

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: P130636

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130636
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
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

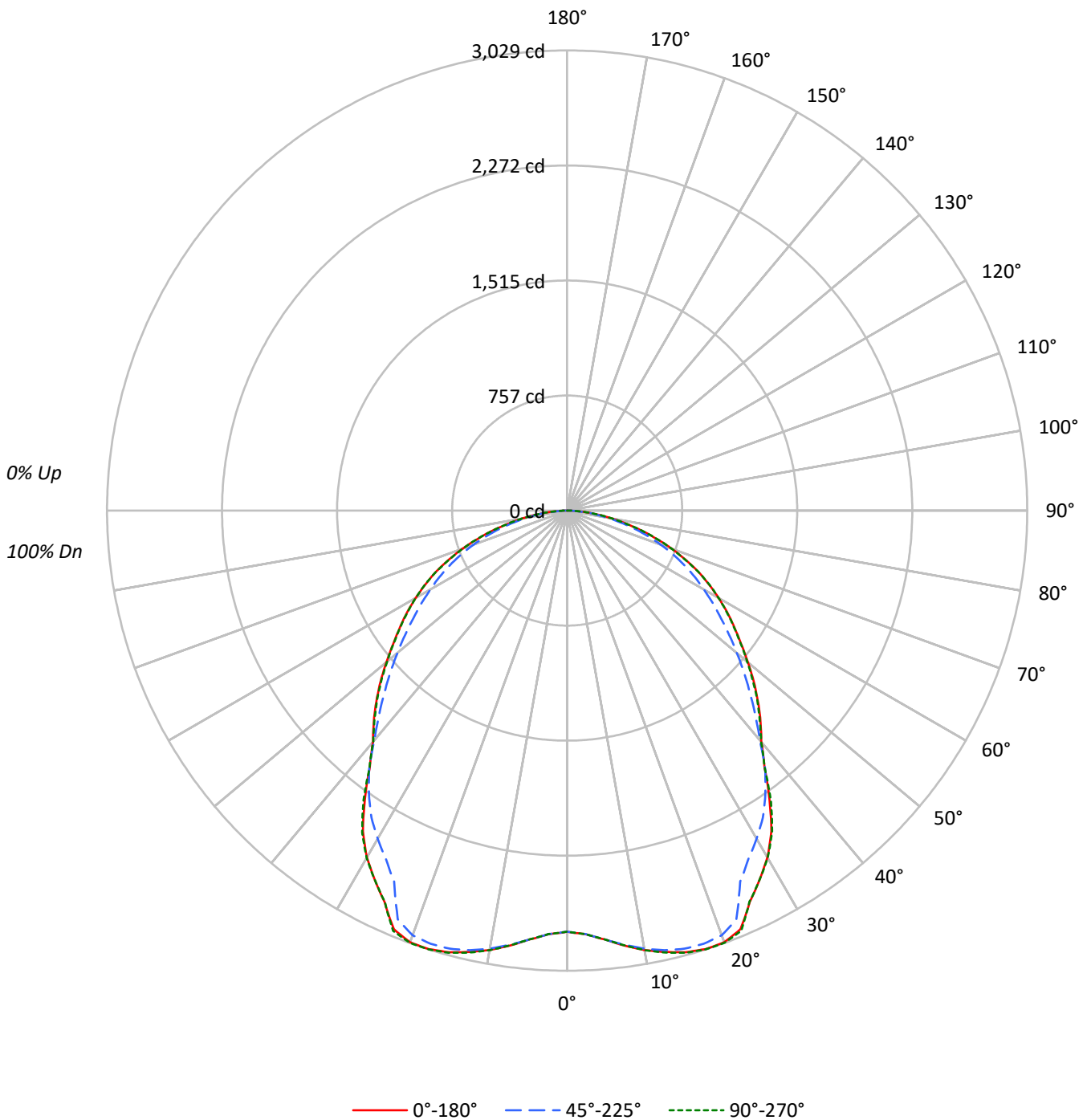
Lumens per Lamp: N/A
Luminaire Lumens: 7948.2 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.33
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

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°	30024	30024	30024
5°	30808	30808	30797
10°	32303	32195	32303
15°	33734	33471	33778
20°	34845	34282	34890
25°	33979	32193	33945
30°	32969	31186	33006
35°	30697	30075	30916
40°	28113	27906	28072
45°	27208	26086	27120
50°	26161	24581	26063
55°	25389	23340	25332
60°	24934	22519	24934
65°	24416	21836	24339
70°	23176	20763	23144
75°	21099	19095	21179
80°	18465	16762	18527
85°	16028	13965	16028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.8	3.4
10°-20°	848.6	10.7
20°-30°	1283.2	16.1
30°-40°	1400.8	17.6
40°-50°	1375.1	17.3
50°-60°	1203.8	15.1
60°-70°	904.6	11.4
70°-80°	517.2	6.5
80°-90°	141.0	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°	2405.6	30.3
0°-40°	3806.4	47.9
0°-60°	6385.3	80.3
0°-90°	7948.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7948.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2773	2773	2773	2773	2773	
5°	2834	2835	2834	2834	2833	274
15°	3009	3007	2986	3008	3013	851
25°	2844	2848	2694	2847	2841	1313
35°	2322	2208	2275	2199	2339	1448
45°	1777	1813	1703	1802	1771	1370
55°	1345	1366	1236	1361	1342	1206
65°	953	916	852	915	950	937
75°	504	485	456	485	506	535
85°	129	121	112	122	129	144
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°	2772.6	2772.6	2772.6	2772.6	2772.6	2772.6	2772.6	2772.6	2772.6	2772.6	2772.6
2.5°	2791.2	2789.2	2790.2	2789.2	2791.2	2791.2	2790.2	2791.2	2790.2	2790.2	2790.2
5°	2834.2	2832.2	2833.2	2831.2	2834.2	2835.1	2834.2	2835.1	2835.1	2834.2	2834.2
7.5°	2887.9	2884.0	2885.0	2883.0	2886.0	2886.0	2885.0	2885.0	2884.0	2883.0	2884.0
10°	2937.8	2935.8	2935.8	2934.8	2936.8	2935.8	2933.8	2932.9	2929.0	2928.0	2929.9
12.5°	2975.9	2977.8	2980.8	2980.8	2979.8	2978.8	2973.9	2971.0	2965.1	2964.1	2966.1
15°	3009.1	3010.1	3013.0	3012.0	3009.1	3004.2	2999.3	2993.5	2988.6	2985.6	2988.6
