

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: P130663

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130663
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-CMS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH MINI SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7617.5 lumens
Efficiency: N/A
Efficacy: 98.9 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

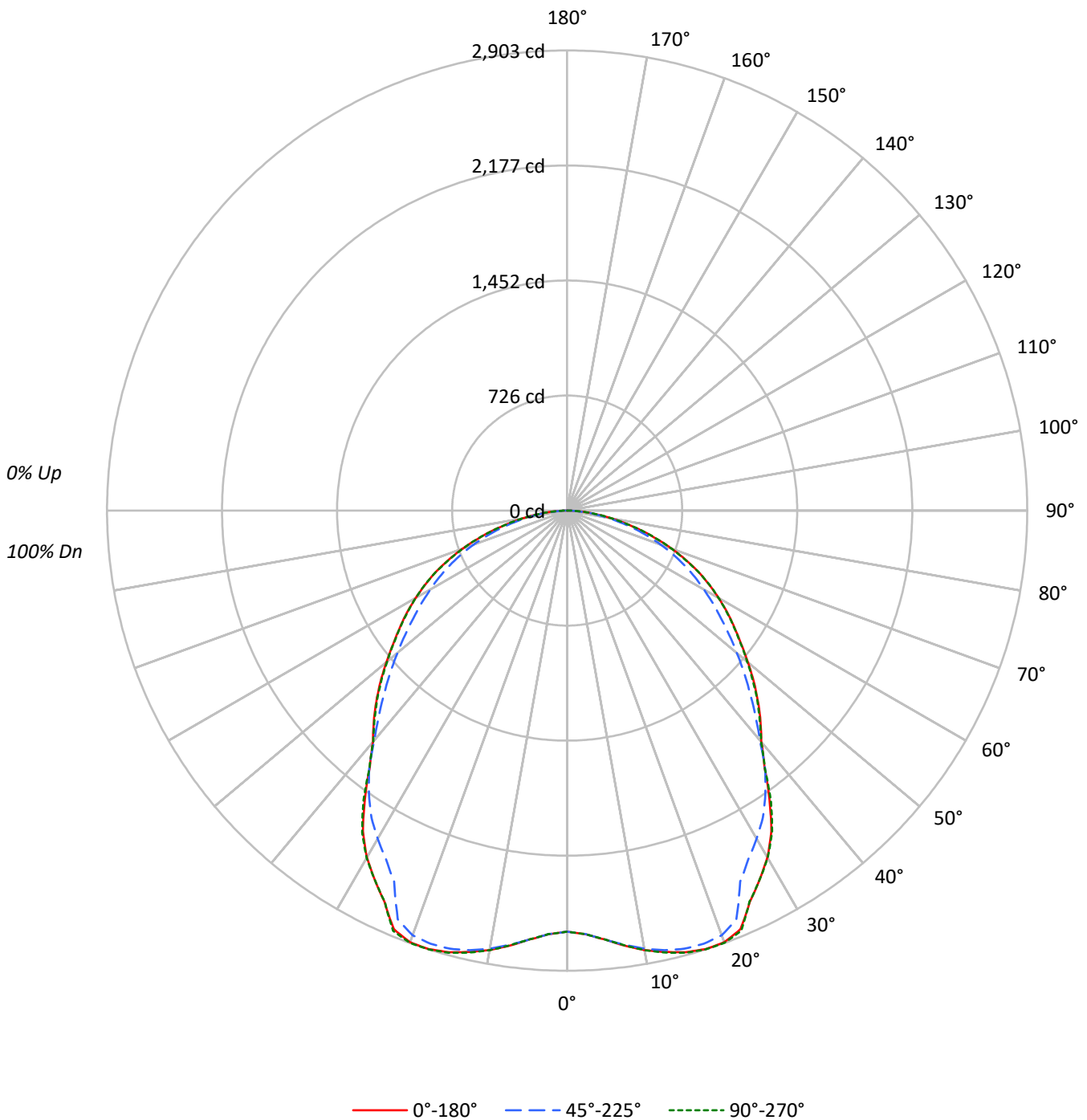
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	28774	28774	28774
5°	29526	29526	29515
10°	30958	30856	30958
15°	32330	32078	32373
20°	33395	32855	33438
25°	32566	30854	32532
30°	31599	29888	31634
35°	29420	28825	29630
40°	26944	26745	26905
45°	26077	25002	25991
50°	25073	23558	24978
55°	24332	22368	24279
60°	23897	21584	23897
65°	23399	20926	23327
70°	22210	19899	22182
75°	20221	18300	20300
80°	17698	16064	17754
85°	15357	13381	15357



