

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: P130673

Luminaire Tested: **TBLED-LD1-8-M-UNV-L840-CD1-CG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130673
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-L840-CD1-CG
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH CLEAR GLASS LENS.
Light Source: (160) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8225.0 lumens
Efficiency: N/A
Efficacy: 106.8 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

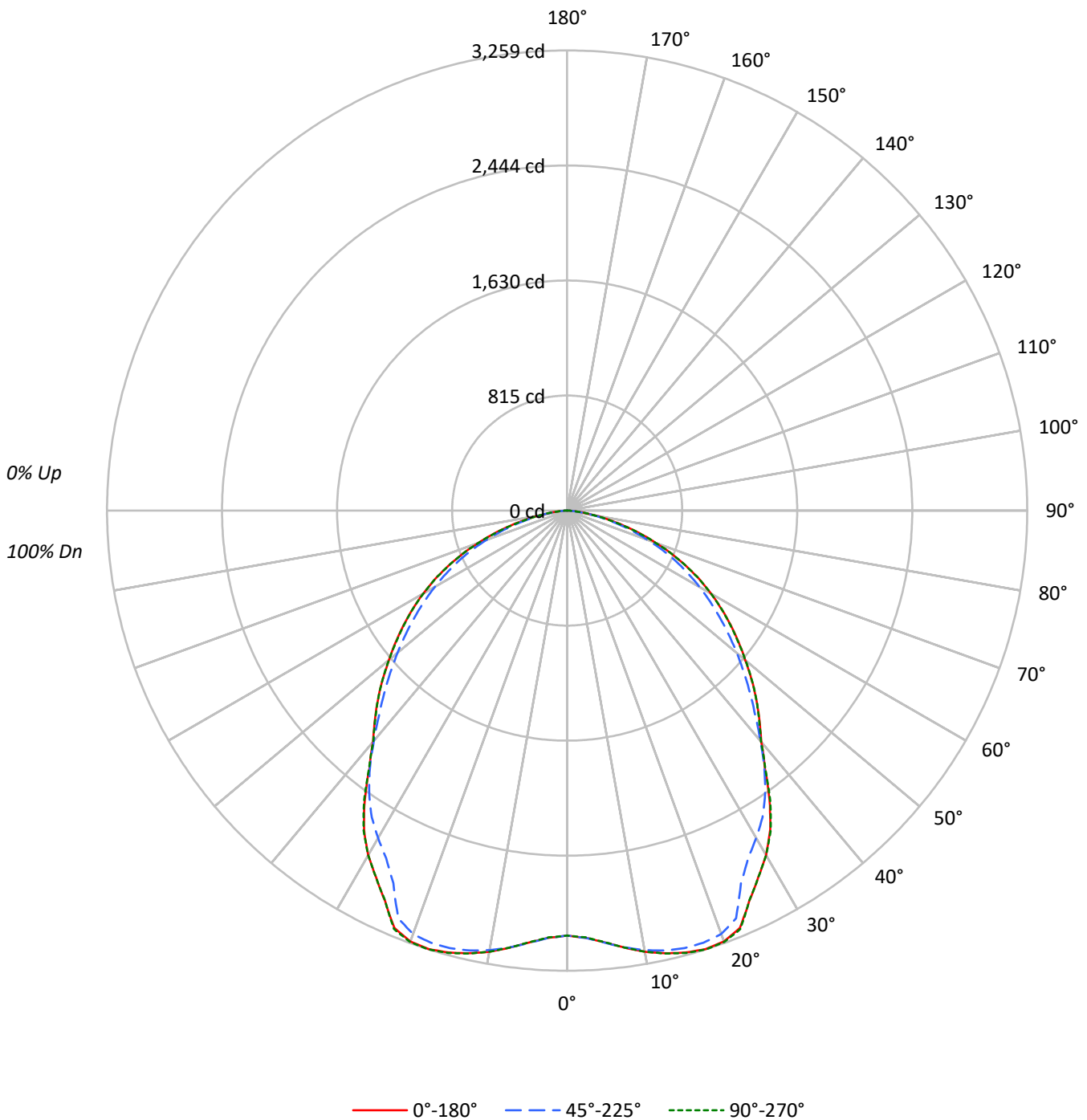
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	32595	32595	32595
5°	33372	33394	33350
10°	34891	34759	34880
15°	36324	35965	36357
20°	37418	36773	37476
25°	36467	34794	36443
30°	35225	33487	35237
35°	33037	32323	33142
40°	30238	30097	30196
45°	29037	28072	29037
50°	27731	26417	27765
55°	26676	24883	26601
60°	25512	23477	25512
65°	23829	21779	23829
70°	21150	19313	21150
75°	17530	15857	17279
80°	12659	11599	12410
85°	7579	6958	7330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.3	3.6
10°-20°	912.5	11.1
20°-30°	1378.1	16.8
30°-40°	1504.6	18.3
40°-50°	1468.4	17.9
50°-60°	1261.4	15.3
60°-70°	891.7	10.8
70°-80°	431.4	5.2
80°-90°	80.5	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°	2587.0	31.5
0°-40°	4091.6	49.7
0°-60°	6821.5	82.9
0°-90°	8225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	3070	3072	3072	3071	3068	296
15°	3240	3234	3208	3235	3243	917
25°	3052	3061	2912	3062	3050	1407
35°	2499	2370	2445	2364	2507	1555
45°	1896	1933	1833	1927	1896	1462
55°	1413	1430	1318	1426	1409	1264
65°	930	900	850	900	930	917
75°	419	398	379	398	413	448
85°	61	58	56	56	59	83
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°	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1
2.5°	3028.1	3027.1	3026.1	3027.1	3029.1	3029.1	3029.1	3028.1	3028.1	3029.1	3028.1
5°	3070.1	3068.1	3069.1	3068.1	3072.1	3071.1	3071.1	3072.1	3072.1	3072.1	3071.1
7.5°	3122.1	3120.1	3120.1	3120.1	3121.1	3121.1	3121.1	3121.1	3120.1	3120.1	3120.1
10°	3173.1	3170.1	3171.1	3170.1	3171.1	3169.1	3167.1	3165.1	3163.1	3161.1	3162.1
12.5°	3211.1	3210.1	3212.1	3212.1	3210.1	3207.1	3202.1	3197.1	3193.1	3191.1	3193.1
15°	3240.1	3242.1	3243.1	3242.1	3238.1	3230.1	3224.1	3216.1	3211.1	3208.1	3211.1
