

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: P130642

Luminaire Tested: **TBLED-LD1-6-M-UNV-L835-CD1-DOS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P130642  
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-LD1-6-M-UNV-L835-CD1-DOS  
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.  
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR.  
Light Source: (160) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5383.3 lumens  
Efficiency: N/A  
Efficacy: 105.6 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

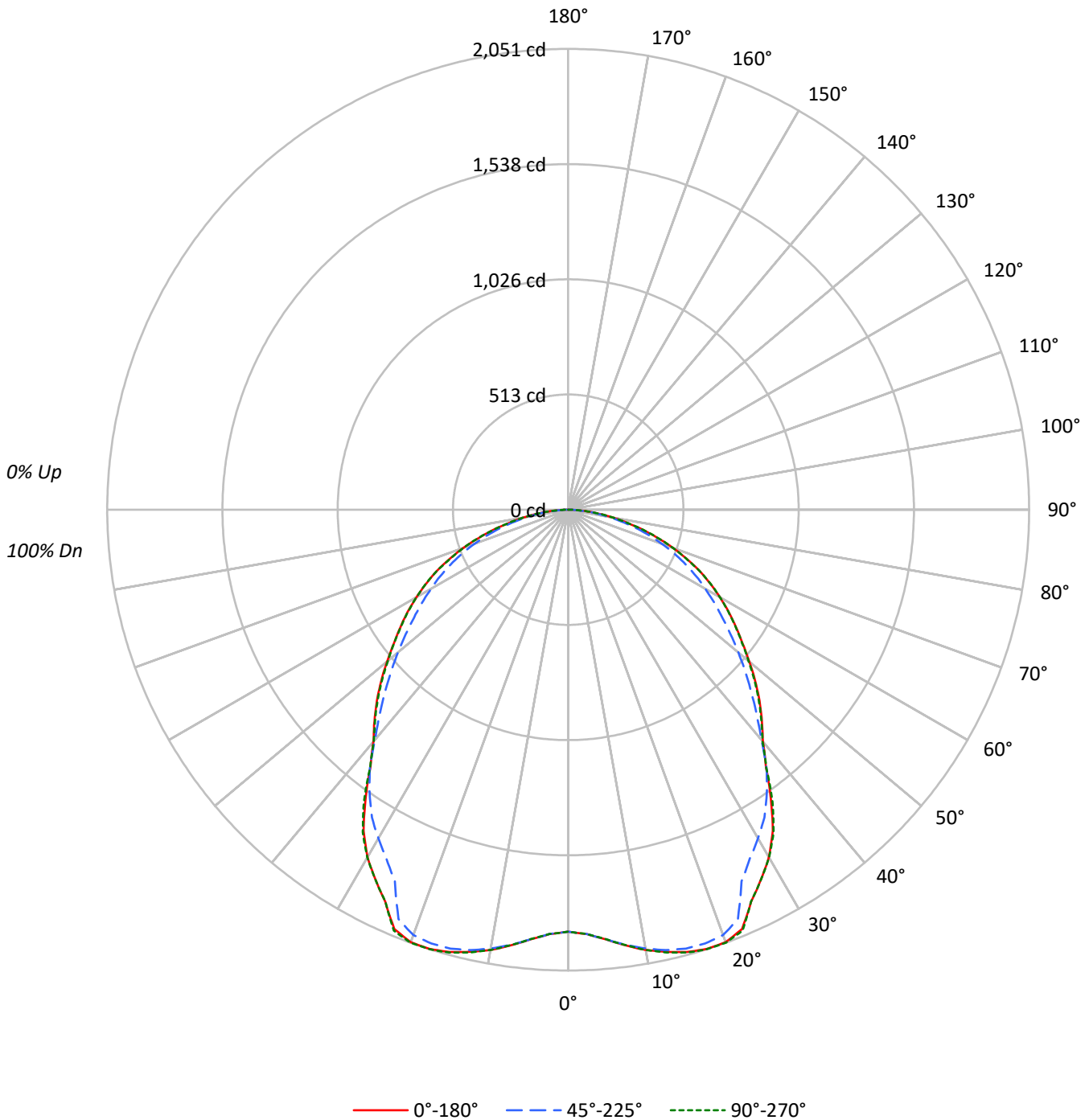
Input Watts (W): 51  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	20335	20335	20335
5°	20866	20866	20859
10°	21879	21806	21879
15°	22848	22670	22878
20°	23600	23219	23632
25°	23014	21804	22991
30°	22331	21122	22356
35°	20790	20371	20939
40°	19041	18901	19013
45°	18429	17668	18368
50°	17719	16649	17652
55°	17195	15808	17157
60°	16888	15253	16888
65°	16537	14789	16486
70°	15697	14064	15675
75°	14292	12932	14347
80°	12509	11349	12547
85°	10859	9455	10859



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.4	3.4
10°-20°	574.7	10.7
20°-30°	869.1	16.1
30°-40°	948.8	17.6
40°-50°	931.4	17.3
50°-60°	815.4	15.1
60°-70°	612.7	11.4
70°-80°	350.3	6.5
80°-90°	95.5	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°	1629.3	30.3
0°-40°	2578.1	47.9
0°-60°	4324.8	80.3
0°-90°	5383.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5383.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1878	1878	1878	1878	1878	
5°	1920	1920	1920	1920	1919	186
15°	2038	2036	2022	2037	2041	577
25°	1926	1929	1825	1929	1924	889
35°	1573	1496	1541	1490	1584	981
45°	1203	1228	1154	1220	1199	928
55°	911	925	837	922	909	817
65°	645	620	577	620	643	635
75°	342	328	309	329	343	363
85°	87	82	76	82	87	98
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°	1877.9	1877.9	1877.9	1877.9	1877.9	1877.9	1877.9	1877.9	1877.9	1877.9	1877.9
2.5°	1890.5	1889.1	1889.8	1889.1	1890.5	1890.5	1889.8	1890.5	1889.8	1889.8	1889.8
5°	1919.6	1918.3	1918.9	1917.6	1919.6	1920.3	1919.6	1920.3	1920.3	1919.6	1919.6
7.5°	1956.0	1953.3	1954.0	1952.7	1954.7	1954.7	1954.0	1954.0	1953.3	1952.7	1953.3
10°	1989.8	1988.4	1988.4	1987.8	1989.1	1988.4	1987.1	1986.4	1983.8	1983.1	1984.5
