

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: P130705

Luminaire Tested: **TBLED-LD1-6-W-UNV-L835-CD1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130705
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-L835-CD1
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

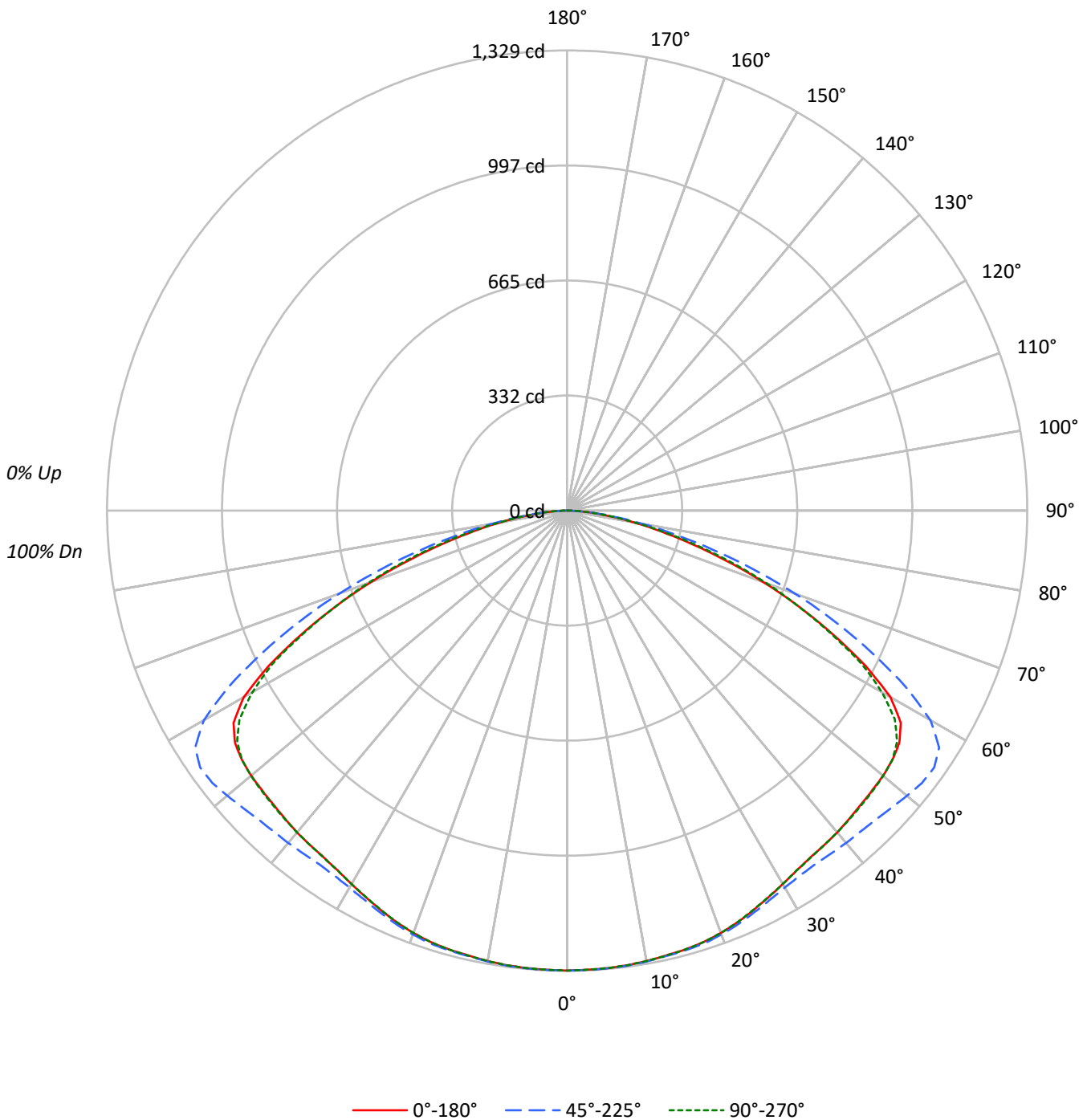
Lumens per Lamp: N/A
Luminaire Lumens: 5341.6 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.71
Luminous Opening: Circular (Dia: 1.12' x H: 0')
CIE Type: Direct

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°	14387	14387	14387
5°	14419	14427	14419
10°	14525	14541	14525
15°	14716	14747	14716
20°	14959	15014	14959
25°	15211	15294	15203
30°	15572	15720	15572
35°	16178	16490	16187
40°	17152	17712	17152
45°	18381	19316	18412
50°	20067	21587	20079
55°	22109	24428	21966
60°	23351	26251	22749
65°	21723	24870	21546
70°	19066	22163	19373
75°	15589	18112	16196
80°	12160	13800	12416
85°	8623	9567	8797



