

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: P130645

Luminaire Tested: **TBLED-LD1-8-M-UNV-L835-CD1-DOS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25346)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: TBLED-LD1-8-M-UNV-L835-CD1-DOS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7582.8 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.33
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

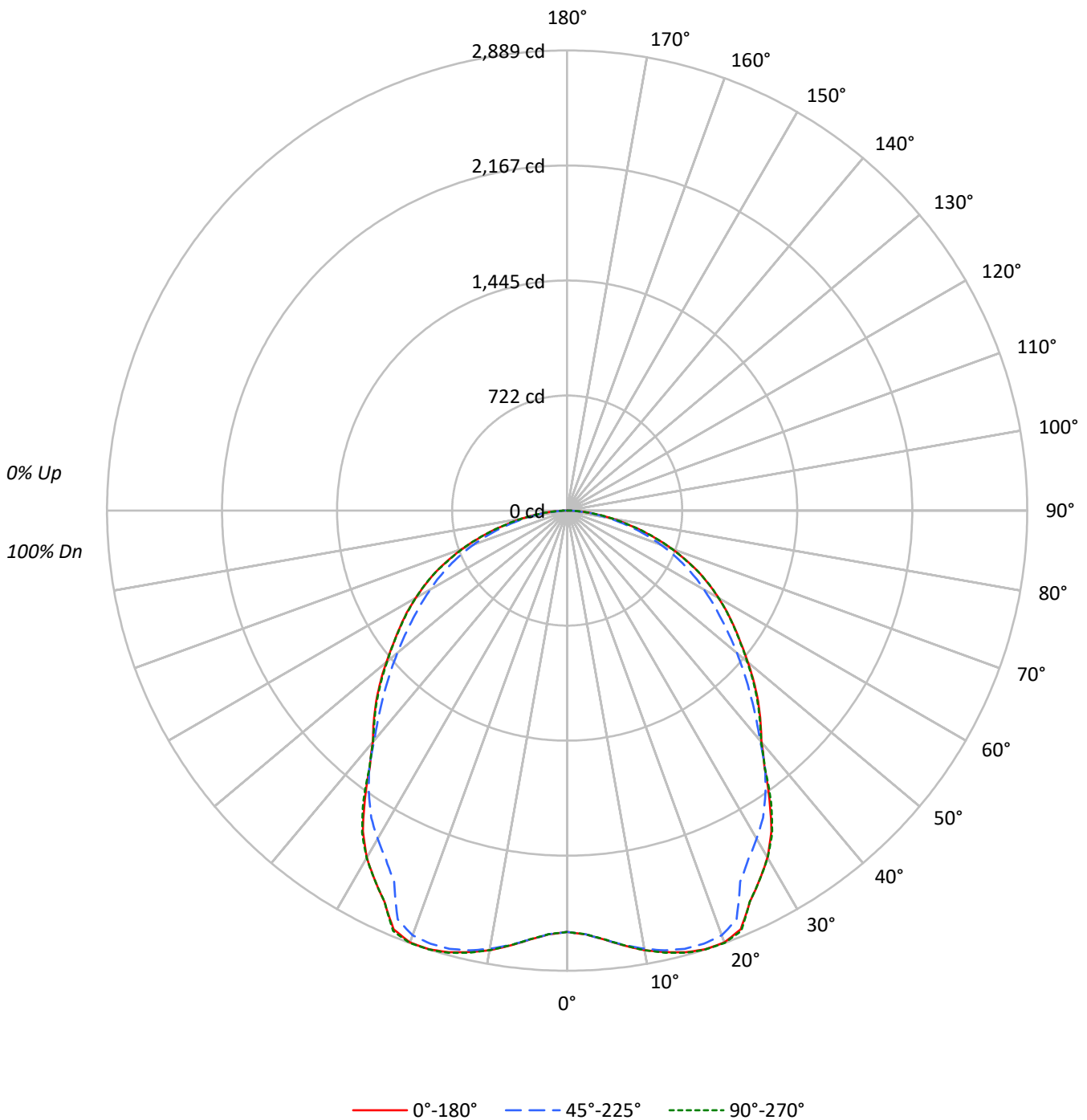
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	28643	28643	28643
5°	29391	29391	29381
10°	30818	30715	30818
15°	32184	31932	32225
20°	33243	32705	33286
25°	32418	30714	32384
30°	31454	29752	31489
35°	29285	28694	29495
40°	26821	26623	26782
45°	25959	24887	25873
50°	24958	23450	24864
55°	24220	22268	24167
60°	23786	21484	23786
65°	23294	20831	23222
70°	22109	19807	22080
75°	20129	18217	20208
80°	17617	15989	17673
85°	15295	13319	15295



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.2	3.4
10°-20°	809.6	10.7
20°-30°	1224.3	16.1
30°-40°	1336.4	17.6
40°-50°	1311.9	17.3
50°-60°	1148.5	15.1
60°-70°	863.0	11.4
70°-80°	493.4	6.5
80°-90°	134.6	1.8
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°	2295.0	30.3
0°-40°	3631.4	47.9
0°-60°	6091.8	80.3
0°-90°	7582.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7582.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2645	2645	2645	2645	2645	
5°	2704	2704	2704	2704	2703	261
15°	2871	2868	2848	2870	2874	812
25°	2713	2717	2571	2716	2710	1253
35°	2215	2107	2171	2098	2231	1381
45°	1695	1730	1625	1719	1690	1307
55°	1283	1303	1180	1299	1280	1151
65°	909	874	813	873	906	894
75°	481	462	435	463	483	511
85°	123	116	107	116	123	138
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2645.1	2645.1	2645.1	2645.1	2645.1	2645.1	2645.1	2645.1	2645.1	2645.1	2645.1
2.5°	2662.9	2661.0	2661.9	2661.0	2662.9	2662.9	2661.9	2662.9	2661.9	2661.9	2661.9
5°	2703.9	2702.0	2702.9	2701.1	2703.9	2704.8	2703.9	2704.8	2704.8	2703.9	2703.9
7.5°	2755.2	2751.4	2752.4	2750.5	2753.3	2753.3	2752.4	2752.4	2751.4	2750.5	2751.4
10°	2802.7	2800.8	2800.8	2799.9	2801.8	2800.8	2799.0	2798.1	2794.3	2793.4	2795.3
12.5°	2839.1	2840.9	2843.7	2843.7	2842.8	2841.9	2837.2	2834.4	2828.8	2827.9	2829.8
