

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: P130740

Luminaire Tested: **TBLED-LD1-11-W-UNV-L850-CD1-CMS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130740
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-L850-CD1-CMS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION WITH MINI SENSOR.
Light Source: (160) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10830.3 lumens
Efficiency: N/A
Efficacy: 100.3 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

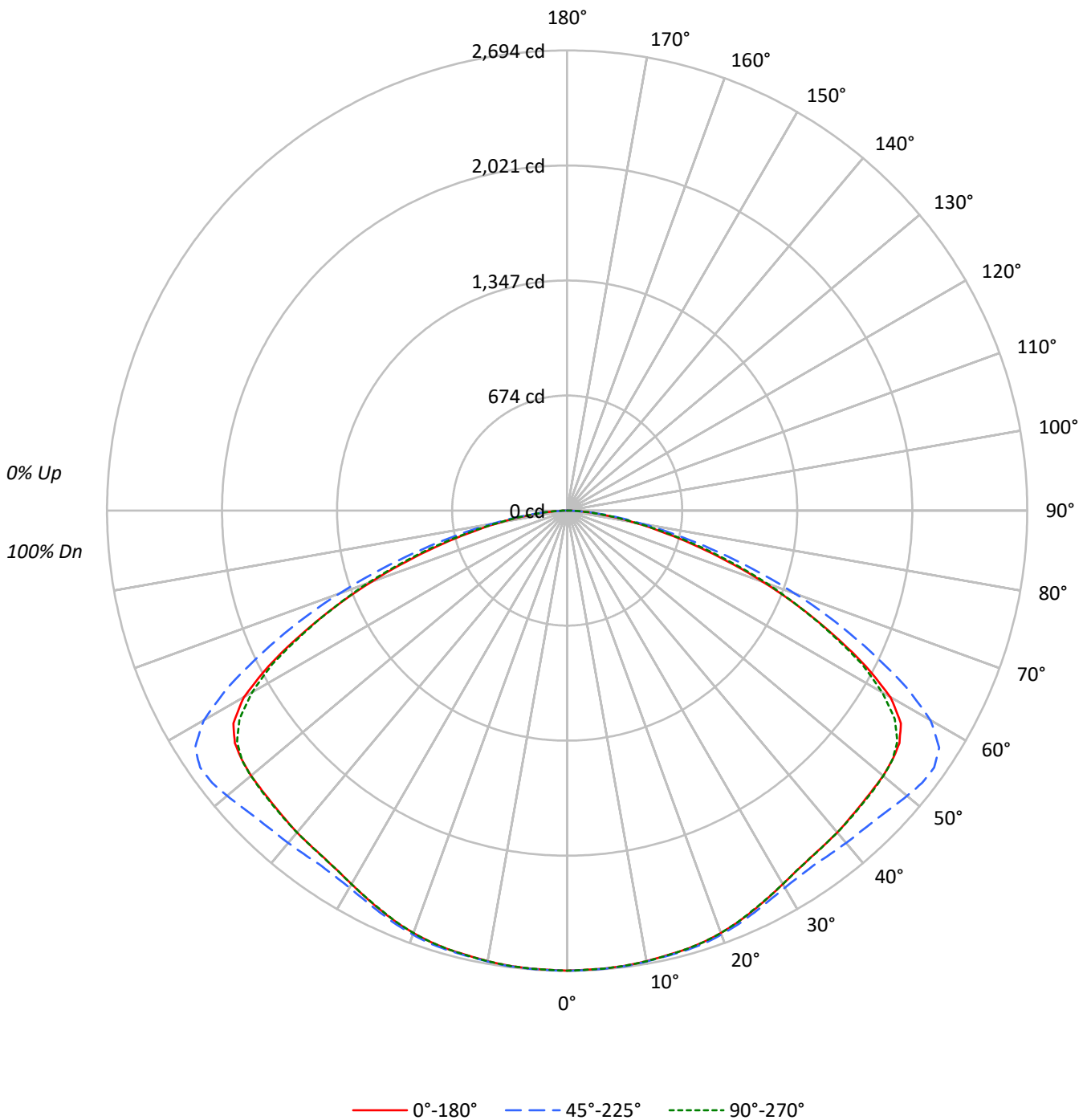
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	29170	29170	29170
5°	29236	29251	29236
10°	29450	29481	29450
15°	29837	29900	29837
20°	30329	30443	30329
25°	30842	31009	30825
30°	31572	31871	31572
35°	32803	33434	32821
40°	34778	35912	34778
45°	37268	39164	37333
50°	40689	43770	40713
55°	44829	49530	44536
60°	47343	53223	46124
65°	44046	50426	43684
70°	38658	44936	39282
75°	31605	36726	32839
80°	24651	27981	25175
85°	17481	19395	17829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	2.4
10°-20°	754.1	7.0
20°-30°	1196.9	11.1
30°-40°	1577.5	14.6
40°-50°	1936.7	17.9
50°-60°	2210.7	20.4
60°-70°	1818.7	16.8
70°-80°	892.4	8.2
80°-90°	186.8	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°	2207.4	20.4
0°-40°	3785.0	34.9
0°-60°	7932.3	73.2
0°-90°	10830.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10830.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2694	2694	2694	2694	2694	
5°	2690	2691	2691	2691	2690	256
15°	2662	2664	2667	2665	2662	753
25°	2581	2590	2595	2590	2580	1193
35°	2481	2507	2529	2507	2483	1561
45°	2434	2496	2557	2501	2438	1886
55°	2374	2508	2624	2500	2359	2105
65°	1719	1855	1968	1853	1705	1697
75°	755	829	878	838	785	817
85°	141	153	156	151	144	173
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°	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8
2.5°	2691.0	2691.0	2691.0	2691.0	2692.4	2692.4	2692.4	2692.4	2692.4	2692.4	2691.0
5°	2689.6	2689.6	2689.6	2689.6	2691.0	2691.0	2691.0	2691.0	2691.0	2691.0	2691.0
7.5°	2685.4	2685.4	2686.8	2686.8	2686.8	2686.8	2686.8	2688.2	2688.2	2688.2	2688.2
10°	2678.3	2678.3	2678.3	2678.3	2679.7	2679.7	2681.1	2681.1	2681.1	2681.1	2681.1
12.5°	2668.5	2668.5	2669.9	2669.9	2669.9	2671.3	2672.7	2672.7	2672.7	2672.7	2672.7
15°	2661.5	2661.5	2661.5	2662.9	2662.9	2664.3	2665.7	2665.7	2667.1	2667.1	2667.1