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	3.4
10°-20°	813.3	10.7
20°-30°	1229.9	16.1
30°-40°	1342.5	17.6
40°-50°	1317.9	17.3
50°-60°	1153.8	15.1
60°-70°	867.0	11.4
70°-80°	495.7	6.5
80°-90°	135.2	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°	2305.5	30.3
0°-40°	3648.0	47.9
0°-60°	6119.7	80.3
0°-90°	7617.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7617.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2657	2657	2657	2657	2657	
5°	2716	2717	2716	2716	2715	263
15°	2884	2882	2861	2883	2888	816
25°	2726	2729	2582	2729	2723	1259
35°	2226	2116	2180	2108	2241	1388
45°	1703	1737	1633	1727	1697	1313
55°	1289	1309	1185	1305	1286	1156
65°	913	878	817	877	910	898
75°	483	465	437	465	485	513
85°	124	116	108	117	124	138
90°	0	0	0	0	0	



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CATALOG NUMBER: TBLED-LD1-8-M-UNV-L835-CD1-CMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2657.2	2657.2	2657.2	2657.2	2657.2	2657.2	2657.2	2657.2	2657.2	2657.2	2657.2
2.5°	2675.0	2673.2	2674.1	2673.2	2675.0	2675.0	2674.1	2675.0	2674.1	2674.1	2674.1
5°	2716.3	2714.4	2715.3	2713.4	2716.3	2717.2	2716.3	2717.2	2717.2	2716.3	2716.3
7.5°	2767.8	2764.0	2765.0	2763.1	2765.9	2765.9	2765.0	2765.0	2764.0	2763.1	2764.0
10°	2815.5	2813.7	2813.7	2812.7	2814.6	2813.7	2811.8	2810.9	2807.1	2806.2	2808.0
12.5°	2852.1	2853.9	2856.8	2856.8	2855.8	2854.9	2850.2	2847.4	2841.8	2840.8	2842.7
15°	2883.9	2884.8	2887.7	2886.7	2883.9	2879.2	2874.5	2868.9	2864.2	2861.4	2864.2
17.5°	2900.8	2900.8	2899.8	2897.0	2891.4	2885.8	2879.2	2873.6	2868.9	2865.2	2868.9
20°	2898.0	2898.0	2893.3	2887.7	2878.3	2869.9	2863.3	2857.7	2853.0	2851.1	2853.9
22.5°	2858.6	2861.4	2857.7	2856.8	2849.3	2838.0	2824.9	2810.9	2795.9	2791.2	2797.7
25°	2725.6	2723.7	2725.6	2743.4	2748.1	2710.6	2662.9	2618.8	2592.6	2582.3	2596.4
27.5°	2627.3	2625.4	2602.0	2564.5	2513.0	2488.7	2492.4	2488.7	2482.1	2477.4	2484.0
30°	2527.1	2513.0	2449.3	2380.9	2331.3	2323.8	2345.3	2372.5	2389.4	2390.3	2387.5
32.5°	2397.8	2369.7	2287.3	2234.8	2214.2	2210.5	2217.0	2245.1	2283.5	2298.5	2278.8
35°	2225.5	2209.5	2159.0	2125.2	2118.7	2114.0	2102.8	2116.8	2164.6	2180.5	2162.7
37.5°	2046.6	2061.5	2040.0	2027.8	2026.9	2017.5	2001.6	2003.5	2028.8	2051.2	2026.0
40°	1906.1	1921.0	1935.1	1934.2	1930.4	1916.4	1904.2	1897.6	1895.8	1892.0	1897.6
42.5°	1805.8	1800.2	1827.4	1842.4	1833.0	1823.6	1813.3	1808.7	1774.0	1758.1	1778.7
45°	1702.8	1700.9	1719.7	1751.5	1744.0	1730.9	1728.1	1709.4	1650.4	1632.6	1655.0
47.5°	1597.0	1604.5	1621.3	1647.5	1652.2	1641.0	1632.6	1594.2	1534.2	1512.7	1533.3
50°	1488.3	1505.2	1528.6	1538.9	1543.6	1537.0	1531.4	1481.8	1420.9	1398.4	1421.8
52.5°	1384.4	1407.8	1438.7	1430.2	1426.5	1429.3	1419.9	1375.0	1316.0	1288.8	1316.9
55°	1288.8	1311.3	1338.5	1321.6	1303.8	1314.1	1305.7	1270.1	1218.6	1184.8	1216.7
57.5°	1198.9	1212.9	1234.5	1212.0	1191.4	1203.6	1195.2	1167.1	1119.3	1090.2	1121.2
60°	1103.4	1114.6	1126.8	1105.2	1083.7	1090.2	1086.5	1061.2	1021.9	996.6	1020.0
62.5°	1007.8	1013.4	1021.9	998.5	980.7	980.7	978.8	954.4	923.5	909.5	922.6
65°	913.2	912.3	915.1	891.7	878.6	876.7	872.9	850.5	826.1	816.7	827.1
67.5°	806.4	808.3	809.3	787.7	777.4	772.7	769.9	749.3	729.6	723.1	730.6
70°	701.5	702.5	702.5	682.8	675.3	667.8	665.0	649.1	633.2	628.5	635.0
72.5°	591.0	597.6	594.8	578.8	573.2	563.9	562.0	551.7	539.5	532.9	539.5
75°	483.3	492.7	489.9	475.8	469.3	459.9	460.8	455.2	442.1	437.4	444.0
77.5°	379.3	385.0	385.9	378.4	368.1	361.5	364.4	363.4	354.0	342.8	351.2
80°	283.8	290.4	291.3	284.7	276.3	270.7	274.4	274.4	266.9	257.6	265.1
82.5°	197.6	202.3	202.3	198.6	194.8	189.2	191.1	192.0	187.3	178.0	184.5
85°	123.6	124.6	122.7	119.9	117.1	115.2	115.2	117.1	113.3	107.7	112.4
87.5°	45.9	46.8	45.9	48.7	45.9	45.0	45.9	48.7	45.0	45.0	45.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P130663

