

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: P130714

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130714
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-DOS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5096.0 lumens
Efficiency: N/A
Efficacy: 99.9 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

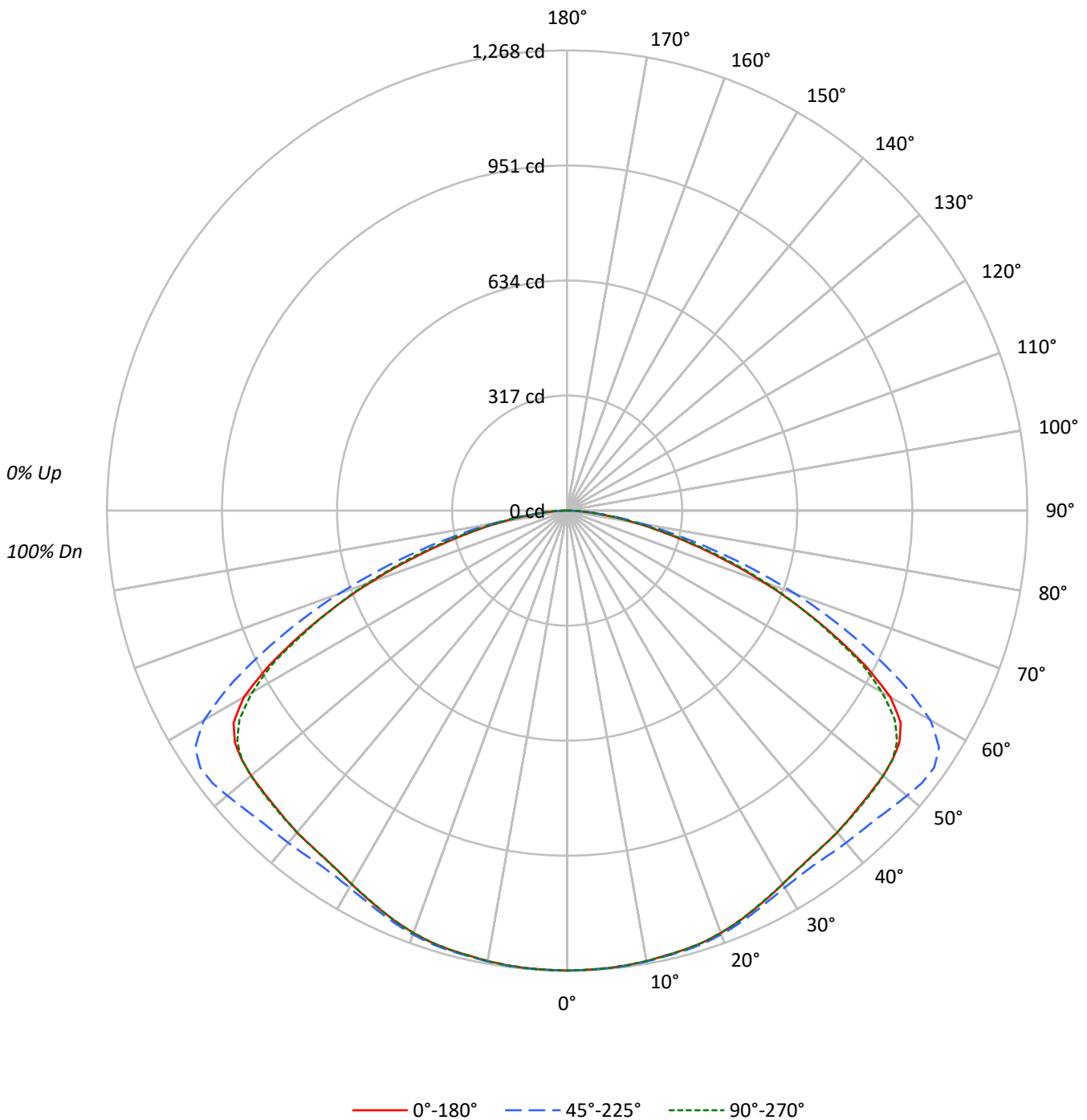
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84	82					82			
2	97	88	81	74	94	86	79	73	82	77	72	79	74	70	76	72	68	66					66			
3	87	76	67	60	85	74	66	59	71	64	58	68	62	57	66	61	56	54					54			
4	79	66	57	49	77	65	56	49	62	55	48	60	53	48	58	52	47	45					45			
5	72	58	49	42	70	57	48	41	55	47	41	53	46	40	51	45	40	38					38			
6	66	52	42	36	64	51	42	35	49	41	35	47	40	35	46	39	34	32					32			
7	61	47	37	31	59	46	37	31	44	36	30	43	36	30	41	35	30	28					28			
8	57	42	33	27	55	42	33	27	40	32	27	39	32	27	38	31	26	24					24			
9	53	39	30	24	51	38	30	24	37	29	24	36	29	24	35	28	23	22					22			
10	49	35	27	22	48	35	27	21	34	26	21	33	26	21	32	26	21	19					19			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13725	13725	13725
5°	13757	13764	13757
10°	13858	13872	13858
15°	14039	14069	14039
20°	14271	14324	14271
25°	14512	14591	14504
30°	14856	14997	14856
35°	15435	15732	15444
40°	16365	16898	16365
45°	17536	18427	17567
50°	19146	20595	19156
55°	21094	23305	20956
60°	22277	25042	21703
65°	20724	23727	20555
70°	18189	21146	18484
75°	14870	17279	15451
80°	11599	13164	11848
85°	8225	9132	8387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	2.4
10°-20°	354.8	7.0
20°-30°	563.2	11.1
30°-40°	742.3	14.6
40°-50°	911.3	17.9
50°-60°	1040.2	20.4
60°-70°	855.8	16.8
70°-80°	419.9	8.2
80°-90°	87.9	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°	1038.7	20.4
0°-40°	1781.0	34.9
0°-60°	3732.5	73.2
0°-90°	5096.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5096.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1266	1266	1266	1266	1266	121
15°	1252	1253	1255	1254	1252	354
25°	1215	1219	1221	1219	1214	561
35°	1168	1180	1190	1180	1168	734
45°	1145	1175	1203	1177	1147	887
55°	1117	1180	1234	1177	1110	990
65°	809	873	926	872	802	798
75°	355	390	413	394	369	385
85°	66	72	74	71	68	82
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°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1266.2	1266.2	1266.2	1266.2	1266.9	1266.9	1266.9	1266.9	1266.9	1266.9	1266.2
