

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P153518

Luminaire Tested: **TLM-E04-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153518
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E04-LED-E1-SLR-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

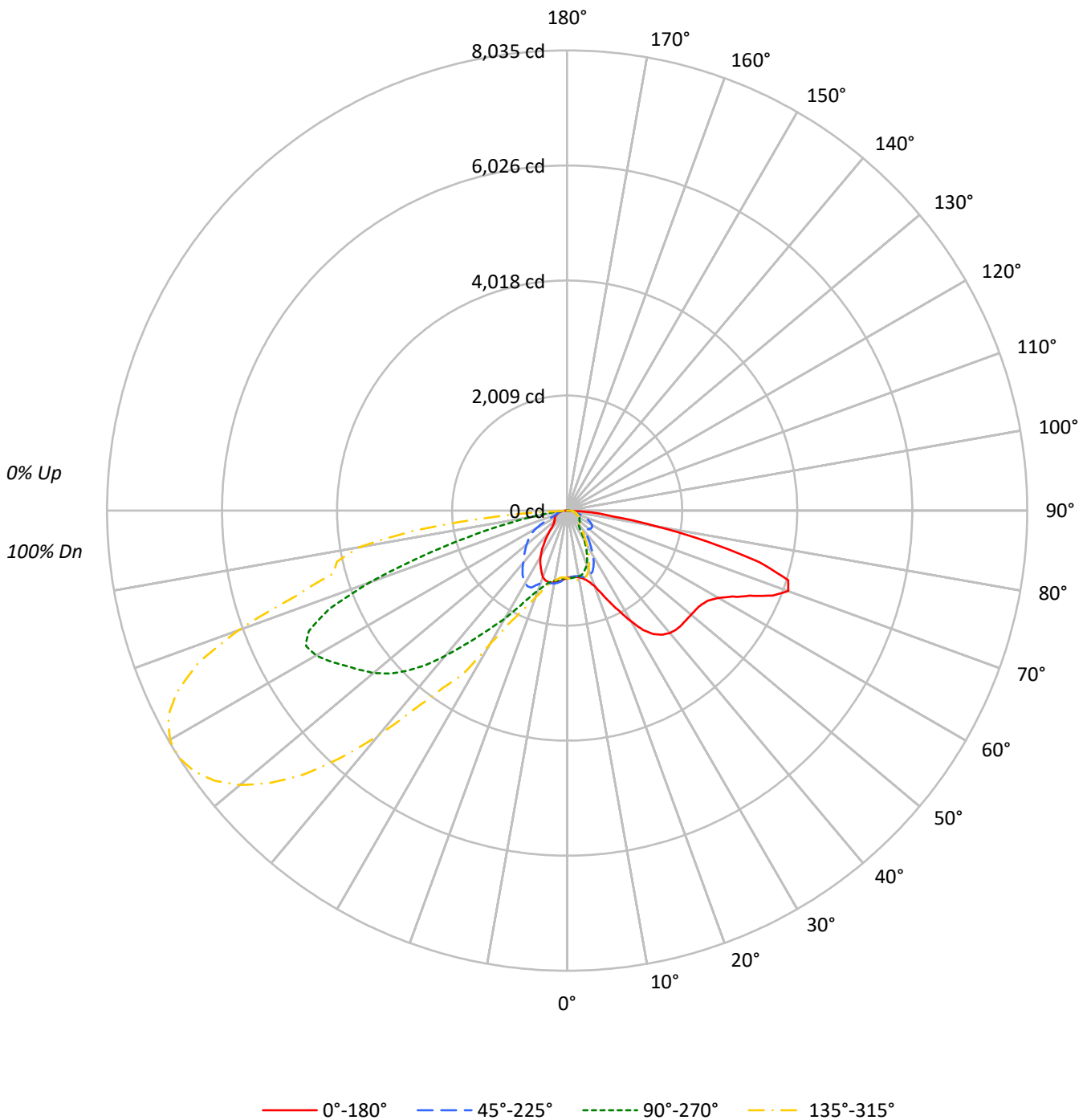
Lumens per Lamp: N/A
Luminaire Lumens: 9393.5 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 97.2
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	105	99	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77					77			
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58					58			
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45					45			
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35					35			
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29					29			
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24					24			
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20					20			
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17					17			
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15					15			
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13					13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	18965	18965	18965	18965
5°	18638	18965	19872	19454
10°	19276	19038	20762	20230
15°	20794	18530	21467	21861
20°	24029	17085	21164	25376
25°	31457	14422	19309	31080
30°	41459	11168	17223	40331
35°	51645	7637	13793	52196
40°	58529	6680	10100	69409
45°	64175	7005	7593	89894
50°	70652	7173	7256	110197
55°	80090	7344	7408	132224
60°	97952	8062	8062	162603
65°	133598	8386	8511	189209
70°	192935	8883	8986	172215
75°	215212	9361	9919	111482
80°	147113	10103	11352	54141
85°	95410	12442	13696	26341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.2
10°-20°	357.9	3.8
20°-30°	635.8	6.8
30°-40°	1001.2	10.7
40°-50°	1473.5	15.7
50°-60°	1957.2	20.8
60°-70°	2155.9	23.0
70°-80°	1352.6	14.4
80°-90°	344.5	3.7
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°	1108.6	11.8
0°-40°	2109.8	22.5
0°-60°	5540.5	59.0
0°-90°	9393.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9393.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1180	1180	1180	1180	1180	
5°	1156	1176	1232	1206	1156	111
15°	1250	1114	1291	1314	1250	362
25°	1775	814	1089	1753	1775	838
35°	2633	389	703	2661	2633	1632
45°	2825	308	334	3957	2825	2184
55°	2859	262	264	4721	2859	2594
65°	3514	221	224	4977	3514	3538
75°	3467	151	160	1796	3467	3391
85°	518	68	74	143	518	598
