

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: P130671

Luminaire Tested: **TBLED-LD1-6-M-UNV-L850-CD1-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130671
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-LD1-6-M-UNV-L850-CD1-CG
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS.
Light Source: (160) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6493.0 lumens
Efficiency: N/A
Efficacy: 127.3 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

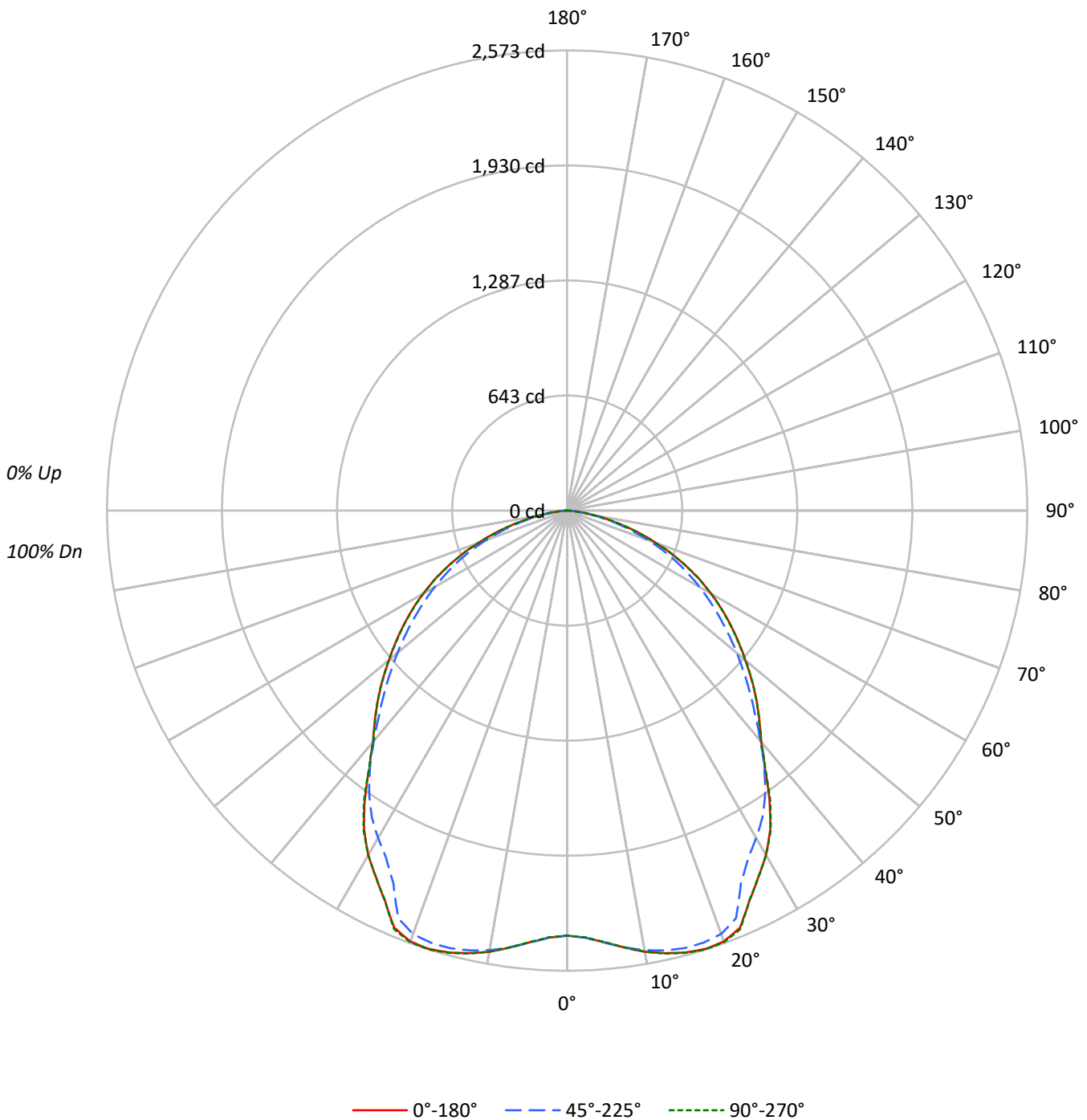
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25732	25732	25732
5°	26345	26362	26327
10°	27543	27440	27534
15°	28675	28392	28702
20°	29540	29029	29585
25°	28788	27468	28769
30°	27807	26436	27817
35°	26079	25516	26164
40°	23870	23758	23837
45°	22922	22161	22922
50°	21890	20854	21917
55°	21060	19644	20999
60°	20141	18534	20141
65°	18812	17193	18812
70°	16698	15248	16698
75°	13840	12518	13639
80°	9996	9154	9797
85°	5989	5492	5790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	233.9	3.6
10°-20°	720.4	11.1
20°-30°	1087.9	16.8
30°-40°	1187.8	18.3
40°-50°	1159.2	17.9
50°-60°	995.8	15.3
60°-70°	703.9	10.8
70°-80°	340.5	5.2
80°-90°	63.5	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°	2042.2	31.5
0°-40°	3230.0	49.7
0°-60°	5385.0	82.9
0°-90°	6493.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6493.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2376	2376	2376	2376	2376	
5°	2424	2425	2425	2424	2422	234
15°	2558	2553	2533	2554	2560	724
25°	2409	2416	2299	2417	2408	1111
35°	1973	1871	1930	1866	1979	1228
45°	1497	1526	1447	1521	1497	1154
55°	1116	1129	1040	1126	1112	998
65°	734	711	671	710	734	724
75°	331	315	299	314	326	354
85°	48	46	44	45	47	66
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°	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3
2.5°	2390.5	2389.7	2388.9	2389.7	2391.3	2391.3	2391.3	2390.5	2390.5	2391.3	2390.5
5°	2423.6	2422.0	2422.8	2422.0	2425.2	2424.4	2424.4	2425.2	2425.2	2425.2	2424.4
7.5°	2464.7	2463.1	2463.1	2463.1	2463.9	2463.9	2463.9	2463.9	2463.1	2463.1	2463.1
10°	2504.9	2502.6	2503.4	2502.6	2503.4	2501.8	2500.2	2498.6	2497.0	2495.5	2496.3
12.5°	2534.9	2534.1	2535.7	2535.7	2534.1	2531.8	2527.8	2523.9	2520.7	2519.1	2520.7
