

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: P130689

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130689
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-DIMRF-LW
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS AND LUMAWATT WIRELESS SENSOR.
Light Source: (160) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6017.0 lumens
Efficiency: N/A
Efficacy: 118.0 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

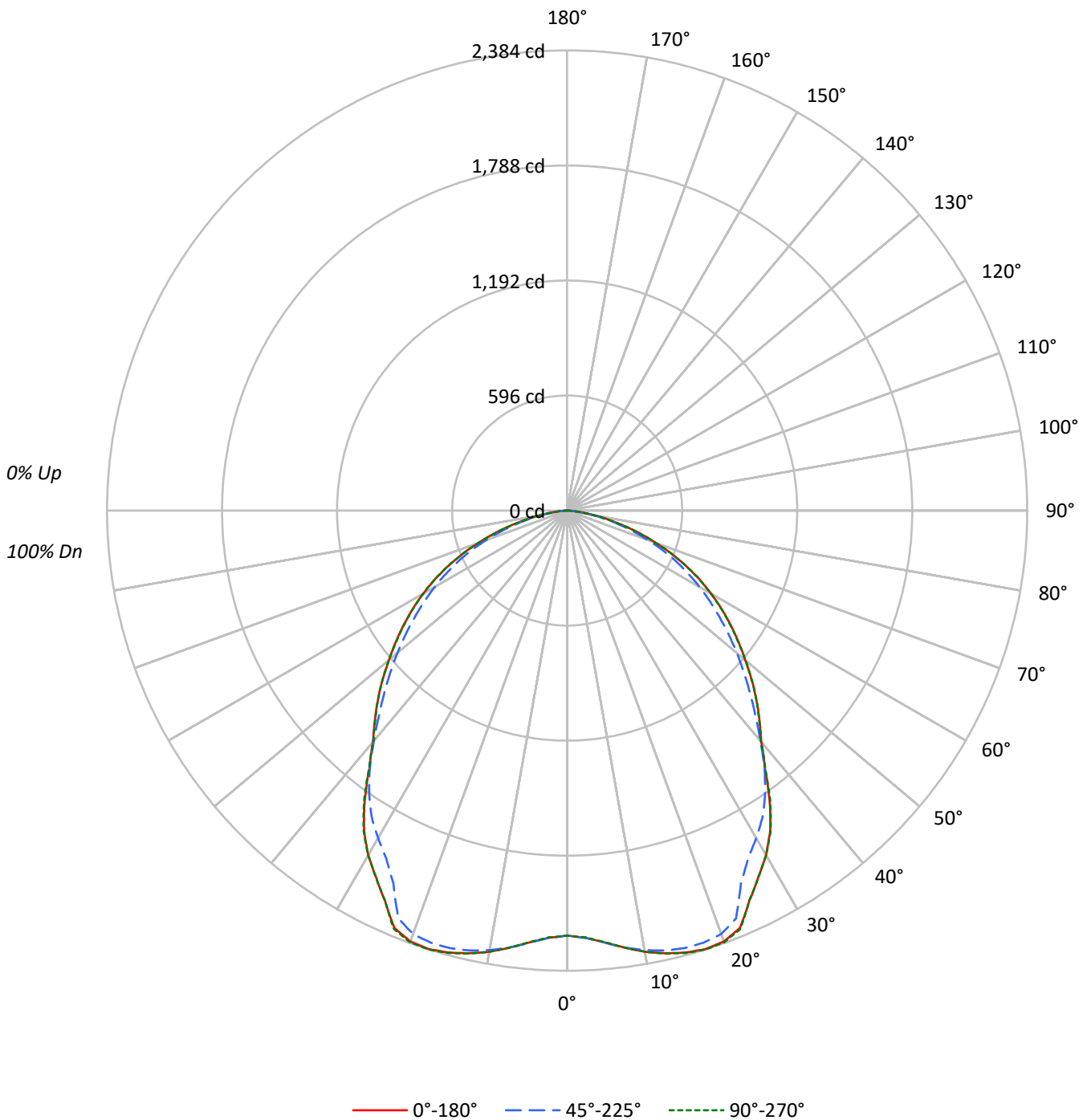
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P130689

CATALOG NUMBER: TBLED-LD1-6-M-UNV-L850-CD1-CG-DIMRF-LW

Luminous Intensity Polar Plot





TEST NUMBER: P130689

CATALOG NUMBER: TBLED-LD1-6-M-UNV-L850-CD1-CG-DIMRF-LW

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°	23845	23845	23845
5°	24413	24429	24398
10°	25524	25428	25516
15°	26573	26310	26597
20°	27373	26901	27416
25°	26678	25453	26660
30°	25768	24498	25778
35°	24168	23645	24246
40°	22120	22017	22089
45°	21242	20536	21242
50°	20286	19325	20310
55°	19515	18203	19461
60°	18664	17174	18664
65°	17434	15932	17434
70°	15473	14130	15473
75°	12824	11602	12639
80°	9260	8487	9080
85°	5541	5094	5367



