

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: P130738

Luminaire Tested: **TBLED-LD1-11-W-UNV-L835-CD1-CMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130738
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25252)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: TBLED-LD1-11-W-UNV-L835-CD1-CMS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION WITH MINI SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9518.4 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.71
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

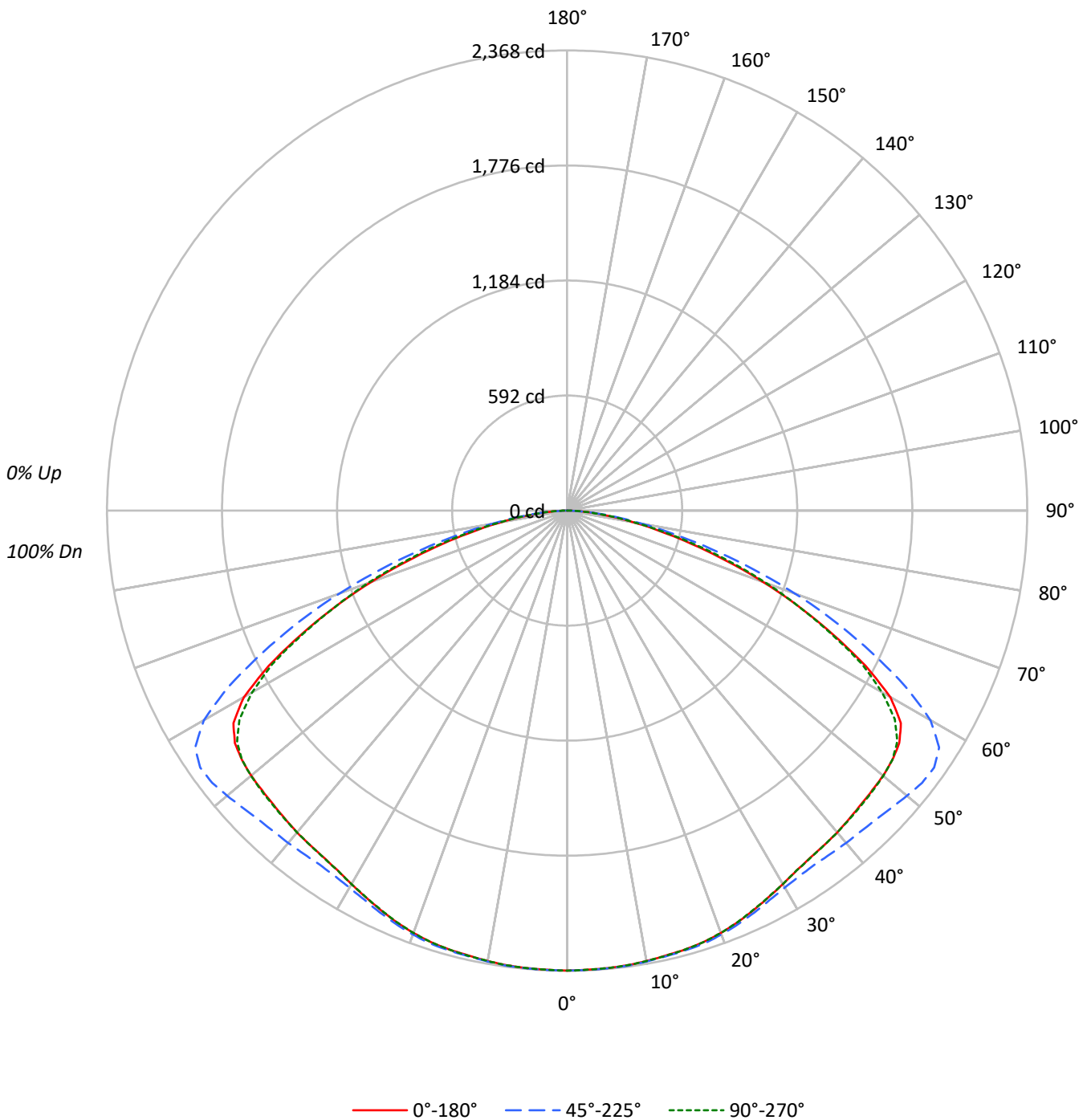
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	88	81	74	94	86	79	73	82	77	72	79	74	70	76	72	68	66
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	61	56	54
4	79	66	57	49	77	65	56	49	62	55	48	60	53	48	58	52	47	45
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38
6	66	52	42	36	64	51	42	35	49	41	35	47	40	35	46	39	34	32
7	61	47	37	31	59	46	37	31	44	36	30	43	36	30	41	35	30	28
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24
9	53	39	30	24	51	38	30	24	37	29	24	36	29	24	35	28	23	22
10	49	35	27	22	48	35	27	21	34	26	21	33	26	21	32	26	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25637	25637	25637
5°	25695	25708	25695
10°	25883	25910	25883
15°	26223	26278	26223
20°	26655	26756	26655
25°	27106	27254	27091
30°	27747	28011	27747
35°	28829	29385	28846
40°	30566	31561	30566
45°	32754	34420	32810
50°	35760	38467	35782
55°	39399	43530	39142
60°	41608	46776	40536
65°	38711	44317	38393
70°	33975	39494	34523
75°	27777	32274	28865
80°	21664	24595	22125
85°	15357	17046	15667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.4	2.4
10°-20°	662.7	7.0
20°-30°	1051.9	11.1
30°-40°	1386.4	14.6
40°-50°	1702.1	17.9
50°-60°	1942.9	20.4
60°-70°	1598.4	16.8
70°-80°	784.3	8.2
80°-90°	164.2	1.7
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°	1940.0	20.4
0°-40°	3326.5	34.9
0°-60°	6971.5	73.2
0°-90°	9518.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9518.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2368	2368	2368	2368	2368	
5°	2364	2365	2365	2365	2364	225
15°	2339	2341	2344	2342	2339	662
25°	2269	2276	2281	2276	2267	1048
35°	2181	2204	2223	2203	2182	1372
45°	2139	2194	2248	2198	2142	1657
55°	2087	2204	2306	2198	2073	1850
65°	1511	1631	1730	1628	1498	1491
75°	664	728	771	737	690	718
85°	124	134	137	133	126	152
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°	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5