17.5°	3256.1	3256.1	3254.1	3248.1	3241.1	3234.1	3225.1	3217.1	3212.1	3209.1	3213.1
20°	3247.1	3246.1	3239.1	3230.1	3219.1	3210.1	3202.1	3195.1	3192.1	3191.1	3193.1
22.5°	3198.1	3200.1	3196.1	3190.1	3182.1	3169.1	3154.1	3140.1	3129.1	3125.1	3129.1
25°	3052.1	3051.1	3058.1	3070.1	3078.1	3043.1	2996.1	2951.1	2920.1	2912.1	2920.1
27.5°	2930.1	2929.1	2913.1	2878.1	2837.1	2805.1	2796.1	2791.1	2780.1	2775.1	2782.1
30°	2817.1	2807.1	2750.1	2677.1	2625.1	2612.1	2632.1	2659.1	2674.1	2678.1	2671.1
32.5°	2678.1	2651.1	2574.1	2510.1	2487.1	2477.1	2484.1	2519.1	2555.1	2575.1	2553.1
35°	2499.1	2476.1	2415.1	2380.1	2375.1	2364.1	2355.1	2376.1	2420.1	2445.1	2415.1
37.5°	2301.1	2312.1	2286.1	2268.1	2268.1	2257.1	2239.1	2246.1	2271.1	2295.1	2269.1
40°	2139.1	2159.1	2165.1	2160.1	2158.1	2144.1	2127.1	2123.1	2124.1	2129.1	2121.1
42.5°	2015.1	2018.1	2045.1	2054.1	2046.1	2031.1	2021.1	2015.1	1986.1	1973.1	1990.1
45°	1896.1	1898.1	1920.1	1946.1	1941.1	1925.1	1917.1	1898.1	1847.1	1833.1	1851.1
47.5°	1772.1	1783.1	1799.1	1826.1	1831.1	1815.1	1804.1	1771.1	1710.1	1698.1	1711.1
50°	1646.1	1667.1	1686.1	1699.1	1706.1	1692.1	1680.1	1641.1	1582.1	1568.1	1581.1
52.5°	1531.0	1550.1	1575.1	1571.1	1568.1	1565.1	1557.1	1517.0	1461.0	1442.0	1460.0
55°	1413.0	1432.0	1457.0	1440.0	1427.0	1432.0	1423.0	1390.0	1342.0	1318.0	1342.0
57.5°	1296.0	1311.0	1331.0	1310.0	1291.0	1297.0	1291.0	1268.0	1223.0	1200.0	1223.0
60°	1178.0	1187.0	1201.0	1179.0	1159.0	1163.0	1161.0	1137.0	1102.0	1084.0	1102.0
62.5°	1057.0	1062.0	1069.0	1048.0	1031.0	1030.0	1031.0	1007.0	980.0	968.0	981.0
65°	930.0	932.0	936.0	915.0	903.0	898.0	900.0	878.0	858.0	850.0	859.0
67.5°	800.0	802.0	803.0	783.0	775.0	768.0	769.0	753.0	735.0	730.0	737.0
70°	668.0	671.0	671.0	653.0	648.0	639.0	639.0	629.0	614.0	610.0	615.0
72.5°	544.0	542.0	542.0	527.0	523.0	514.0	513.0	510.0	496.0	492.0	497.0
75°	419.0	417.0	418.0	406.0	402.0	395.0	394.0	394.0	383.0	379.0	384.0
77.5°	303.0	305.0	304.0	295.0	291.0	288.0	291.0	291.0	281.0	277.0	282.0
80°	203.0	205.0	205.0	198.0	195.0	193.0	197.0	195.0	190.0	186.0	190.0
82.5°	123.0	123.0	123.0	121.0	117.0	117.0	120.0	120.0	115.0	112.0	115.0
85°	61.0	61.0	60.0	60.0	58.0	58.0	60.0	60.0	57.0	56.0	57.0
87.5°	21.0	20.0	20.0	20.0	19.0	20.0	20.0	20.0	19.0	19.0	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P130673