15°	2557.8	2559.4	2560.2	2559.4	2556.3	2549.9	2545.2	2538.9	2534.9	2532.6	2534.9
17.5°	2570.5	2570.5	2568.9	2564.1	2558.6	2553.1	2546.0	2539.7	2535.7	2533.4	2536.5
20°	2563.4	2562.6	2557.0	2549.9	2541.3	2534.1	2527.8	2522.3	2519.9	2519.1	2520.7
22.5°	2524.7	2526.3	2523.1	2518.4	2512.0	2501.8	2489.9	2478.9	2470.2	2467.0	2470.2
25°	2409.4	2408.6	2414.1	2423.6	2429.9	2402.3	2365.2	2329.7	2305.2	2298.9	2305.2
27.5°	2313.1	2312.3	2299.7	2272.0	2239.7	2214.4	2207.3	2203.4	2194.7	2190.7	2196.3
30°	2223.9	2216.0	2171.0	2113.4	2072.3	2062.1	2077.8	2099.2	2111.0	2114.2	2108.6
32.5°	2114.2	2092.8	2032.1	1981.5	1963.4	1955.5	1961.0	1988.6	2017.1	2032.8	2015.5
35°	1972.8	1954.7	1906.5	1878.9	1875.0	1866.3	1859.2	1875.7	1910.5	1930.2	1906.5
37.5°	1816.5	1825.2	1804.7	1790.5	1790.5	1781.8	1767.6	1773.1	1792.8	1811.8	1791.3
40°	1688.6	1704.4	1709.2	1705.2	1703.6	1692.6	1679.2	1676.0	1676.8	1680.7	1674.4
42.5°	1590.7	1593.1	1614.4	1621.5	1615.2	1603.4	1595.5	1590.7	1567.9	1557.6	1571.0
45°	1496.8	1498.4	1515.8	1536.3	1532.3	1519.7	1513.4	1498.4	1458.1	1447.1	1461.3
47.5°	1398.9	1407.6	1420.2	1441.5	1445.5	1432.9	1424.2	1398.1	1350.0	1340.5	1350.8
50°	1299.4	1316.0	1331.0	1341.3	1346.8	1335.8	1326.3	1295.5	1248.9	1237.9	1248.1
52.5°	1208.7	1223.7	1243.4	1240.2	1237.9	1235.5	1229.2	1197.6	1153.4	1138.4	1152.6
55°	1115.5	1130.5	1150.2	1136.8	1126.6	1130.5	1123.4	1097.3	1059.4	1040.5	1059.4
57.5°	1023.1	1035.0	1050.8	1034.2	1019.2	1023.9	1019.2	1001.0	965.5	947.3	965.5
60°	930.0	937.1	948.1	930.8	915.0	918.1	916.6	897.6	870.0	855.8	870.0
62.5°	834.5	838.4	843.9	827.3	813.9	813.1	813.9	795.0	773.7	764.2	774.5
65°	734.2	735.8	738.9	722.4	712.9	708.9	710.5	693.1	677.4	671.0	678.1
67.5°	631.6	633.1	633.9	618.1	611.8	606.3	607.1	594.5	580.2	576.3	581.8
70°	527.4	529.7	529.7	515.5	511.6	504.5	504.5	496.6	484.7	481.6	485.5
72.5°	429.5	427.9	427.9	416.0	412.9	405.8	405.0	402.6	391.6	388.4	392.4
75°	330.8	329.2	330.0	320.5	317.4	311.8	311.0	311.0	302.4	299.2	303.2
77.5°	239.2	240.8	240.0	232.9	229.7	227.4	229.7	229.7	221.8	218.7	222.6
80°	160.3	161.8	161.8	156.3	153.9	152.4	155.5	153.9	150.0	146.8	150.0
82.5°	97.1	97.1	97.1	95.5	92.4	92.4	94.7	94.7	90.8	88.4	90.8
85°	48.2	48.2	47.4	47.4	45.8	45.8	47.4	47.4	45.0	44.2	45.0
