

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: P130690

Luminaire Tested: **TBLED-LD1-8-M-UNV-L835-CD1-CG-DIMRF-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130690
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25358)
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-CG-DIMRF-LW
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LUMAWATT WIRELESS SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7448.7 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.33
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

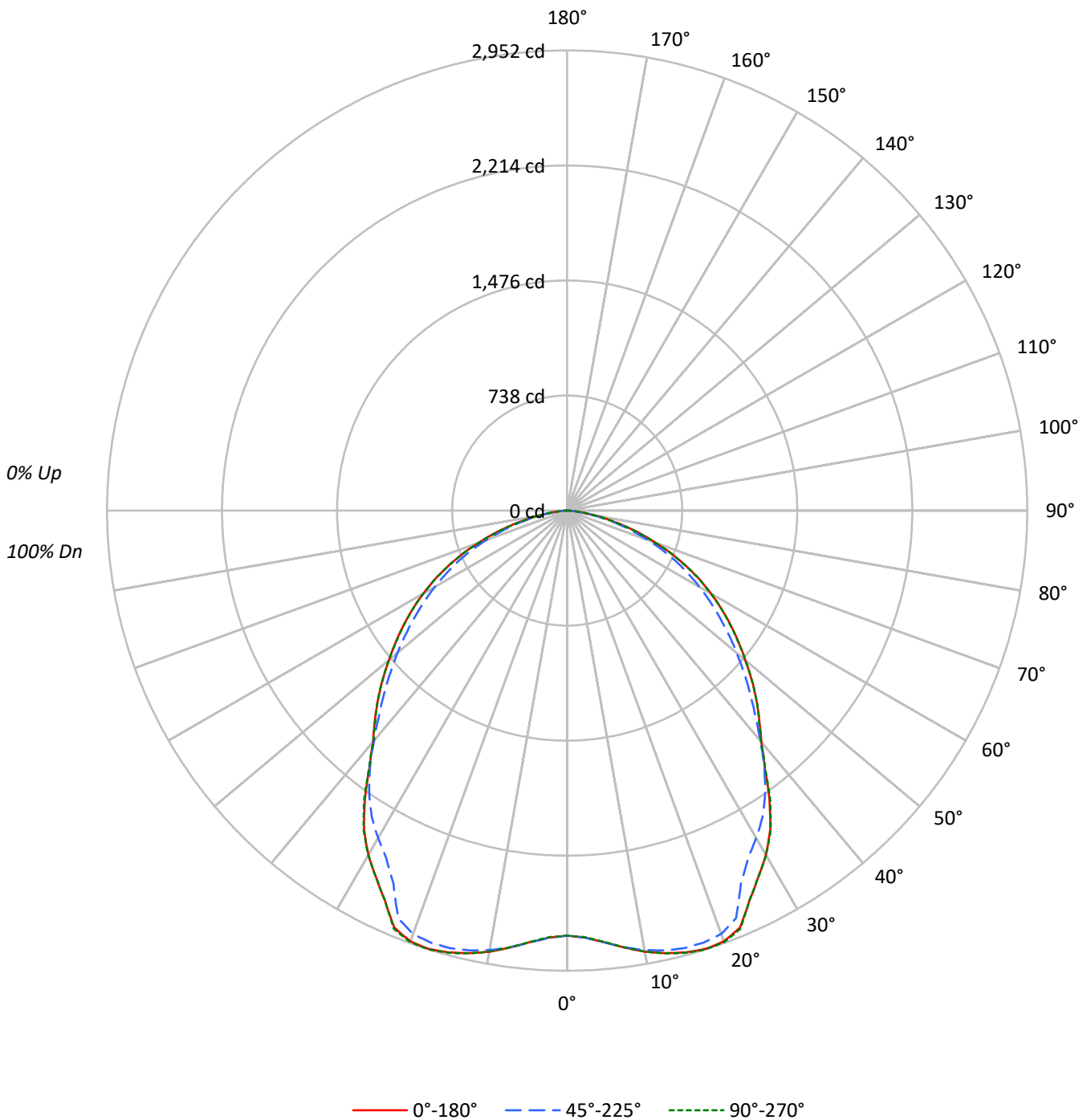
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	68	64	62
4	84	73	64	58	82	71	64	58	69	62	57	67	61	56	65	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
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	38	49	43	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	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	29	38	33	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29519	29519	29519
5°	30222	30243	30202
10°	31597	31479	31587
15°	32895	32570	32926
20°	33886	33302	33939
25°	33025	31511	33003
30°	31900	30326	31911
35°	29918	29272	30015
40°	27384	27255	27346
45°	26296	25423	26296
50°	25113	23924	25143
55°	24160	22534	24092
60°	23106	21261	23106
65°	21582	19724	21582
70°	19155	17489	19155
75°	15878	14359	15648
80°	11462	10508	11237
85°	6858	6299	6635



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	3.6
10°-20°	826.4	11.1
20°-30°	1248.1	16.8
30°-40°	1362.6	18.3
40°-50°	1329.8	17.9
50°-60°	1142.4	15.3
60°-70°	807.5	10.8
70°-80°	390.7	5.2
80°-90°	72.9	1.0
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°	2342.8	31.5
0°-40°	3705.4	49.7
0°-60°	6177.6	82.9
0°-90°	7448.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7448.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2726	2726	2726	2726	2726	
5°	2780	2782	2782	2781	2778	268
15°	2934	2929	2905	2930	2937	830
25°	2764	2772	2637	2773	2762	1274
35°	2263	2146	2214	2141	2270	1408
45°	1717	1751	1660	1745	1717	1324
55°	1280	1295	1194	1291	1276	1144
65°	842	816	770	815	842	831
75°	380	361	343	360	374	406
85°	55	52	51	51	53	75
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°	2726.0	2726.0	2726.0	2726.0	2726.0	2726.0	2726.0	2726.0	2726.0	2726.0	2726.0
2.5°	2742.3	2741.4	2740.5	2741.4	2743.2	2743.2	2743.2	2742.3	2742.3	2743.2	2742.3
5°	2780.3	2778.5	2779.4	2778.5	2782.2	2781.3	2781.3	2782.2	2782.2	2782.2	2781.3