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°	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1164.7	1168.1	1167.0	1167.0	1169.2	1168.1	1168.1	1169.2	1169.2	1172.6	1177.1
5°	1155.7	1154.6	1152.3	1154.6	1154.6	1154.6	1150.1	1153.5	1154.6	1156.8	1156.8
7.5°	1167.0	1163.6	1159.1	1160.2	1160.2	1158.0	1154.6	1155.7	1154.6	1154.6	1153.5
10°	1181.6	1173.7	1168.1	1168.1	1168.1	1165.8	1160.2	1163.6	1163.6	1162.5	1163.6
12.5°	1207.5	1198.5	1191.7	1189.5	1189.5	1186.1	1181.6	1186.1	1183.8	1183.8	1181.6
15°	1250.2	1240.1	1232.2	1225.5	1226.6	1226.6	1221.0	1217.6	1213.1	1207.5	1196.2
17.5°	1314.4	1303.1	1293.0	1287.4	1288.5	1280.6	1264.9	1249.1	1227.7	1206.3	1182.7
20°	1405.5	1402.2	1388.6	1383.0	1369.5	1350.4	1306.5	1269.4	1227.7	1187.2	1146.7
22.5°	1563.1	1547.3	1533.8	1512.4	1467.4	1414.5	1341.4	1276.1	1210.8	1153.5	1099.4
25°	1774.6	1746.5	1680.1	1614.8	1522.6	1428.0	1329.0	1244.6	1163.6	1088.2	1021.8
27.5°	1982.8	1897.3	1779.1	1661.0	1525.9	1402.2	1278.4	1178.2	1083.7	1001.5	928.4
30°	2234.9	2090.8	1909.7	1722.9	1531.6	1365.0	1216.5	1099.4	990.3	903.6	827.1
32.5°	2471.2	2263.0	2025.6	1780.3	1543.9	1330.1	1145.6	1012.8	900.3	791.1	715.7
35°	2633.3	2363.2	2075.1	1785.9	1513.6	1263.7	1056.7	900.3	787.7	686.4	597.5
37.5°	2730.0	2407.1	2077.3	1745.4	1442.7	1173.7	944.1	788.9	685.3	588.5	518.8
40°	2790.8	2417.2	2048.1	1686.9	1352.6	1060.1	831.6	692.1	597.5	519.9	465.9
42.5°	2820.1	2401.4	2000.8	1612.6	1261.5	958.8	752.8	621.2	539.0	483.9	443.4
45°	2824.6	2373.3	1950.2	1545.1	1180.5	885.6	698.8	591.9	524.4	478.3	437.7
47.5°	2824.6	2348.5	1909.7	1495.6	1127.6	854.1	694.3	604.3	537.9	486.1	437.7
50°	2826.8	2340.7	1892.8	1470.8	1109.6	871.0	732.6	642.6	567.2	499.6	436.6
52.5°	2836.9	2350.8	1906.3	1489.9	1142.2	938.5	804.6	699.9	605.4	515.4	436.6
55°	2859.4	2384.6	1963.7	1556.3	1230.0	1040.9	891.3	761.8	635.8	522.1	429.9
57.5°	2922.5	2470.1	2068.3	1684.6	1379.6	1159.1	970.0	805.7	647.1	516.5	416.4
60°	3048.5	2640.0	2247.3	1864.7	1538.3	1260.4	1016.2	812.5	636.9	498.5	395.0
62.5°	3249.9	2834.7	2464.5	2060.5	1679.0	1316.6	1021.8	795.6	609.9	465.9	363.5
63°	3319.7	2883.1	2510.6	2097.6	1697.0	1321.1	1017.3	788.9	603.2	456.9	359.0
65°	3514.4	3086.8	2670.4	2228.1	1747.6	1322.3	992.5	755.1	571.7	422.0	327.5
67.5°	3877.9	3354.6	2871.8	2330.5	1765.6	1286.2	929.5	692.1	505.3	368.0	288.1
70°	4107.4	3504.3	2949.5	2332.8	1712.7	1183.8	820.4	589.7	420.9	305.0	247.6
72.5°	4047.8	3356.8	2744.7	2122.4	1484.3	989.2	659.4	463.6	328.6	244.2	205.9
