

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: P130681

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130681
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-DOS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND DIMMING OCCUPANCY SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7668.6 lumens
Efficiency: N/A
Efficacy: 99.6 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

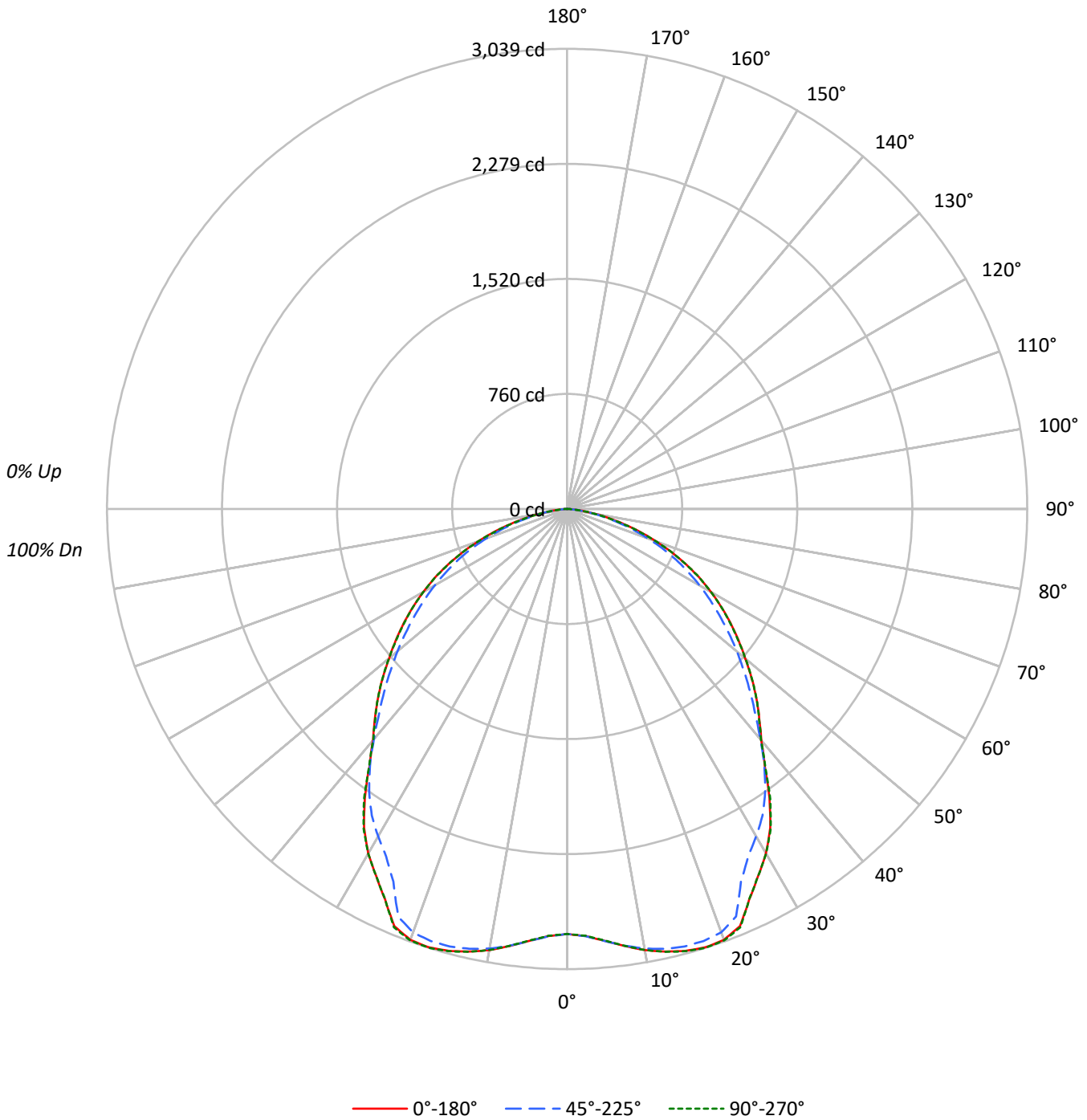
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	30391	30391	30391
5°	31114	31135	31094
10°	32530	32408	32520
15°	33866	33532	33898
20°	34887	34285	34941
25°	34000	32440	33978
30°	32841	31221	32853
35°	30801	30136	30900
40°	28193	28060	28153
45°	27072	26173	27072
50°	25854	24629	25886
55°	24873	23201	24802
60°	23786	21889	23786
65°	22218	20306	22218
70°	19718	18009	19718
75°	16346	14786	16112
80°	11805	10813	11568
85°	7070	6486	6833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.2	3.6
10°-20°	850.8	11.1
20°-30°	1284.9	16.8
30°-40°	1402.8	18.3
40°-50°	1369.1	17.9
50°-60°	1176.1	15.3
60°-70°	831.4	10.8
70°-80°	402.2	5.2
80°-90°	75.0	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°	2412.0	31.5
0°-40°	3814.8	49.7
0°-60°	6360.0	82.9
0°-90°	7668.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7668.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2806	2806	2806	2806	2806	
5°	2862	2864	2864	2863	2860	276
15°	3021	3015	2991	3016	3024	855
25°	2846	2854	2715	2854	2844	1312
35°	2330	2209	2280	2204	2338	1450
45°	1768	1802	1709	1796	1768	1363
55°	1318	1333	1229	1330	1314	1178
65°	867	840	792	839	867	855
75°	391	372	353	371	385	418
85°	57	54	52	53	55	78
90°	0	0	0	0	0	