TEST NUMBER: P130689

CATALOG NUMBER: TBLED-LD1-6-M-UNV-L850-CD1-CG-DIMRF-LW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.7	3.6
10°-20°	667.6	11.1
20°-30°	1008.2	16.8
30°-40°	1100.7	18.3
40°-50°	1074.2	17.9
50°-60°	922.8	15.3
60°-70°	652.3	10.8
70°-80°	315.6	5.2
80°-90°	58.9	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°	1892.5	31.5
0°-40°	2993.2	49.7
0°-60°	4990.2	82.9
0°-90°	6017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2246	2247	2247	2246	2244	217
15°	2370	2366	2347	2367	2372	671
25°	2233	2239	2130	2240	2231	1029
35°	1828	1733	1789	1729	1834	1138
45°	1387	1414	1341	1409	1387	1069
55°	1034	1046	964	1043	1031	924
65°	680	659	622	658	680	671
75°	306	292	277	291	302	328
85°	45	42	41	41	43	61
90°	0	0	0	0	0	



TEST NUMBER: P130689

CATALOG NUMBER: TBLED-LD1-6-M-UNV-L850-CD1-CG-DIMRF-LW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0
2.5°	2215.2	2214.5	2213.7	2214.5	2215.9	2215.9	2215.9	2215.2	2215.2	2215.9	2215.2
5°	2245.9	2244.5	2245.2	2244.5	2247.4	2246.7	2246.7	2247.4	2247.4	2247.4	2246.7
7.5°	2284.0	2282.5	2282.5	2282.5	2283.2	2283.2	2283.2	2283.2	2282.5	2282.5	2282.5
10°	2321.3	2319.1	2319.8	2319.1	2319.8	2318.4	2316.9	2315.4	2314.0	2312.5	2313.2
12.5°	2349.1	2348.3	2349.8	2349.8	2348.3	2346.2	2342.5	2338.8	2335.9	2334.4	2335.9
15°	2370.3	2371.8	2372.5	2371.8	2368.8	2363.0	2358.6	2352.7	2349.1	2346.9	2349.1
17.5°	2382.0	2382.0	2380.5	2376.1	2371.0	2365.9	2359.3	2353.5	2349.8	2347.6	2350.5
20°	2375.4	2374.7	2369.6	2363.0	2354.9	2348.3	2342.5	2337.4	2335.2	2334.4	2335.9
22.5°	2339.6	2341.0	2338.1	2333.7	2327.9	2318.4	2307.4	2297.1	2289.1	2286.2	2289.1
25°	2232.8	2232.0	2237.1	2245.9	2251.8	2226.2	2191.8	2158.9	2136.2	2130.3	2136.2
27.5°	2143.5	2142.8	2131.1	2105.5	2075.5	2052.1	2045.5	2041.8	2033.8	2030.1	2035.2
30°	2060.8	2053.5	2011.8	1958.4	1920.4	1910.9	1925.5	1945.3	1956.2	1959.2	1954.0
32.5°	1959.2	1939.4	1883.1	1836.2	1819.4	1812.1	1817.2	1842.8	1869.2	1883.8	1867.7
35°	1828.2	1811.4	1766.7	1741.1	1737.5	1729.4	1722.9	1738.2	1770.4	1788.7	1766.7
37.5°	1683.3	1691.4	1672.4	1659.2	1659.2	1651.2	1638.0	1643.1	1661.4	1679.0	1659.9
40°	1564.8	1579.5	1583.9	1580.2	1578.7	1568.5	1556.1	1553.1	1553.9	1557.5	1551.7
42.5°	1474.1	1476.3	1496.1	1502.7	1496.8	1485.8	1478.5	1474.1	1452.9	1443.4	1455.8
45°	1387.1	1388.5	1404.6	1423.6	1420.0	1408.3	1402.4	1388.5	1351.2	1341.0	1354.1
47.5°	1296.3	1304.4	1316.1	1335.9	1339.5	1327.8	1319.8	1295.6	1251.0	1242.2	1251.7
50°	1204.2	1219.5	1233.4	1242.9	1248.1	1237.8	1229.0	1200.5	1157.3	1147.1	1156.6
52.5°	1120.0	1133.9	1152.2	1149.3	1147.1	1144.9	1139.1	1109.8	1068.8	1054.9	1068.1
55°	1033.7	1047.6	1065.9	1053.5	1044.0	1047.6	1041.0	1016.9	981.8	964.2	981.8
57.5°	948.1	959.1	973.7	958.4	944.5	948.8	944.5	927.6	894.7	877.9	894.7
60°	861.8	868.4	878.6	862.5	847.9	850.8	849.4	831.8	806.2	793.0	806.2
62.5°	773.3	776.9	782.1	766.7	754.3	753.5	754.3	736.7	716.9	708.2	717.7
65°	680.4	681.8	684.8	669.4	660.6	657.0	658.4	642.3	627.7	621.8	628.4
67.5°	585.3	586.7	587.5	572.8	567.0	561.8	562.6	550.9	537.7	534.0	539.2
70°	488.7	490.9	490.9	477.7	474.1	467.5	467.5	460.2	449.2	446.3	449.9
72.5°	398.0	396.5	396.5	385.5	382.6	376.0	375.3	373.1	362.9	359.9	363.6
75°	306.5	305.1	305.8	297.0	294.1	289.0	288.2	288.2	280.2	277.3	280.9
77.5°	221.7	223.1	222.4	215.8	212.9	210.7	212.9	212.9	205.6	202.6	206.3
80°	148.5	150.0	150.0	144.9	142.7	141.2	144.1	142.7	139.0	136.1	139.0
82.5°	90.0	90.0	90.0	88.5	85.6	85.6	87.8	87.8	84.1	81.9	84.1
85°	44.6	44.6	43.9	43.9	42.4	42.4	43.9	43.9	41.7	41.0	41.7
87.5°	15.4	14.6	14.6	14.6	13.9	14.6	14.6	14.6	13.9	13.9	13.9
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: P130689

