

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-FL-UNV-L835-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 (P34181)
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-FL-UNV-L835-CD1-U
Description: Metalux 8' ILED WITH FROSTED ACRYLIC LENS & FRAME DISTRIBUTION

Light Source: (1) 3500 CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

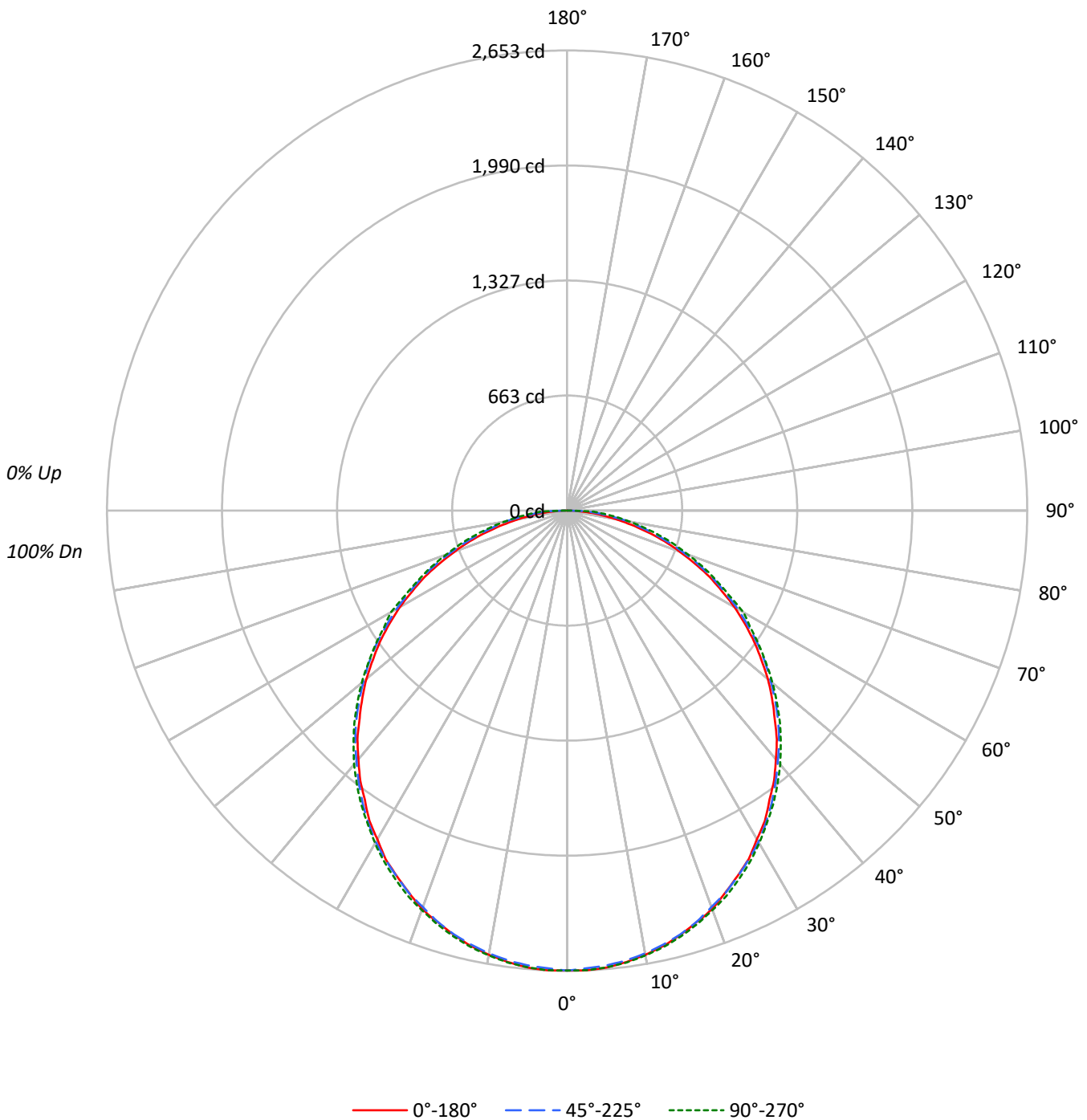
Lumens per Lamp: N/A
Luminaire Lumens: 7509.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.92' x L: 8' x H: 0.1')
CIE Type: Direct

