

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: P130669

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P130669  
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  
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.  
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS.  
Light Source: (160) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5706.5 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

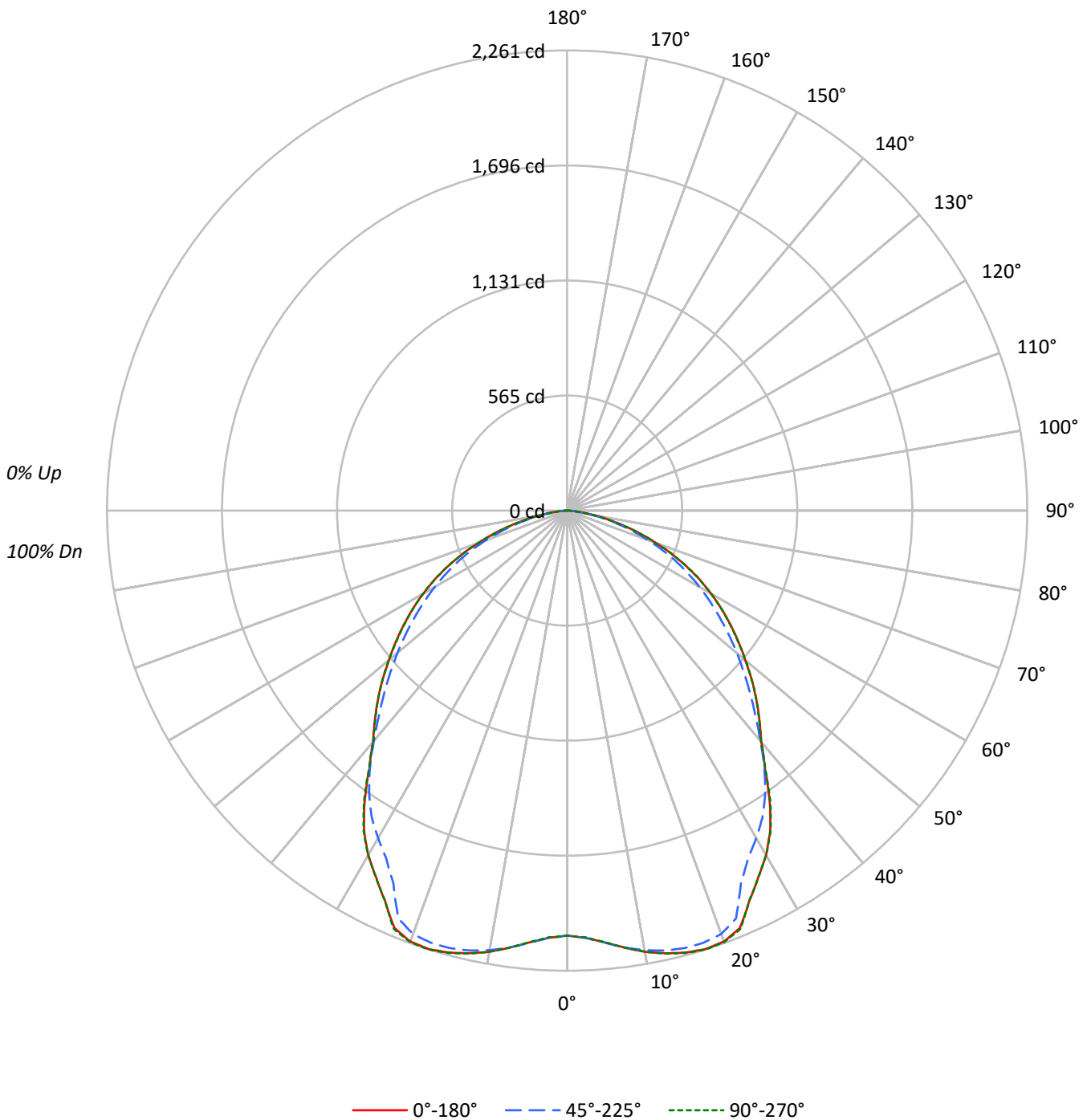
Input Watts (W): 51  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	22615	22615	22615
5°	23153	23168	23139
10°	24207	24116	24199
15°	25202	24953	25225
20°	25962	25513	26001
25°	25301	24140	25285
30°	24439	23233	24448
35°	22921	22425	22994
40°	20979	20881	20949
45°	20146	19476	20146
50°	19239	18327	19262
55°	18509	17265	18456
60°	17701	16288	17701
65°	16534	15112	16534
70°	14675	13399	14675
75°	12163	11004	11991
80°	8780	8051	8612
85°	5256	4833	5082



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.6	3.6
10°-20°	633.1	11.1
20°-30°	956.2	16.8
30°-40°	1043.9	18.3
40°-50°	1018.8	17.9
50°-60°	875.2	15.3
60°-70°	618.7	10.8
70°-80°	299.3	5.2
80°-90°	55.8	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°	1794.9	31.5
0°-40°	2838.7	49.7
0°-60°	4732.7	82.9
0°-90°	5706.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5706.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2088	2088	2088	2088	2088	
5°	2130	2131	2131	2130	2129	206
15°	2248	2244	2226	2245	2250	636
25°	2118	2123	2020	2124	2116	976
35°	1734	1644	1696	1640	1739	1079
45°	1316	1341	1272	1337	1316	1014
55°	980	992	914	989	978	877
65°	645	625	590	624	645	637
75°	291	276	263	276	287	311
85°	42	40	39	39	41	58
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°	2088.4	2088.4	2088.4	2088.4	2088.4	2088.4	2088.4	2088.4	2088.4	2088.4	2088.4
2.5°	2100.9	2100.2	2099.5	2100.2	2101.6	2101.6	2101.6	2100.9	2100.9	2101.6	2100.9
5°	2130.0	2128.7	2129.4	2128.7	2131.4	2130.7	2130.7	2131.4	2131.4	2131.4	2130.7
7.5°	2166.1	2164.7	2164.7	2164.7	2165.4	2165.4	2165.4	2165.4	2164.7	2164.7	2164.7
10°	2201.5	2199.4	2200.1	2199.4	2200.1	2198.7	2197.3	2196.0	2194.6	2193.2	2193.9
12.5°	2227.9	2227.2	2228.6	2228.6	2227.2	2225.1	2221.6	2218.2	2215.4	2214.0	2215.4