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.5	2.4
10°-20°	371.9	7.0
20°-30°	590.3	11.1
30°-40°	778.1	14.6
40°-50°	955.2	17.9
50°-60°	1090.3	20.4
60°-70°	897.0	16.8
70°-80°	440.2	8.2
80°-90°	92.2	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°	1088.7	20.4
0°-40°	1866.8	34.9
0°-60°	3912.3	73.2
0°-90°	5341.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5341.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1326	1327	1327	1327	1326	126
15°	1313	1314	1315	1314	1313	371
25°	1273	1277	1280	1277	1272	588
35°	1224	1237	1247	1236	1224	770
45°	1200	1231	1261	1234	1202	930
55°	1171	1237	1294	1233	1164	1038
65°	848	915	971	914	841	837
75°	373	409	433	414	387	403
85°	69	75	77	75	71	86
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°	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6
2.5°	1327.2	1327.2	1327.2	1327.2	1327.9	1327.9	1327.9	1327.9	1327.9	1327.9	1327.2
5°	1326.5	1326.5	1326.5	1326.5	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2
7.5°	1324.4	1324.4	1325.1	1325.1	1325.1	1325.1	1325.1	1325.8	1325.8	1325.8	1325.8
10°	1321.0	1321.0	1321.0	1321.0	1321.7	1321.7	1322.4	1322.4	1322.4	1322.4	1322.4
12.5°	1316.1	1316.1	1316.8	1316.8	1316.8	1317.5	1318.2	1318.2	1318.2	1318.2	1318.2
15°	1312.7	1312.7	1312.7	1313.3	1313.3	1314.0	1314.7	1314.7	1315.4	1315.4	1315.4
17.5°	1307.1	1307.8	1307.8	1307.8	1308.5	1309.2	1310.6	1310.6	1311.3	1311.3	1311.3
20°	1298.1	1298.1	1298.8	1299.5	1300.2	1300.9	1302.2	1302.9	1302.9	1302.9	1303.6
22.5°	1287.0	1287.0	1287.7	1288.4	1289.8	1290.5	1291.8	1292.5	1292.5	1292.5	1292.5
25°	1273.1	1273.8	1274.5	1275.2	1276.6	1278.0	1279.4	1280.7	1280.7	1280.0	1280.7
27.5°	1259.2	1259.9	1260.6	1262.0	1263.4	1264.8	1266.2	1267.6	1267.6	1267.6	1268.3
30°	1245.4	1246.1	1247.4	1248.8	1250.9	1252.3	1254.4	1256.5	1257.2	1257.2	1256.5
32.5°	1232.9	1233.6	1235.6	1237.7	1240.5	1243.3	1246.1	1248.1	1250.2	1250.2	1248.8
35°	1223.8	1224.5	1227.3	1230.8	1235.0	1238.4	1241.9	1244.7	1247.4	1247.4	1246.7
37.5°	1218.3	1219.0	1222.5	1226.6	1232.9	1237.7	1242.6	1246.1	1248.8	1249.5	1248.8
40°	1213.4	1214.1	1218.3	1223.8	1230.8	1237.7	1244.0	1248.8	1251.6	1253.0	1253.0
42.5°	1206.5	1207.9	1212.1	1219.7	1228.0	1236.3	1244.0	1250.9	1254.4	1255.8	1255.1
45°	1200.3	1201.6	1207.2	1216.2	1225.9	1236.3	1246.1	1254.4	1259.2	1261.3	1259.9
47.5°	1195.4	1197.5	1204.4	1214.8	1226.6	1239.8	1251.6	1261.3	1267.6	1270.3	1268.3
50°	1191.2	1194.0	1201.6	1214.1	1229.4	1246.1	1259.9	1271.0	1278.7	1281.4	1279.4
52.5°	1183.6	1188.5	1197.5	1212.7	1231.5	1250.2	1266.9	1280.0	1289.1	1291.8	1289.1
55°	1171.1	1176.0	1186.4	1203.7	1226.6	1247.4	1267.6	1282.1	1290.5	1293.9	1289.8
57.5°	1142.7	1147.5	1157.9	1178.1	1201.0	1224.5	1245.4	1261.3	1271.7	1273.8	1265.5
60°	1078.2	1081.6	1097.6	1117.7	1139.9	1162.8	1184.3	1202.3	1211.4	1212.1	1200.3
62.5°	971.3	976.9	992.8	1014.3	1035.1	1053.9	1074.0	1092.7	1099.7	1102.4	1093.4