2.5°	2365.0	2365.0	2365.0	2365.0	2366.3	2366.3	2366.3	2366.3	2366.3	2366.3	2365.0
5°	2363.8	2363.8	2363.8	2363.8	2365.0	2365.0	2365.0	2365.0	2365.0	2365.0	2365.0
7.5°	2360.1	2360.1	2361.3	2361.3	2361.3	2361.3	2361.3	2362.6	2362.6	2362.6	2362.6
10°	2353.9	2353.9	2353.9	2353.9	2355.1	2355.1	2356.4	2356.4	2356.4	2356.4	2356.4
12.5°	2345.2	2345.2	2346.5	2346.5	2346.5	2347.7	2349.0	2349.0	2349.0	2349.0	2349.0
15°	2339.1	2339.1	2339.1	2340.3	2340.3	2341.5	2342.8	2342.8	2344.0	2344.0	2344.0
17.5°	2329.2	2330.4	2330.4	2330.4	2331.7	2332.9	2335.4	2335.4	2336.6	2336.6	2336.6
20°	2313.1	2313.1	2314.3	2315.6	2316.8	2318.1	2320.5	2321.8	2321.8	2321.8	2323.0
22.5°	2293.3	2293.3	2294.6	2295.8	2298.3	2299.5	2302.0	2303.2	2303.2	2303.2	2303.2
25°	2268.6	2269.8	2271.1	2272.3	2274.8	2277.3	2279.7	2282.2	2282.2	2281.0	2282.2
27.5°	2243.9	2245.1	2246.3	2248.8	2251.3	2253.8	2256.2	2258.7	2258.7	2258.7	2259.9
30°	2219.1	2220.4	2222.9	2225.3	2229.0	2231.5	2235.2	2238.9	2240.2	2240.2	2238.9
32.5°	2196.9	2198.1	2201.8	2205.5	2210.5	2215.4	2220.4	2224.1	2227.8	2227.8	2225.3
35°	2180.8	2182.1	2187.0	2193.2	2200.6	2206.8	2213.0	2217.9	2222.9	2222.9	2221.6
37.5°	2170.9	2172.2	2178.3	2185.8	2196.9	2205.5	2214.2	2220.4	2225.3	2226.6	2225.3
40°	2162.3	2163.5	2170.9	2180.8	2193.2	2205.5	2216.7	2225.3	2230.3	2232.7	2232.7
42.5°	2149.9	2152.4	2159.8	2173.4	2188.2	2203.1	2216.7	2229.0	2235.2	2237.7	2236.5
45°	2138.8	2141.3	2151.2	2167.2	2184.5	2203.1	2220.4	2235.2	2243.9	2247.6	2245.1
47.5°	2130.1	2133.8	2146.2	2164.8	2185.8	2209.3	2230.3	2247.6	2258.7	2263.7	2259.9
50°	2122.7	2127.7	2141.3	2163.5	2190.7	2220.4	2245.1	2264.9	2278.5	2283.4	2279.7
52.5°	2109.1	2117.8	2133.8	2161.0	2194.4	2227.8	2257.5	2281.0	2297.0	2302.0	2297.0
55°	2086.9	2095.5	2114.1	2145.0	2185.8	2222.9	2258.7	2284.7	2299.5	2305.7	2298.3
57.5°	2036.2	2044.8	2063.4	2099.2	2140.0	2182.1	2219.1	2247.6	2266.1	2269.8	2255.0
60°	1921.2	1927.4	1955.8	1991.7	2031.2	2072.0	2110.4	2142.5	2158.6	2159.8	2138.8
62.5°	1730.8	1740.7	1769.1	1807.5	1844.6	1877.9	1913.8	1947.2	1959.5	1964.5	1948.4
65°	1510.8	1524.4	1545.4	1580.0	1617.1	1644.3	1683.8	1712.3	1724.6	1729.6	1723.4
67.5°	1291.9	1304.3	1315.4	1348.8	1382.2	1408.1	1446.5	1472.4	1482.3	1489.7	1486.0
70°	1073.1	1084.2	1094.1	1121.3	1147.3	1180.7	1202.9	1227.6	1233.8	1247.4	1241.2
72.5°	860.5	869.1	879.0	905.0	921.0	956.9	966.8	987.8	998.9	1002.6	996.5
75°	663.9	670.1	681.2	702.2	714.6	741.8	745.5	764.0	771.4	771.4	769.0
77.5°	492.0	497.0	509.4	521.7	534.1	552.6	548.9	561.3	566.2	568.7	566.2