15°	2248.0	2249.4	2250.1	2249.4	2246.6	2241.1	2236.9	2231.3	2227.9	2225.8	2227.9
17.5°	2259.1	2259.1	2257.7	2253.5	2248.7	2243.8	2237.6	2232.0	2228.6	2226.5	2229.3
20°	2252.9	2252.2	2247.3	2241.1	2233.4	2227.2	2221.6	2216.8	2214.7	2214.0	2215.4
22.5°	2218.9	2220.2	2217.5	2213.3	2207.8	2198.7	2188.3	2178.6	2171.0	2168.2	2171.0
25°	2117.6	2116.9	2121.7	2130.0	2135.6	2111.3	2078.7	2047.5	2026.0	2020.4	2026.0
27.5°	2032.9	2032.2	2021.1	1996.8	1968.4	1946.2	1939.9	1936.5	1928.8	1925.4	1930.2
30°	1954.5	1947.6	1908.0	1857.4	1821.3	1812.3	1826.2	1844.9	1855.3	1858.1	1853.2
32.5°	1858.1	1839.3	1785.9	1741.5	1725.5	1718.6	1723.5	1747.7	1772.7	1786.6	1771.3
35°	1733.9	1717.9	1675.6	1651.3	1647.8	1640.2	1634.0	1648.5	1679.1	1696.4	1675.6
37.5°	1596.5	1604.1	1586.1	1573.6	1573.6	1566.0	1553.5	1558.3	1575.7	1592.3	1574.3
40°	1484.1	1498.0	1502.1	1498.7	1497.3	1487.6	1475.8	1473.0	1473.7	1477.2	1471.6
42.5°	1398.1	1400.1	1418.9	1425.1	1419.6	1409.2	1402.2	1398.1	1377.9	1368.9	1380.7
45°	1315.5	1316.9	1332.1	1350.2	1346.7	1335.6	1330.1	1316.9	1281.5	1271.8	1284.3
47.5°	1229.5	1237.1	1248.2	1266.9	1270.4	1259.3	1251.7	1228.8	1186.4	1178.1	1187.1
50°	1142.0	1156.6	1169.8	1178.8	1183.7	1174.0	1165.6	1138.6	1097.6	1087.9	1096.9
52.5°	1062.2	1075.4	1092.8	1090.0	1087.9	1085.8	1080.3	1052.5	1013.7	1000.5	1013.0
55°	980.4	993.6	1010.9	999.1	990.1	993.6	987.3	964.4	931.1	914.5	931.1
57.5°	899.2	909.6	923.5	908.9	895.7	899.9	895.7	879.8	848.5	832.6	848.5
60°	817.3	823.6	833.3	818.0	804.1	806.9	805.5	788.9	764.6	752.1	764.6
62.5°	733.4	736.8	741.7	727.1	715.3	714.6	715.3	698.7	679.9	671.6	680.6
65°	645.3	646.6	649.4	634.9	626.5	623.1	624.4	609.2	595.3	589.8	596.0
67.5°	555.1	556.4	557.1	543.3	537.7	532.9	533.6	522.5	510.0	506.5	511.3
70°	463.5	465.6	465.6	453.1	449.6	443.4	443.4	436.4	426.0	423.2	426.7
72.5°	377.4	376.1	376.1	365.6	362.9	356.6	355.9	353.9	344.1	341.4	344.8
75°	290.7	289.3	290.0	281.7	278.9	274.1	273.4	273.4	265.7	263.0	266.4
77.5°	210.2	211.6	210.9	204.7	201.9	199.8	201.9	201.9	195.0	192.2	195.7
80°	140.8	142.2	142.2	137.4	135.3	133.9	136.7	135.3	131.8	129.1	131.8
82.5°	85.3	85.3	85.3	84.0	81.2	81.2	83.3	83.3	79.8	77.7	79.8
85°	42.3	42.3	41.6	41.6	40.2	40.2	41.6	41.6	39.5	38.9	39.5