17.5°	3026.7	3026.7	3025.7	3022.8	3016.9	3011.1	3004.2	2998.3	2993.5	2989.6	2993.5
20°	3023.8	3023.8	3018.9	3013.0	3003.2	2994.4	2987.6	2981.7	2976.8	2974.9	2977.8
22.5°	2982.7	2985.6	2981.7	2980.8	2972.9	2961.2	2947.5	2932.9	2917.2	2912.3	2919.2
25°	2843.9	2842.0	2843.9	2862.5	2867.4	2828.3	2778.5	2732.5	2705.2	2694.4	2709.1
27.5°	2741.3	2739.4	2714.9	2675.8	2622.1	2596.7	2600.6	2596.7	2589.8	2585.0	2591.8
30°	2636.7	2622.1	2555.6	2484.3	2432.5	2424.7	2447.2	2475.5	2493.1	2494.1	2491.1
32.5°	2501.9	2472.6	2386.6	2331.8	2310.3	2306.4	2313.3	2342.6	2382.7	2398.3	2377.8
35°	2322.1	2305.4	2252.7	2217.5	2210.6	2205.8	2194.0	2208.7	2258.5	2275.1	2256.6
37.5°	2135.4	2151.0	2128.6	2115.8	2114.9	2105.1	2088.5	2090.4	2116.8	2140.3	2113.9
40°	1988.8	2004.4	2019.1	2018.1	2014.2	1999.6	1986.8	1980.0	1978.1	1974.1	1980.0
42.5°	1884.2	1878.4	1906.7	1922.3	1912.6	1902.8	1892.0	1887.2	1851.0	1834.4	1855.9
45°	1776.7	1774.8	1794.3	1827.5	1819.7	1806.0	1803.1	1783.6	1722.0	1703.4	1726.9
47.5°	1666.3	1674.1	1691.7	1719.1	1724.0	1712.2	1703.4	1663.4	1600.8	1578.3	1599.8
50°	1552.9	1570.5	1594.9	1605.7	1610.6	1603.7	1597.9	1546.1	1482.6	1459.1	1483.5
52.5°	1444.4	1468.9	1501.1	1492.3	1488.4	1491.4	1481.6	1434.7	1373.1	1344.8	1374.1
55°	1344.8	1368.2	1396.6	1379.0	1360.4	1371.1	1362.4	1325.2	1271.5	1236.3	1269.5
57.5°	1250.9	1265.6	1288.1	1264.6	1243.1	1255.8	1247.0	1217.7	1167.9	1137.6	1169.8
60°	1151.3	1163.0	1175.7	1153.2	1130.7	1137.6	1133.7	1107.3	1066.2	1039.8	1064.3
62.5°	1051.6	1057.4	1066.2	1041.8	1023.2	1023.2	1021.3	995.9	963.6	949.0	962.6
65°	952.9	951.9	954.8	930.4	916.7	914.8	910.8	887.4	862.0	852.2	863.0
67.5°	841.5	843.4	844.4	821.9	811.2	806.3	803.3	781.8	761.3	754.5	762.3
70°	732.0	733.0	733.0	712.4	704.6	696.8	693.9	677.3	660.7	655.8	662.6
72.5°	616.7	623.5	620.6	604.0	598.1	588.3	586.4	575.6	562.9	556.1	562.9
75°	504.3	514.1	511.1	496.5	489.6	479.9	480.8	475.0	461.3	456.4	463.2
77.5°	395.8	401.7	402.6	394.8	384.1	377.2	380.2	379.2	369.4	357.7	366.5
80°	296.1	303.0	303.9	297.1	288.3	282.4	286.3	286.3	278.5	268.8	276.6
82.5°	206.2	211.1	211.1	207.2	203.3	197.4	199.4	200.3	195.5	185.7	192.5
85°	129.0	130.0	128.0	125.1	122.2	120.2	120.2	122.2	118.3	112.4	117.3
87.5°	47.9	48.9	47.9	50.8	47.9	46.9	47.9	50.8	46.9	46.9	47.9
