

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: P130734

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P130734  
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-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: 5825.0 lumens  
Efficiency: N/A  
Efficacy: 114.2 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

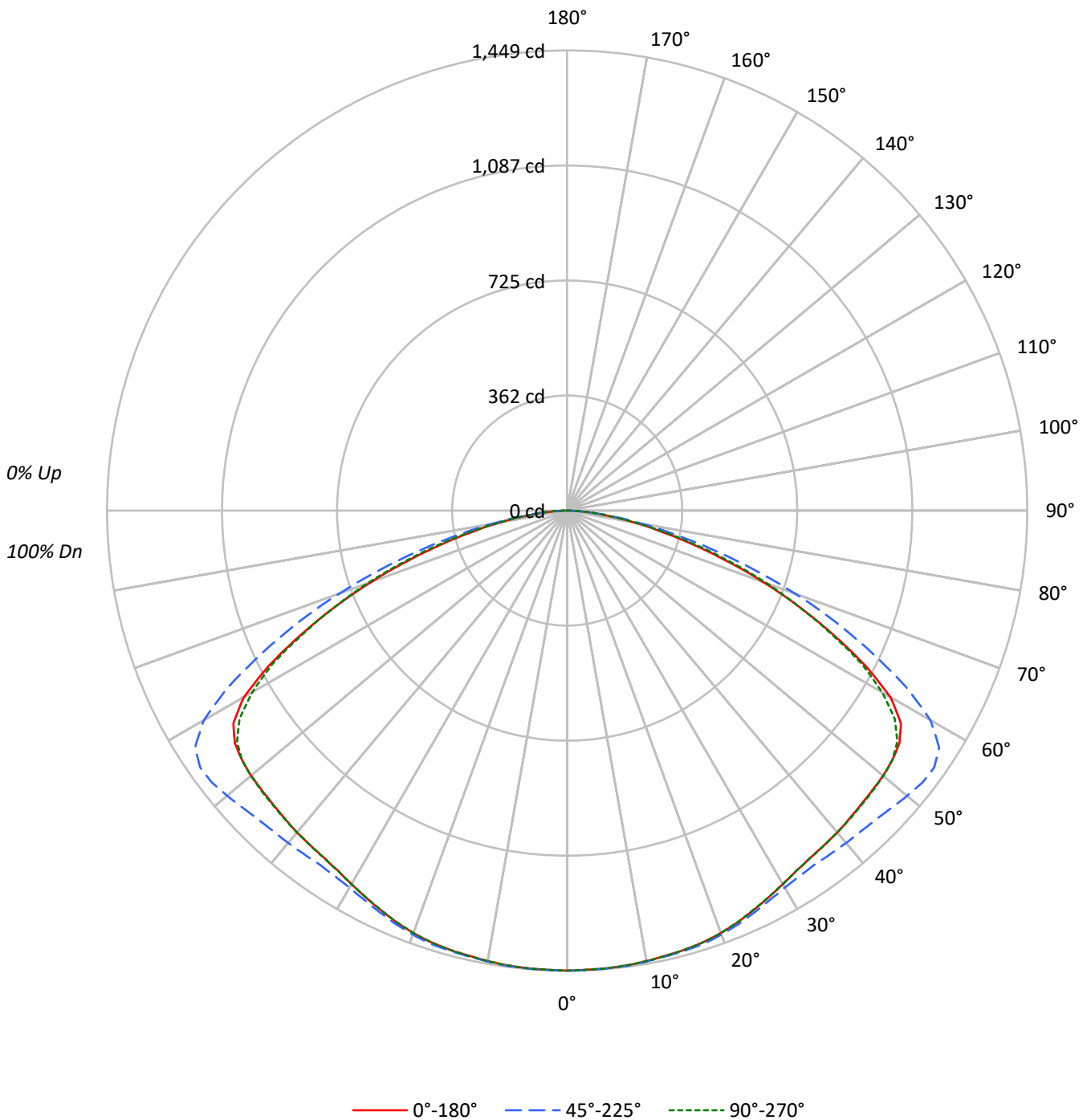
Input Watts (W): 51  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	15689	15689	15689
5°	15725	15732	15725
10°	15839	15856	15839
15°	16047	16082	16047
20°	16312	16373	16312
25°	16588	16678	16579
30°	16982	17142	16982
35°	17643	17982	17653
40°	18705	19315	18705
45°	20045	21064	20078
50°	21884	23541	21897
55°	24111	26639	23954
60°	25463	28625	24808
65°	23688	27119	23496
70°	20792	24170	21127
75°	16999	19752	17664
80°	13258	15047	13538
85°	9405	10437	9592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.9	2.4
10°-20°	405.6	7.0
20°-30°	643.7	11.1
30°-40°	848.5	14.6
40°-50°	1041.6	17.9
50°-60°	1189.0	20.4
60°-70°	978.2	16.8
70°-80°	480.0	8.2
80°-90°	100.5	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°	1187.2	20.4
0°-40°	2035.7	34.9
0°-60°	4266.3	73.2
0°-90°	5825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5825.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1447	1447	1447	1447	1447	138
15°	1431	1433	1434	1433	1431	405
25°	1388	1393	1396	1393	1388	642
35°	1335	1349	1360	1348	1335	840
45°	1309	1343	1376	1345	1311	1014
55°	1277	1349	1411	1345	1269	1132
65°	924	998	1058	996	917	912
75°	406	446	472	451	422	440
85°	76	82	84	81	77	93
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°	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8
2.5°	1447.3	1447.3	1447.3	1447.3	1448.1	1448.1	1448.1	1448.1	1448.1	1448.1	1447.3
5°	1446.6	1446.6	1446.6	1446.6	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
7.5°	1444.3	1444.3	1445.1	1445.1	1445.1	1445.1	1445.1	1445.8	1445.8	1445.8	1445.8
10°	1440.5	1440.5	1440.5	1440.5	1441.3	1441.3	1442.0	1442.0	1442.0	1442.0	1442.0
12.5°	1435.2	1435.2	1436.0	1436.0	1436.0	1436.7	1437.5	1437.5	1437.5	1437.5	1437.5
15°	1431.4	1431.4	1431.4	1432.2	1432.2	1433.0	1433.7	1433.7	1434.5	1434.5	1434.5
17.5°	1425.4	1426.1	1426.1	1426.1	1426.9	1427.7	1429.2	1429.2	1429.9	1429.9	1429.9
