

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: P130699

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130699
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-CMS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND MINI SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7703.7 lumens
Efficiency: N/A
Efficacy: 100.0 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

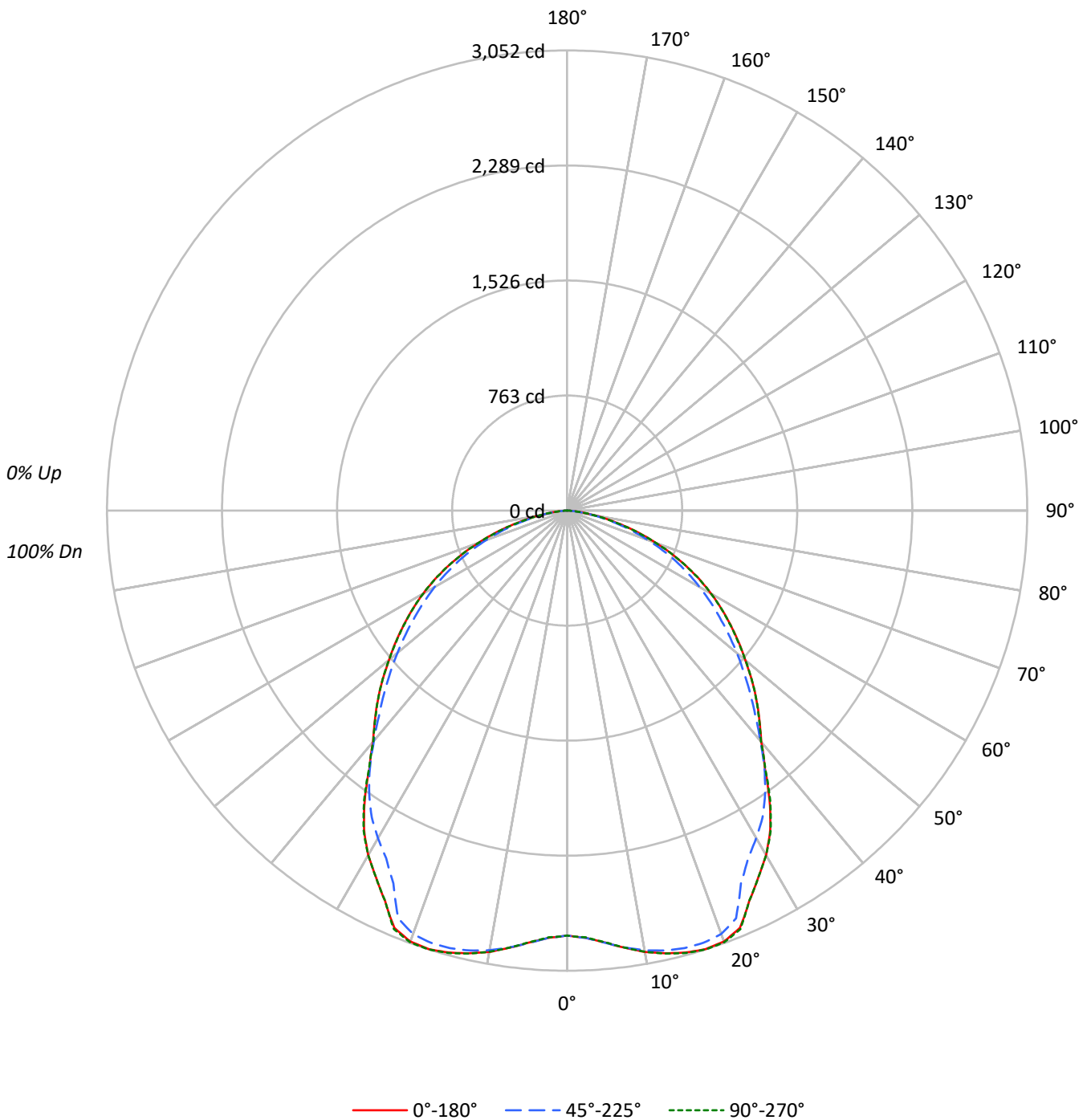
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	30529	30529	30529
5°	31257	31277	31236
10°	32679	32555	32668
15°	34021	33686	34052
20°	35047	34442	35101
25°	34155	32589	34133
30°	32991	31363	33004
35°	30943	30274	31042
40°	28321	28188	28282
45°	27196	26293	27196
50°	25972	24742	26004
55°	24987	23306	24915
60°	23897	21989	23897
65°	22320	20398	22320
70°	19810	18091	19810
75°	16422	14853	16183
80°	11855	10863	11624
85°	7094	6523	6871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.5	3.6
10°-20°	854.7	11.1
20°-30°	1290.8	16.8
30°-40°	1409.2	18.3
40°-50°	1375.3	17.9
50°-60°	1181.5	15.3
60°-70°	835.2	10.8
70°-80°	404.0	5.2
80°-90°	75.4	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°	2423.0	31.5
0°-40°	3832.2	49.7
0°-60°	6389.1	82.9
0°-90°	7703.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7703.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2819	2819	2819	2819	2819	
5°	2876	2877	2877	2876	2874	278
15°	3035	3029	3005	3030	3038	858
25°	2859	2867	2728	2868	2857	1318
35°	2341	2219	2290	2214	2348	1456
45°	1776	1810	1717	1804	1776	1369
55°	1324	1339	1234	1336	1320	1184
65°	871	843	796	843	871	859
75°	392	373	355	372	387	420
85°	57	54	52	53	55	78
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°	2819.3	2819.3	2819.3	2819.3	2819.3	2819.3	2819.3	2819.3	2819.3	2819.3	2819.3
2.5°	2836.2	2835.2	2834.3	2835.2	2837.1	2837.1	2837.1	2836.2	2836.2	2837.1	2836.2
5°	2875.5	2873.6	2874.6	2873.6	2877.4	2876.4	2876.4	2877.4	2877.4	2877.4	2876.4
7.5°	2924.2	2922.3	2922.3	2922.3	2923.3	2923.3	2923.3	2923.3	2922.3	2922.3	2922.3
10°	2972.0	2969.2	2970.1	2969.2	2970.1	2968.2	2966.4	2964.5	2962.6	2960.7	2961.7
12.5°	3007.6	3006.6	3008.5	3008.5	3006.6	3003.8	2999.1	2994.5	2990.7	2988.8	2990.7
15°	3034.7	3036.6	3037.5	3036.6	3032.9	3025.4	3019.7	3012.3	3007.6	3004.8	3007.6