CATALOG NUMBER: TBLED-LD1-8-M-UNV-L835-CD1-CMS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2657.2	2657.2	2657.2	2657.2	2657.2	2657.2	2657.2	2657.2
2.5°	2674.1	2675.0	2675.0	2674.1	2674.1	2674.1	2673.2	2674.1
5°	2716.3	2717.2	2717.2	2715.3	2716.3	2715.3	2714.4	2715.3
7.5°	2765.0	2766.8	2765.9	2766.8	2767.8	2765.9	2765.9	2765.9
10°	2809.9	2812.7	2814.6	2816.5	2817.4	2815.5	2816.5	2815.5
12.5°	2846.4	2852.1	2855.8	2857.7	2859.6	2859.6	2857.7	2855.8
15°	2868.9	2875.5	2880.2	2885.8	2889.5	2890.5	2888.6	2887.7
17.5°	2874.5	2880.2	2886.7	2892.3	2898.0	2901.7	2903.6	2902.6
20°	2858.6	2863.3	2870.8	2879.2	2886.7	2894.2	2899.8	2901.7
22.5°	2812.7	2825.8	2839.9	2850.2	2856.8	2860.5	2863.3	2869.9
25°	2624.5	2659.1	2709.7	2748.1	2741.5	2723.7	2717.2	2722.8
27.5°	2490.5	2486.8	2481.2	2511.1	2558.0	2599.2	2618.8	2628.2
30°	2370.6	2342.5	2316.3	2326.6	2374.4	2445.6	2505.5	2529.9
32.5°	2245.1	2206.7	2203.0	2209.5	2232.0	2279.8	2361.3	2407.2
35°	2113.1	2092.5	2103.7	2112.1	2119.6	2144.0	2200.2	2241.4
37.5°	1995.0	1991.3	2006.3	2016.6	2020.3	2032.5	2054.1	2048.4
40°	1891.1	1893.9	1907.0	1918.2	1925.7	1926.7	1913.6	1903.3
42.5°	1797.4	1809.6	1809.6	1823.6	1836.8	1819.0	1791.8	1799.3
45°	1701.9	1721.5	1720.6	1732.8	1745.0	1714.1	1691.6	1697.2
47.5°	1589.5	1626.9	1632.6	1645.7	1645.7	1613.8	1596.0	1589.5
50°	1475.2	1523.9	1530.5	1538.0	1534.2	1522.0	1498.6	1482.7
52.5°	1369.4	1415.3	1421.8	1419.0	1426.5	1432.1	1400.3	1380.6
55°	1265.4	1301.0	1309.4	1300.1	1317.9	1333.8	1303.8	1286.0
57.5°	1162.4	1189.5	1197.0	1189.5	1209.2	1227.0	1207.3	1195.2
60°	1058.4	1082.8	1087.4	1080.9	1104.3	1120.2	1110.9	1103.4
62.5°	956.3	973.2	977.9	980.7	994.7	1013.4	1011.6	1010.6
65°	853.3	871.1	872.9	881.4	890.7	915.1	910.4	910.4
67.5°	753.1	765.2	768.0	781.2	784.9	808.3	805.5	801.8
70°	649.1	661.3	665.0	678.1	683.7	702.5	703.4	700.6
72.5°	553.6	558.2	562.0	574.2	578.8	596.6	596.6	592.9
75°	456.1	455.2	459.0	471.1	475.8	490.8	489.9	485.2
77.5°	364.4	359.7	362.5	370.9	376.5	387.8	384.0	380.3
80°	278.2	270.7	271.6	280.1	283.8	291.3	287.5	284.7
82.5°	196.7	190.1	188.3	194.8	200.4	201.4	200.4	198.6
85°	119.9	114.3	115.2	118.0	121.8	121.8	123.6	123.6
87.5°	46.8	44.0	44.0	46.8	46.8	47.8	46.8	45.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)