

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: P130725

Luminaire Tested: **TBLED-LD1-6-W-UNV-L850-CD1-DIMRF-LW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130725
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-LD1-6-W-UNV-L850-CD1-DIMRF-LW
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION WITH LUMAWATT WIRELESS SENSOR.
Light Source: (160) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5632.2 lumens
Efficiency: N/A
Efficacy: 110.4 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

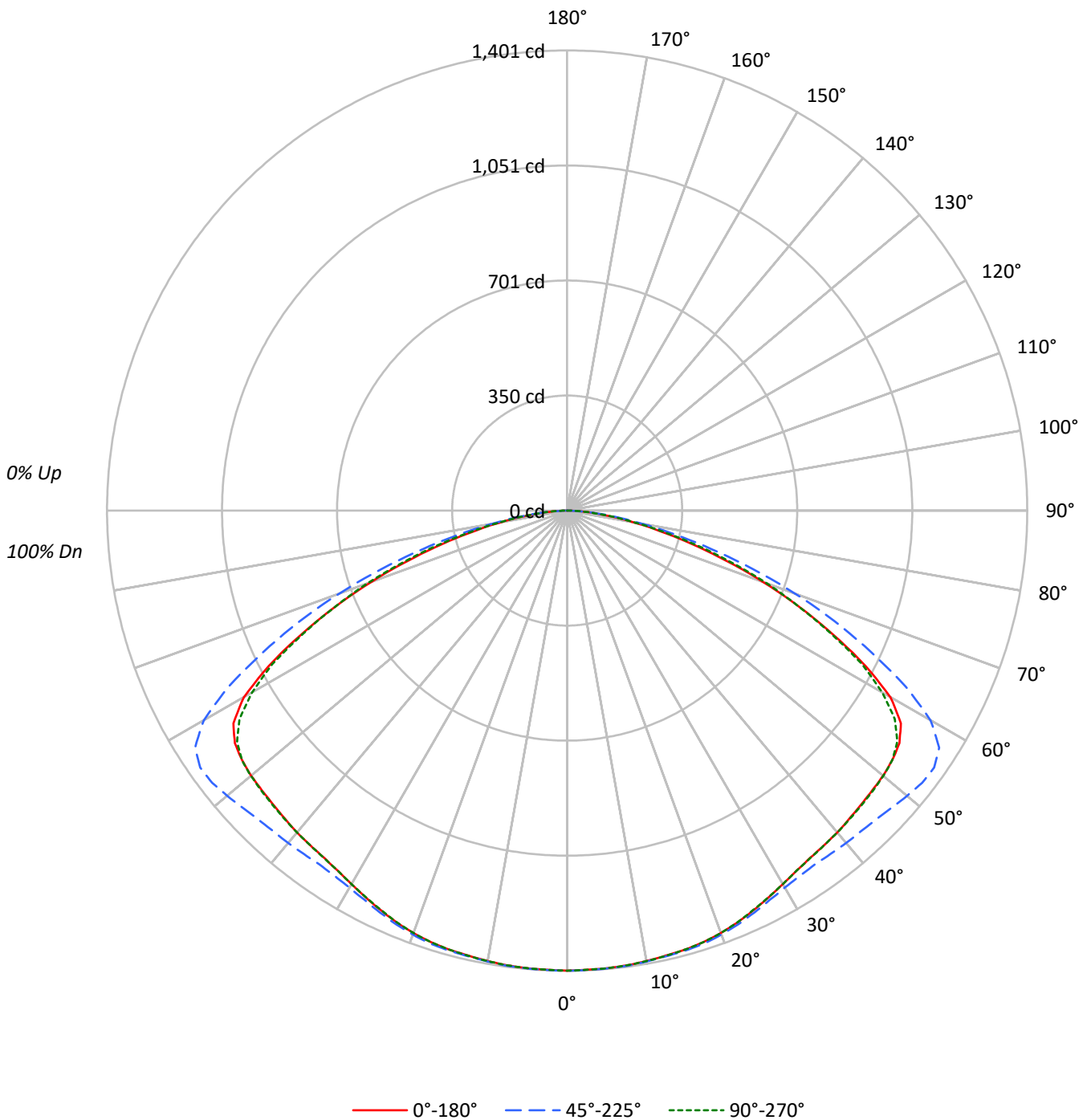
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	15170	15170	15170
5°	15204	15212	15204
10°	15315	15331	15315
15°	15517	15549	15517
20°	15772	15831	15772
25°	16039	16126	16030
30°	16419	16574	16419
35°	17058	17387	17069
40°	18087	18676	18087
45°	19381	20366	19415
50°	21159	22761	21173
55°	23312	25757	23161
60°	24620	27678	23986
65°	22904	26222	22717
70°	20105	23369	20428
75°	16434	19099	17079
80°	12821	14555	13096
85°	9095	10089	9269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	2.4
10°-20°	392.1	7.0
20°-30°	622.4	11.1
30°-40°	820.4	14.6
40°-50°	1007.2	17.9
50°-60°	1149.7	20.4
60°-70°	945.8	16.8
70°-80°	464.1	8.2
80°-90°	97.1	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°	1148.0	20.4
0°-40°	1968.3	34.9
0°-60°	4125.2	73.2
0°-90°	5632.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5632.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1399	1399	1399	1399	1399	133
15°	1384	1385	1387	1386	1384	392
25°	1342	1347	1350	1347	1342	620
35°	1290	1304	1315	1304	1291	812
45°	1266	1298	1330	1301	1268	981
55°	1235	1304	1364	1300	1227	1095
65°	894	965	1023	963	887	882
75°	393	431	456	436	408	425
85°	73	79	81	79	75	90
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°	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9
2.5°	1399.4	1399.4	1399.4	1399.4	1400.2	1400.2	1400.2	1400.2	1400.2	1400.2	1399.4
5°	1398.7	1398.7	1398.7	1398.7	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4
7.5°	1396.5	1396.5	1397.2	1397.2	1397.2	1397.2	1397.2	1398.0	1398.0	1398.0	1398.0
10°	1392.8	1392.8	1392.8	1392.8	1393.6	1393.6	1394.3	1394.3	1394.3	1394.3	1394.3
12.5°	1387.7	1387.7	1388.5	1388.5	1388.5	1389.2	1389.9	1389.9	1389.9	1389.9	1389.9