20°	1415.5	1415.5	1416.3	1417.1	1417.8	1418.6	1420.1	1420.8	1420.8	1420.8	1421.6
22.5°	1403.4	1403.4	1404.2	1405.0	1406.5	1407.2	1408.7	1409.5	1409.5	1409.5	1409.5
25°	1388.3	1389.1	1389.8	1390.6	1392.1	1393.6	1395.1	1396.6	1396.6	1395.9	1396.6
27.5°	1373.2	1373.9	1374.7	1376.2	1377.7	1379.2	1380.7	1382.3	1382.3	1382.3	1383.0
30°	1358.1	1358.8	1360.3	1361.8	1364.1	1365.6	1367.9	1370.2	1370.9	1370.9	1370.2
32.5°	1344.4	1345.2	1347.5	1349.7	1352.8	1355.8	1358.8	1361.1	1363.3	1363.3	1361.8
35°	1334.6	1335.4	1338.4	1342.2	1346.7	1350.5	1354.3	1357.3	1360.3	1360.3	1359.6
37.5°	1328.5	1329.3	1333.1	1337.6	1344.4	1349.7	1355.0	1358.8	1361.8	1362.6	1361.8
40°	1323.2	1324.0	1328.5	1334.6	1342.2	1349.7	1356.5	1361.8	1364.9	1366.4	1366.4
42.5°	1315.7	1317.2	1321.7	1330.1	1339.1	1348.2	1356.5	1364.1	1367.9	1369.4	1368.6
45°	1308.9	1310.4	1316.4	1326.3	1336.9	1348.2	1358.8	1367.9	1373.2	1375.5	1373.9
47.5°	1303.6	1305.8	1313.4	1324.8	1337.6	1352.0	1364.9	1375.5	1382.3	1385.3	1383.0
50°	1299.0	1302.1	1310.4	1324.0	1340.6	1358.8	1373.9	1386.0	1394.4	1397.4	1395.1
52.5°	1290.7	1296.0	1305.8	1322.5	1342.9	1363.3	1381.5	1395.9	1405.7	1408.7	1405.7
55°	1277.1	1282.4	1293.7	1312.7	1337.6	1360.3	1382.3	1398.1	1407.2	1411.0	1406.5
57.5°	1246.1	1251.4	1262.7	1284.7	1309.6	1335.4	1358.1	1375.5	1386.8	1389.1	1380.0
60°	1175.7	1179.5	1196.9	1218.8	1243.1	1268.0	1291.5	1311.1	1321.0	1321.7	1308.9
62.5°	1059.2	1065.3	1082.7	1106.1	1128.8	1149.2	1171.2	1191.6	1199.2	1202.2	1192.4
65°	924.5	932.9	945.7	966.9	989.6	1006.2	1030.5	1047.9	1055.4	1058.4	1054.7
67.5°	790.6	798.2	805.0	825.4	845.8	861.7	885.2	901.1	907.1	911.7	909.4
70°	656.7	663.5	669.6	686.2	702.1	722.5	736.1	751.3	755.1	763.4	759.6
72.5°	526.6	531.9	537.9	553.8	563.6	585.6	591.6	604.5	611.3	613.6	609.8
75°	406.3	410.1	416.9	429.7	437.3	453.9	456.2	467.6	472.1	472.1	470.6
77.5°	301.1	304.1	311.7	319.3	326.8	338.2	335.9	343.5	346.5	348.0	346.5
80°	212.6	216.4	217.9	223.9	230.8	235.3	233.8	237.6	238.3	241.3	240.6
82.5°	136.2	140.0	137.7	141.5	146.0	149.0	149.8	149.8	149.8	152.1	151.3
85°	75.7	78.7	77.2	78.7	81.0	83.2	81.7	82.5	83.2	84.0	83.2
87.5°	25.0	28.0	25.7	26.5	28.0	29.5	30.3	28.0	29.5	29.5	29.5