75°	3467.1	2794.2	2239.4	1644.1	1121.9	727.0	482.8	330.8	243.1	191.3	172.2
77.5°	2496.0	2010.9	1605.8	1171.5	756.2	470.4	320.7	236.3	184.6	157.5	141.8
80°	1590.1	1179.3	982.4	704.5	442.3	291.5	220.6	178.9	151.9	131.7	121.5
82.5°	830.5	581.8	472.6	360.1	245.3	192.4	162.0	146.3	124.9	109.2	103.5
85°	517.6	343.2	254.3	177.8	122.7	110.3	101.3	99.0	88.9	78.8	75.4
87.5°	58.5	52.9	55.1	34.9	25.9	28.1	27.0	36.0	34.9	25.9	27.0
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°	95°	100°	105°
0°	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1172.6	1174.8	1174.8	1178.2	1178.2	1180.5	1182.7	1182.7	1185.0	1186.1	1188.3
5°	1159.1	1159.1	1159.1	1163.6	1164.7	1171.5	1173.7	1176.0	1178.2	1186.1	1190.6
7.5°	1155.7	1151.2	1153.5	1153.5	1156.8	1162.5	1168.1	1171.5	1174.8	1185.0	1191.7
10°	1162.5	1159.1	1155.7	1155.7	1156.8	1159.1	1163.6	1167.0	1169.2	1179.3	1185.0
12.5°	1180.5	1172.6	1165.8	1160.2	1155.7	1154.6	1152.3	1153.5	1155.7	1161.3	1169.2
15°	1183.8	1169.2	1154.6	1140.0	1128.7	1121.9	1116.3	1114.1	1114.1	1117.4	1126.4
17.5°	1161.3	1136.6	1115.2	1096.1	1083.7	1071.3	1065.7	1061.2	1058.9	1063.4	1064.6
20°	1112.9	1083.7	1054.4	1031.9	1009.4	1006.0	997.0	999.3	1001.5	1008.3	1011.7
22.5°	1046.5	1011.7	975.7	952.0	934.0	918.3	908.1	912.6	916.0	922.8	926.1
25°	965.5	914.9	876.6	853.0	833.9	820.4	809.1	813.6	809.1	817.0	829.4
27.5°	869.9	810.2	769.7	742.7	729.2	718.0	706.7	706.7	718.0	718.0	728.1
30°	754.0	710.1	657.2	629.1	612.2	605.4	604.3	602.0	609.9	614.4	625.7
32.5°	644.8	590.8	540.2	513.1	498.5	490.6	491.8	492.9	496.3	503.0	521.0
35°	534.5	487.3	451.3	420.9	406.2	391.6	391.6	389.4	392.7	400.6	422.0
37.5°	463.6	422.0	393.9	370.2	355.6	346.6	338.7	335.3	335.3	338.7	346.6
40°	424.2	393.9	368.0	347.7	334.2	326.3	321.8	318.5	316.2	316.2	317.3
42.5°	406.2	374.7	348.8	330.8	320.7	316.2	315.1	314.0	310.6	309.5	308.3
45°	397.2	361.2	332.0	317.3	309.5	307.2	308.3	308.3	307.2	305.0	300.5
47.5°	390.5	348.8	319.6	306.1	302.7	302.7	302.7	302.7	301.6	300.5	297.1
50°	379.2	329.7	298.2	288.1	285.8	285.8	287.0	287.0	289.2	287.0	284.7
52.5°	366.9	311.7	280.2	271.2	270.1	269.0	269.0	269.0	270.1	270.1	269.0
55°	353.4	298.2	271.2	264.5	265.6	264.5	263.3	262.2	262.2	261.1	258.8
57.5°	339.8	287.0	264.5	259.9	261.1	261.1	258.8	256.6	255.4	252.1	249.8
60°	319.6	271.2	250.9	248.7	252.1	252.1	252.1	250.9	250.9	249.8	244.2
62.5°	292.6	248.7	232.9	234.1	235.2	237.4	237.4	237.4	237.4	235.2	229.6
63°	287.0	244.2	229.6	229.6	232.9	232.9	234.1	232.9	234.1	231.8	225.1