17.5°	2650.2	2651.6	2651.6	2651.6	2653.0	2654.4	2657.2	2657.2	2658.6	2658.6	2658.6
20°	2631.9	2631.9	2633.3	2634.7	2636.1	2637.5	2640.4	2641.8	2641.8	2641.8	2643.2
22.5°	2609.4	2609.4	2610.8	2612.2	2615.0	2616.4	2619.3	2620.7	2620.7	2620.7	2620.7
25°	2581.3	2582.7	2584.1	2585.5	2588.3	2591.1	2593.9	2596.7	2596.7	2595.3	2596.7
27.5°	2553.1	2554.5	2556.0	2558.8	2561.6	2564.4	2567.2	2570.0	2570.0	2570.0	2571.4
30°	2525.0	2526.4	2529.2	2532.0	2536.3	2539.1	2543.3	2547.5	2548.9	2548.9	2547.5
32.5°	2499.7	2501.1	2505.3	2509.5	2515.2	2520.8	2526.4	2530.6	2534.9	2534.9	2532.0
35°	2481.4	2482.8	2488.4	2495.5	2503.9	2510.9	2518.0	2523.6	2529.2	2529.2	2527.8
37.5°	2470.1	2471.6	2478.6	2487.0	2499.7	2509.5	2519.4	2526.4	2532.0	2533.4	2532.0
40°	2460.3	2461.7	2470.1	2481.4	2495.5	2509.5	2522.2	2532.0	2537.7	2540.5	2540.5
42.5°	2446.2	2449.0	2457.5	2473.0	2489.8	2506.7	2522.2	2536.3	2543.3	2546.1	2544.7
45°	2433.6	2436.4	2447.6	2465.9	2485.6	2506.7	2526.4	2543.3	2553.1	2557.4	2554.5
47.5°	2423.7	2427.9	2442.0	2463.1	2487.0	2513.8	2537.7	2557.4	2570.0	2575.6	2571.4
50°	2415.3	2420.9	2436.4	2461.7	2492.7	2526.4	2554.5	2577.1	2592.5	2598.2	2593.9
52.5°	2399.8	2409.7	2427.9	2458.9	2496.9	2534.9	2568.6	2595.3	2613.6	2619.3	2613.6
55°	2374.5	2384.3	2405.4	2440.6	2487.0	2529.2	2570.0	2599.6	2616.4	2623.5	2615.0
57.5°	2316.8	2326.7	2347.8	2388.6	2435.0	2482.8	2525.0	2557.4	2578.5	2582.7	2565.8
60°	2186.0	2193.0	2225.4	2266.2	2311.2	2357.6	2401.2	2437.8	2456.1	2457.5	2433.6
62.5°	1969.4	1980.6	2013.0	2056.6	2098.8	2136.8	2177.6	2215.5	2229.6	2235.2	2216.9
65°	1719.0	1734.4	1758.4	1797.7	1839.9	1870.9	1915.9	1948.3	1962.3	1968.0	1960.9
67.5°	1470.0	1484.1	1496.7	1534.7	1572.7	1602.2	1645.8	1675.4	1686.6	1695.1	1690.8
70°	1221.0	1233.7	1244.9	1275.9	1305.4	1343.4	1368.7	1396.8	1403.9	1419.3	1412.3
72.5°	979.1	988.9	1000.2	1029.7	1048.0	1088.8	1100.0	1123.9	1136.6	1140.8	1133.8
75°	755.4	762.4	775.1	799.0	813.1	844.0	848.2	869.3	877.8	877.8	875.0
77.5°	559.9	565.5	579.6	593.6	607.7	628.8	624.6	638.6	644.3	647.1	644.3
80°	395.3	402.3	405.1	416.4	429.0	437.5	434.7	441.7	443.1	448.7	447.3
82.5°	253.2	260.2	256.0	263.1	271.5	277.1	278.5	278.5	278.5	282.7	281.3
85°	140.7	146.3	143.5	146.3	150.5	154.7	151.9	153.3	154.7	156.1	154.7
