

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: P130654

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130654
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-DIMRF-LW
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH LUMAWATT WIRELESS SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7365.4 lumens
Efficiency: N/A
Efficacy: 95.7 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

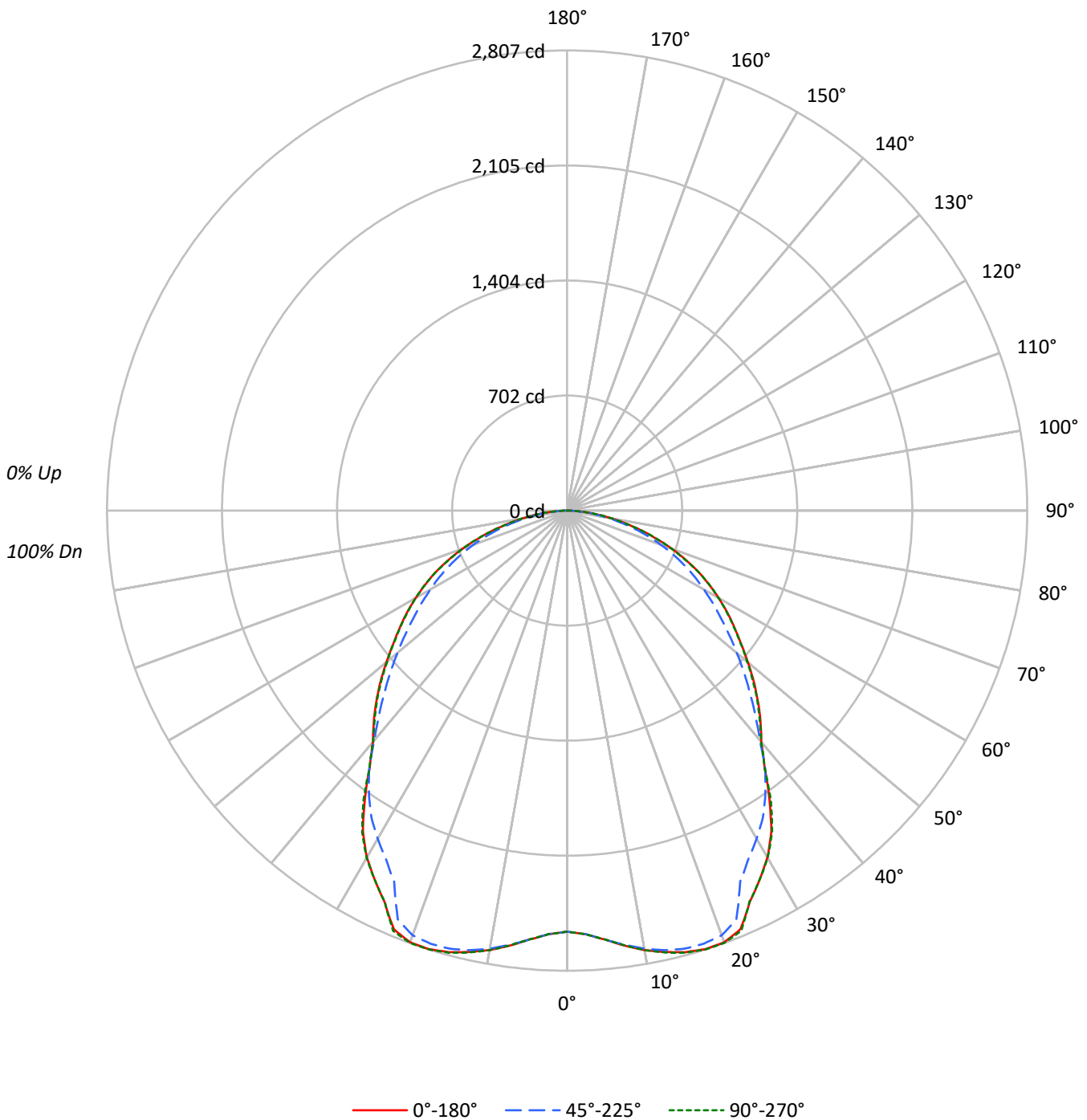
Input Watts (W): 77
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	27822	27822	27822
5°	28549	28549	28539
10°	29935	29835	29935
15°	31261	31017	31301
20°	32290	31768	32332
25°	31488	29833	31456
30°	30552	28899	30586
35°	28445	27870	28649
40°	26052	25860	26014
45°	25215	24173	25130
50°	24244	22778	24151
55°	23527	21628	23474
60°	23104	20869	23104
65°	22625	20234	22556
70°	21476	19240	21447
75°	19551	17694	19627
80°	17112	15534	17168
85°	14847	12934	14847



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.7	3.4
10°-20°	786.4	10.7
20°-30°	1189.2	16.1
30°-40°	1298.1	17.6
40°-50°	1274.3	17.3
50°-60°	1115.6	15.1
60°-70°	838.3	11.4
70°-80°	479.3	6.5
80°-90°	130.7	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°	2229.2	30.3
0°-40°	3527.3	47.9
0°-60°	5917.2	80.3
0°-90°	7365.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7365.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2569	2569	2569	2569	2569	
5°	2626	2627	2626	2626	2626	254
15°	2788	2786	2767	2788	2792	789
25°	2635	2639	2497	2639	2633	1217
35°	2152	2046	2108	2038	2167	1342
45°	1646	1680	1578	1670	1641	1269
55°	1246	1266	1146	1262	1243	1118
65°	883	849	790	848	880	869
75°	467	449	423	450	469	496
85°	120	112	104	113	120	134
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°	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3
2.5°	2586.5	2584.7	2585.6	2584.7	2586.5	2586.5	2585.6	2586.5	2585.6	2585.6	2585.6
5°	2626.4	2624.6	2625.5	2623.7	2626.4	2627.3	2626.4	2627.3	2627.3	2626.4	2626.4
7.5°	2676.2	2672.6	2673.5	2671.7	2674.4	2674.4	2673.5	2673.5	2672.6	2671.7	2672.6
10°	2722.4	2720.6	2720.6	2719.6	2721.5	2720.6	2718.7	2717.8	2714.2	2713.3	2715.1
12.5°	2757.7	2759.5	2762.2	2762.2	2761.3	2760.4	2755.9	2753.2	2747.7	2746.8	2748.6
15°	2788.5	2789.4	2792.1	2791.2	2788.5	2784.0	2779.4	2774.0	2769.5	2766.7	2769.5
