

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: P130723

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P130723
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-DIMRF-LW
Description: METALUX TOP BAY LED LOW-BAY LUMINAIRE.
WIDE DISTRIBUTION WITH LUMAWATT WIRELESS SENSOR.
Light Source: (160) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4950.0 lumens
Efficiency: N/A
Efficacy: 97.1 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

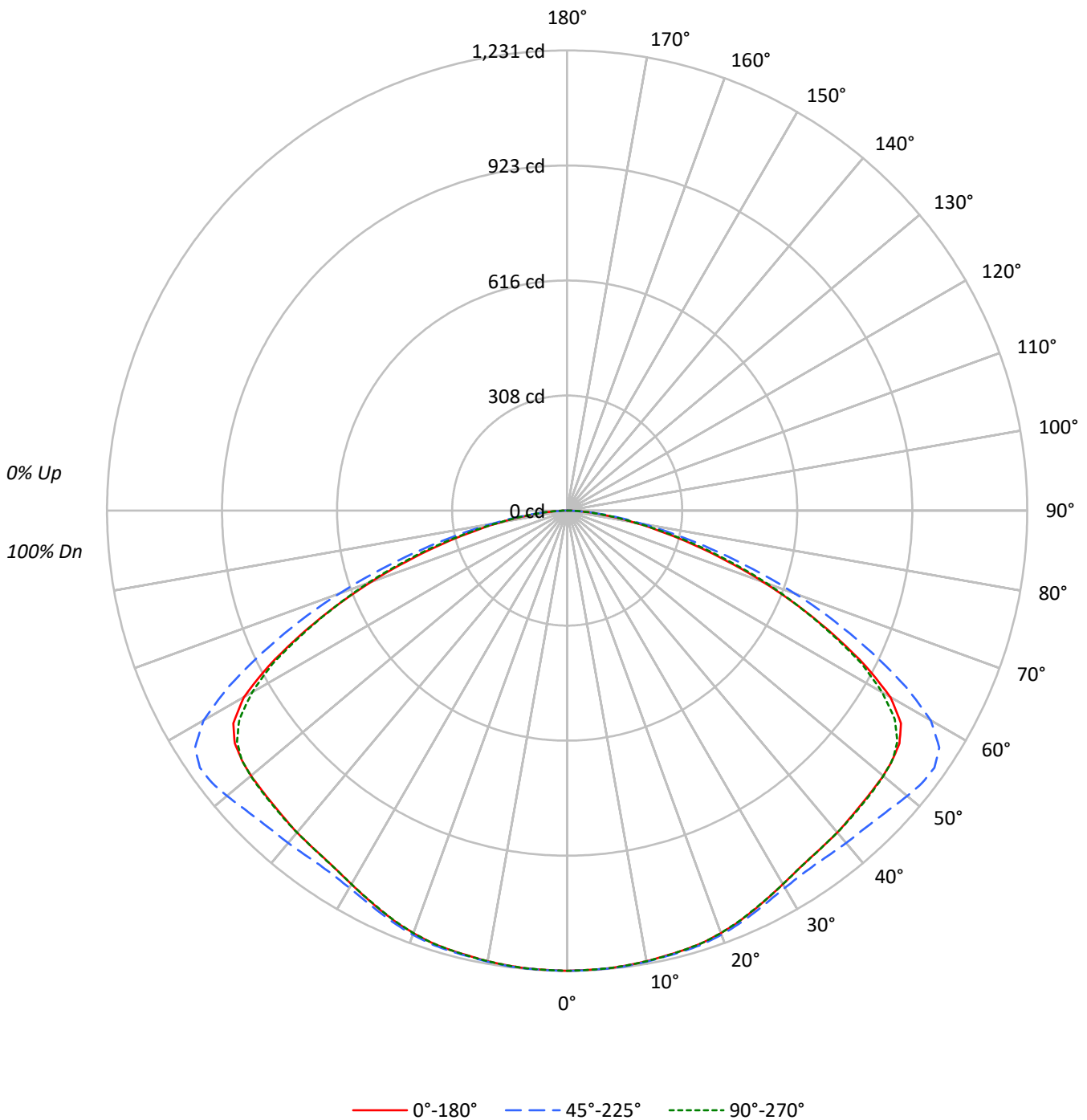
Input Watts (W): 51
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13332	13332	13332
5°	13363	13369	13363
10°	13460	13474	13460
15°	13637	13666	13637
20°	13862	13914	13862
25°	14096	14173	14088
30°	14431	14567	14431
35°	14992	15282	15001
40°	15896	16413	15896
45°	17034	17899	17063
50°	18597	20005	18607
55°	20490	22638	20356
60°	21638	24326	21081
65°	20132	23048	19965
70°	17670	20538	17955
75°	14447	16786	15012
80°	11268	12790	11505
85°	7989	8871	8150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.2	2.4
10°-20°	344.6	7.0
20°-30°	547.0	11.1
30°-40°	721.0	14.6
40°-50°	885.2	17.9
50°-60°	1010.4	20.4
60°-70°	831.2	16.8
70°-80°	407.9	8.2
80°-90°	85.4	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°	1008.9	20.4
0°-40°	1729.9	34.9
0°-60°	3625.5	73.2
0°-90°	4950.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4950.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1231	1231	1231	1231	1231	
5°	1229	1230	1230	1230	1229	117
15°	1216	1217	1219	1218	1216	344
25°	1180	1184	1186	1184	1179	545
35°	1134	1146	1156	1146	1135	713
45°	1112	1141	1169	1143	1114	862
55°	1085	1146	1199	1143	1078	962
65°	786	848	900	847	779	775
75°	345	379	401	383	359	374
85°	64	70	71	69	66	79
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°	1231.2	1231.2	1231.2	1231.2	1231.2	1231.2	1231.2	1231.2	1231.2	1231.2	1231.2
2.5°	1229.9	1229.9	1229.9	1229.9	1230.6	1230.6	1230.6	1230.6	1230.6	1230.6	1229.9
5°	1229.3	1229.3	1229.3	1229.3	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9
7.5°	1227.3	1227.3	1228.0	1228.0	1228.0	1228.0	1228.0	1228.6	1228.6	1228.6	1228.6
10°	1224.1	1224.1	1224.1	1224.1	1224.8	1224.8	1225.4	1225.4	1225.4	1225.4	1225.4
12.5°	1219.6	1219.6	1220.3	1220.3	1220.3	1220.9	1221.6	1221.6	1221.6	1221.6	1221.6