7.5°	2827.4	2825.6	2825.6	2825.6	2826.5	2826.5	2826.5	2826.5	2825.6	2825.6	2825.6
10°	2873.6	2870.9	2871.8	2870.9	2871.8	2870.0	2868.2	2866.4	2864.6	2862.8	2863.7
12.5°	2908.0	2907.1	2908.9	2908.9	2907.1	2904.4	2899.9	2895.4	2891.7	2889.9	2891.7
15°	2934.3	2936.1	2937.0	2936.1	2932.5	2925.3	2919.8	2912.6	2908.0	2905.3	2908.0
17.5°	2948.8	2948.8	2947.0	2941.6	2935.2	2928.9	2920.7	2913.5	2908.9	2906.2	2909.9
20°	2940.6	2939.7	2933.4	2925.3	2915.3	2907.1	2899.9	2893.6	2890.8	2889.9	2891.7
22.5°	2896.3	2898.1	2894.5	2889.0	2881.8	2870.0	2856.4	2843.7	2833.8	2830.2	2833.8
25°	2764.0	2763.1	2769.5	2780.3	2787.6	2755.9	2713.3	2672.6	2644.5	2637.3	2644.5
27.5°	2653.6	2652.7	2638.2	2606.5	2569.3	2540.3	2532.2	2527.7	2517.7	2513.2	2519.5
30°	2551.2	2542.2	2490.5	2424.4	2377.3	2365.6	2383.7	2408.1	2421.7	2425.3	2419.0
32.5°	2425.3	2400.9	2331.1	2273.2	2252.4	2243.3	2249.6	2281.3	2313.9	2332.1	2312.1
35°	2263.2	2242.4	2187.1	2155.4	2150.9	2141.0	2132.8	2151.8	2191.7	2214.3	2187.1
37.5°	2083.9	2093.9	2070.3	2054.0	2054.0	2044.1	2027.8	2034.1	2056.7	2078.5	2054.9
40°	1937.2	1955.3	1960.7	1956.2	1954.4	1941.7	1926.3	1922.7	1923.6	1928.1	1920.9
42.5°	1824.9	1827.6	1852.1	1860.2	1853.0	1839.4	1830.3	1824.9	1798.6	1786.8	1802.2
45°	1717.1	1718.9	1738.8	1762.4	1757.9	1743.4	1736.1	1718.9	1672.7	1660.1	1676.4
47.5°	1604.8	1614.8	1629.3	1653.7	1658.2	1643.8	1633.8	1603.9	1548.7	1537.8	1549.6
50°	1490.7	1509.7	1526.9	1538.7	1545.0	1532.4	1521.5	1486.2	1432.7	1420.1	1431.8
52.5°	1386.6	1403.8	1426.4	1422.8	1420.1	1417.3	1410.1	1373.9	1323.2	1305.9	1322.2
55°	1279.7	1296.9	1319.5	1304.1	1292.4	1296.9	1288.7	1258.9	1215.4	1193.6	1215.4
57.5°	1173.7	1187.3	1205.4	1186.4	1169.2	1174.6	1169.2	1148.4	1107.6	1086.8	1107.6
60°	1066.9	1075.0	1087.7	1067.8	1049.6	1053.3	1051.5	1029.7	998.0	981.7	998.0
62.5°	957.3	961.8	968.1	949.1	933.7	932.8	933.7	912.0	887.5	876.7	888.4
65°	842.3	844.1	847.7	828.7	817.8	813.3	815.1	795.2	777.0	769.8	778.0
67.5°	724.5	726.3	727.2	709.1	701.9	695.5	696.4	682.0	665.7	661.1	667.5
70°	605.0	607.7	607.7	591.4	586.9	578.7	578.7	569.7	556.1	552.4	557.0
72.5°	492.7	490.9	490.9	477.3	473.7	465.5	464.6	461.9	449.2	445.6	450.1
75°	379.5	377.7	378.6	367.7	364.1	357.7	356.8	356.8	346.9	343.2	347.8
77.5°	274.4	276.2	275.3	267.2	263.5	260.8	263.5	263.5	254.5	250.9	255.4
80°	183.8	185.7	185.7	179.3	176.6	174.8	178.4	176.6	172.1	168.5	172.1