5°	1265.6	1265.6	1265.6	1265.6	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2
7.5°	1263.6	1263.6	1264.2	1264.2	1264.2	1264.2	1264.2	1264.9	1264.9	1264.9	1264.9
10°	1260.3	1260.3	1260.3	1260.3	1260.9	1260.9	1261.6	1261.6	1261.6	1261.6	1261.6
12.5°	1255.6	1255.6	1256.3	1256.3	1256.3	1256.9	1257.6	1257.6	1257.6	1257.6	1257.6
15°	1252.3	1252.3	1252.3	1253.0	1253.0	1253.6	1254.3	1254.3	1255.0	1255.0	1255.0
17.5°	1247.0	1247.7	1247.7	1247.7	1248.3	1249.0	1250.3	1250.3	1251.0	1251.0	1251.0
20°	1238.4	1238.4	1239.1	1239.7	1240.4	1241.1	1242.4	1243.0	1243.0	1243.0	1243.7
22.5°	1227.8	1227.8	1228.5	1229.1	1230.5	1231.1	1232.5	1233.1	1233.1	1233.1	1233.1
25°	1214.6	1215.2	1215.9	1216.6	1217.9	1219.2	1220.5	1221.9	1221.9	1221.2	1221.9
27.5°	1201.3	1202.0	1202.7	1204.0	1205.3	1206.6	1208.0	1209.3	1209.3	1209.3	1210.0
30°	1188.1	1188.8	1190.1	1191.4	1193.4	1194.7	1196.7	1198.7	1199.4	1199.4	1198.7
32.5°	1176.2	1176.9	1178.8	1180.8	1183.5	1186.1	1188.8	1190.8	1192.7	1192.7	1191.4
35°	1167.6	1168.3	1170.9	1174.2	1178.2	1181.5	1184.8	1187.4	1190.1	1190.1	1189.4
37.5°	1162.3	1163.0	1166.3	1170.2	1176.2	1180.8	1185.5	1188.8	1191.4	1192.1	1191.4
40°	1157.7	1158.3	1162.3	1167.6	1174.2	1180.8	1186.8	1191.4	1194.1	1195.4	1195.4
42.5°	1151.0	1152.4	1156.3	1163.6	1171.6	1179.5	1186.8	1193.4	1196.7	1198.0	1197.4
45°	1145.1	1146.4	1151.7	1160.3	1169.6	1179.5	1188.8	1196.7	1201.3	1203.3	1202.0
47.5°	1140.5	1142.4	1149.1	1159.0	1170.2	1182.8	1194.1	1203.3	1209.3	1211.9	1210.0
50°	1136.5	1139.1	1146.4	1158.3	1172.9	1188.8	1202.0	1212.6	1219.9	1222.5	1220.5
52.5°	1129.2	1133.8	1142.4	1157.0	1174.9	1192.7	1208.6	1221.2	1229.8	1232.5	1229.8
55°	1117.3	1121.9	1131.8	1148.4	1170.2	1190.1	1209.3	1223.2	1231.1	1234.4	1230.5
57.5°	1090.1	1094.8	1104.7	1123.9	1145.7	1168.3	1188.1	1203.3	1213.3	1215.2	1207.3
60°	1028.6	1031.9	1047.1	1066.3	1087.5	1109.3	1129.9	1147.1	1155.7	1156.3	1145.1
62.5°	926.7	932.0	947.2	967.7	987.6	1005.4	1024.6	1042.5	1049.1	1051.8	1043.2
65°	808.8	816.1	827.4	845.9	865.8	880.3	901.5	916.7	923.4	926.0	922.7
67.5°	691.7	698.3	704.3	722.1	740.0	753.9	774.4	788.3	793.6	797.6	795.6
70°	574.5	580.5	585.8	600.3	614.2	632.1	644.0	657.3	660.6	667.9	664.5
72.5°	460.7	465.3	470.6	484.5	493.1	512.3	517.6	528.9	534.8	536.8	533.5
75°	355.4	358.7	364.7	376.0	382.6	397.1	399.1	409.1	413.0	413.0	411.7
77.5°	263.4	266.1	272.7	279.3	285.9	295.9	293.9	300.5	303.2	304.5	303.2