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°	2772.6	2772.6	2772.6	2772.6	2772.6	2772.6	2772.6	2772.6
2.5°	2790.2	2791.2	2791.2	2790.2	2790.2	2790.2	2789.2	2790.2
5°	2834.2	2835.1	2835.1	2833.2	2834.2	2833.2	2832.2	2833.2
7.5°	2885.0	2886.9	2886.0	2886.9	2887.9	2886.0	2886.0	2886.0
10°	2931.9	2934.8	2936.8	2938.7	2939.7	2937.8	2938.7	2937.8
12.5°	2970.0	2975.9	2979.8	2981.7	2983.7	2983.7	2981.7	2979.8
15°	2993.5	3000.3	3005.2	3011.1	3015.0	3015.9	3014.0	3013.0
17.5°	2999.3	3005.2	3012.0	3017.9	3023.8	3027.7	3029.6	3028.6
20°	2982.7	2987.6	2995.4	3004.2	3012.0	3019.8	3025.7	3027.7
22.5°	2934.8	2948.5	2963.2	2973.9	2980.8	2984.7	2987.6	2994.4
25°	2738.4	2774.5	2827.3	2867.4	2860.5	2842.0	2835.1	2841.0
27.5°	2598.6	2594.7	2588.9	2620.1	2669.0	2712.0	2732.5	2742.3
30°	2473.5	2444.2	2416.9	2427.6	2477.4	2551.7	2614.3	2639.7
32.5°	2342.6	2302.5	2298.6	2305.4	2328.9	2378.7	2463.8	2511.7
35°	2204.8	2183.3	2195.0	2203.8	2211.6	2237.0	2295.7	2338.7
37.5°	2081.6	2077.7	2093.4	2104.1	2108.0	2120.7	2143.2	2137.3
40°	1973.2	1976.1	1989.8	2001.5	2009.3	2010.3	1996.6	1985.9
42.5°	1875.4	1888.1	1888.1	1902.8	1916.5	1897.9	1869.6	1877.4
45°	1775.7	1796.3	1795.3	1808.0	1820.7	1788.5	1765.0	1770.9
47.5°	1658.5	1697.6	1703.4	1717.1	1717.1	1683.9	1665.3	1658.5
50°	1539.2	1590.1	1596.9	1604.7	1600.8	1588.1	1563.7	1547.1
52.5°	1428.8	1476.7	1483.5	1480.6	1488.4	1494.3	1461.1	1440.5
55°	1320.3	1357.5	1366.3	1356.5	1375.1	1391.7	1360.4	1341.8
57.5°	1212.8	1241.2	1249.0	1241.2	1261.7	1280.3	1259.7	1247.0
60°	1104.3	1129.8	1134.6	1127.8	1152.2	1168.8	1159.1	1151.3
62.5°	997.8	1015.4	1020.3	1023.2	1037.9	1057.4	1055.5	1054.5
65°	890.3	908.9	910.8	919.6	929.4	954.8	949.9	949.9
67.5°	785.7	798.5	801.4	815.1	819.0	843.4	840.5	836.6
70°	677.3	690.0	693.9	707.6	713.4	733.0	734.0	731.0
72.5°	577.6	582.5	586.4	599.1	604.0	622.5	622.5	618.6
75°	475.9	475.0	478.9	491.6	496.5	512.1	511.1	506.2
77.5°	380.2	375.3	378.2	387.0	392.9	404.6	400.7	396.8
80°	290.3	282.4	283.4	292.2	296.1	303.9	300.0	297.1
82.5°	205.2	198.4	196.4	203.3	209.1	210.1	209.1	207.2
85°	125.1	119.2	120.2	123.1	127.0	127.0	129.0	129.0
87.5°	48.9	45.9	45.9	48.9	48.9	49.8	48.9	46.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)