15°	1384.1	1384.1	1384.1	1384.8	1384.8	1385.5	1386.3	1386.3	1387.0	1387.0	1387.0
17.5°	1378.2	1378.9	1378.9	1378.9	1379.7	1380.4	1381.9	1381.9	1382.6	1382.6	1382.6
20°	1368.7	1368.7	1369.4	1370.2	1370.9	1371.6	1373.1	1373.8	1373.8	1373.8	1374.6
22.5°	1357.0	1357.0	1357.7	1358.5	1359.9	1360.7	1362.1	1362.9	1362.9	1362.9	1362.9
25°	1342.4	1343.1	1343.8	1344.6	1346.0	1347.5	1349.0	1350.4	1350.4	1349.7	1350.4
27.5°	1327.7	1328.5	1329.2	1330.7	1332.1	1333.6	1335.1	1336.5	1336.5	1336.5	1337.3
30°	1313.1	1313.8	1315.3	1316.8	1319.0	1320.4	1322.6	1324.8	1325.5	1325.5	1324.8
32.5°	1299.9	1300.7	1302.9	1305.1	1308.0	1310.9	1313.8	1316.0	1318.2	1318.2	1316.8
35°	1290.4	1291.2	1294.1	1297.7	1302.1	1305.8	1309.5	1312.4	1315.3	1315.3	1314.6
37.5°	1284.6	1285.3	1289.0	1293.4	1299.9	1305.1	1310.2	1313.8	1316.8	1317.5	1316.8
40°	1279.5	1280.2	1284.6	1290.4	1297.7	1305.1	1311.6	1316.8	1319.7	1321.2	1321.2
42.5°	1272.1	1273.6	1278.0	1286.0	1294.8	1303.6	1311.6	1319.0	1322.6	1324.1	1323.4
45°	1265.6	1267.0	1272.9	1282.4	1292.6	1303.6	1313.8	1322.6	1327.7	1329.9	1328.5
47.5°	1260.4	1262.6	1269.9	1280.9	1293.4	1307.3	1319.7	1329.9	1336.5	1339.4	1337.3
50°	1256.0	1259.0	1267.0	1280.2	1296.3	1313.8	1328.5	1340.2	1348.2	1351.1	1349.0
52.5°	1248.0	1253.1	1262.6	1278.7	1298.5	1318.2	1335.8	1349.7	1359.2	1362.1	1359.2
55°	1234.8	1240.0	1250.9	1269.2	1293.4	1315.3	1336.5	1351.9	1360.7	1364.3	1359.9
57.5°	1204.8	1210.0	1220.9	1242.2	1266.3	1291.2	1313.1	1329.9	1340.9	1343.1	1334.3
60°	1136.8	1140.5	1157.3	1178.5	1201.9	1226.1	1248.7	1267.8	1277.3	1278.0	1265.6
62.5°	1024.2	1030.0	1046.8	1069.5	1091.5	1111.2	1132.4	1152.2	1159.5	1162.4	1152.9
65°	893.9	902.0	914.4	934.9	956.9	972.9	996.4	1013.2	1020.5	1023.4	1019.8
67.5°	764.5	771.8	778.4	798.1	817.9	833.2	855.9	871.3	877.1	881.5	879.3
70°	635.0	641.6	647.4	663.5	678.9	698.6	711.8	726.4	730.1	738.1	734.5
72.5°	509.1	514.3	520.1	535.5	545.0	566.2	572.1	584.5	591.1	593.3	589.6
75°	392.8	396.5	403.1	415.5	422.8	438.9	441.1	452.1	456.5	456.5	455.0
77.5°	291.2	294.1	301.4	308.7	316.0	327.0	324.8	332.1	335.0	336.5	335.0
80°	205.6	209.2	210.7	216.5	223.1	227.5	226.0	229.7	230.4	233.4	232.6
82.5°	131.7	135.3	133.1	136.8	141.2	144.1	144.8	144.8	144.8	147.0	146.3
85°	73.2	76.1	74.6	76.1	78.3	80.5	79.0	79.7	80.5	81.2	80.5