17.5°	3049.7	3049.7	3047.8	3042.2	3035.7	3029.1	3020.7	3013.2	3008.5	3005.7	3009.4
20°	3041.3	3040.4	3033.8	3025.4	3015.1	3006.6	2999.1	2992.6	2989.8	2988.8	2990.7
22.5°	2995.4	2997.3	2993.5	2987.9	2980.4	2968.2	2954.2	2941.1	2930.8	2927.0	2930.8
25°	2858.6	2857.7	2864.3	2875.5	2883.0	2850.2	2806.2	2764.0	2735.0	2727.5	2735.0
27.5°	2744.4	2743.4	2728.5	2695.7	2657.3	2627.3	2618.9	2614.2	2603.9	2599.2	2605.7
30°	2638.5	2629.2	2575.8	2507.4	2458.7	2446.5	2465.3	2490.5	2504.6	2508.3	2501.8
32.5°	2508.3	2483.0	2410.9	2351.0	2329.4	2320.1	2326.6	2359.4	2393.1	2411.9	2391.3
35°	2340.7	2319.1	2262.0	2229.2	2224.5	2214.2	2205.8	2225.5	2266.7	2290.1	2262.0
37.5°	2155.2	2165.5	2141.2	2124.3	2124.3	2114.0	2097.2	2103.7	2127.1	2149.6	2125.3
40°	2003.5	2022.2	2027.8	2023.2	2021.3	2008.2	1992.2	1988.5	1989.4	1994.1	1986.6
42.5°	1887.3	1890.2	1915.4	1923.9	1916.4	1902.3	1893.0	1887.3	1860.2	1848.0	1863.9
45°	1775.9	1777.8	1798.4	1822.7	1818.0	1803.0	1795.6	1777.8	1730.0	1716.9	1733.7
47.5°	1659.7	1670.0	1685.0	1710.3	1715.0	1700.0	1689.7	1658.8	1601.7	1590.4	1602.6
50°	1541.7	1561.4	1579.2	1591.4	1597.9	1584.8	1573.6	1537.0	1481.8	1468.7	1480.8
52.5°	1434.0	1451.8	1475.2	1471.5	1468.7	1465.9	1458.4	1420.9	1368.4	1350.6	1367.5
55°	1323.5	1341.3	1364.7	1348.8	1336.6	1341.3	1332.8	1301.9	1257.0	1234.5	1257.0
57.5°	1213.9	1227.9	1246.7	1227.0	1209.2	1214.8	1209.2	1187.7	1145.5	1124.0	1145.5
60°	1103.4	1111.8	1124.9	1104.3	1085.6	1089.3	1087.4	1065.0	1032.2	1015.3	1032.2
62.5°	990.0	994.7	1001.3	981.6	965.7	964.7	965.7	943.2	917.9	906.7	918.8
65°	871.1	873.0	876.7	857.0	845.8	841.1	843.0	822.4	803.6	796.1	804.6
67.5°	749.3	751.2	752.1	733.4	725.9	719.3	720.3	705.3	688.4	683.8	690.3
70°	625.7	628.5	628.5	611.6	606.9	598.5	598.5	589.2	575.1	571.4	576.0
72.5°	509.5	507.7	507.7	493.6	489.9	481.4	480.5	477.7	464.6	460.8	465.5
75°	392.5	390.6	391.5	380.3	376.5	370.0	369.0	369.0	358.7	355.0	359.7
77.5°	283.8	285.7	284.7	276.3	272.6	269.8	272.6	272.6	263.2	259.5	264.1
80°	190.1	192.0	192.0	185.5	182.6	180.8	184.5	182.6	178.0	174.2	178.0
82.5°	115.2	115.2	115.2	113.3	109.6	109.6	112.4	112.4	107.7	104.9	107.7
85°	57.1	57.1	56.2	56.2	54.3	54.3	56.2	56.2	53.4	52.5	53.4