15°	2870.8	2871.7	2874.5	2873.6	2870.8	2866.1	2861.5	2855.9	2851.2	2848.4	2851.2
17.5°	2887.6	2887.6	2886.6	2883.8	2878.2	2872.6	2866.1	2860.5	2855.9	2852.1	2855.9
20°	2884.8	2884.8	2880.1	2874.5	2865.2	2856.8	2850.3	2844.7	2840.0	2838.1	2840.9
22.5°	2845.6	2848.4	2844.7	2843.7	2836.3	2825.1	2812.0	2798.1	2783.1	2778.5	2785.0
25°	2713.2	2711.3	2713.2	2730.9	2735.6	2698.3	2650.7	2606.9	2580.8	2570.6	2584.5
27.5°	2615.3	2613.4	2590.1	2552.8	2501.6	2477.3	2481.0	2477.3	2470.8	2466.1	2472.7
30°	2515.5	2501.6	2438.2	2370.1	2320.7	2313.2	2334.7	2361.7	2378.5	2379.4	2376.6
32.5°	2386.9	2358.9	2276.9	2224.6	2204.1	2200.4	2206.9	2234.9	2273.1	2288.0	2268.5
35°	2215.3	2199.5	2149.1	2115.6	2109.0	2104.4	2093.2	2107.2	2154.7	2170.6	2152.8
37.5°	2037.2	2052.2	2030.7	2018.6	2017.7	2008.3	1992.5	1994.3	2019.5	2041.9	2016.7
40°	1897.4	1912.3	1926.3	1925.4	1921.6	1907.6	1895.5	1889.0	1887.1	1883.4	1889.0
42.5°	1797.6	1792.0	1819.1	1834.0	1824.7	1815.3	1805.1	1800.4	1765.9	1750.1	1770.6
45°	1695.1	1693.2	1711.8	1743.5	1736.1	1723.0	1720.2	1701.6	1642.8	1625.1	1647.5
47.5°	1589.7	1597.2	1613.9	1640.0	1644.7	1633.5	1625.1	1586.9	1527.2	1505.8	1526.3
50°	1481.5	1498.3	1521.6	1531.9	1536.6	1530.0	1524.4	1475.0	1414.4	1392.0	1415.3
52.5°	1378.0	1401.4	1432.1	1423.7	1420.0	1422.8	1413.5	1368.7	1310.0	1282.9	1310.9
55°	1282.9	1305.3	1332.4	1315.6	1297.9	1308.1	1299.7	1264.3	1213.0	1179.5	1211.2
57.5°	1193.4	1207.4	1228.9	1206.5	1186.0	1198.1	1189.7	1161.7	1114.2	1085.3	1116.1
60°	1098.3	1109.5	1121.6	1100.2	1078.8	1085.3	1081.6	1056.4	1017.2	992.0	1015.4
62.5°	1003.2	1008.8	1017.2	993.9	976.2	976.2	974.3	950.1	919.3	905.3	918.4
65°	909.1	908.1	910.9	887.6	874.6	872.7	869.0	846.6	822.4	813.0	823.3
67.5°	802.8	804.6	805.6	784.1	773.9	769.2	766.4	745.9	726.3	719.8	727.3
70°	698.3	699.3	699.3	679.7	672.2	664.8	662.0	646.1	630.3	625.6	632.1
72.5°	588.3	594.9	592.1	576.2	570.6	561.3	559.4	549.2	537.0	530.5	537.0
75°	481.1	490.4	487.6	473.6	467.1	457.8	458.7	453.1	440.1	435.4	441.9
77.5°	377.6	383.2	384.1	376.7	366.4	359.9	362.7	361.8	352.4	341.2	349.6
80°	282.5	289.0	290.0	283.4	275.1	269.5	273.2	273.2	265.7	256.4	263.9
82.5°	196.7	201.4	201.4	197.7	193.9	188.3	190.2	191.1	186.5	177.2	183.7
85°	123.1	124.0	122.1	119.3	116.5	114.7	114.7	116.5	112.8	107.2	111.9