CATALOG NUMBER: TBLED-LD1-6-M-UNV-L850-CD1-CG-DIMRF-LW

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0	2202.0
2.5°	2215.9	2215.9	2215.2	2215.2	2215.2	2214.5	2213.7	2213.0
5°	2248.1	2247.4	2245.9	2246.7	2245.9	2245.9	2245.2	2244.5
7.5°	2284.0	2284.7	2283.2	2284.7	2284.7	2284.7	2284.0	2283.2
10°	2315.4	2317.6	2318.4	2320.5	2321.3	2322.0	2321.3	2320.5
12.5°	2339.6	2343.2	2346.2	2349.8	2352.0	2352.7	2351.3	2350.5
15°	2353.5	2358.6	2363.7	2369.6	2373.2	2374.7	2374.0	2372.5
17.5°	2354.2	2360.1	2366.6	2371.8	2376.9	2380.5	2383.5	2384.2
20°	2338.1	2343.2	2349.1	2355.7	2363.7	2370.3	2376.9	2379.1
22.5°	2294.9	2307.4	2319.8	2326.4	2333.0	2337.4	2341.0	2346.2
25°	2153.8	2191.1	2231.3	2248.1	2245.2	2231.3	2229.1	2231.3
27.5°	2043.3	2047.7	2052.8	2072.5	2100.3	2126.0	2140.6	2143.5
30°	1944.5	1923.3	1907.2	1916.7	1953.3	2003.8	2049.1	2061.6
32.5°	1842.1	1814.3	1807.7	1814.3	1830.4	1872.1	1934.3	1962.8
35°	1733.1	1721.4	1726.5	1732.4	1736.0	1758.7	1804.8	1834.1
37.5°	1637.3	1635.8	1646.0	1653.4	1653.4	1662.1	1685.5	1686.3
40°	1547.3	1554.6	1562.6	1572.9	1575.1	1578.7	1572.9	1562.6
42.5°	1468.3	1476.3	1481.4	1491.7	1497.5	1489.5	1470.5	1471.9
45°	1385.6	1401.0	1403.9	1414.9	1419.3	1398.0	1383.4	1387.1
47.5°	1292.7	1318.3	1324.1	1335.9	1332.2	1311.7	1301.5	1297.1
50°	1196.9	1230.5	1235.6	1243.7	1239.3	1229.0	1215.9	1205.6
52.5°	1110.5	1137.6	1141.3	1144.2	1147.8	1150.0	1133.2	1117.1
55°	1018.3	1039.6	1044.7	1041.8	1052.0	1063.7	1046.9	1030.8
57.5°	929.1	943.7	947.4	942.3	956.9	972.3	959.8	947.4
60°	834.0	848.6	849.4	847.2	861.8	875.0	869.8	861.8
62.5°	740.4	753.5	751.3	753.5	765.2	782.1	778.4	773.3
65°	645.2	657.7	656.2	660.6	669.4	684.8	684.8	680.4
67.5°	554.5	561.8	561.1	567.0	573.6	588.2	589.6	585.3
70°	463.8	467.5	466.7	473.3	478.4	493.8	493.8	488.7
72.5°	376.0	378.2	375.3	384.1	386.3	399.4	399.4	393.6
75°	291.9	291.2	288.2	293.4	299.9	309.5	307.3	302.1
77.5°	213.6	211.4	208.5	214.4	218.0	225.3	223.1	218.0
80°	144.9	142.7	139.0	144.1	147.0	151.4	149.2	145.6
82.5°	88.5	86.3	83.4	87.1	88.5	91.4	90.0	87.1
85°	43.9	42.4	41.0	41.7	43.9	44.6	43.9	43.2
87.5°	14.6	13.9	13.2	13.9	13.9	14.6	14.6	13.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)