65°	847.8	855.4	867.2	886.7	907.5	922.7	944.9	960.9	967.8	970.6	967.1
67.5°	725.0	732.0	738.2	756.9	775.7	790.2	811.7	826.3	831.9	836.0	833.9
70°	602.2	608.5	614.0	629.3	643.8	662.6	675.1	688.9	692.4	700.0	696.6
72.5°	482.9	487.7	493.3	507.9	516.9	537.0	542.5	554.3	560.6	562.7	559.2
75°	372.6	376.0	382.3	394.1	401.0	416.3	418.4	428.8	432.9	432.9	431.5
77.5°	276.1	278.9	285.8	292.8	299.7	310.1	308.0	315.0	317.8	319.1	317.8
80°	195.0	198.4	199.8	205.4	211.6	215.8	214.4	217.9	218.5	221.3	220.6
82.5°	124.9	128.4	126.3	129.7	133.9	136.7	137.4	137.4	137.4	139.5	138.8
85°	69.4	72.2	70.8	72.2	74.2	76.3	74.9	75.6	76.3	77.0	76.3
87.5°	22.9	25.7	23.6	24.3	25.7	27.1	27.8	25.7	27.1	27.1	27.1
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°	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6	1328.6
2.5°	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2	1327.2
5°	1327.2	1327.2	1327.2	1327.2	1326.5	1326.5	1326.5	1326.5
7.5°	1325.1	1325.1	1325.1	1325.1	1324.4	1324.4	1324.4	1324.4
10°	1321.7	1321.7	1321.7	1321.0	1321.0	1321.0	1321.0	1321.0
12.5°	1318.2	1317.5	1317.5	1317.5	1317.5	1316.8	1316.8	1316.8
15°	1315.4	1314.7	1314.7	1314.0	1313.3	1313.3	1312.7	1312.7
17.5°	1310.6	1310.6	1309.9	1309.2	1308.5	1307.8	1307.8	1307.1
20°	1302.9	1302.2	1300.9	1300.2	1300.2	1299.5	1298.8	1298.1
22.5°	1291.8	1291.1	1290.5	1289.1	1288.4	1287.7	1287.0	1286.3
25°	1279.4	1278.7	1278.0	1276.6	1275.9	1274.5	1273.8	1272.4
27.5°	1266.9	1266.9	1264.8	1263.4	1262.0	1260.6	1259.9	1258.5
30°	1255.8	1255.1	1253.7	1250.9	1249.5	1247.4	1246.1	1245.4
32.5°	1247.4	1246.7	1244.0	1240.5	1237.7	1235.0	1234.3	1232.9
35°	1245.4	1242.6	1238.4	1234.3	1230.8	1227.3	1225.2	1224.5
37.5°	1247.4	1242.6	1237.7	1232.2	1227.3	1222.5	1219.7	1218.3
40°	1249.5	1244.7	1239.1	1231.5	1224.5	1219.0	1215.5	1213.4
42.5°	1250.9	1245.4	1238.4	1229.4	1221.1	1214.1	1210.0	1207.9
45°	1254.4	1248.1	1239.1	1228.0	1217.6	1210.0	1205.1	1202.3
47.5°	1262.0	1253.0	1241.9	1228.7	1216.2	1205.8	1200.3	1197.5
50°	1271.7	1260.6	1246.7	1230.8	1215.5	1202.3	1195.4	1191.9
52.5°	1280.7	1267.6	1250.9	1232.2	1212.7	1197.5	1187.1	1183.6
55°	1280.7	1264.8	1244.0	1222.5	1200.3	1182.2	1168.3	1163.5
57.5°	1253.7	1236.3	1210.7	1187.1	1162.8	1141.3	1126.7	1121.9
60°	1184.3	1169.0	1139.2	1116.3	1089.3	1065.7	1054.6	1050.4
62.5°	1078.2	1067.1	1040.0	1019.9	990.7	972.0	958.8	959.5
65°	954.7	944.9	922.7	904.7	878.3	863.8	850.6	840.9
67.5°	824.9	813.8	795.8	779.8	758.3	747.9	733.3	724.3
70°	688.9	680.6	664.0	652.9	634.8	625.8	611.9	611.9
72.5°	553.0	548.8	537.0	527.3	513.4	505.1	494.0	496.1
75°	426.7	428.8	417.0	410.0	398.9	392.0	383.7	387.1
77.5°	319.8	317.1	308.7	304.6	294.9	292.1	283.8	286.5
80°	221.3	220.6	213.7	210.9	205.4	204.0	197.0	199.1
82.5°	139.5	139.5	136.7	133.9	131.8	130.4	125.6	127.0
85°	77.0	76.3	75.6	73.5	72.2	72.8	69.4	70.8
87.5°	27.1	26.4	26.4	25.0	23.6	25.7	22.9	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)