65°	264.5	229.6	218.3	219.4	221.7	221.7	221.7	220.6	220.6	217.2	213.8
67.5°	238.6	211.6	204.8	205.9	207.1	209.3	208.2	208.2	209.3	207.1	203.7
70°	209.3	192.4	187.9	189.1	190.2	190.2	189.1	189.1	190.2	187.9	184.6
72.5°	186.8	180.1	176.7	176.7	174.4	174.4	172.2	171.0	169.9	169.9	166.5
75°	157.5	156.4	157.5	159.8	157.5	155.3	154.2	150.8	148.5	148.5	147.4
77.5°	135.0	135.0	137.3	140.7	141.8	141.8	138.4	132.8	131.7	131.7	131.7
80°	117.0	114.8	114.8	118.2	121.5	120.4	114.8	109.2	109.2	114.8	115.9
82.5°	102.4	102.4	99.0	100.2	99.0	97.9	92.3	88.9	87.8	92.3	96.8
85°	81.0	82.1	81.0	79.9	78.8	75.4	70.9	67.5	66.4	70.9	77.6
87.5°	32.6	31.5	30.4	31.5	30.4	32.6	31.5	29.3	28.1	31.5	38.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1189.5	1191.7	1194.0	1194.0	1196.2	1195.1	1196.2	1197.3	1197.3	1198.5	1198.5
5°	1196.2	1199.6	1204.1	1208.6	1209.7	1213.1	1216.5	1214.2	1217.6	1222.1	1222.1
7.5°	1198.5	1206.3	1209.7	1216.5	1217.6	1222.1	1230.0	1224.3	1231.1	1234.5	1235.6
10°	1195.1	1203.0	1208.6	1216.5	1219.8	1227.7	1235.6	1233.4	1241.2	1246.9	1248.0
12.5°	1174.8	1182.7	1195.1	1206.3	1215.3	1227.7	1242.4	1237.9	1249.1	1255.9	1259.2
15°	1135.4	1143.3	1156.8	1174.8	1191.7	1210.8	1230.0	1233.4	1244.6	1252.5	1255.9
17.5°	1073.6	1083.7	1098.3	1117.4	1138.8	1171.5	1196.2	1208.6	1224.3	1228.9	1234.5
20°	1016.2	1026.3	1035.3	1046.5	1062.3	1093.8	1126.4	1151.2	1171.5	1188.3	1192.8
22.5°	939.6	948.6	959.9	968.9	980.2	1002.7	1029.7	1057.8	1089.3	1099.4	1110.7
25°	847.4	853.0	868.7	874.4	882.3	901.4	922.8	943.0	973.4	994.8	1000.4
27.5°	748.3	754.0	768.6	772.0	782.1	800.1	815.9	823.7	851.9	874.4	892.4
30°	633.6	648.2	666.2	668.4	679.7	690.9	705.6	713.5	739.3	763.0	785.5
32.5°	534.5	549.2	563.8	572.8	578.4	587.4	602.0	609.9	634.7	656.1	678.6
35°	433.2	451.3	467.0	479.4	483.9	495.1	506.4	514.3	540.2	559.3	575.0
37.5°	356.7	370.2	387.1	399.5	411.9	419.7	433.2	444.5	460.3	470.4	487.3
40°	319.6	326.3	335.3	345.5	355.6	364.6	374.7	383.7	393.9	407.4	418.6
42.5°	307.2	308.3	308.3	311.7	317.3	321.8	330.8	337.6	344.3	354.5	360.1
45°	298.2	297.1	294.8	292.6	293.7	296.0	301.6	306.1	314.0	318.5	319.6
47.5°	293.7	289.2	284.7	281.3	280.2	281.3	285.8	290.3	294.8	298.2	299.3
50°	279.1	275.7	269.0	264.5	262.2	264.5	270.1	272.3	276.8	280.2	281.3
52.5°	264.5	259.9	255.4	250.9	250.9	252.1	256.6	261.1	265.6	266.7	269.0
55°	255.4	248.7	244.2	240.8	238.6	241.9	245.3	250.9	256.6	257.7	259.9
57.5°	246.4	239.7	235.2	231.8	229.6	232.9	236.3	244.2	250.9	250.9	250.9
