

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: P130687

Luminaire Tested: **TBLED-LD1-6-M-UNV-L835-CD1-CG-DIMRF-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130687
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-L835-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) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5288.2 lumens
Efficiency: N/A
Efficacy: 103.7 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

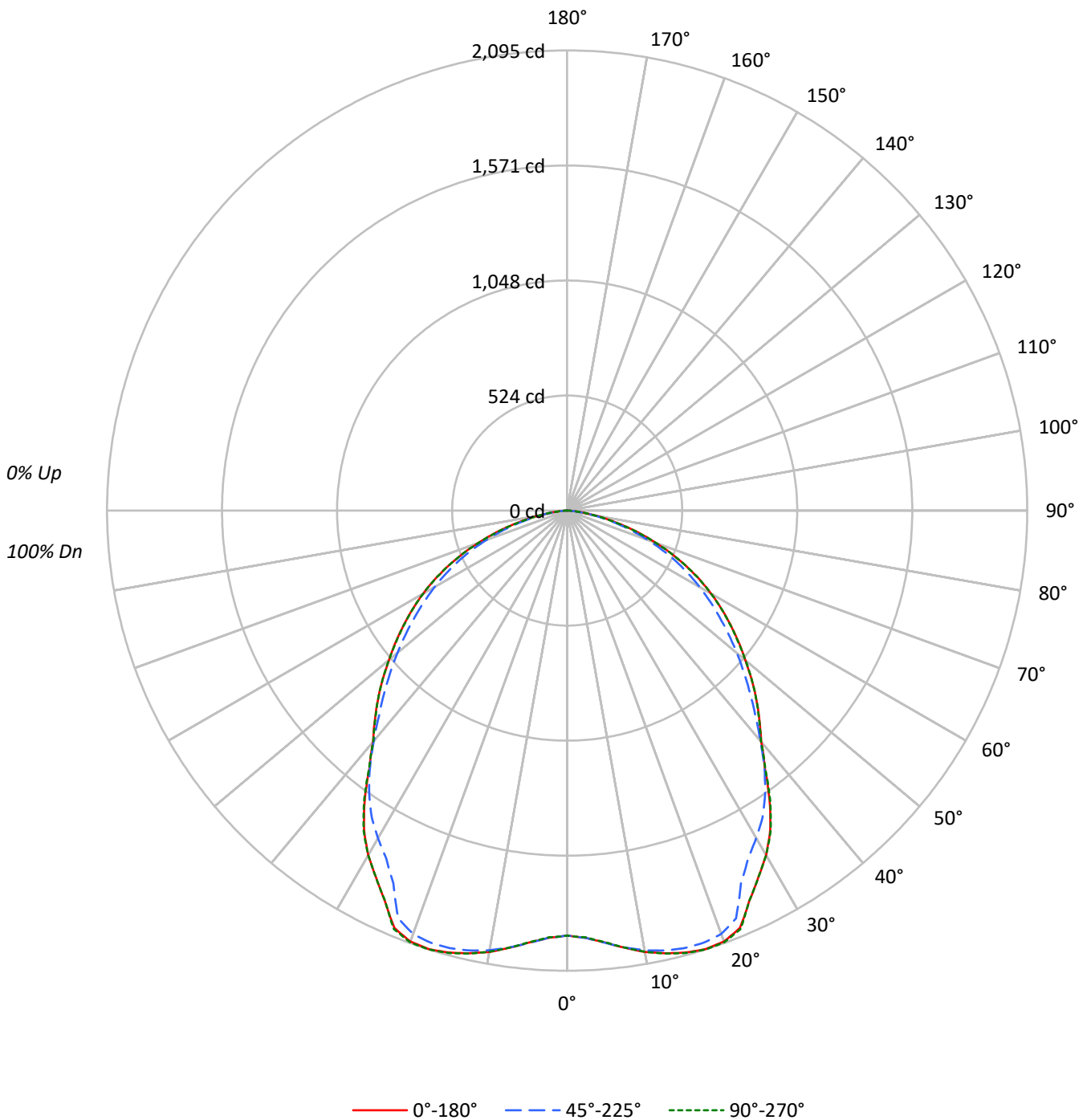
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	20957	20957	20957
5°	21456	21471	21442
10°	22432	22348	22426
15°	23354	23123	23375
20°	24058	23643	24095
25°	23446	22370	23430
30°	22647	21529	22656
35°	21240	20781	21308
40°	19441	19351	19414
45°	18668	18048	18668
50°	17829	16985	17850
55°	17152	15998	17103
60°	16403	15095	16403
65°	15320	14003	15320
70°	13598	12417	13598
75°	11271	10196	11108
80°	8138	7458	7976
85°	4870	4473	4709



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	3.6
10°-20°	586.7	11.1
20°-30°	886.1	16.8
30°-40°	967.3	18.3
40°-50°	944.1	17.9
50°-60°	811.0	15.3
60°-70°	573.3	10.8
70°-80°	277.4	5.2
80°-90°	51.8	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°	1663.3	31.5
0°-40°	2630.6	49.7
0°-60°	4385.7	82.9
0°-90°	5288.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5288.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1974	1975	1975	1974	1973	191
15°	2083	2079	2063	2080	2085	589
25°	1962	1968	1872	1968	1961	904
35°	1607	1523	1572	1520	1612	1000
45°	1219	1243	1178	1239	1219	940
55°	908	919	847	917	906	812
65°	598	579	546	579	598	590
75°	269	256	244	256	266	288
85°	39	37	36	36	38	54
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°	1935.3	1935.3	1935.3	1935.3	1935.3	1935.3	1935.3	1935.3	1935.3	1935.3	1935.3
2.5°	1946.9	1946.2	1945.6	1946.2	1947.5	1947.5	1947.5	1946.9	1946.9	1947.5	1946.9
5°	1973.9	1972.6	1973.2	1972.6	1975.2	1974.5	1974.5	1975.2	1975.2	1975.2	1974.5
7.5°	2007.3	2006.0	2006.0	2006.0	2006.7	2006.7	2006.7	2006.7	2006.0	2006.0	2006.0
10°	2040.1	2038.2	2038.8	2038.2	2038.8	2037.5	2036.2	2035.0	2033.7	2032.4	2033.0
12.5°	2064.5	2063.9	2065.2	2065.2	2063.9	2062.0	2058.7	2055.5	2053.0	2051.7	2053.0
