

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: P130732

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130732
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-CMS
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION WITH MINI SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5119.4 lumens
Efficiency: N/A
Efficacy: 100.4 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

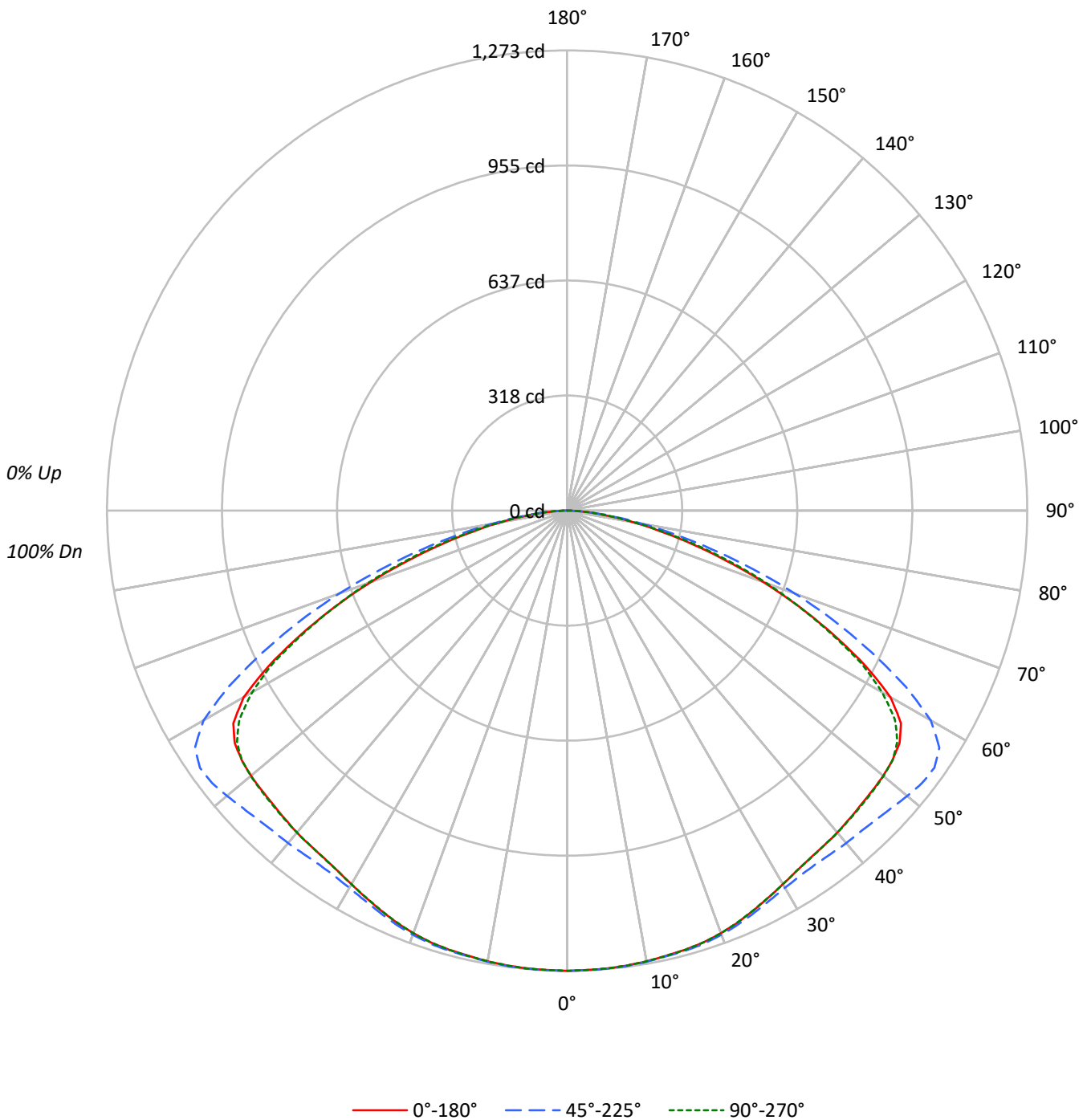
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	13788	13788	13788
5°	13819	13827	13819
10°	13921	13936	13921
15°	14103	14133	14103
20°	14337	14390	14337
25°	14578	14658	14571
30°	14923	15066	14923
35°	15505	15804	15514
40°	16440	16976	16440
45°	17616	18512	17646
50°	19234	20689	19244
55°	21190	23412	21052
60°	22379	25157	21802
65°	20819	23834	20649
70°	18275	21241	18569
75°	14941	17359	15522
80°	11649	13227	11898
85°	8262	9169	8424



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	2.4
10°-20°	356.4	7.0
20°-30°	565.8	11.1
30°-40°	745.7	14.6
40°-50°	915.4	17.9
50°-60°	1045.0	20.4
60°-70°	859.7	16.8
70°-80°	421.8	8.2
80°-90°	88.3	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°	1043.4	20.4
0°-40°	1789.1	34.9
0°-60°	3749.5	73.2
0°-90°	5119.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5119.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1271	1272	1272	1272	1271	121
15°	1258	1259	1261	1260	1258	356
25°	1220	1224	1227	1224	1220	564
35°	1173	1185	1196	1185	1174	738
45°	1150	1180	1209	1182	1152	891
55°	1122	1186	1240	1182	1115	995
65°	812	877	930	876	806	802
75°	357	392	415	396	371	386
85°	66	72	74	72	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°	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3
2.5°	1272.0	1272.0	1272.0	1272.0	1272.7	1272.7	1272.7	1272.7	1272.7	1272.7	1272.0
5°	1271.3	1271.3	1271.3	1271.3	1272.0	1272.0	1272.0	1272.0	1272.0	1272.0	1272.0
7.5°	1269.3	1269.3	1270.0	1270.0	1270.0	1270.0	1270.0	1270.7	1270.7	1270.7	1270.7
10°	1266.0	1266.0	1266.0	1266.0	1266.7	1266.7	1267.4	1267.4	1267.4	1267.4	1267.4
12.5°	1261.4	1261.4	1262.0	1262.0	1262.0	1262.7	1263.4	1263.4	1263.4	1263.4	1263.4
15°	1258.0	1258.0	1258.0	1258.7	1258.7	1259.4	1260.0	1260.0	1260.7	1260.7	1260.7
