

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: P130644

Luminaire Tested: **TBLED-LD1-6-M-UNV-L850-CD1-DOS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130644
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25346)
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-L850-CD1-DOS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
MEDIUM DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR.
Light Source: (160) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6125.3 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.33
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

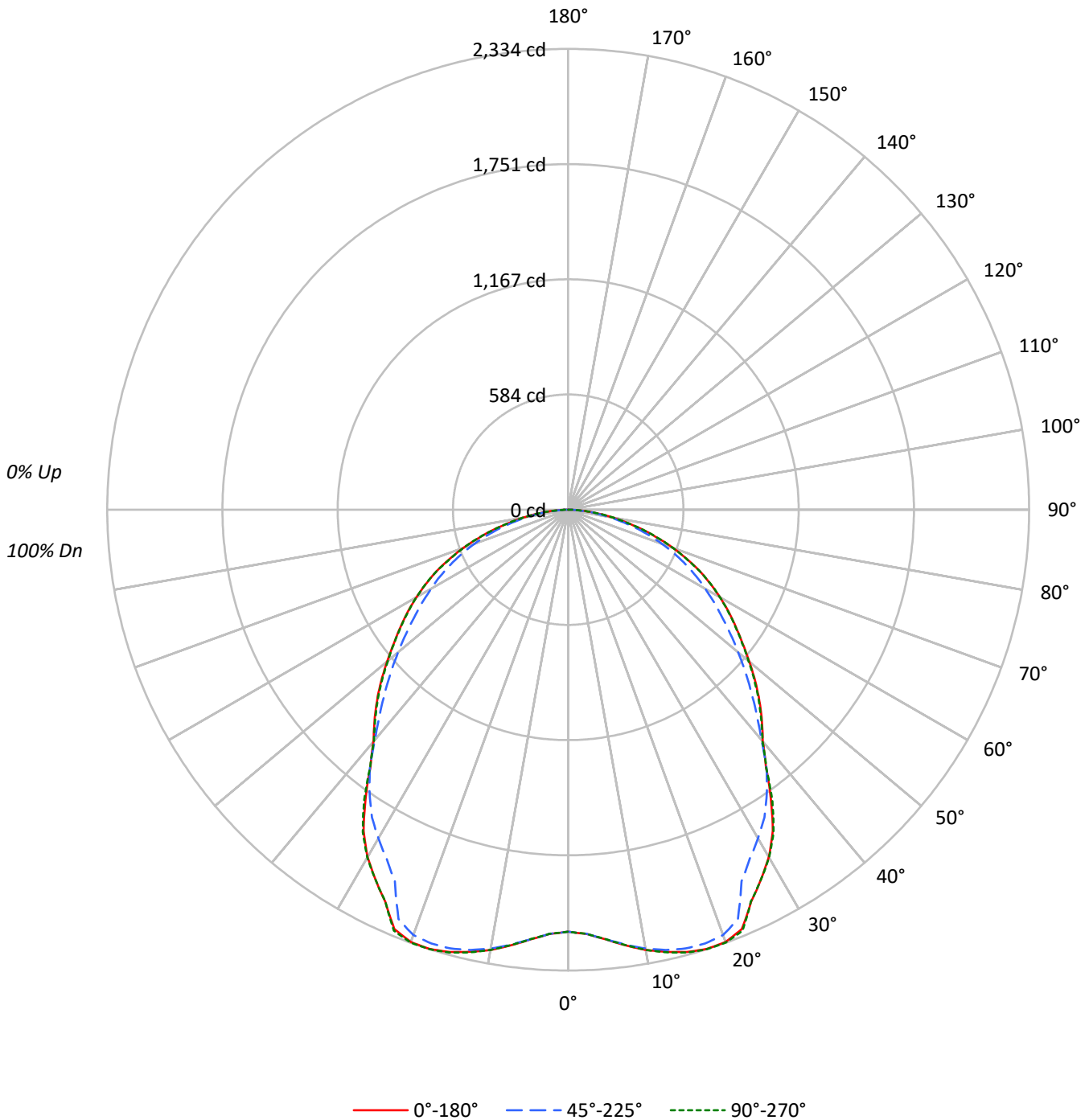
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	54	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23138	23138	23138
5°	23742	23742	23734
10°	24894	24812	24894
15°	25998	25795	26031
20°	26854	26419	26888
25°	26187	24810	26159
30°	25408	24034	25437
35°	23656	23179	23825
40°	21666	21506	21633
45°	20968	20104	20899
50°	20162	18944	20086
55°	19565	17986	19523
60°	19214	17356	19214
65°	18815	16829	18758
70°	17860	16001	17838
75°	16259	14715	16321
80°	14231	12915	14280
85°	12350	10760	12350



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.0	3.4
10°-20°	654.0	10.7
20°-30°	988.9	16.1
30°-40°	1079.5	17.6
40°-50°	1059.7	17.3
50°-60°	927.7	15.1
60°-70°	697.1	11.4
70°-80°	398.6	6.5
80°-90°	108.7	1.8
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°	1853.9	30.3
0°-40°	2933.4	47.9
0°-60°	4920.9	80.3
0°-90°	6125.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6125.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2137	2137	2137	2137	2137	
5°	2184	2185	2184	2184	2183	211
15°	2319	2317	2301	2318	2322	656
25°	2192	2195	2076	2194	2189	1012
35°	1790	1702	1753	1695	1802	1116
45°	1369	1397	1313	1388	1365	1056
55°	1036	1053	953	1049	1034	929
65°	734	706	657	705	732	722
75°	389	374	352	374	390	413
85°	99	93	87	94	99	111
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°	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7
2.5°	2151.0	2149.5	2150.3	2149.5	2151.0	2151.0	2150.3	2151.0	2150.3	2150.3	2150.3
5°	2184.2	2182.7	2183.4	2181.9	2184.2	2184.9	2184.2	2184.9	2184.9	2184.2	2184.2
7.5°	2225.6	2222.6	2223.3	2221.8	2224.1	2224.1	2223.3	2223.3	2222.6	2221.8	2222.6
10°	2264.0	2262.5	2262.5	2261.7	2263.2	2262.5	2261.0	2260.2	2257.2	2256.5	2258.0