87.5°	14.6	13.9	13.9	13.9	13.2	13.9	13.9	13.9	13.2	13.2	13.2
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°	2088.4	2088.4	2088.4	2088.4	2088.4	2088.4	2088.4	2088.4
2.5°	2101.6	2101.6	2100.9	2100.9	2100.9	2100.2	2099.5	2098.8
5°	2132.1	2131.4	2130.0	2130.7	2130.0	2130.0	2129.4	2128.7
7.5°	2166.1	2166.8	2165.4	2166.8	2166.8	2166.8	2166.1	2165.4
10°	2196.0	2198.0	2198.7	2200.8	2201.5	2202.2	2201.5	2200.8
12.5°	2218.9	2222.3	2225.1	2228.6	2230.7	2231.3	2230.0	2229.3
15°	2232.0	2236.9	2241.8	2247.3	2250.8	2252.2	2251.5	2250.1
17.5°	2232.7	2238.3	2244.5	2249.4	2254.2	2257.7	2260.5	2261.2
20°	2217.5	2222.3	2227.9	2234.1	2241.8	2248.0	2254.2	2256.3
22.5°	2176.5	2188.3	2200.1	2206.4	2212.6	2216.8	2220.2	2225.1
25°	2042.6	2078.0	2116.2	2132.1	2129.4	2116.2	2114.1	2116.2
27.5°	1937.9	1942.0	1946.9	1965.6	1992.0	2016.3	2030.1	2032.9
30°	1844.2	1824.1	1808.8	1817.8	1852.5	1900.4	1943.4	1955.2
32.5°	1747.1	1720.7	1714.4	1720.7	1736.0	1775.5	1834.5	1861.5
35°	1643.7	1632.6	1637.4	1643.0	1646.4	1668.0	1711.7	1739.4
37.5°	1552.8	1551.4	1561.1	1568.0	1568.0	1576.4	1598.6	1599.3
40°	1467.4	1474.4	1482.0	1491.7	1493.8	1497.3	1491.7	1482.0
42.5°	1392.5	1400.1	1405.0	1414.7	1420.3	1412.6	1394.6	1396.0
45°	1314.1	1328.7	1331.5	1341.9	1346.0	1325.9	1312.0	1315.5
47.5°	1226.0	1250.3	1255.8	1266.9	1263.5	1244.0	1234.3	1230.2
50°	1135.1	1167.0	1171.9	1179.5	1175.3	1165.6	1153.1	1143.4
52.5°	1053.2	1078.9	1082.4	1085.1	1088.6	1090.7	1074.7	1059.5
55°	965.8	985.9	990.8	988.0	997.7	1008.8	992.9	977.6
57.5°	881.2	895.0	898.5	893.6	907.5	922.1	910.3	898.5
60°	791.0	804.8	805.5	803.5	817.3	829.8	825.0	817.3
62.5°	702.2	714.6	712.6	714.6	725.7	741.7	738.2	733.4
65°	612.0	623.7	622.4	626.5	634.9	649.4	649.4	645.3
67.5°	525.9	532.9	532.2	537.7	544.0	557.8	559.2	555.1
70°	439.9	443.4	442.7	448.9	453.8	468.3	468.3	463.5
72.5°	356.6	358.7	355.9	364.3	366.3	378.8	378.8	373.3
75°	276.8	276.1	273.4	278.2	284.5	293.5	291.4	286.6
77.5°	202.6	200.5	197.7	203.3	206.8	213.7	211.6	206.8
80°	137.4	135.3	131.8	136.7	139.5	143.6	141.5	138.1
82.5°	84.0	81.9	79.1	82.6	84.0	86.7	85.3	82.6
85°	41.6	40.2	38.9	39.5	41.6	42.3	41.6	40.9
87.5°	13.9	13.2	12.5	13.2	13.2	13.9	13.9	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)