87.5°	19.7	18.7	18.7	18.7	17.8	18.7	18.7	18.7	17.8	17.8	17.8
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°	2819.3	2819.3	2819.3	2819.3	2819.3	2819.3	2819.3	2819.3
2.5°	2837.1	2837.1	2836.2	2836.2	2836.2	2835.2	2834.3	2833.4
5°	2878.3	2877.4	2875.5	2876.4	2875.5	2875.5	2874.6	2873.6
7.5°	2924.2	2925.1	2923.3	2925.1	2925.1	2925.1	2924.2	2923.3
10°	2964.5	2967.3	2968.2	2971.0	2972.0	2972.9	2972.0	2971.0
12.5°	2995.4	3000.1	3003.8	3008.5	3011.3	3012.3	3010.4	3009.4
15°	3013.2	3019.7	3026.3	3033.8	3038.5	3040.4	3039.4	3037.5
17.5°	3014.1	3021.6	3030.1	3036.6	3043.2	3047.8	3051.6	3052.5
20°	2993.5	3000.1	3007.6	3016.0	3026.3	3034.7	3043.2	3046.0
22.5°	2938.3	2954.2	2970.1	2978.5	2987.0	2992.6	2997.3	3003.8
25°	2757.5	2805.3	2856.8	2878.3	2874.6	2856.8	2854.0	2856.8
27.5°	2616.1	2621.7	2628.2	2653.5	2689.1	2721.9	2740.6	2744.4
30°	2489.6	2462.4	2441.8	2454.0	2500.8	2565.5	2623.5	2639.5
32.5°	2358.5	2322.9	2314.5	2322.9	2343.5	2396.9	2476.5	2513.0
35°	2218.9	2203.9	2210.5	2218.0	2222.7	2251.7	2310.7	2348.2
37.5°	2096.2	2094.3	2107.5	2116.8	2116.8	2128.1	2158.0	2159.0
40°	1981.0	1990.4	2000.7	2013.8	2016.6	2021.3	2013.8	2000.7
42.5°	1879.8	1890.2	1896.7	1909.8	1917.3	1907.0	1882.7	1884.5
45°	1774.0	1793.7	1797.4	1811.5	1817.1	1789.9	1771.2	1775.9
47.5°	1655.1	1687.8	1695.3	1710.3	1705.6	1679.4	1666.3	1660.7
50°	1532.4	1575.4	1582.0	1592.3	1586.7	1573.6	1556.7	1543.6
52.5°	1421.8	1456.5	1461.2	1464.9	1469.6	1472.4	1450.9	1430.3
55°	1303.8	1331.0	1337.5	1333.8	1346.9	1361.9	1340.3	1319.7
57.5°	1189.5	1208.3	1213.0	1206.4	1225.1	1244.8	1228.9	1213.0
60°	1067.8	1086.5	1087.4	1084.6	1103.4	1120.2	1113.7	1103.4
62.5°	947.9	964.7	961.9	964.7	979.7	1001.3	996.6	990.0
65°	826.1	842.0	840.2	845.8	857.0	876.7	876.7	871.1
67.5°	710.0	719.3	718.4	725.9	734.3	753.1	754.9	749.3
70°	593.8	598.5	597.6	606.0	612.6	632.2	632.2	625.7
72.5°	481.4	484.2	480.5	491.7	494.5	511.4	511.4	503.9
75°	373.7	372.8	369.0	375.6	384.0	396.2	393.4	386.8
77.5°	273.5	270.7	266.9	274.4	279.1	288.5	285.7	279.1
80°	185.5	182.6	178.0	184.5	188.3	193.9	191.1	186.4
82.5°	113.3	110.5	106.8	111.5	113.3	117.1	115.2	111.5
85°	56.2	54.3	52.5	53.4	56.2	57.1	56.2	55.3
87.5°	18.7	17.8	16.9	17.8	17.8	18.7	18.7	17.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)