TEST NUMBER: P130681

CATALOG NUMBER: TBLED-LD1-8-M-UNV-L835-CD1-CG-DOS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5
2.5°	2823.2	2822.3	2821.4	2822.3	2824.2	2824.2	2824.2	2823.2	2823.2	2824.2	2823.2
5°	2862.4	2860.5	2861.5	2860.5	2864.3	2863.3	2863.3	2864.3	2864.3	2864.3	2863.3
7.5°	2910.9	2909.0	2909.0	2909.0	2910.0	2910.0	2910.0	2910.0	2909.0	2909.0	2909.0
10°	2958.4	2955.6	2956.6	2955.6	2956.6	2954.7	2952.8	2951.0	2949.1	2947.3	2948.2
12.5°	2993.9	2992.9	2994.8	2994.8	2992.9	2990.1	2985.5	2980.8	2977.1	2975.2	2977.1
15°	3020.9	3022.8	3023.7	3022.8	3019.0	3011.6	3006.0	2998.5	2993.9	2991.1	2993.9
17.5°	3035.8	3035.8	3034.0	3028.4	3021.8	3015.3	3006.9	2999.5	2994.8	2992.0	2995.7
20°	3027.4	3026.5	3020.0	3011.6	3001.3	2992.9	2985.5	2979.0	2976.2	2975.2	2977.1
22.5°	2981.8	2983.6	2979.9	2974.3	2966.8	2954.7	2940.7	2927.7	2917.4	2913.7	2917.4
25°	2845.6	2844.7	2851.2	2862.4	2869.9	2837.2	2793.4	2751.5	2722.5	2715.1	2722.5
27.5°	2731.9	2730.9	2716.0	2683.4	2645.2	2615.3	2606.9	2602.3	2592.0	2587.4	2593.9
30°	2626.5	2617.2	2564.0	2496.0	2447.5	2435.4	2454.0	2479.2	2493.2	2496.9	2490.4
32.5°	2496.9	2471.7	2399.9	2340.3	2318.8	2309.5	2316.0	2348.7	2382.2	2400.9	2380.4
35°	2330.0	2308.6	2251.7	2219.1	2214.4	2204.1	2195.8	2215.3	2256.4	2279.7	2251.7
37.5°	2145.4	2155.7	2131.4	2114.6	2114.6	2104.4	2087.6	2094.1	2117.4	2139.8	2115.6
40°	1994.4	2013.0	2018.6	2013.9	2012.1	1999.0	1983.2	1979.4	1980.4	1985.0	1977.6
42.5°	1878.7	1881.5	1906.7	1915.1	1907.6	1893.7	1884.3	1878.7	1851.7	1839.6	1855.4
45°	1767.8	1769.7	1790.2	1814.4	1809.7	1794.8	1787.4	1769.7	1722.1	1709.1	1725.8
47.5°	1652.2	1662.4	1677.4	1702.5	1707.2	1692.3	1682.0	1651.2	1594.4	1583.2	1595.3
50°	1534.7	1554.3	1572.0	1584.1	1590.6	1577.6	1566.4	1530.0	1475.0	1462.0	1474.1
52.5°	1427.5	1445.2	1468.5	1464.8	1462.0	1459.2	1451.7	1414.4	1362.2	1344.5	1361.3
55°	1317.5	1335.2	1358.5	1342.6	1330.5	1335.2	1326.8	1296.0	1251.3	1228.9	1251.3
57.5°	1208.4	1222.3	1241.0	1221.4	1203.7	1209.3	1203.7	1182.3	1140.3	1118.9	1140.3
60°	1098.3	1106.7	1119.8	1099.3	1080.6	1084.4	1082.5	1060.1	1027.5	1010.7	1027.5
62.5°	985.5	990.2	996.7	977.1	961.3	960.4	961.3	938.9	913.7	902.5	914.7
65°	867.1	869.0	872.7	853.1	841.9	837.3	839.1	818.6	800.0	792.5	800.9
67.5°	745.9	747.8	748.7	730.1	722.6	716.1	717.0	702.1	685.3	680.6	687.2
70°	622.8	625.6	625.6	608.8	604.2	595.8	595.8	586.5	572.5	568.8	573.4
72.5°	507.2	505.3	505.3	491.4	487.6	479.2	478.3	475.5	462.5	458.7	463.4
75°	390.7	388.8	389.7	378.5	374.8	368.3	367.4	367.4	357.1	353.4	358.0
77.5°	282.5	284.4	283.4	275.1	271.3	268.5	271.3	271.3	262.0	258.3	262.9
80°	189.3	191.1	191.1	184.6	181.8	179.9	183.7	181.8	177.2	173.4	177.2
82.5°	114.7	114.7	114.7	112.8	109.1	109.1	111.9	111.9	107.2	104.4	107.2
85°	56.9	56.9	55.9	55.9	54.1	54.1	55.9	55.9	53.1	52.2	53.1
87.5°	19.6	18.6	18.6	18.6	17.7	18.6	18.6	18.6	17.7	17.7	17.7
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: P130681