17.5°	2804.8	2804.8	2803.9	2801.2	2795.7	2790.3	2784.0	2778.5	2774.0	2770.4	2774.0
20°	2802.1	2802.1	2797.5	2792.1	2783.0	2774.9	2768.6	2763.1	2758.6	2756.8	2759.5
22.5°	2764.0	2766.7	2763.1	2762.2	2755.0	2744.1	2731.4	2717.8	2703.3	2698.8	2705.2
25°	2635.4	2633.6	2635.4	2652.6	2657.2	2620.9	2574.7	2532.2	2506.8	2496.9	2510.4
27.5°	2540.3	2538.5	2515.9	2479.7	2429.8	2406.3	2409.9	2406.3	2400.0	2395.4	2401.8
30°	2443.4	2429.8	2368.3	2302.1	2254.1	2246.9	2267.7	2294.0	2310.3	2311.2	2308.5
32.5°	2318.4	2291.3	2211.6	2160.9	2140.9	2137.3	2143.7	2170.8	2208.0	2222.5	2203.4
35°	2151.8	2136.4	2087.5	2054.9	2048.6	2044.0	2033.2	2046.8	2092.9	2108.3	2091.1
37.5°	1978.8	1993.3	1972.5	1960.7	1959.8	1950.8	1935.4	1937.2	1961.6	1983.4	1958.9
40°	1843.0	1857.5	1871.1	1870.2	1866.5	1852.9	1841.2	1834.8	1833.0	1829.4	1834.8
42.5°	1746.1	1740.6	1766.9	1781.4	1772.3	1763.3	1753.3	1748.8	1715.3	1699.9	1719.8
45°	1646.5	1644.6	1662.8	1693.6	1686.3	1673.6	1670.9	1652.8	1595.7	1578.5	1600.3
47.5°	1544.1	1551.4	1567.7	1593.0	1597.6	1586.7	1578.5	1541.4	1483.4	1462.6	1482.5
50°	1439.1	1455.4	1478.0	1488.0	1492.5	1486.2	1480.7	1432.7	1373.9	1352.1	1374.8
52.5°	1338.5	1361.2	1391.1	1382.9	1379.3	1382.0	1373.0	1329.5	1272.4	1246.2	1273.3
55°	1246.2	1267.9	1294.2	1277.9	1260.7	1270.6	1262.5	1228.1	1178.2	1145.6	1176.4
57.5°	1159.2	1172.8	1193.6	1171.9	1152.0	1163.8	1155.6	1128.4	1082.2	1054.2	1084.1
60°	1066.8	1077.7	1089.5	1068.7	1047.8	1054.2	1050.5	1026.1	988.1	963.6	986.2
62.5°	974.5	979.9	988.1	965.4	948.2	948.2	946.4	922.9	893.0	879.4	892.1
65°	883.0	882.1	884.8	862.2	849.5	847.7	844.1	822.3	798.8	789.7	799.7
67.5°	779.8	781.6	782.5	761.6	751.7	747.2	744.4	724.5	705.5	699.2	706.4
70°	678.3	679.2	679.2	660.2	653.0	645.7	643.0	627.6	612.2	607.7	614.0
72.5°	571.5	577.8	575.1	559.7	554.3	545.2	543.4	533.4	521.7	515.3	521.7
75°	467.3	476.4	473.7	460.1	453.7	444.7	445.6	440.1	427.5	422.9	429.3
77.5°	366.8	372.2	373.1	365.9	355.9	349.6	352.3	351.4	342.3	331.5	339.6
80°	274.4	280.7	281.7	275.3	267.2	261.7	265.4	265.4	258.1	249.1	256.3
82.5°	191.1	195.6	195.6	192.0	188.4	182.9	184.8	185.7	181.1	172.1	178.4
85°	119.5	120.5	118.6	115.9	113.2	111.4	111.4	113.2	109.6	104.1	108.7