80°	347.4	353.6	356.1	365.9	377.1	384.5	382.0	388.2	389.4	394.4	393.1
82.5°	222.5	228.7	225.0	231.2	238.6	243.5	244.8	244.8	244.8	248.5	247.3
85°	123.6	128.6	126.1	128.6	132.3	136.0	133.5	134.8	136.0	137.2	136.0
87.5°	40.8	45.7	42.0	43.3	45.7	48.2	49.5	45.7	48.2	48.2	48.2
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°	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5
2.5°	2365.0	2365.0	2365.0	2365.0	2365.0	2365.0	2365.0	2365.0
5°	2365.0	2365.0	2365.0	2365.0	2363.8	2363.8	2363.8	2363.8
7.5°	2361.3	2361.3	2361.3	2361.3	2360.1	2360.1	2360.1	2360.1
10°	2355.1	2355.1	2355.1	2353.9	2353.9	2353.9	2353.9	2353.9
12.5°	2349.0	2347.7	2347.7	2347.7	2347.7	2346.5	2346.5	2346.5
15°	2344.0	2342.8	2342.8	2341.5	2340.3	2340.3	2339.1	2339.1
17.5°	2335.4	2335.4	2334.1	2332.9	2331.7	2330.4	2330.4	2329.2
20°	2321.8	2320.5	2318.1	2316.8	2316.8	2315.6	2314.3	2313.1
22.5°	2302.0	2300.7	2299.5	2297.0	2295.8	2294.6	2293.3	2292.1
25°	2279.7	2278.5	2277.3	2274.8	2273.5	2271.1	2269.8	2267.4
27.5°	2257.5	2257.5	2253.8	2251.3	2248.8	2246.3	2245.1	2242.6
30°	2237.7	2236.5	2234.0	2229.0	2226.6	2222.9	2220.4	2219.1
32.5°	2222.9	2221.6	2216.7	2210.5	2205.5	2200.6	2199.4	2196.9
35°	2219.1	2214.2	2206.8	2199.4	2193.2	2187.0	2183.3	2182.1
37.5°	2222.9	2214.2	2205.5	2195.7	2187.0	2178.3	2173.4	2170.9
40°	2226.6	2217.9	2208.0	2194.4	2182.1	2172.2	2166.0	2162.3
42.5°	2229.0	2219.1	2206.8	2190.7	2175.9	2163.5	2156.1	2152.4
45°	2235.2	2224.1	2208.0	2188.2	2169.7	2156.1	2147.4	2142.5
47.5°	2248.8	2232.7	2213.0	2189.5	2167.2	2148.7	2138.8	2133.8
50°	2266.1	2246.3	2221.6	2193.2	2166.0	2142.5	2130.1	2124.0
52.5°	2282.2	2258.7	2229.0	2195.7	2161.0	2133.8	2115.3	2109.1
55°	2282.2	2253.8	2216.7	2178.3	2138.8	2106.6	2081.9	2073.3
57.5°	2234.0	2203.1	2157.3	2115.3	2072.0	2033.7	2007.7	1999.1
60°	2110.4	2083.2	2030.0	1989.2	1941.0	1898.9	1879.2	1871.7
62.5°	1921.2	1901.4	1853.2	1817.4	1765.4	1732.0	1708.6	1709.8
65°	1701.1	1683.8	1644.3	1612.1	1565.1	1539.2	1515.7	1498.4
67.5°	1470.0	1450.2	1418.0	1389.6	1351.3	1332.7	1306.8	1290.7
70°	1227.6	1212.8	1183.1	1163.4	1131.2	1115.1	1090.4	1090.4
72.5°	985.3	977.9	956.9	939.6	914.9	900.0	880.2	884.0
75°	760.3	764.0	743.0	730.6	710.9	698.5	683.7	689.9
77.5°	569.9	565.0	550.2	542.7	525.4	520.5	505.6	510.6
80°	394.4	393.1	380.8	375.8	365.9	363.5	351.1	354.8
82.5°	248.5	248.5	243.5	238.6	234.9	232.4	223.8	226.2
85°	137.2	136.0	134.8	131.0	128.6	129.8	123.6	126.1
87.5°	48.2	47.0	47.0	44.5	42.0	45.7	40.8	42.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)