

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: P130672

Luminaire Tested: **TBLED-LD1-8-M-UNV-L835-CD1-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130672
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-LD1-8-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: 8038.1 lumens
Efficiency: N/A
Efficacy: 104.4 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

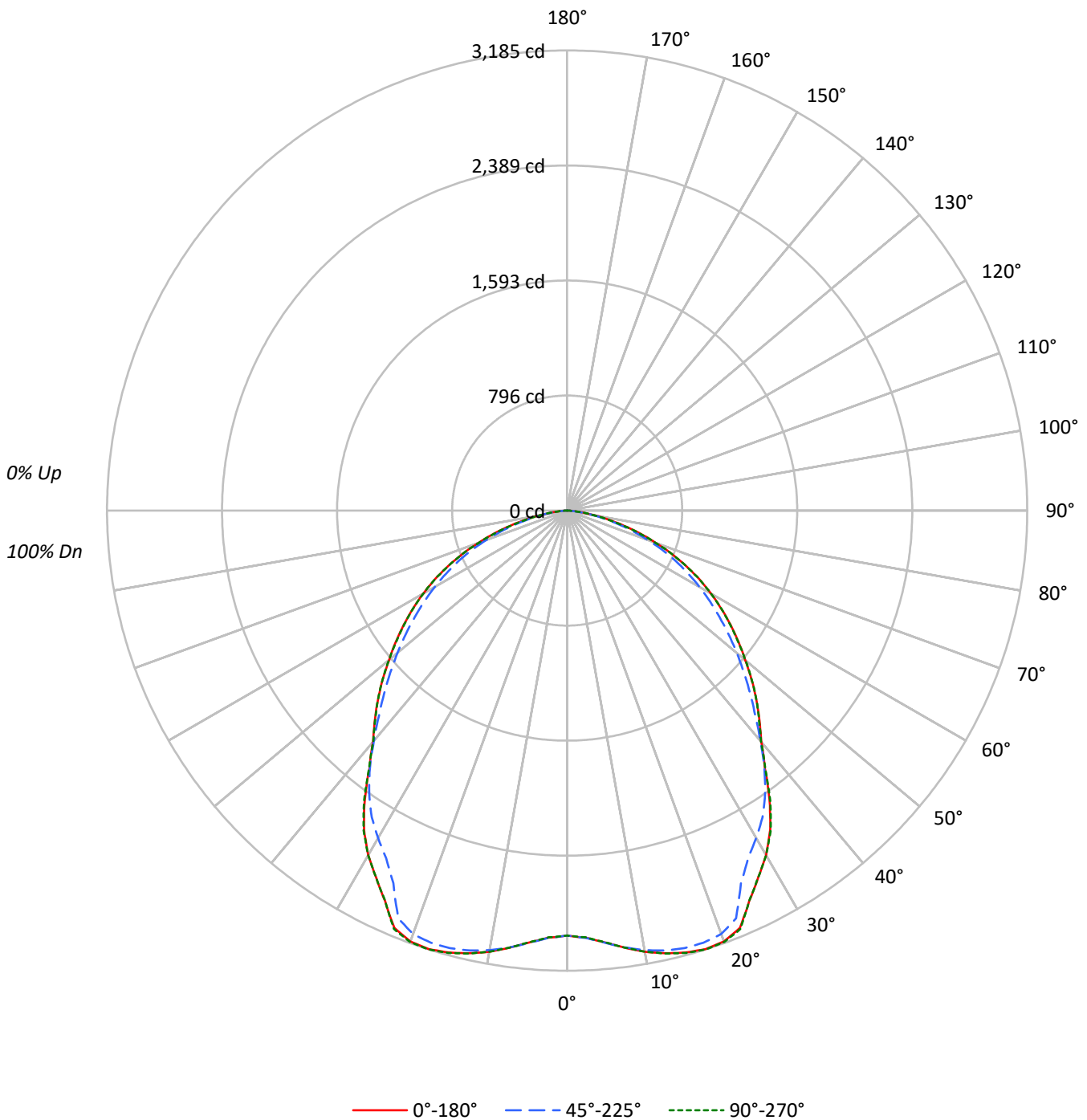
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					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°	31855	31855	31855
5°	32613	32635	32593
10°	34098	33969	34087
15°	35499	35148	35531
20°	36568	35938	36624
25°	35638	34003	35615
30°	34424	32725	34436
35°	32286	31588	32389
40°	29551	29412	29509
45°	28377	27434	28377
50°	27099	25815	27133
55°	26070	24318	25997
60°	24934	22944	24934
65°	23289	21285	23289
70°	20668	18876	20668
75°	17133	15497	16886
80°	12372	11337	12129
85°	7405	6796	7169



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.5	3.6
10°-20°	891.8	11.1
20°-30°	1346.8	16.8
30°-40°	1470.4	18.3
40°-50°	1435.0	17.9
50°-60°	1232.8	15.3
60°-70°	871.4	10.8
70°-80°	421.6	5.2
80°-90°	78.6	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°	2528.2	31.5
0°-40°	3998.6	49.7
0°-60°	6666.4	82.9
0°-90°	8038.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8038.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2942	2942	2942	2942	2942	
5°	3000	3002	3002	3001	2998	290
15°	3166	3161	3135	3162	3169	896
25°	2983	2991	2846	2992	2981	1375
35°	2442	2316	2390	2310	2450	1520
45°	1853	1889	1791	1883	1853	1428
55°	1381	1397	1288	1394	1377	1235
65°	909	880	831	880	909	897
75°	410	389	370	388	404	438
85°	60	57	55	55	58	81
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°	2941.7	2941.7	2941.7	2941.7	2941.7	2941.7	2941.7	2941.7	2941.7	2941.7	2941.7
2.5°	2959.3	2958.3	2957.3	2958.3	2960.3	2960.3	2960.3	2959.3	2959.3	2960.3	2959.3
5°	3000.3	2998.4	2999.3	2998.4	3002.3	3001.3	3001.3	3002.3	3002.3	3002.3	3001.3
7.5°	3051.1	3049.2	3049.2	3049.2	3050.2	3050.2	3050.2	3050.2	3049.2	3049.2	3049.2
10°	3101.0	3098.1	3099.0	3098.1	3099.0	3097.1	3095.1	3093.2	3091.2	3089.3	3090.2
12.5°	3138.1	3137.1	3139.1	3139.1	3137.1	3134.2	3129.3	3124.4	3120.5	3118.6	3120.5