15°	1216.4	1216.4	1216.4	1217.1	1217.1	1217.7	1218.3	1218.3	1219.0	1219.0	1219.0
17.5°	1211.3	1211.9	1211.9	1211.9	1212.6	1213.2	1214.5	1214.5	1215.1	1215.1	1215.1
20°	1202.9	1202.9	1203.6	1204.2	1204.8	1205.5	1206.8	1207.4	1207.4	1207.4	1208.1
22.5°	1192.6	1192.6	1193.3	1193.9	1195.2	1195.8	1197.1	1197.8	1197.8	1197.8	1197.8
25°	1179.8	1180.4	1181.1	1181.7	1183.0	1184.3	1185.6	1186.8	1186.8	1186.2	1186.8
27.5°	1166.9	1167.6	1168.2	1169.5	1170.8	1172.1	1173.3	1174.6	1174.6	1174.6	1175.3
30°	1154.1	1154.7	1156.0	1157.3	1159.2	1160.5	1162.4	1164.3	1165.0	1165.0	1164.3
32.5°	1142.5	1143.1	1145.0	1147.0	1149.5	1152.1	1154.7	1156.6	1158.6	1158.6	1157.3
35°	1134.1	1134.8	1137.3	1140.5	1144.4	1147.6	1150.8	1153.4	1156.0	1156.0	1155.3
37.5°	1129.0	1129.6	1132.8	1136.7	1142.5	1147.0	1151.5	1154.7	1157.3	1157.9	1157.3
40°	1124.5	1125.1	1129.0	1134.1	1140.5	1147.0	1152.8	1157.3	1159.8	1161.1	1161.1
42.5°	1118.0	1119.3	1123.2	1130.3	1138.0	1145.7	1152.8	1159.2	1162.4	1163.7	1163.1
45°	1112.3	1113.5	1118.7	1127.0	1136.0	1145.7	1154.7	1162.4	1166.9	1168.8	1167.6
47.5°	1107.8	1109.7	1116.1	1125.8	1136.7	1148.9	1159.8	1168.8	1174.6	1177.2	1175.3
50°	1103.9	1106.5	1113.5	1125.1	1139.3	1154.7	1167.6	1177.8	1184.9	1187.5	1185.6
52.5°	1096.8	1101.3	1109.7	1123.8	1141.2	1158.6	1174.0	1186.2	1194.6	1197.1	1194.6
55°	1085.3	1089.8	1099.4	1115.5	1136.7	1156.0	1174.6	1188.1	1195.8	1199.1	1195.2
57.5°	1058.9	1063.4	1073.0	1091.7	1112.9	1134.8	1154.1	1168.8	1178.5	1180.4	1172.7
60°	999.1	1002.3	1017.1	1035.8	1056.3	1077.5	1097.5	1114.2	1122.5	1123.2	1112.3
62.5°	900.1	905.2	920.0	940.0	959.2	976.6	995.2	1012.6	1019.0	1021.6	1013.2
65°	785.7	792.7	803.7	821.7	840.9	855.1	875.7	890.5	896.9	899.5	896.2
67.5°	671.9	678.3	684.1	701.4	718.8	732.3	752.2	765.7	770.9	774.7	772.8
70°	558.1	563.8	569.0	583.1	596.6	614.0	625.6	638.4	641.6	648.7	645.5
72.5°	447.5	452.0	457.1	470.6	479.0	497.6	502.8	513.7	519.5	521.4	518.2
75°	345.3	348.5	354.3	365.2	371.6	385.8	387.7	397.3	401.2	401.2	399.9
77.5°	255.9	258.5	264.9	271.3	277.7	287.4	285.5	291.9	294.5	295.7	294.5
80°	180.7	183.9	185.2	190.3	196.1	199.9	198.7	201.9	202.5	205.1	204.5
82.5°	115.7	118.9	117.0	120.2	124.1	126.7	127.3	127.3	127.3	129.2	128.6
85°	64.3	66.9	65.6	66.9	68.8	70.7	69.4	70.1	70.7	71.4	70.7