60°	240.8	235.2	228.4	225.1	221.7	225.1	229.6	237.4	244.2	243.1	241.9
62.5°	225.1	219.4	216.1	216.1	212.7	218.3	222.8	231.8	232.9	230.7	228.4
63°	220.6	216.1	213.8	213.8	211.6	217.2	221.7	229.6	229.6	227.3	225.1
65°	209.3	205.9	203.7	205.9	205.9	211.6	212.7	218.3	217.2	213.8	212.7
67.5°	200.3	198.1	195.8	195.8	195.8	196.9	198.1	200.3	199.2	198.1	199.2
70°	185.7	184.6	182.3	182.3	181.2	181.2	181.2	182.3	182.3	183.4	184.6
72.5°	167.7	165.4	165.4	166.5	164.3	165.4	166.5	165.4	167.7	167.7	168.8
75°	147.4	146.3	148.5	150.8	149.7	149.7	150.8	150.8	151.9	151.9	153.0
77.5°	131.7	132.8	133.9	136.2	137.3	137.3	137.3	136.2	137.3	137.3	138.4
80°	117.0	119.3	121.5	123.8	124.9	124.9	124.9	123.8	123.8	123.8	123.8
82.5°	105.8	109.2	111.4	112.5	112.5	112.5	112.5	112.5	112.5	110.3	108.0
85°	88.9	95.7	95.7	96.8	93.4	91.2	88.9	90.0	91.2	86.6	85.5
87.5°	45.0	45.0	47.3	49.5	50.6	50.6	57.4	54.0	52.9	51.8	49.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P153518

CATALOG NUMBER: TLM-E04-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1199.6	1198.5	1200.7	1198.5	1199.6	1200.7	1198.5	1201.8	1204.1	1200.7	1197.3
5°	1224.3	1224.3	1230.0	1232.2	1233.4	1240.1	1236.7	1239.0	1241.2	1240.1	1241.2
7.5°	1240.1	1244.6	1250.2	1255.9	1257.0	1262.6	1261.5	1264.9	1267.1	1272.7	1272.7
10°	1253.6	1259.2	1267.1	1272.7	1278.4	1282.9	1285.1	1291.9	1293.0	1297.5	1297.5
12.5°	1266.0	1272.7	1280.6	1289.6	1295.2	1304.2	1305.4	1315.5	1318.9	1320.0	1316.6
15°	1263.7	1271.6	1280.6	1290.7	1300.9	1312.1	1318.9	1329.0	1334.6	1336.9	1331.3
17.5°	1242.4	1249.1	1260.4	1273.9	1286.2	1300.9	1313.2	1327.9	1336.9	1339.1	1338.0
20°	1200.7	1205.2	1219.8	1237.9	1252.5	1275.0	1293.0	1315.5	1330.1	1341.4	1344.8
22.5°	1118.6	1129.8	1144.5	1164.7	1186.1	1214.2	1240.1	1272.7	1304.2	1331.3	1358.3
25°	1019.5	1039.8	1062.3	1089.3	1115.2	1144.5	1173.7	1210.8	1257.0	1313.2	1377.4
27.5°	919.4	954.3	982.4	1017.3	1047.7	1076.9	1109.6	1150.1	1200.7	1268.2	1350.4
30°	818.1	857.5	887.9	928.4	968.9	1008.3	1040.9	1083.7	1133.2	1201.8	1291.9
32.5°	710.1	749.5	785.5	822.6	867.6	914.9	954.3	1007.2	1060.1	1130.9	1222.1
35°	598.7	633.6	663.9	703.3	752.8	803.5	855.2	916.0	973.4	1047.7	1144.5
37.5°	501.9	526.7	555.9	590.8	629.1	683.1	741.6	813.6	878.9	959.9	1058.9
40°	422.0	435.5	452.4	481.6	516.5	569.4	626.8	703.3	782.1	871.0	966.7
42.5°	360.1	366.9	371.4	390.5	418.6	470.4	525.5	599.8	686.4	783.2	880.0
45°	319.6	323.0	324.1	334.2	354.5	399.5	456.9	519.9	603.2	697.7	799.0