87.5°	16.6	15.8	15.8	15.8	15.0	15.8	15.8	15.8	15.0	15.0	15.0
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°	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3	2376.3
2.5°	2391.3	2391.3	2390.5	2390.5	2390.5	2389.7	2388.9	2388.1
5°	2426.0	2425.2	2423.6	2424.4	2423.6	2423.6	2422.8	2422.0
7.5°	2464.7	2465.5	2463.9	2465.5	2465.5	2465.5	2464.7	2463.9
10°	2498.6	2501.0	2501.8	2504.1	2504.9	2505.7	2504.9	2504.1
12.5°	2524.7	2528.6	2531.8	2535.7	2538.1	2538.9	2537.3	2536.5
15°	2539.7	2545.2	2550.7	2557.0	2561.0	2562.6	2561.8	2560.2
17.5°	2540.5	2546.8	2553.9	2559.4	2564.9	2568.9	2572.0	2572.8
20°	2523.1	2528.6	2534.9	2542.0	2550.7	2557.8	2564.9	2567.3
22.5°	2476.5	2489.9	2503.4	2510.5	2517.6	2522.3	2526.3	2531.8
25°	2324.2	2364.4	2407.8	2426.0	2422.8	2407.8	2405.5	2407.8
27.5°	2204.9	2209.7	2215.2	2236.5	2266.5	2294.2	2309.9	2313.1
30°	2098.4	2075.5	2058.1	2068.4	2107.8	2162.3	2211.3	2224.7
32.5°	1987.8	1957.8	1950.7	1957.8	1975.2	2020.2	2087.3	2118.1
35°	1870.2	1857.6	1863.1	1869.4	1873.4	1897.8	1947.6	1979.2
37.5°	1766.8	1765.2	1776.3	1784.2	1784.2	1793.6	1818.9	1819.7
40°	1669.7	1677.6	1686.3	1697.3	1699.7	1703.6	1697.3	1686.3
42.5°	1584.4	1593.1	1598.6	1609.7	1616.0	1607.3	1586.8	1588.4
45°	1495.2	1511.8	1515.0	1526.8	1531.5	1508.6	1492.9	1496.8
47.5°	1395.0	1422.6	1428.9	1441.5	1437.6	1415.5	1404.4	1399.7
50°	1291.5	1327.9	1333.4	1342.1	1337.3	1326.3	1312.1	1301.0
52.5°	1198.4	1227.6	1231.5	1234.7	1238.7	1241.0	1222.9	1205.5
55°	1098.9	1121.8	1127.3	1124.2	1135.2	1147.9	1129.7	1112.3
57.5°	1002.6	1018.4	1022.3	1016.8	1032.6	1049.2	1035.8	1022.3
60°	900.0	915.8	916.6	914.2	930.0	944.2	938.7	930.0
62.5°	798.9	813.1	810.8	813.1	825.8	843.9	840.0	834.5
65°	696.3	709.7	708.1	712.9	722.4	738.9	738.9	734.2
67.5°	598.4	606.3	605.5	611.8	618.9	634.7	636.3	631.6
70°	500.5	504.5	503.7	510.8	516.3	532.9	532.9	527.4
72.5°	405.8	408.1	405.0	414.5	416.8	431.0	431.0	424.7
75°	315.0	314.2	311.0	316.6	323.7	333.9	331.6	326.0
77.5°	230.5	228.2	225.0	231.3	235.3	243.2	240.8	235.3
80°	156.3	153.9	150.0	155.5	158.7	163.4	161.0	157.1
82.5°	95.5	93.2	90.0	93.9	95.5	98.7	97.1	93.9
85°	47.4	45.8	44.2	45.0	47.4	48.2	47.4	46.6
87.5°	15.8	15.0	14.2	15.0	15.0	15.8	15.8	15.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)