87.5°	45.7	46.6	45.7	48.5	45.7	44.8	45.7	48.5	44.8	44.8	45.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2645.1	2645.1	2645.1	2645.1	2645.1	2645.1	2645.1	2645.1
2.5°	2661.9	2662.9	2662.9	2661.9	2661.9	2661.9	2661.0	2661.9
5°	2703.9	2704.8	2704.8	2702.9	2703.9	2702.9	2702.0	2702.9
7.5°	2752.4	2754.2	2753.3	2754.2	2755.2	2753.3	2753.3	2753.3
10°	2797.1	2799.9	2801.8	2803.6	2804.6	2802.7	2803.6	2802.7
12.5°	2833.5	2839.1	2842.8	2844.7	2846.5	2846.5	2844.7	2842.8
15°	2855.9	2862.4	2867.0	2872.6	2876.4	2877.3	2875.4	2874.5
17.5°	2861.5	2867.0	2873.6	2879.2	2884.8	2888.5	2890.4	2889.4
20°	2845.6	2850.3	2857.7	2866.1	2873.6	2881.0	2886.6	2888.5
22.5°	2799.9	2813.0	2827.0	2837.2	2843.7	2847.5	2850.3	2856.8
25°	2612.5	2647.0	2697.4	2735.6	2729.1	2711.3	2704.8	2710.4
27.5°	2479.2	2475.5	2469.9	2499.7	2546.3	2587.3	2606.9	2616.2
30°	2359.8	2331.9	2305.8	2316.0	2363.6	2434.4	2494.1	2518.3
32.5°	2234.9	2196.7	2192.9	2199.5	2221.8	2269.4	2350.5	2396.2
35°	2103.4	2082.9	2094.1	2102.5	2110.0	2134.2	2190.1	2231.2
37.5°	1986.0	1982.2	1997.1	2007.4	2011.1	2023.2	2044.7	2039.1
40°	1882.5	1885.3	1898.3	1909.5	1917.0	1917.9	1904.8	1894.6
42.5°	1789.2	1801.3	1801.3	1815.3	1828.4	1810.7	1783.6	1791.1
45°	1694.1	1713.7	1712.8	1724.9	1737.0	1706.2	1683.9	1689.5
47.5°	1582.2	1619.5	1625.1	1638.2	1638.2	1606.5	1588.8	1582.2
50°	1468.5	1517.0	1523.5	1531.0	1527.2	1515.1	1491.8	1475.9
52.5°	1363.1	1408.8	1415.3	1412.5	1420.0	1425.6	1393.9	1374.3
55°	1259.6	1295.1	1303.5	1294.1	1311.8	1327.7	1297.9	1280.1
57.5°	1157.1	1184.1	1191.6	1184.1	1203.7	1221.4	1201.8	1189.7
60°	1053.6	1077.8	1082.5	1076.0	1099.3	1115.1	1105.8	1098.3
62.5°	952.0	968.7	973.4	976.2	990.2	1008.8	1007.0	1006.0
65°	849.4	867.1	869.0	877.4	886.7	910.9	906.3	906.3
67.5°	749.6	761.7	764.5	777.6	781.3	804.6	801.8	798.1
70°	646.1	658.3	662.0	675.0	680.6	699.3	700.2	697.4
72.5°	551.0	555.7	559.4	571.5	576.2	593.9	593.9	590.2
75°	454.1	453.1	456.9	469.0	473.6	488.6	487.6	483.0
77.5°	362.7	358.0	360.8	369.2	374.8	386.0	382.3	378.5
80°	276.9	269.5	270.4	278.8	282.5	290.0	286.2	283.4
82.5°	195.8	189.3	187.4	193.9	199.5	200.5	199.5	197.7
85°	119.3	113.7	114.7	117.5	121.2	121.2	123.1	123.1
87.5°	46.6	43.8	43.8	46.6	46.6	47.6	46.6	44.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)