87.5°	24.1	27.1	24.9	25.6	27.1	28.5	29.3	27.1	28.5	28.5	28.5
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°	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9	1400.9
2.5°	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4	1399.4
5°	1399.4	1399.4	1399.4	1399.4	1398.7	1398.7	1398.7	1398.7
7.5°	1397.2	1397.2	1397.2	1397.2	1396.5	1396.5	1396.5	1396.5
10°	1393.6	1393.6	1393.6	1392.8	1392.8	1392.8	1392.8	1392.8
12.5°	1389.9	1389.2	1389.2	1389.2	1389.2	1388.5	1388.5	1388.5
15°	1387.0	1386.3	1386.3	1385.5	1384.8	1384.8	1384.1	1384.1
17.5°	1381.9	1381.9	1381.1	1380.4	1379.7	1378.9	1378.9	1378.2
20°	1373.8	1373.1	1371.6	1370.9	1370.9	1370.2	1369.4	1368.7
22.5°	1362.1	1361.4	1360.7	1359.2	1358.5	1357.7	1357.0	1356.3
25°	1349.0	1348.2	1347.5	1346.0	1345.3	1343.8	1343.1	1341.6
27.5°	1335.8	1335.8	1333.6	1332.1	1330.7	1329.2	1328.5	1327.0
30°	1324.1	1323.4	1321.9	1319.0	1317.5	1315.3	1313.8	1313.1
32.5°	1315.3	1314.6	1311.6	1308.0	1305.1	1302.1	1301.4	1299.9
35°	1313.1	1310.2	1305.8	1301.4	1297.7	1294.1	1291.9	1291.2
37.5°	1315.3	1310.2	1305.1	1299.2	1294.1	1289.0	1286.0	1284.6
40°	1317.5	1312.4	1306.5	1298.5	1291.2	1285.3	1281.7	1279.5
42.5°	1319.0	1313.1	1305.8	1296.3	1287.5	1280.2	1275.8	1273.6
45°	1322.6	1316.0	1306.5	1294.8	1283.8	1275.8	1270.7	1267.8
47.5°	1330.7	1321.2	1309.5	1295.6	1282.4	1271.4	1265.6	1262.6
50°	1340.9	1329.2	1314.6	1297.7	1281.7	1267.8	1260.4	1256.8
52.5°	1350.4	1336.5	1319.0	1299.2	1278.7	1262.6	1251.7	1248.0
55°	1350.4	1333.6	1311.6	1289.0	1265.6	1246.5	1231.9	1226.8
57.5°	1321.9	1303.6	1276.5	1251.7	1226.1	1203.4	1188.0	1182.9
60°	1248.7	1232.6	1201.2	1177.0	1148.5	1123.6	1111.9	1107.5
62.5°	1136.8	1125.1	1096.6	1075.4	1044.6	1024.9	1011.0	1011.7
65°	1006.6	996.4	972.9	953.9	926.1	910.8	896.9	886.6
67.5°	869.8	858.1	839.1	822.2	799.6	788.6	773.2	763.7
70°	726.4	717.6	700.1	688.4	669.4	659.8	645.2	645.2
72.5°	583.0	578.6	566.2	556.0	541.3	532.6	520.9	523.0
75°	449.9	452.1	439.7	432.3	420.6	413.3	404.5	408.2
77.5°	337.2	334.3	325.5	321.1	310.9	308.0	299.2	302.1
80°	233.4	232.6	225.3	222.4	216.5	215.1	207.8	210.0
82.5°	147.0	147.0	144.1	141.2	139.0	137.5	132.4	133.9
85°	81.2	80.5	79.7	77.5	76.1	76.8	73.2	74.6
87.5°	28.5	27.8	27.8	26.3	24.9	27.1	24.1	24.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)