1748.3	1767.8	1781.4	1784.4
47.5°	1624.7	1659.3	1665.4	1681.9	1688.0
50°	1534.2	1561.4	1568.9	1590.0	1587.0
52.5°	1424.2	1454.4	1477.0	1484.5	1484.5
55°	1329.3	1341.3	1363.9	1383.5	1386.5
57.5°	1216.2	1235.8	1256.9	1284.1	1287.1
60°	1119.8	1134.9	1151.4	1196.7	1231.3
62.5°	1006.8	1021.8	1045.9	1083.6	1083.6
65°	895.2	911.8	945.0	975.1	981.1
67.5°	794.3	809.3	865.1	872.6	877.1
70°	679.7	699.3	741.5	770.1	780.7
72.5°	575.7	593.8	639.0	675.2	681.2
75°	470.2	495.8	547.1	578.7	646.6
77.5°	373.8	405.4	453.6	491.3	504.9
80°	280.3	315.0	373.8	402.4	408.4
82.5°	194.4	239.6	290.9	333.1	343.6
85°	125.1	170.3	229.1	259.2	266.8
87.5°	66.3	114.5	171.8	208.0	217.0
90°	24.1	67.8	129.6	164.3	171.8
92.5°	21.1	48.2	98.0	128.1	135.6
95°	19.6	46.7	79.9	107.0	111.5
97.5°	22.6	40.7	70.8	84.4	88.9
100°	27.1	36.2	67.8	81.4	85.9
102.5°	31.6	33.2	61.8	73.8	73.8
105°	37.7	36.2	54.3	85.9	79.9
107.5°	42.2	48.2	52.7	63.3	69.3
110°	48.2	52.7	46.7	60.3	61.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	52.7	58.8	46.7	58.8	58.8
115°	55.8	61.8	46.7	54.3	57.3
117.5°	60.3	63.3	58.8	52.7	52.7
120°	64.8	64.8	72.3	51.2	51.2
122.5°	67.8	67.8	76.9	57.3	51.2
125°	70.8	70.8	84.4	72.3	60.3
127.5°	73.8	73.8	87.4	82.9	75.4
130°	76.9	75.4	90.4	88.9	84.4
132.5°	79.9	78.4	90.4	93.4	90.4
135°	82.9	81.4	88.9	99.5	96.5
137.5°	84.4	84.4	87.4	101.0	101.0
140°	87.4	87.4	87.4	99.5	104.0
142.5°	88.9	90.4	88.9	96.5	101.0
145°	90.4	93.4	88.9	93.4	98.0
147.5°	91.9	96.5	88.9	93.4	93.4
150°	94.9	98.0	90.4	91.9	93.4
152.5°	94.9	101.0	93.4	91.9	91.9
155°	96.5	102.5	96.5	91.9	91.9
157.5°	98.0	102.5	98.0	93.4	91.9
160°	98.0	104.0	101.0	96.5	93.4
162.5°	99.5	104.0	104.0	99.5	96.5
165°	99.5	102.5	105.5	102.5	99.5
167.5°	99.5	102.5	105.5	104.0	101.0
170°	101.0	102.5	104.0	104.0	101.0
172.5°	101.0	101.0	102.5	102.5	101.0
175°	101.0	101.0	101.0	101.0	98.0
177.5°	101.0	101.0	101.0	99.5	96.5
180°	99.5	99.5	99.5	99.5	99.5

(END OF REPORT)