80°	186.0	189.3	190.6	195.9	201.9	205.9	204.5	207.8	208.5	211.1	210.5
82.5°	119.1	122.5	120.5	123.8	127.7	130.4	131.1	131.1	131.1	133.0	132.4
85°	66.2	68.8	67.5	68.8	70.8	72.8	71.5	72.1	72.8	73.5	72.8
87.5°	21.8	24.5	22.5	23.2	24.5	25.8	26.5	24.5	25.8	25.8	25.8
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°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2	1266.2
5°	1266.2	1266.2	1266.2	1266.2	1265.6	1265.6	1265.6	1265.6
7.5°	1264.2	1264.2	1264.2	1264.2	1263.6	1263.6	1263.6	1263.6
10°	1260.9	1260.9	1260.9	1260.3	1260.3	1260.3	1260.3	1260.3
12.5°	1257.6	1256.9	1256.9	1256.9	1256.9	1256.3	1256.3	1256.3
15°	1255.0	1254.3	1254.3	1253.6	1253.0	1253.0	1252.3	1252.3
17.5°	1250.3	1250.3	1249.7	1249.0	1248.3	1247.7	1247.7	1247.0
20°	1243.0	1242.4	1241.1	1240.4	1240.4	1239.7	1239.1	1238.4
22.5°	1232.5	1231.8	1231.1	1229.8	1229.1	1228.5	1227.8	1227.2
25°	1220.5	1219.9	1219.2	1217.9	1217.2	1215.9	1215.2	1213.9
27.5°	1208.6	1208.6	1206.6	1205.3	1204.0	1202.7	1202.0	1200.7
30°	1198.0	1197.4	1196.1	1193.4	1192.1	1190.1	1188.8	1188.1
32.5°	1190.1	1189.4	1186.8	1183.5	1180.8	1178.2	1177.5	1176.2
35°	1188.1	1185.5	1181.5	1177.5	1174.2	1170.9	1168.9	1168.3
37.5°	1190.1	1185.5	1180.8	1175.5	1170.9	1166.3	1163.6	1162.3
40°	1192.1	1187.4	1182.2	1174.9	1168.3	1163.0	1159.6	1157.7
42.5°	1193.4	1188.1	1181.5	1172.9	1164.9	1158.3	1154.4	1152.4
45°	1196.7	1190.8	1182.2	1171.6	1161.6	1154.4	1149.7	1147.1
47.5°	1204.0	1195.4	1184.8	1172.2	1160.3	1150.4	1145.1	1142.4
50°	1213.3	1202.7	1189.4	1174.2	1159.6	1147.1	1140.5	1137.1
52.5°	1221.9	1209.3	1193.4	1175.5	1157.0	1142.4	1132.5	1129.2
55°	1221.9	1206.6	1186.8	1166.3	1145.1	1127.9	1114.6	1110.0
57.5°	1196.1	1179.5	1155.0	1132.5	1109.3	1088.8	1074.9	1070.3
60°	1129.9	1115.3	1086.8	1065.0	1039.2	1016.7	1006.1	1002.1
62.5°	1028.6	1018.0	992.2	973.0	945.2	927.3	914.7	915.4
65°	910.8	901.5	880.3	863.1	838.0	824.1	811.5	802.2
67.5°	787.0	776.4	759.2	744.0	723.5	713.5	699.6	691.0
70°	657.3	649.3	633.4	622.8	605.6	597.0	583.8	583.8
72.5°	527.5	523.6	512.3	503.0	489.8	481.9	471.3	473.3
75°	407.1	409.1	397.8	391.2	380.6	374.0	366.0	369.3
77.5°	305.1	302.5	294.5	290.6	281.3	278.7	270.7	273.4
80°	211.1	210.5	203.9	201.2	195.9	194.6	188.0	190.0
82.5°	133.0	133.0	130.4	127.7	125.8	124.4	119.8	121.1
85°	73.5	72.8	72.1	70.2	68.8	69.5	66.2	67.5
87.5°	25.8	25.2	25.2	23.8	22.5	24.5	21.8	22.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)