87.5°	44.4	45.3	44.4	47.1	44.4	43.5	44.4	47.1	43.5	43.5	44.4
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°	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3
2.5°	2585.6	2586.5	2586.5	2585.6	2585.6	2585.6	2584.7	2585.6
5°	2626.4	2627.3	2627.3	2625.5	2626.4	2625.5	2624.6	2625.5
7.5°	2673.5	2675.3	2674.4	2675.3	2676.2	2674.4	2674.4	2674.4
10°	2716.9	2719.6	2721.5	2723.3	2724.2	2722.4	2723.3	2722.4
12.5°	2752.3	2757.7	2761.3	2763.1	2764.9	2764.9	2763.1	2761.3
15°	2774.0	2780.3	2784.9	2790.3	2793.9	2794.8	2793.0	2792.1
17.5°	2779.4	2784.9	2791.2	2796.6	2802.1	2805.7	2807.5	2806.6
20°	2764.0	2768.6	2775.8	2784.0	2791.2	2798.4	2803.9	2805.7
22.5°	2719.6	2732.3	2745.9	2755.9	2762.2	2765.8	2768.6	2774.9
25°	2537.6	2571.1	2620.0	2657.2	2650.8	2633.6	2627.3	2632.7
27.5°	2408.1	2404.5	2399.1	2428.0	2473.3	2513.2	2532.2	2541.2
30°	2292.2	2265.0	2239.7	2249.6	2295.8	2364.6	2422.6	2446.1
32.5°	2170.8	2133.7	2130.1	2136.4	2158.1	2204.3	2283.1	2327.5
35°	2043.1	2023.2	2034.1	2042.2	2049.5	2073.0	2127.4	2167.2
37.5°	1929.0	1925.4	1939.9	1949.9	1953.5	1965.2	1986.1	1980.6
40°	1828.5	1831.2	1843.9	1854.8	1862.0	1862.9	1850.2	1840.3
42.5°	1737.9	1749.7	1749.7	1763.3	1776.0	1758.8	1732.5	1739.7
45°	1645.6	1664.6	1663.7	1675.4	1687.2	1657.3	1635.6	1641.0
47.5°	1536.9	1573.1	1578.5	1591.2	1591.2	1560.4	1543.2	1536.9
50°	1426.4	1473.5	1479.8	1487.1	1483.4	1471.7	1449.0	1433.6
52.5°	1324.1	1368.4	1374.8	1372.1	1379.3	1384.7	1353.9	1334.9
55°	1223.5	1257.9	1266.1	1257.0	1274.2	1289.6	1260.7	1243.4
57.5°	1123.9	1150.2	1157.4	1150.2	1169.2	1186.4	1167.4	1155.6
60°	1023.4	1046.9	1051.5	1045.1	1067.8	1083.2	1074.1	1066.8
62.5°	924.7	941.0	945.5	948.2	961.8	979.9	978.1	977.2
65°	825.0	842.2	844.1	852.2	861.3	884.8	880.3	880.3
67.5°	728.1	739.9	742.6	755.3	758.9	781.6	778.9	775.2
70°	627.6	639.4	643.0	655.7	661.1	679.2	680.1	677.4
72.5°	535.2	539.8	543.4	555.2	559.7	576.9	576.9	573.3
75°	441.0	440.1	443.8	455.5	460.1	474.6	473.7	469.1
77.5°	352.3	347.8	350.5	358.6	364.1	374.9	371.3	367.7
80°	269.0	261.7	262.6	270.8	274.4	281.7	278.0	275.3
82.5°	190.2	183.8	182.0	188.4	193.8	194.7	193.8	192.0
85°	115.9	110.5	111.4	114.1	117.7	117.7	119.5	119.5
87.5°	45.3	42.6	42.6	45.3	45.3	46.2	45.3	43.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)