Input Watts (W): 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	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°	3893	3893	3893
5°	3891	3848	3857
10°	3867	3806	3808
15°	3833	3755	3751
20°	3802	3685	3682
25°	3742	3623	3613
30°	3682	3562	3532
35°	3614	3475	3446
40°	3548	3376	3354
45°	3468	3288	3248
50°	3399	3175	3125
55°	3310	3059	2990
60°	3200	2905	2898
65°	3063	2728	2660
70°	2855	2497	2447
75°	2601	2242	2209
80°	2276	2009	1910
85°	1904	1514	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.6	3.3
10°-20°	714.5	9.5
20°-30°	1075.1	14.3
30°-40°	1286.2	17.1
40°-50°	1325.5	17.7
50°-60°	1195.0	15.9
60°-70°	917.8	12.2
70°-80°	552.6	7.4
80°-90°	191.6	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°	2040.2	27.2
0°-40°	3326.5	44.3
0°-60°	5847.0	77.9
0°-90°	7509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2652	2652	2652	2652	2652	
5°	2644	2641	2632	2641	2642	251
15°	2531	2534	2528	2539	2540	714
25°	2324	2326	2327	2340	2345	1072
35°	2034	2055	2056	2068	2070	1275
45°	1692	1707	1720	1734	1735	1308
55°	1316	1327	1342	1350	1350	1175
65°	906	908	930	941	945	892
75°	480	494	522	541	548	510
85°	129	150	178	203	212	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2652.0	2652.0	2652.0	2652.0	2652.0
2.5°	2653.3	2652.0	2641.1	2649.2	2652.0
5°	2643.8	2641.1	2631.6	2641.1	2642.4
7.5°	2624.8	2623.4	2615.2	2624.8	2627.5
10°	2600.3	2600.3	2592.1	2601.6	2604.4
12.5°	2570.4	2569.0	2562.2	2573.1	2575.8
15°	2530.9	2533.6	2528.2	2539.1	2540.4
17.5°	2487.4	2488.8	2484.7	2494.2	2498.3
20°	2445.2	2438.4	2433.0	2449.3	2450.7
22.5°	2384.0	2386.8	2385.4	2400.4	2403.1
25°	2324.2	2325.6	2326.9	2340.5	2344.6
27.5°	2265.7	2264.4	2268.4	2279.3	2283.4
30°	2188.2	2199.1	2205.9	2214.0	2215.4
32.5°	2121.6	2125.6	2133.8	2139.2	2140.6
35°	2034.5	2054.9	2056.3	2068.5	2069.9
37.5°	1959.7	1966.5	1973.3	1988.3	1991.0
40°	1871.3	1880.9	1889.0	1902.6	1910.8
42.5°	1789.7	1800.6	1808.8	1821.0	1822.4
45°	1691.8	1706.8	1720.4	1734.0	1735.3
47.5°	1602.1	1617.0	1627.9	1638.8	1640.1
50°	1510.9	1523.2	1532.7	1546.3	1546.3
52.5°	1410.3	1425.3	1440.2	1445.7	1445.7
55°	1316.5	1327.3	1342.3	1350.5	1350.5
57.5°	1214.5	1219.9	1236.2	1251.2	1251.2
60°	1113.8	1120.6	1136.9	1147.8	1173.7
62.5°	1006.4	1017.3	1028.1	1063.5	1048.5
65°	905.7	908.5	930.2	941.1	945.2
67.5°	794.2	803.7	825.5	837.7	845.9
70°	688.1	700.4	719.4	734.4	741.2
72.5°	587.5	593.0	617.4	637.8	647.4
75°	480.1	493.7	522.2	541.3	548.1
77.5°	378.1	399.8	427.0	493.7	455.6
80°	288.3	304.6	353.6	356.3	365.8
82.5°	201.3	220.3	253.0	274.7	285.6
85°	129.2	149.6	178.2	202.6	212.2
87.5°	59.8	81.6	118.3	145.5	153.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)