CATALOG NUMBER: TBLED-LD1-8-M-UNV-L840-CD1-CG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1	3010.1
2.5°	3029.1	3029.1	3028.1	3028.1	3028.1	3027.1	3026.1	3025.1
5°	3073.1	3072.1	3070.1	3071.1	3070.1	3070.1	3069.1	3068.1
7.5°	3122.1	3123.1	3121.1	3123.1	3123.1	3123.1	3122.1	3121.1
10°	3165.1	3168.1	3169.1	3172.1	3173.1	3174.1	3173.1	3172.1
12.5°	3198.1	3203.1	3207.1	3212.1	3215.1	3216.1	3214.1	3213.1
15°	3217.1	3224.1	3231.1	3239.1	3244.1	3246.1	3245.1	3243.1
17.5°	3218.1	3226.1	3235.1	3242.1	3249.1	3254.1	3258.1	3259.1
20°	3196.1	3203.1	3211.1	3220.1	3231.1	3240.1	3249.1	3252.1
22.5°	3137.1	3154.1	3171.1	3180.1	3189.1	3195.1	3200.1	3207.1
25°	2944.1	2995.1	3050.1	3073.1	3069.1	3050.1	3047.1	3050.1
27.5°	2793.1	2799.1	2806.1	2833.1	2871.1	2906.1	2926.1	2930.1
30°	2658.1	2629.1	2607.1	2620.1	2670.1	2739.1	2801.1	2818.1
32.5°	2518.1	2480.1	2471.1	2480.1	2502.1	2559.1	2644.1	2683.1
35°	2369.1	2353.1	2360.1	2368.1	2373.1	2404.1	2467.1	2507.1
37.5°	2238.1	2236.1	2250.1	2260.1	2260.1	2272.1	2304.1	2305.1
40°	2115.1	2125.1	2136.1	2150.1	2153.1	2158.1	2150.1	2136.1
42.5°	2007.1	2018.1	2025.1	2039.1	2047.1	2036.1	2010.1	2012.1
45°	1894.1	1915.1	1919.1	1934.1	1940.1	1911.1	1891.1	1896.1
47.5°	1767.1	1802.1	1810.1	1826.1	1821.1	1793.1	1779.1	1773.1
50°	1636.1	1682.1	1689.1	1700.1	1694.1	1680.1	1662.1	1648.1
52.5°	1518.0	1555.1	1560.1	1564.1	1569.1	1572.1	1549.1	1527.0
55°	1392.0	1421.0	1428.0	1424.0	1438.0	1454.0	1431.0	1409.0
57.5°	1270.0	1290.0	1295.0	1288.0	1308.0	1329.0	1312.0	1295.0
60°	1140.0	1160.0	1161.0	1158.0	1178.0	1196.0	1189.0	1178.0
62.5°	1012.0	1030.0	1027.0	1030.0	1046.0	1069.0	1064.0	1057.0
65°	882.0	899.0	897.0	903.0	915.0	936.0	936.0	930.0
67.5°	758.0	768.0	767.0	775.0	784.0	804.0	806.0	800.0
70°	634.0	639.0	638.0	647.0	654.0	675.0	675.0	668.0
72.5°	514.0	517.0	513.0	525.0	528.0	546.0	546.0	538.0
75°	399.0	398.0	394.0	401.0	410.0	423.0	420.0	413.0
77.5°	292.0	289.0	285.0	293.0	298.0	308.0	305.0	298.0
80°	198.0	195.0	190.0	197.0	201.0	207.0	204.0	199.0
82.5°	121.0	118.0	114.0	119.0	121.0	125.0	123.0	119.0
85°	60.0	58.0	56.0	57.0	60.0	61.0	60.0	59.0
87.5°	20.0	19.0	18.0	19.0	19.0	20.0	20.0	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)