12.5°	2293.4	2294.9	2297.1	2297.1	2296.4	2295.6	2291.9	2289.6	2285.1	2284.3	2285.8
15°	2319.0	2319.7	2322.0	2321.2	2319.0	2315.2	2311.4	2306.9	2303.2	2300.9	2303.2
17.5°	2332.5	2332.5	2331.8	2329.5	2325.0	2320.5	2315.2	2310.7	2306.9	2303.9	2306.9
20°	2330.3	2330.3	2326.5	2322.0	2314.5	2307.7	2302.4	2297.9	2294.1	2292.6	2294.9
22.5°	2298.6	2300.9	2297.9	2297.1	2291.1	2282.1	2271.5	2260.2	2248.2	2244.4	2249.7
25°	2191.7	2190.2	2191.7	2206.0	2209.8	2179.6	2141.2	2105.8	2084.7	2076.5	2087.8
27.5°	2112.6	2111.1	2092.3	2062.1	2020.7	2001.1	2004.2	2001.1	1995.9	1992.1	1997.4
30°	2032.0	2020.7	1969.5	1914.5	1874.6	1868.6	1885.9	1907.8	1921.3	1922.1	1919.8
32.5°	1928.1	1905.5	1839.2	1797.0	1780.5	1777.5	1782.7	1805.3	1836.2	1848.3	1832.4
35°	1789.5	1776.7	1736.0	1708.9	1703.6	1699.9	1690.8	1702.1	1740.5	1753.4	1739.0
37.5°	1645.7	1657.7	1640.4	1630.6	1629.8	1622.3	1609.5	1611.0	1631.3	1649.4	1629.1
40°	1532.7	1544.7	1556.0	1555.3	1552.3	1541.0	1531.2	1525.9	1524.4	1521.4	1525.9
42.5°	1452.1	1447.6	1469.4	1481.5	1473.9	1466.4	1458.1	1454.3	1426.5	1413.7	1430.2
45°	1369.2	1367.7	1382.8	1408.4	1402.4	1391.8	1389.6	1374.5	1327.1	1312.8	1330.8
47.5°	1284.1	1290.2	1303.7	1324.8	1328.6	1319.5	1312.8	1281.9	1233.7	1216.4	1232.9
50°	1196.8	1210.3	1229.2	1237.4	1241.2	1235.9	1231.4	1191.5	1142.5	1124.5	1143.3
52.5°	1113.2	1132.0	1156.9	1150.1	1147.1	1149.3	1141.8	1105.6	1058.2	1036.3	1058.9
55°	1036.3	1054.4	1076.3	1062.7	1048.4	1056.7	1049.9	1021.3	979.9	952.7	978.4
57.5°	964.0	975.3	992.7	974.6	958.0	967.8	961.0	938.4	900.0	876.7	901.5
60°	887.2	896.3	906.0	888.7	871.4	876.7	873.7	853.3	821.7	801.4	820.2
62.5°	810.4	814.9	821.7	802.9	788.6	788.6	787.1	767.5	742.6	731.3	741.9
65°	734.3	733.6	735.8	717.0	706.5	705.0	701.9	683.9	664.3	656.8	665.0
67.5°	648.5	650.0	650.7	633.4	625.1	621.4	619.1	602.5	586.7	581.4	587.5
70°	564.1	564.9	564.9	549.1	543.0	537.0	534.7	521.9	509.1	505.4	510.6
72.5°	475.2	480.5	478.3	465.5	460.9	453.4	451.9	443.6	433.8	428.5	433.8
75°	388.6	396.2	393.9	382.6	377.3	369.8	370.6	366.0	355.5	351.7	357.0
77.5°	305.0	309.5	310.3	304.3	296.0	290.7	293.0	292.2	284.7	275.7	282.4
80°	228.2	233.5	234.2	229.0	222.2	217.7	220.7	220.7	214.7	207.1	213.1
82.5°	158.9	162.7	162.7	159.7	156.7	152.1	153.6	154.4	150.6	143.1	148.4