17.5°	1252.7	1253.4	1253.4	1253.4	1254.1	1254.7	1256.1	1256.1	1256.7	1256.7	1256.7
20°	1244.1	1244.1	1244.7	1245.4	1246.1	1246.7	1248.1	1248.7	1248.7	1248.7	1249.4
22.5°	1233.4	1233.4	1234.1	1234.8	1236.1	1236.8	1238.1	1238.8	1238.8	1238.8	1238.8
25°	1220.1	1220.8	1221.5	1222.1	1223.5	1224.8	1226.1	1227.5	1227.5	1226.8	1227.5
27.5°	1206.8	1207.5	1208.2	1209.5	1210.8	1212.2	1213.5	1214.8	1214.8	1214.8	1215.5
30°	1193.5	1194.2	1195.5	1196.9	1198.9	1200.2	1202.2	1204.2	1204.9	1204.9	1204.2
32.5°	1181.6	1182.2	1184.2	1186.2	1188.9	1191.6	1194.2	1196.2	1198.2	1198.2	1196.9
35°	1172.9	1173.6	1176.3	1179.6	1183.6	1186.9	1190.2	1192.9	1195.5	1195.5	1194.9
37.5°	1167.6	1168.3	1171.6	1175.6	1181.6	1186.2	1190.9	1194.2	1196.9	1197.5	1196.9
40°	1163.0	1163.6	1167.6	1172.9	1179.6	1186.2	1192.2	1196.9	1199.5	1200.9	1200.9
42.5°	1156.3	1157.6	1161.6	1168.9	1176.9	1184.9	1192.2	1198.9	1202.2	1203.5	1202.9
45°	1150.3	1151.7	1157.0	1165.6	1174.9	1184.9	1194.2	1202.2	1206.8	1208.8	1207.5
47.5°	1145.7	1147.7	1154.3	1164.3	1175.6	1188.2	1199.5	1208.8	1214.8	1217.5	1215.5
50°	1141.7	1144.3	1151.7	1163.6	1178.3	1194.2	1207.5	1218.1	1225.5	1228.1	1226.1
52.5°	1134.4	1139.0	1147.7	1162.3	1180.2	1198.2	1214.2	1226.8	1235.4	1238.1	1235.4
55°	1122.4	1127.1	1137.0	1153.7	1175.6	1195.5	1214.8	1228.8	1236.8	1240.1	1236.1
57.5°	1095.1	1099.8	1109.8	1129.0	1151.0	1173.6	1193.5	1208.8	1218.8	1220.8	1212.8
60°	1033.3	1036.6	1051.9	1071.2	1092.5	1114.4	1135.0	1152.3	1161.0	1161.6	1150.3
62.5°	930.9	936.2	951.5	972.1	992.1	1010.0	1029.3	1047.3	1053.9	1056.6	1047.9
65°	812.5	819.9	831.2	849.8	869.7	884.4	905.6	920.9	927.6	930.2	926.9
67.5°	694.9	701.5	707.5	725.4	743.4	757.4	778.0	791.9	797.2	801.2	799.2
70°	577.2	583.1	588.5	603.1	617.1	635.0	647.0	660.3	663.6	670.9	667.6
72.5°	462.8	467.4	472.8	486.7	495.4	514.7	520.0	531.3	537.3	539.3	535.9
75°	357.1	360.4	366.4	377.7	384.3	399.0	401.0	410.9	414.9	414.9	413.6
77.5°	264.6	267.3	274.0	280.6	287.2	297.2	295.2	301.9	304.5	305.9	304.5
80°	186.8	190.2	191.5	196.8	202.8	206.8	205.5	208.8	209.5	212.1	211.4
82.5°	119.7	123.0	121.0	124.3	128.3	131.0	131.7	131.7	131.7	133.7	133.0
85°	66.5	69.2	67.8	69.2	71.1	73.1	71.8	72.5	73.1	73.8	73.1
87.5°	21.9	24.6	22.6	23.3	24.6	25.9	26.6	24.6	25.9	25.9	25.9