47.5°	300.5	303.8	306.1	308.3	320.7	355.6	407.4	467.0	543.5	630.2	733.7
50°	284.7	288.1	291.5	290.3	296.0	318.5	362.4	417.5	489.5	569.4	671.8
52.5°	269.0	271.2	271.2	271.2	274.6	289.2	320.7	371.4	437.7	513.1	614.4
55°	259.9	262.2	263.3	264.5	265.6	273.5	297.1	337.6	395.0	464.8	555.9
57.5°	250.9	252.1	254.3	255.4	257.7	262.2	276.8	306.1	354.5	413.0	489.5
60°	243.1	245.3	249.8	250.9	253.2	254.3	261.1	279.1	310.6	355.6	417.5
62.5°	230.7	234.1	238.6	239.7	241.9	243.1	244.2	254.3	269.0	296.0	342.1
63°	227.3	230.7	236.3	237.4	238.6	238.6	239.7	246.4	259.9	283.6	317.3
65°	214.9	219.4	222.8	223.9	225.1	225.1	223.9	226.2	227.3	237.4	257.7
67.5°	201.4	204.8	207.1	208.2	207.1	208.2	207.1	204.8	202.6	204.8	213.8
70°	187.9	190.2	190.2	191.3	192.4	193.6	191.3	189.1	186.8	185.7	191.3
72.5°	172.2	174.4	174.4	175.6	175.6	177.8	177.8	176.7	176.7	177.8	178.9
75°	156.4	158.7	157.5	159.8	159.8	163.2	163.2	164.3	166.5	165.4	164.3
77.5°	141.8	142.9	142.9	144.0	145.2	150.8	154.2	155.3	155.3	153.0	150.8
80°	126.0	126.0	123.8	122.7	123.8	129.4	136.2	137.3	140.7	139.5	140.7
82.5°	105.8	101.3	97.9	97.9	100.2	103.5	105.8	108.0	110.3	110.3	112.5
85°	81.0	76.5	73.1	74.3	77.6	78.8	77.6	77.6	82.1	85.5	82.1
87.5°	48.4	43.9	41.6	38.3	39.4	42.8	41.6	38.3	39.4	31.5	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P153518

CATALOG NUMBER: TLM-E04-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1199.6	1198.5	1196.2	1192.8	1191.7	1189.5	1190.6	1187.2	1185.0	1182.7	1179.3
5°	1241.2	1241.2	1234.5	1234.5	1231.1	1230.0	1222.1	1218.7	1212.0	1214.2	1206.3
7.5°	1270.5	1273.9	1266.0	1264.9	1260.4	1259.2	1249.1	1245.7	1240.1	1237.9	1231.1
10°	1291.9	1291.9	1281.7	1273.9	1268.2	1262.6	1252.5	1248.0	1243.5	1244.6	1240.1
12.5°	1308.7	1300.9	1286.2	1275.0	1267.1	1261.5	1253.6	1250.2	1249.1	1257.0	1258.1
15°	1322.3	1311.0	1293.0	1285.1	1278.4	1277.2	1277.2	1280.6	1288.5	1303.1	1314.4
17.5°	1330.1	1323.4	1314.4	1312.1	1323.4	1330.1	1339.1	1349.3	1360.5	1380.8	1393.1
20°	1344.8	1349.3	1356.0	1365.0	1383.0	1399.9	1411.2	1425.8	1439.3	1464.0	1484.3
22.5°	1383.0	1408.9	1430.3	1448.3	1475.3	1498.9	1513.6	1533.8	1543.9	1560.8	1592.3
25°	1432.5	1485.4	1530.4	1568.7	1610.3	1635.1	1655.3	1681.2	1697.0	1725.1	1753.3
27.5°	1417.9	1493.3	1560.8	1631.7	1689.1	1753.3	1798.3	1841.0	1868.0	1909.7	1946.8
30°	1372.9	1462.9	1554.1	1647.5	1738.6	1830.9	1916.4	1994.1	2053.7	2113.4	2174.1
32.5°	1312.1	1415.7	1527.1	1641.8	1761.1	1889.4	2007.6	2124.6	2223.6	2310.3	2394.7