82.5°	111.4	111.4	111.4	109.6	106.0	106.0	108.7	108.7	104.1	101.4	104.1
85°	55.2	55.2	54.3	54.3	52.5	52.5	54.3	54.3	51.6	50.7	51.6
87.5°	19.0	18.1	18.1	18.1	17.2	18.1	18.1	18.1	17.2	17.2	17.2
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°	2726.0	2726.0	2726.0	2726.0	2726.0	2726.0	2726.0	2726.0
2.5°	2743.2	2743.2	2742.3	2742.3	2742.3	2741.4	2740.5	2739.6
5°	2783.1	2782.2	2780.3	2781.3	2780.3	2780.3	2779.4	2778.5
7.5°	2827.4	2828.3	2826.5	2828.3	2828.3	2828.3	2827.4	2826.5
10°	2866.4	2869.1	2870.0	2872.7	2873.6	2874.5	2873.6	2872.7
12.5°	2896.3	2900.8	2904.4	2908.9	2911.7	2912.6	2910.8	2909.9
15°	2913.5	2919.8	2926.2	2933.4	2937.9	2939.7	2938.8	2937.0
17.5°	2914.4	2921.6	2929.8	2936.1	2942.5	2947.0	2950.6	2951.5
20°	2894.5	2900.8	2908.0	2916.2	2926.2	2934.3	2942.5	2945.2
22.5°	2841.0	2856.4	2871.8	2880.0	2888.1	2893.6	2898.1	2904.4
25°	2666.2	2712.4	2762.2	2783.1	2779.4	2762.2	2759.5	2762.2
27.5°	2529.5	2534.9	2541.3	2565.7	2600.1	2631.8	2649.9	2653.6
30°	2407.2	2381.0	2361.0	2372.8	2418.1	2480.6	2536.7	2552.1
32.5°	2280.4	2246.0	2237.9	2246.0	2265.9	2317.6	2394.5	2429.9
35°	2145.5	2131.0	2137.3	2144.6	2149.1	2177.2	2234.2	2270.5
37.5°	2026.8	2025.0	2037.7	2046.8	2046.8	2057.6	2086.6	2087.5
40°	1915.5	1924.5	1934.5	1947.1	1949.9	1954.4	1947.1	1934.5
42.5°	1817.6	1827.6	1833.9	1846.6	1853.9	1843.9	1820.4	1822.2
45°	1715.3	1734.3	1737.9	1751.5	1757.0	1730.7	1712.6	1717.1
47.5°	1600.3	1632.0	1639.2	1653.7	1649.2	1623.8	1611.2	1605.7
50°	1481.6	1523.3	1529.6	1539.6	1534.2	1521.5	1505.2	1492.5
52.5°	1374.8	1408.3	1412.8	1416.4	1421.0	1423.7	1402.9	1382.9
55°	1260.7	1286.9	1293.3	1289.6	1302.3	1316.8	1296.0	1276.1
57.5°	1150.2	1168.3	1172.8	1166.5	1184.6	1203.6	1188.2	1172.8
60°	1032.4	1050.6	1051.5	1048.7	1066.9	1083.2	1076.8	1066.9
62.5°	916.5	932.8	930.1	932.8	947.3	968.1	963.6	957.3
65°	798.8	814.2	812.4	817.8	828.7	847.7	847.7	842.3
67.5°	686.5	695.5	694.6	701.9	710.0	728.1	730.0	724.5
70°	574.2	578.7	577.8	586.0	592.3	611.3	611.3	605.0
72.5°	465.5	468.2	464.6	475.5	478.2	494.5	494.5	487.2
75°	361.4	360.4	356.8	363.2	371.3	383.1	380.4	374.0
77.5°	264.4	261.7	258.1	265.4	269.9	278.9	276.2	269.9
80°	179.3	176.6	172.1	178.4	182.0	187.5	184.8	180.2
82.5°	109.6	106.9	103.2	107.8	109.6	113.2	111.4	107.8
85°	54.3	52.5	50.7	51.6	54.3	55.2	54.3	53.4
87.5°	18.1	17.2	16.3	17.2	17.2	18.1	18.1	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)