15°	2083.2	2084.5	2085.1	2084.5	2081.9	2076.7	2072.9	2067.7	2064.5	2062.6	2064.5
17.5°	2093.5	2093.5	2092.2	2088.3	2083.8	2079.3	2073.5	2068.4	2065.2	2063.2	2065.8
20°	2087.7	2087.0	2082.5	2076.7	2069.7	2063.9	2058.7	2054.2	2052.3	2051.7	2053.0
22.5°	2056.2	2057.5	2054.9	2051.0	2045.9	2037.5	2027.9	2018.9	2011.8	2009.2	2011.8
25°	1962.3	1961.7	1966.2	1973.9	1979.0	1956.5	1926.3	1897.4	1877.4	1872.3	1877.4
27.5°	1883.9	1883.2	1872.9	1850.4	1824.1	1803.5	1797.7	1794.5	1787.4	1784.2	1788.7
30°	1811.2	1804.8	1768.1	1721.2	1687.8	1679.4	1692.3	1709.6	1719.3	1721.8	1717.3
32.5°	1721.8	1704.5	1655.0	1613.8	1599.0	1592.6	1597.1	1619.6	1642.8	1655.6	1641.5
35°	1606.7	1592.0	1552.7	1530.2	1527.0	1519.9	1514.2	1527.7	1556.0	1572.0	1552.7
37.5°	1479.4	1486.5	1469.8	1458.2	1458.2	1451.2	1439.6	1444.1	1460.2	1475.6	1458.9
40°	1375.3	1388.1	1392.0	1388.8	1387.5	1378.5	1367.6	1365.0	1365.6	1368.9	1363.7
42.5°	1295.6	1297.5	1314.8	1320.6	1315.5	1305.8	1299.4	1295.6	1276.9	1268.6	1279.5
45°	1219.0	1220.3	1234.5	1251.2	1248.0	1237.7	1232.5	1220.3	1187.5	1178.5	1190.1
47.5°	1139.3	1146.4	1156.7	1174.0	1177.3	1167.0	1159.9	1138.7	1099.5	1091.7	1100.1
50°	1058.3	1071.8	1084.0	1092.4	1096.9	1087.9	1080.2	1055.1	1017.2	1008.2	1016.5
52.5°	984.4	996.6	1012.7	1010.1	1008.2	1006.2	1001.1	975.4	939.4	927.1	938.7
55°	908.5	920.7	936.8	925.9	917.5	920.7	914.9	893.7	862.8	847.4	862.8
57.5°	833.3	842.9	855.8	842.3	830.1	833.9	830.1	815.3	786.3	771.5	786.3
60°	757.4	763.2	772.2	758.0	745.2	747.8	746.5	731.0	708.5	697.0	708.5
62.5°	679.6	682.8	687.3	673.8	662.9	662.2	662.9	647.5	630.1	622.4	630.7
65°	597.9	599.2	601.8	588.3	580.6	577.4	578.7	564.5	551.7	546.5	552.3
67.5°	514.4	515.7	516.3	503.4	498.3	493.8	494.4	484.1	472.6	469.4	473.9
70°	429.5	431.4	431.4	419.9	416.6	410.8	410.8	404.4	394.8	392.2	395.4
72.5°	349.8	348.5	348.5	338.8	336.3	330.5	329.8	327.9	318.9	316.3	319.5
75°	269.4	268.1	268.8	261.0	258.5	254.0	253.3	253.3	246.3	243.7	246.9
77.5°	194.8	196.1	195.5	189.7	187.1	185.2	187.1	187.1	180.7	178.1	181.3
80°	130.5	131.8	131.8	127.3	125.4	124.1	126.7	125.4	122.2	119.6	122.2
82.5°	79.1	79.1	79.1	77.8	75.2	75.2	77.2	77.2	73.9	72.0	73.9
85°	39.2	39.2	38.6	38.6	37.3	37.3	38.6	38.6	36.6	36.0	36.6