35°	1242.4	1359.4	1475.3	1617.1	1764.5	1927.7	2092.0	2254.0	2404.8	2557.9	2661.4
37.5°	1159.1	1278.4	1407.8	1570.9	1744.2	1945.7	2155.0	2366.6	2580.4	2786.3	2965.2
40°	1070.2	1191.7	1327.9	1504.6	1700.4	1934.4	2195.5	2480.2	2773.9	3072.1	3309.6
42.5°	991.4	1116.3	1264.9	1443.8	1656.5	1919.8	2228.1	2578.1	2937.1	3306.2	3655.0
45°	914.9	1052.2	1208.6	1401.0	1637.3	1931.1	2276.5	2669.3	3083.4	3531.3	3956.6
47.5°	846.2	985.8	1137.7	1348.1	1609.2	1936.7	2323.8	2760.4	3221.8	3706.8	4212.1
50°	784.3	919.4	1069.1	1280.6	1565.3	1933.3	2366.6	2842.6	3341.1	3845.2	4409.0
52.5°	723.6	860.9	1013.9	1215.3	1511.3	1914.2	2386.8	2910.1	3451.4	3984.8	4567.7
55°	663.9	799.0	953.1	1153.5	1440.4	1864.7	2384.6	2954.0	3539.1	4116.4	4720.7
57.5°	594.2	722.5	873.2	1084.8	1365.0	1788.1	2350.8	2974.2	3614.5	4247.0	4904.1
60°	507.5	627.9	773.1	984.7	1266.0	1690.2	2279.9	2963.0	3658.4	4343.7	5060.6
62.5°	400.6	505.3	638.1	845.1	1142.2	1549.6	2147.1	2860.6	3588.6	4330.2	5133.7
63°	378.1	477.1	606.5	811.4	1089.3	1511.3	2107.7	2820.1	3554.9	4302.1	5123.6
65°	303.8	368.0	471.5	654.9	911.5	1323.4	1911.9	2611.9	3373.7	4104.0	4977.3
67.5°	232.9	265.6	320.7	449.0	644.8	1040.9	1548.4	2213.5	2928.1	3614.5	4505.8
70°	199.2	213.8	237.4	298.2	409.6	657.2	1087.1	1650.8	2269.8	2865.1	3666.3
72.5°	181.2	187.9	200.3	226.2	281.3	393.9	693.2	1074.7	1543.9	2042.5	2661.4
75°	166.5	172.2	182.3	195.8	216.1	262.2	395.0	657.2	1003.8	1341.4	1796.0
77.5°	151.9	155.3	166.5	178.9	192.4	216.1	261.1	378.1	577.3	791.1	1082.6
80°	139.5	137.3	145.2	165.4	178.9	192.4	205.9	245.3	328.6	433.2	585.2
82.5°	111.4	113.7	120.4	140.7	146.3	142.9	145.2	151.9	183.4	200.3	299.3
85°	75.4	69.8	68.6	70.9	70.9	67.5	67.5	66.4	73.1	83.3	142.9
87.5°	20.3	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P153518

CATALOG NUMBER: TLM-E04-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1177.1	1176.0	1177.1	1171.5	1171.5	1170.3	1169.2	1167.0	1167.0	1162.5	1165.8
5°	1199.6	1197.3	1192.8	1186.1	1182.7	1178.2	1178.2	1173.7	1170.3	1165.8	1167.0
7.5°	1225.5	1226.6	1218.7	1213.1	1210.8	1206.3	1207.5	1200.7	1201.8	1198.5	1196.2
10°	1240.1	1240.1	1242.4	1241.2	1243.5	1243.5	1246.9	1242.4	1240.1	1236.7	1236.7
12.5°	1263.7	1268.2	1277.2	1277.2	1284.0	1286.2	1287.4	1289.6	1285.1	1282.9	1275.0
15°	1322.3	1333.5	1341.4	1352.6	1366.1	1370.6	1370.6	1366.1	1363.9	1360.5	1345.9
17.5°	1419.0	1443.8	1450.5	1468.5	1470.8	1476.4	1492.2	1483.2	1477.5	1453.9	1449.4
20°	1518.1	1549.6	1581.1	1603.6	1614.8	1637.3	1640.7	1636.2	1613.7	1591.2	1581.1