12.5°	2015.6	2016.9	2018.9	2018.9	2018.2	2017.6	2014.2	2012.3	2008.3	2007.6	2008.9
15°	2038.1	2038.7	2040.7	2040.1	2038.1	2034.8	2031.5	2027.5	2024.2	2022.2	2024.2
17.5°	2050.0	2050.0	2049.3	2047.3	2043.4	2039.4	2034.8	2030.8	2027.5	2024.8	2027.5
20°	2048.0	2048.0	2044.7	2040.7	2034.1	2028.1	2023.5	2019.5	2016.2	2014.9	2016.9
22.5°	2020.2	2022.2	2019.5	2018.9	2013.6	2005.6	1996.4	1986.4	1975.9	1972.5	1977.2
25°	1926.2	1924.9	1926.2	1938.8	1942.1	1915.6	1881.9	1850.7	1832.2	1824.9	1834.9
27.5°	1856.7	1855.4	1838.8	1812.4	1776.0	1758.7	1761.4	1758.7	1754.1	1750.8	1755.4
30°	1785.9	1776.0	1730.9	1682.6	1647.5	1642.2	1657.5	1676.7	1688.6	1689.2	1687.3
32.5°	1694.5	1674.7	1616.4	1579.4	1564.8	1562.1	1566.8	1586.6	1613.8	1624.4	1610.5
35°	1572.7	1561.5	1525.7	1501.9	1497.3	1494.0	1486.0	1496.0	1529.7	1541.0	1528.4
37.5°	1446.3	1456.9	1441.7	1433.1	1432.4	1425.8	1414.5	1415.9	1433.7	1449.6	1431.7
40°	1347.0	1357.6	1367.5	1366.9	1364.2	1354.3	1345.7	1341.1	1339.7	1337.1	1341.1
42.5°	1276.2	1272.2	1291.4	1302.0	1295.4	1288.8	1281.5	1278.2	1253.7	1242.4	1257.0
45°	1203.4	1202.1	1215.3	1237.8	1232.5	1223.2	1221.3	1208.0	1166.3	1153.7	1169.6
47.5°	1128.6	1133.9	1145.8	1164.3	1167.6	1159.7	1153.7	1126.6	1084.2	1069.0	1083.6
50°	1051.8	1063.7	1080.3	1087.5	1090.9	1086.2	1082.3	1047.2	1004.1	988.3	1004.8
52.5°	978.3	994.9	1016.7	1010.8	1008.1	1010.1	1003.5	971.7	930.0	910.8	930.7
55°	910.8	926.7	945.9	934.0	921.4	928.7	922.7	897.6	861.2	837.3	859.8
57.5°	847.3	857.2	872.4	856.5	842.0	850.6	844.6	824.8	791.0	770.5	792.3
60°	779.8	787.7	796.3	781.1	765.8	770.5	767.8	750.0	722.2	704.3	720.8
62.5°	712.2	716.2	722.2	705.6	693.0	693.0	691.7	674.5	652.7	642.7	652.0
65°	645.4	644.7	646.7	630.2	620.9	619.6	616.9	601.0	583.8	577.2	584.5
67.5°	569.9	571.2	571.9	556.7	549.4	546.1	544.1	529.5	515.6	511.0	516.3
70°	495.8	496.4	496.4	482.5	477.2	472.0	470.0	458.7	447.5	444.2	448.8
72.5°	417.7	422.3	420.3	409.1	405.1	398.5	397.2	389.9	381.3	376.6	381.3
75°	341.6	348.2	346.2	336.3	331.6	325.0	325.7	321.7	312.4	309.1	313.8
77.5°	268.1	272.1	272.7	267.4	260.1	255.5	257.5	256.8	250.2	242.3	248.2
80°	200.6	205.2	205.9	201.2	195.3	191.3	193.9	193.9	188.6	182.0	187.3
82.5°	139.7	143.0	143.0	140.3	137.7	133.7	135.0	135.7	132.4	125.8	130.4