15°	3166.5	3168.4	3169.4	3168.4	3164.5	3156.7	3150.8	3143.0	3138.1	3135.2	3138.1
17.5°	3182.1	3182.1	3180.1	3174.3	3167.4	3160.6	3151.8	3144.0	3139.1	3136.2	3140.1
20°	3173.3	3172.3	3165.5	3156.7	3145.9	3137.1	3129.3	3122.5	3119.6	3118.6	3120.5
22.5°	3125.4	3127.4	3123.5	3117.6	3109.8	3097.1	3082.4	3068.7	3058.0	3054.1	3058.0
25°	2982.7	2981.8	2988.6	3000.3	3008.1	2973.9	2928.0	2884.0	2853.7	2845.9	2853.7
27.5°	2863.5	2862.5	2846.9	2812.7	2772.6	2741.3	2732.5	2727.7	2716.9	2712.0	2718.9
30°	2753.1	2743.3	2687.6	2616.2	2565.4	2552.7	2572.3	2598.7	2613.3	2617.2	2610.4
32.5°	2617.2	2590.8	2515.6	2453.0	2430.6	2420.8	2427.6	2461.8	2497.0	2516.6	2495.1
35°	2442.3	2419.8	2360.2	2326.0	2321.1	2310.3	2301.6	2322.1	2365.1	2389.5	2360.2
37.5°	2248.8	2259.5	2234.1	2216.5	2216.5	2205.8	2188.2	2195.0	2219.5	2242.9	2217.5
40°	2090.5	2110.0	2115.9	2111.0	2109.0	2095.3	2078.7	2074.8	2075.8	2080.7	2072.9
42.5°	1969.3	1972.2	1998.6	2007.4	1999.6	1984.9	1975.1	1969.3	1940.9	1928.2	1944.8
45°	1853.0	1854.9	1876.4	1901.8	1896.9	1881.3	1873.5	1854.9	1805.1	1791.4	1809.0
47.5°	1731.8	1742.5	1758.2	1784.6	1789.4	1773.8	1763.1	1730.8	1671.2	1659.5	1672.2
50°	1608.6	1629.2	1647.7	1660.4	1667.3	1653.6	1641.9	1603.8	1546.1	1532.4	1545.1
52.5°	1496.3	1514.8	1539.3	1535.3	1532.4	1529.5	1521.7	1482.6	1427.8	1409.3	1426.9
55°	1380.9	1399.5	1423.9	1407.3	1394.6	1399.5	1390.7	1358.5	1311.5	1288.1	1311.5
57.5°	1266.6	1281.2	1300.8	1280.3	1261.7	1267.6	1261.7	1239.2	1195.2	1172.8	1195.2
60°	1151.3	1160.1	1173.7	1152.2	1132.7	1136.6	1134.7	1111.2	1077.0	1059.4	1077.0
62.5°	1033.0	1037.9	1044.7	1024.2	1007.6	1006.6	1007.6	984.1	957.8	946.0	958.7
65°	908.9	910.8	914.8	894.2	882.5	877.6	879.6	858.1	838.5	830.7	839.5
67.5°	781.8	783.8	784.8	765.2	757.4	750.6	751.5	735.9	718.3	713.4	720.3
70°	652.8	655.8	655.8	638.2	633.3	624.5	624.5	614.7	600.1	596.2	601.0
72.5°	531.7	529.7	529.7	515.0	511.1	502.3	501.4	498.4	484.7	480.8	485.7
75°	409.5	407.5	408.5	396.8	392.9	386.0	385.1	385.1	374.3	370.4	375.3
77.5°	296.1	298.1	297.1	288.3	284.4	281.5	284.4	284.4	274.6	270.7	275.6
80°	198.4	200.3	200.3	193.5	190.6	188.6	192.5	190.6	185.7	181.8	185.7
82.5°	120.2	120.2	120.2	118.3	114.3	114.3	117.3	117.3	112.4	109.5	112.4
85°	59.6	59.6	58.6	58.6	56.7	56.7	58.6	58.6	55.7	54.7	55.7