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°	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8	1448.8
2.5°	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3	1447.3
5°	1447.3	1447.3	1447.3	1447.3	1446.6	1446.6	1446.6	1446.6
7.5°	1445.1	1445.1	1445.1	1445.1	1444.3	1444.3	1444.3	1444.3
10°	1441.3	1441.3	1441.3	1440.5	1440.5	1440.5	1440.5	1440.5
12.5°	1437.5	1436.7	1436.7	1436.7	1436.7	1436.0	1436.0	1436.0
15°	1434.5	1433.7	1433.7	1433.0	1432.2	1432.2	1431.4	1431.4
17.5°	1429.2	1429.2	1428.4	1427.7	1426.9	1426.1	1426.1	1425.4
20°	1420.8	1420.1	1418.6	1417.8	1417.8	1417.1	1416.3	1415.5
22.5°	1408.7	1408.0	1407.2	1405.7	1405.0	1404.2	1403.4	1402.7
25°	1395.1	1394.4	1393.6	1392.1	1391.3	1389.8	1389.1	1387.6
27.5°	1381.5	1381.5	1379.2	1377.7	1376.2	1374.7	1373.9	1372.4
30°	1369.4	1368.6	1367.1	1364.1	1362.6	1360.3	1358.8	1358.1
32.5°	1360.3	1359.6	1356.5	1352.8	1349.7	1346.7	1345.9	1344.4
35°	1358.1	1355.0	1350.5	1345.9	1342.2	1338.4	1336.1	1335.4
37.5°	1360.3	1355.0	1349.7	1343.7	1338.4	1333.1	1330.1	1328.5
40°	1362.6	1357.3	1351.2	1342.9	1335.4	1329.3	1325.5	1323.2
42.5°	1364.1	1358.1	1350.5	1340.6	1331.6	1324.0	1319.5	1317.2
45°	1367.9	1361.1	1351.2	1339.1	1327.8	1319.5	1314.2	1311.1
47.5°	1376.2	1366.4	1354.3	1339.9	1326.3	1314.9	1308.9	1305.8
50°	1386.8	1374.7	1359.6	1342.2	1325.5	1311.1	1303.6	1299.8
52.5°	1396.6	1382.3	1364.1	1343.7	1322.5	1305.8	1294.5	1290.7
55°	1396.6	1379.2	1356.5	1333.1	1308.9	1289.2	1274.1	1268.8
57.5°	1367.1	1348.2	1320.2	1294.5	1268.0	1244.6	1228.7	1223.4
60°	1291.5	1274.8	1242.3	1217.3	1187.8	1162.1	1150.0	1145.5
62.5°	1175.7	1163.6	1134.1	1112.2	1080.4	1060.0	1045.6	1046.3
65°	1041.0	1030.5	1006.2	986.6	957.8	941.9	927.6	917.0
67.5°	899.6	887.5	867.8	850.4	826.9	815.6	799.7	789.9
70°	751.3	742.2	724.0	711.9	692.3	682.4	667.3	667.3
72.5°	603.0	598.4	585.6	575.0	559.9	550.8	538.7	541.0
75°	465.3	467.6	454.7	447.1	435.0	427.5	418.4	422.2
77.5°	348.8	345.8	336.7	332.1	321.5	318.5	309.4	312.5
80°	241.3	240.6	233.0	230.0	223.9	222.4	214.9	217.1
82.5°	152.1	152.1	149.0	146.0	143.7	142.2	136.9	138.5
85°	84.0	83.2	82.5	80.2	78.7	79.4	75.7	77.2
87.5°	29.5	28.7	28.7	27.2	25.7	28.0	25.0	25.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)