CATALOG NUMBER: TBLED-LD1-8-M-UNV-L835-CD1-CG-DOS

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5
2.5°	2824.2	2824.2	2823.2	2823.2	2823.2	2822.3	2821.4	2820.4
5°	2865.2	2864.3	2862.4	2863.3	2862.4	2862.4	2861.5	2860.5
7.5°	2910.9	2911.8	2910.0	2911.8	2911.8	2911.8	2910.9	2910.0
10°	2951.0	2953.8	2954.7	2957.5	2958.4	2959.4	2958.4	2957.5
12.5°	2981.8	2986.4	2990.1	2994.8	2997.6	2998.5	2996.7	2995.7
15°	2999.5	3006.0	3012.5	3020.0	3024.6	3026.5	3025.6	3023.7
17.5°	3000.4	3007.9	3016.2	3022.8	3029.3	3034.0	3037.7	3038.6
20°	2979.9	2986.4	2993.9	3002.3	3012.5	3020.9	3029.3	3032.1
22.5°	2924.9	2940.7	2956.6	2965.0	2973.4	2979.0	2983.6	2990.1
25°	2744.9	2792.5	2843.8	2865.2	2861.5	2843.8	2841.0	2843.8
27.5°	2604.1	2609.7	2616.3	2641.4	2676.9	2709.5	2728.1	2731.9
30°	2478.3	2451.2	2430.7	2442.8	2489.5	2553.8	2611.6	2627.4
32.5°	2347.7	2312.3	2303.9	2312.3	2332.8	2386.0	2465.2	2501.6
35°	2208.8	2193.9	2200.4	2207.9	2212.5	2241.4	2300.2	2337.5
37.5°	2086.7	2084.8	2097.9	2107.2	2107.2	2118.4	2148.2	2149.1
40°	1972.0	1981.3	1991.6	2004.6	2007.4	2012.1	2004.6	1991.6
42.5°	1871.3	1881.5	1888.1	1901.1	1908.6	1898.3	1874.1	1875.9
45°	1765.9	1785.5	1789.2	1803.2	1808.8	1781.8	1763.1	1767.8
47.5°	1647.5	1680.1	1687.6	1702.5	1697.9	1671.8	1658.7	1653.1
50°	1525.4	1568.3	1574.8	1585.0	1579.5	1566.4	1549.6	1536.6
52.5°	1415.4	1449.9	1454.5	1458.2	1462.9	1465.7	1444.3	1423.7
55°	1297.9	1324.9	1331.4	1327.7	1340.8	1355.7	1334.2	1313.7
57.5°	1184.1	1202.8	1207.4	1200.9	1219.6	1239.1	1223.3	1207.4
60°	1062.9	1081.6	1082.5	1079.7	1098.3	1115.1	1108.6	1098.3
62.5°	943.6	960.4	957.6	960.4	975.3	996.7	992.1	985.5
65°	822.4	838.2	836.3	841.9	853.1	872.7	872.7	867.1
67.5°	706.7	716.1	715.1	722.6	731.0	749.6	751.5	745.9
70°	591.1	595.8	594.9	603.2	609.8	629.4	629.4	622.8
72.5°	479.2	482.0	478.3	489.5	492.3	509.1	509.1	501.6
75°	372.0	371.1	367.4	373.9	382.3	394.4	391.6	385.1
77.5°	272.3	269.5	265.7	273.2	277.8	287.2	284.4	277.8
80°	184.6	181.8	177.2	183.7	187.4	193.0	190.2	185.5
82.5°	112.8	110.0	106.3	111.0	112.8	116.5	114.7	111.0
85°	55.9	54.1	52.2	53.1	55.9	56.9	55.9	55.0
87.5°	18.6	17.7	16.8	17.7	17.7	18.6	18.6	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)