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°	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3	1273.3
2.5°	1272.0	1272.0	1272.0	1272.0	1272.0	1272.0	1272.0	1272.0
5°	1272.0	1272.0	1272.0	1272.0	1271.3	1271.3	1271.3	1271.3
7.5°	1270.0	1270.0	1270.0	1270.0	1269.3	1269.3	1269.3	1269.3
10°	1266.7	1266.7	1266.7	1266.0	1266.0	1266.0	1266.0	1266.0
12.5°	1263.4	1262.7	1262.7	1262.7	1262.7	1262.0	1262.0	1262.0
15°	1260.7	1260.0	1260.0	1259.4	1258.7	1258.7	1258.0	1258.0
17.5°	1256.1	1256.1	1255.4	1254.7	1254.1	1253.4	1253.4	1252.7
20°	1248.7	1248.1	1246.7	1246.1	1246.1	1245.4	1244.7	1244.1
22.5°	1238.1	1237.4	1236.8	1235.4	1234.8	1234.1	1233.4	1232.8
25°	1226.1	1225.5	1224.8	1223.5	1222.8	1221.5	1220.8	1219.5
27.5°	1214.2	1214.2	1212.2	1210.8	1209.5	1208.2	1207.5	1206.2
30°	1203.5	1202.9	1201.5	1198.9	1197.5	1195.5	1194.2	1193.5
32.5°	1195.5	1194.9	1192.2	1188.9	1186.2	1183.6	1182.9	1181.6
35°	1193.5	1190.9	1186.9	1182.9	1179.6	1176.3	1174.3	1173.6
37.5°	1195.5	1190.9	1186.2	1180.9	1176.3	1171.6	1168.9	1167.6
40°	1197.5	1192.9	1187.6	1180.2	1173.6	1168.3	1165.0	1163.0
42.5°	1198.9	1193.5	1186.9	1178.3	1170.3	1163.6	1159.6	1157.6
45°	1202.2	1196.2	1187.6	1176.9	1167.0	1159.6	1155.0	1152.3
47.5°	1209.5	1200.9	1190.2	1177.6	1165.6	1155.6	1150.3	1147.7
50°	1218.8	1208.2	1194.9	1179.6	1165.0	1152.3	1145.7	1142.3
52.5°	1227.5	1214.8	1198.9	1180.9	1162.3	1147.7	1137.7	1134.4
55°	1227.5	1212.2	1192.2	1171.6	1150.3	1133.0	1119.7	1115.1
57.5°	1201.5	1184.9	1160.3	1137.7	1114.4	1093.8	1079.8	1075.2
60°	1135.0	1120.4	1091.8	1069.9	1043.9	1021.3	1010.7	1006.7
62.5°	1033.3	1022.7	996.7	977.4	949.5	931.6	918.9	919.6
65°	914.9	905.6	884.4	867.1	841.8	827.8	815.2	805.9
67.5°	790.6	780.0	762.7	747.4	726.8	716.8	702.8	694.2
70°	660.3	652.3	636.3	625.7	608.4	599.8	586.5	586.5
72.5°	529.9	526.0	514.7	505.3	492.0	484.1	473.4	475.4
75°	408.9	410.9	399.6	393.0	382.3	375.7	367.7	371.0
77.5°	306.5	303.9	295.9	291.9	282.6	279.9	272.0	274.6
80°	212.1	211.4	204.8	202.1	196.8	195.5	188.8	190.8
82.5°	133.7	133.7	131.0	128.3	126.3	125.0	120.4	121.7
85°	73.8	73.1	72.5	70.5	69.2	69.8	66.5	67.8
87.5°	25.9	25.3	25.3	23.9	22.6	24.6	21.9	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)