87.5°	13.5	12.9	12.9	12.9	12.2	12.9	12.9	12.9	12.2	12.2	12.2
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°	1935.3	1935.3	1935.3	1935.3	1935.3	1935.3	1935.3	1935.3
2.5°	1947.5	1947.5	1946.9	1946.9	1946.9	1946.2	1945.6	1944.9
5°	1975.8	1975.2	1973.9	1974.5	1973.9	1973.9	1973.2	1972.6
7.5°	2007.3	2008.0	2006.7	2008.0	2008.0	2008.0	2007.3	2006.7
10°	2035.0	2036.9	2037.5	2039.5	2040.1	2040.7	2040.1	2039.5
12.5°	2056.2	2059.4	2062.0	2065.2	2067.1	2067.7	2066.5	2065.8
15°	2068.4	2072.9	2077.4	2082.5	2085.7	2087.0	2086.4	2085.1
17.5°	2069.0	2074.2	2080.0	2084.5	2089.0	2092.2	2094.8	2095.4
20°	2054.9	2059.4	2064.5	2070.3	2077.4	2083.2	2089.0	2090.9
22.5°	2017.0	2027.9	2038.8	2044.6	2050.4	2054.2	2057.5	2062.0
25°	1892.9	1925.7	1961.0	1975.8	1973.2	1961.0	1959.1	1961.0
27.5°	1795.8	1799.6	1804.1	1821.5	1845.9	1868.4	1881.3	1883.9
30°	1709.0	1690.3	1676.2	1684.5	1716.7	1761.1	1800.9	1811.9
32.5°	1619.0	1594.5	1588.7	1594.5	1608.7	1645.3	1700.0	1725.1
35°	1523.2	1512.9	1517.4	1522.5	1525.7	1545.7	1586.2	1611.9
37.5°	1438.9	1437.6	1446.7	1453.1	1453.1	1460.8	1481.4	1482.0
40°	1359.9	1366.3	1373.4	1382.4	1384.3	1387.5	1382.4	1373.4
42.5°	1290.4	1297.5	1302.0	1311.0	1316.1	1309.1	1292.3	1293.6
45°	1217.8	1231.3	1233.8	1243.5	1247.3	1228.7	1215.8	1219.0
47.5°	1136.1	1158.6	1163.8	1174.0	1170.8	1152.8	1143.8	1140.0
50°	1051.9	1081.5	1086.0	1093.0	1089.2	1080.2	1068.6	1059.6
52.5°	976.0	999.8	1003.0	1005.6	1008.8	1010.7	995.9	981.8
55°	895.0	913.6	918.1	915.6	924.6	934.9	920.1	905.9
57.5°	816.6	829.4	832.6	828.1	841.0	854.5	843.6	832.6
60°	733.0	745.8	746.5	744.5	757.4	769.0	764.5	757.4
62.5°	650.7	662.2	660.3	662.2	672.5	687.3	684.1	679.6
65°	567.1	578.0	576.7	580.6	588.3	601.8	601.8	597.9
67.5°	487.4	493.8	493.1	498.3	504.1	516.9	518.2	514.4
70°	407.6	410.8	410.2	416.0	420.5	434.0	434.0	429.5
72.5°	330.5	332.4	329.8	337.6	339.5	351.1	351.1	345.9
75°	256.5	255.9	253.3	257.8	263.6	272.0	270.0	265.5
77.5°	187.7	185.8	183.2	188.4	191.6	198.0	196.1	191.6
80°	127.3	125.4	122.2	126.7	129.2	133.1	131.2	127.9
82.5°	77.8	75.9	73.3	76.5	77.8	80.4	79.1	76.5
85°	38.6	37.3	36.0	36.6	38.6	39.2	38.6	37.9
87.5°	12.9	12.2	11.6	12.2	12.2	12.9	12.9	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)