85°	99.4	100.2	98.7	96.4	94.1	92.6	92.6	94.1	91.1	86.6	90.4
87.5°	36.9	37.7	36.9	39.2	36.9	36.2	36.9	39.2	36.2	36.2	36.9
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°	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7	2136.7
2.5°	2150.3	2151.0	2151.0	2150.3	2150.3	2150.3	2149.5	2150.3
5°	2184.2	2184.9	2184.9	2183.4	2184.2	2183.4	2182.7	2183.4
7.5°	2223.3	2224.8	2224.1	2224.8	2225.6	2224.1	2224.1	2224.1
10°	2259.5	2261.7	2263.2	2264.7	2265.5	2264.0	2264.7	2264.0
12.5°	2288.8	2293.4	2296.4	2297.9	2299.4	2299.4	2297.9	2296.4
15°	2306.9	2312.2	2316.0	2320.5	2323.5	2324.2	2322.7	2322.0
17.5°	2311.4	2316.0	2321.2	2325.8	2330.3	2333.3	2334.8	2334.0
20°	2298.6	2302.4	2308.4	2315.2	2321.2	2327.3	2331.8	2333.3
22.5°	2261.7	2272.3	2283.6	2291.9	2297.1	2300.1	2302.4	2307.7
25°	2110.4	2138.2	2178.9	2209.8	2204.5	2190.2	2184.9	2189.4
27.5°	2002.6	1999.6	1995.1	2019.2	2056.9	2090.0	2105.8	2113.4
30°	1906.2	1883.6	1862.6	1870.8	1909.3	1966.5	2014.7	2034.3
32.5°	1805.3	1774.4	1771.4	1776.7	1794.8	1833.2	1898.7	1935.6
35°	1699.1	1682.6	1691.6	1698.4	1704.4	1724.0	1769.2	1802.3
37.5°	1604.2	1601.2	1613.3	1621.6	1624.6	1634.4	1651.7	1647.2
40°	1520.6	1522.9	1533.4	1542.5	1548.5	1549.2	1538.7	1530.4
42.5°	1445.3	1455.1	1455.1	1466.4	1476.9	1462.6	1440.8	1446.8
45°	1368.5	1384.3	1383.6	1393.3	1403.1	1378.3	1360.2	1364.7
47.5°	1278.1	1308.2	1312.8	1323.3	1323.3	1297.7	1283.4	1278.1
50°	1186.2	1225.4	1230.7	1236.7	1233.7	1223.9	1205.1	1192.3
52.5°	1101.1	1138.0	1143.3	1141.0	1147.1	1151.6	1126.0	1110.2
55°	1017.5	1046.1	1052.9	1045.4	1059.7	1072.5	1048.4	1034.1
57.5°	934.7	956.5	962.5	956.5	972.3	986.6	970.8	961.0
60°	851.1	870.7	874.4	869.1	888.0	900.8	893.2	887.2
62.5°	769.0	782.5	786.3	788.6	799.9	814.9	813.4	812.7
65°	686.1	700.4	701.9	708.7	716.3	735.8	732.1	732.1
67.5°	605.5	615.3	617.6	628.1	631.1	650.0	647.7	644.7
70°	521.9	531.7	534.7	545.3	549.8	564.9	565.6	563.4
72.5°	445.1	448.9	451.9	461.7	465.5	479.8	479.8	476.7
75°	366.8	366.0	369.0	378.8	382.6	394.7	393.9	390.1
77.5°	293.0	289.2	291.5	298.3	302.8	311.8	308.8	305.8
80°	223.7	217.7	218.4	225.2	228.2	234.2	231.2	229.0
82.5°	158.2	152.9	151.4	156.7	161.2	161.9	161.2	159.7
85°	96.4	91.9	92.6	94.9	97.9	97.9	99.4	99.4
87.5°	37.7	35.4	35.4	37.7	37.7	38.4	37.7	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)