87.5°	20.5	19.5	19.5	19.5	18.6	19.5	19.5	19.5	18.6	18.6	18.6
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°	2941.7	2941.7	2941.7	2941.7	2941.7	2941.7	2941.7	2941.7
2.5°	2960.3	2960.3	2959.3	2959.3	2959.3	2958.3	2957.3	2956.3
5°	3003.3	3002.3	3000.3	3001.3	3000.3	3000.3	2999.3	2998.4
7.5°	3051.1	3052.1	3050.2	3052.1	3052.1	3052.1	3051.1	3050.2
10°	3093.2	3096.1	3097.1	3100.0	3101.0	3102.0	3101.0	3100.0
12.5°	3125.4	3130.3	3134.2	3139.1	3142.0	3143.0	3141.1	3140.1
15°	3144.0	3150.8	3157.7	3165.5	3170.4	3172.3	3171.4	3169.4
17.5°	3145.0	3152.8	3161.6	3168.4	3175.3	3180.1	3184.1	3185.0
20°	3123.5	3130.3	3138.1	3146.9	3157.7	3166.5	3175.3	3178.2
22.5°	3065.8	3082.4	3099.0	3107.8	3116.6	3122.5	3127.4	3134.2
25°	2877.2	2927.0	2980.8	3003.3	2999.3	2980.8	2977.8	2980.8
27.5°	2729.6	2735.5	2742.3	2768.7	2805.8	2840.0	2859.6	2863.5
30°	2597.7	2569.3	2547.8	2560.5	2609.4	2676.8	2737.4	2754.0
32.5°	2460.9	2423.7	2414.9	2423.7	2445.2	2500.9	2584.0	2622.1
35°	2315.2	2299.6	2306.4	2314.3	2319.1	2349.4	2411.0	2450.1
37.5°	2187.2	2185.3	2198.9	2208.7	2208.7	2220.4	2251.7	2252.7
40°	2067.0	2076.8	2087.5	2101.2	2104.1	2109.0	2101.2	2087.5
42.5°	1961.5	1972.2	1979.0	1992.7	2000.5	1989.8	1964.4	1966.3
45°	1851.0	1871.5	1875.4	1890.1	1896.0	1867.6	1848.1	1853.0
47.5°	1726.9	1761.1	1768.9	1784.6	1779.7	1752.3	1738.6	1732.8
50°	1598.9	1643.8	1650.7	1661.4	1655.6	1641.9	1624.3	1610.6
52.5°	1483.5	1519.7	1524.6	1528.5	1533.4	1536.3	1513.8	1492.3
55°	1360.4	1388.7	1395.6	1391.7	1405.4	1421.0	1398.5	1377.0
57.5°	1241.2	1260.7	1265.6	1258.8	1278.3	1298.8	1282.2	1265.6
60°	1114.1	1133.7	1134.7	1131.7	1151.3	1168.9	1162.0	1151.3
62.5°	989.0	1006.6	1003.7	1006.6	1022.3	1044.7	1039.9	1033.0
65°	862.0	878.6	876.6	882.5	894.2	914.8	914.8	908.9
67.5°	740.8	750.6	749.6	757.4	766.2	785.8	787.7	781.8
70°	619.6	624.5	623.5	632.3	639.2	659.7	659.7	652.8
72.5°	502.3	505.3	501.4	513.1	516.0	533.6	533.6	525.8
75°	389.9	389.0	385.1	391.9	400.7	413.4	410.5	403.6
77.5°	285.4	282.4	278.5	286.4	291.2	301.0	298.1	291.2
80°	193.5	190.6	185.7	192.5	196.4	202.3	199.4	194.5
82.5°	118.3	115.3	111.4	116.3	118.3	122.2	120.2	116.3
85°	58.6	56.7	54.7	55.7	58.6	59.6	58.6	57.7
87.5°	19.5	18.6	17.6	18.6	18.6	19.5	19.5	18.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)