87.5°	46.4	52.0	47.8	49.2	52.0	54.9	56.3	52.0	54.9	54.9	54.9
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°	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8	2693.8
2.5°	2691.0	2691.0	2691.0	2691.0	2691.0	2691.0	2691.0	2691.0
5°	2691.0	2691.0	2691.0	2691.0	2689.6	2689.6	2689.6	2689.6
7.5°	2686.8	2686.8	2686.8	2686.8	2685.4	2685.4	2685.4	2685.4
10°	2679.7	2679.7	2679.7	2678.3	2678.3	2678.3	2678.3	2678.3
12.5°	2672.7	2671.3	2671.3	2671.3	2671.3	2669.9	2669.9	2669.9
15°	2667.1	2665.7	2665.7	2664.3	2662.9	2662.9	2661.5	2661.5
17.5°	2657.2	2657.2	2655.8	2654.4	2653.0	2651.6	2651.6	2650.2
20°	2641.8	2640.4	2637.5	2636.1	2636.1	2634.7	2633.3	2631.9
22.5°	2619.3	2617.8	2616.4	2613.6	2612.2	2610.8	2609.4	2608.0
25°	2593.9	2592.5	2591.1	2588.3	2586.9	2584.1	2582.7	2579.9
27.5°	2568.6	2568.6	2564.4	2561.6	2558.8	2556.0	2554.5	2551.7
30°	2546.1	2544.7	2541.9	2536.3	2533.4	2529.2	2526.4	2525.0
32.5°	2529.2	2527.8	2522.2	2515.2	2509.5	2503.9	2502.5	2499.7
35°	2525.0	2519.4	2510.9	2502.5	2495.5	2488.4	2484.2	2482.8
37.5°	2529.2	2519.4	2509.5	2498.3	2488.4	2478.6	2473.0	2470.1
40°	2533.4	2523.6	2512.3	2496.9	2482.8	2471.6	2464.5	2460.3
42.5°	2536.3	2525.0	2510.9	2492.7	2475.8	2461.7	2453.3	2449.0
45°	2543.3	2530.6	2512.3	2489.8	2468.7	2453.3	2443.4	2437.8
47.5°	2558.8	2540.5	2518.0	2491.2	2465.9	2444.8	2433.6	2427.9
50°	2578.5	2556.0	2527.8	2495.5	2464.5	2437.8	2423.7	2416.7
52.5°	2596.7	2570.0	2536.3	2498.3	2458.9	2427.9	2406.8	2399.8
55°	2596.7	2564.4	2522.2	2478.6	2433.6	2397.0	2368.9	2359.0
57.5°	2541.9	2506.7	2454.7	2406.8	2357.6	2314.0	2284.5	2274.6
60°	2401.2	2370.3	2309.8	2263.4	2208.5	2160.7	2138.2	2129.7
62.5°	2186.0	2163.5	2108.6	2067.8	2008.8	1970.8	1944.0	1945.4
65°	1935.6	1915.9	1870.9	1834.3	1780.9	1751.3	1724.6	1704.9
67.5°	1672.6	1650.0	1613.5	1581.1	1537.5	1516.4	1486.9	1468.6
70°	1396.8	1380.0	1346.2	1323.7	1287.1	1268.8	1240.7	1240.7
72.5°	1121.1	1112.7	1088.8	1069.1	1040.9	1024.1	1001.6	1005.8
75°	865.1	869.3	845.4	831.4	808.8	794.8	777.9	784.9
77.5°	648.5	642.9	626.0	617.5	597.8	592.2	575.3	581.0
80°	448.7	447.3	433.3	427.6	416.4	413.6	399.5	403.7
82.5°	282.7	282.7	277.1	271.5	267.3	264.5	254.6	257.4
85°	156.1	154.7	153.3	149.1	146.3	147.7	140.7	143.5
87.5°	54.9	53.5	53.5	50.6	47.8	52.0	46.4	47.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)