87.5°	21.2	23.8	21.9	22.5	23.8	25.1	25.7	23.8	25.1	25.1	25.1
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°	1231.2	1231.2	1231.2	1231.2	1231.2	1231.2	1231.2	1231.2
2.5°	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9	1229.9
5°	1229.9	1229.9	1229.9	1229.9	1229.3	1229.3	1229.3	1229.3
7.5°	1228.0	1228.0	1228.0	1228.0	1227.3	1227.3	1227.3	1227.3
10°	1224.8	1224.8	1224.8	1224.1	1224.1	1224.1	1224.1	1224.1
12.5°	1221.6	1220.9	1220.9	1220.9	1220.9	1220.3	1220.3	1220.3
15°	1219.0	1218.3	1218.3	1217.7	1217.1	1217.1	1216.4	1216.4
17.5°	1214.5	1214.5	1213.8	1213.2	1212.6	1211.9	1211.9	1211.3
20°	1207.4	1206.8	1205.5	1204.8	1204.8	1204.2	1203.6	1202.9
22.5°	1197.1	1196.5	1195.8	1194.6	1193.9	1193.3	1192.6	1192.0
25°	1185.6	1184.9	1184.3	1183.0	1182.3	1181.1	1180.4	1179.1
27.5°	1174.0	1174.0	1172.1	1170.8	1169.5	1168.2	1167.6	1166.3
30°	1163.7	1163.1	1161.8	1159.2	1157.9	1156.0	1154.7	1154.1
32.5°	1156.0	1155.3	1152.8	1149.5	1147.0	1144.4	1143.8	1142.5
35°	1154.1	1151.5	1147.6	1143.8	1140.5	1137.3	1135.4	1134.8
37.5°	1156.0	1151.5	1147.0	1141.8	1137.3	1132.8	1130.3	1129.0
40°	1157.9	1153.4	1148.3	1141.2	1134.8	1129.6	1126.4	1124.5
42.5°	1159.2	1154.1	1147.6	1139.3	1131.5	1125.1	1121.3	1119.3
45°	1162.4	1156.6	1148.3	1138.0	1128.3	1121.3	1116.8	1114.2
47.5°	1169.5	1161.1	1150.8	1138.6	1127.0	1117.4	1112.3	1109.7
50°	1178.5	1168.2	1155.3	1140.5	1126.4	1114.2	1107.8	1104.5
52.5°	1186.8	1174.6	1159.2	1141.8	1123.8	1109.7	1100.0	1096.8
55°	1186.8	1172.1	1152.8	1132.8	1112.3	1095.5	1082.7	1078.2
57.5°	1161.8	1145.7	1121.9	1100.0	1077.5	1057.6	1044.1	1039.6
60°	1097.5	1083.3	1055.7	1034.5	1009.4	987.5	977.2	973.4
62.5°	999.1	988.8	963.7	945.1	918.1	900.7	888.5	889.2
65°	884.7	875.7	855.1	838.4	813.9	800.4	788.2	779.2
67.5°	764.4	754.2	737.4	722.6	702.7	693.1	679.6	671.2
70°	638.4	630.7	615.3	605.0	588.3	579.9	567.1	567.1
72.5°	512.4	508.6	497.6	488.6	475.8	468.0	457.8	459.7
75°	395.4	397.3	386.4	380.0	369.7	363.3	355.5	358.8
77.5°	296.4	293.8	286.1	282.2	273.2	270.7	263.0	265.5
80°	205.1	204.5	198.0	195.4	190.3	189.0	182.6	184.5
82.5°	129.2	129.2	126.7	124.1	122.2	120.9	116.4	117.7
85°	71.4	70.7	70.1	68.2	66.9	67.5	64.3	65.6
87.5°	25.1	24.4	24.4	23.1	21.9	23.8	21.2	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)