85°	87.4	88.0	86.7	84.7	82.7	81.4	81.4	82.7	80.1	76.1	79.4
87.5°	32.4	33.1	32.4	34.4	32.4	31.8	32.4	34.4	31.8	31.8	32.4
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°	1877.9	1877.9	1877.9	1877.9	1877.9	1877.9	1877.9	1877.9
2.5°	1889.8	1890.5	1890.5	1889.8	1889.8	1889.8	1889.1	1889.8
5°	1919.6	1920.3	1920.3	1918.9	1919.6	1918.9	1918.3	1918.9
7.5°	1954.0	1955.3	1954.7	1955.3	1956.0	1954.7	1954.7	1954.7
10°	1985.8	1987.8	1989.1	1990.4	1991.1	1989.8	1990.4	1989.8
12.5°	2011.6	2015.6	2018.2	2019.5	2020.9	2020.9	2019.5	2018.2
15°	2027.5	2032.1	2035.4	2039.4	2042.0	2042.7	2041.4	2040.7
17.5°	2031.5	2035.4	2040.1	2044.0	2048.0	2050.7	2052.0	2051.3
20°	2020.2	2023.5	2028.8	2034.8	2040.1	2045.4	2049.3	2050.7
22.5°	1987.8	1997.0	2007.0	2014.2	2018.9	2021.5	2023.5	2028.1
25°	1854.7	1879.2	1915.0	1942.1	1937.5	1924.9	1920.3	1924.2
27.5°	1760.1	1757.4	1753.4	1774.6	1807.7	1836.8	1850.7	1857.4
30°	1675.3	1655.5	1636.9	1644.2	1678.0	1728.3	1770.7	1787.9
32.5°	1586.6	1559.5	1556.9	1561.5	1577.4	1611.1	1668.7	1701.2
35°	1493.3	1478.7	1486.7	1492.6	1497.9	1515.2	1554.9	1584.0
37.5°	1409.9	1407.3	1417.8	1425.1	1427.8	1436.4	1451.6	1447.6
40°	1336.4	1338.4	1347.7	1355.6	1360.9	1361.6	1352.3	1345.0
42.5°	1270.2	1278.8	1278.8	1288.8	1298.0	1285.5	1266.3	1271.6
45°	1202.7	1216.6	1216.0	1224.6	1233.2	1211.3	1195.4	1199.4
47.5°	1123.3	1149.8	1153.7	1163.0	1163.0	1140.5	1127.9	1123.3
50°	1042.5	1077.0	1081.6	1086.9	1084.2	1075.6	1059.1	1047.8
52.5°	967.7	1000.2	1004.8	1002.8	1008.1	1012.1	989.6	975.7
55°	894.3	919.4	925.4	918.8	931.3	942.6	921.4	908.8
57.5°	821.5	840.6	845.9	840.6	854.5	867.1	853.2	844.6
60°	748.0	765.2	768.5	763.9	780.4	791.7	785.0	779.8
62.5°	675.8	687.7	691.1	693.0	703.0	716.2	714.9	714.2
65°	603.0	615.6	616.9	622.9	629.5	646.7	643.4	643.4
67.5°	532.2	540.8	542.8	552.0	554.7	571.2	569.3	566.6
70°	458.7	467.3	470.0	479.2	483.2	496.4	497.1	495.1
72.5°	391.2	394.5	397.2	405.8	409.1	421.6	421.6	419.0
75°	322.4	321.7	324.3	332.9	336.3	346.8	346.2	342.9
77.5°	257.5	254.2	256.2	262.1	266.1	274.0	271.4	268.7
80°	196.6	191.3	192.0	197.9	200.6	205.9	203.2	201.2
82.5°	139.0	134.4	133.0	137.7	141.7	142.3	141.7	140.3
85°	84.7	80.8	81.4	83.4	86.1	86.1	87.4	87.4
87.5°	33.1	31.1	31.1	33.1	33.1	33.8	33.1	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)