22.5°	1637.3	1684.6	1720.6	1755.5	1772.4	1783.6	1808.4	1802.8	1784.8	1751.0	1737.5
25°	1806.1	1864.7	1902.9	1945.7	1968.2	1979.4	2004.2	2004.2	1985.1	1974.9	1973.8
27.5°	2018.8	2090.8	2153.9	2168.5	2227.0	2240.5	2264.1	2264.1	2246.1	2233.8	2293.4
30°	2255.1	2330.5	2439.7	2512.8	2583.7	2653.5	2652.4	2656.9	2678.3	2689.5	2715.4
32.5°	2491.5	2584.9	2700.8	2859.4	3011.4	3140.8	3308.4	3415.3	3382.7	3291.6	3255.6
35°	2778.4	2881.9	3022.6	3182.4	3460.4	3628.0	3709.1	3766.5	3773.2	3785.6	3811.5
37.5°	3098.0	3271.3	3434.5	3615.7	3769.8	3973.5	4161.4	4312.2	4347.1	4418.0	4377.5
40°	3502.0	3695.6	3866.6	4100.7	4307.7	4553.0	4822.0	5029.1	5112.3	5085.3	4882.8
42.5°	3925.1	4164.8	4365.1	4640.8	4909.8	5233.9	5511.8	5801.0	5852.8	5644.6	5341.9
45°	4314.5	4611.6	4860.3	5147.2	5475.8	5864.0	6235.4	6532.5	6522.4	6165.6	5760.5
47.5°	4664.5	5029.1	5332.9	5706.5	6059.9	6522.4	6948.9	7168.3	7038.9	6616.9	6120.6
50°	4953.7	5408.3	5783.0	6161.1	6610.1	7167.2	7577.9	7701.7	7451.9	6992.7	6470.6
52.5°	5186.6	5757.1	6178.0	6613.5	7180.7	7767.0	8120.3	8074.2	7751.2	7279.7	6759.8
55°	5383.5	6023.8	6525.7	7040.0	7743.3	8283.5	8518.7	8394.9	7943.6	7465.4	6957.9
57.5°	5587.2	6282.7	6845.3	7441.7	8225.0	8688.6	8819.1	8564.8	8034.8	7536.3	7043.4
60°	5790.9	6498.7	7127.8	7792.8	8589.6	9019.4	8983.4	8603.1	8007.8	7484.5	6986.0
62.5°	5928.2	6627.0	7292.1	8008.9	8863.0	9188.2	8967.7	8466.9	7851.4	7280.8	6814.9
63°	5931.6	6631.5	7302.2	8023.5	8893.4	9193.9	8937.3	8418.5	7801.9	7239.2	6764.3
65°	5860.7	6547.1	7212.2	7957.1	8867.5	9064.5	8675.1	8132.7	7519.4	6951.1	6501.0
67.5°	5498.3	6198.3	6785.7	7487.9	8403.9	8460.2	7972.9	7535.2	6983.7	6395.2	5924.8
70°	4768.0	5349.8	5925.9	6512.2	7280.8	7270.7	6812.7	6589.9	6107.1	5436.4	5059.4
72.5°	3792.3	4314.5	4719.6	5112.3	5618.7	5516.3	5221.5	5283.4	4970.5	4469.8	4245.8
75°	2815.6	3389.5	3587.5	3747.3	3961.1	3962.3	4043.3	4218.8	4214.3	3936.4	3653.9
77.5°	1846.7	2474.6	2541.0	2669.3	2925.8	3274.7	3634.8	4021.9	4118.7	3899.2	3481.7
80°	1029.7	1682.4	1605.8	1716.1	1992.9	2466.7	2997.9	3425.5	3677.5	3554.9	3112.6
82.5°	526.7	970.0	927.3	1080.3	1304.2	1716.1	2067.2	2395.8	2692.9	2676.0	2508.3
85°	273.5	531.2	604.3	684.2	796.7	944.1	1076.9	1172.6	1296.4	1514.7	1589.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	81.0	58.5	160.9	229.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P153518

CATALOG NUMBER: TLM-E04-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5	1180.5
2.5°	1167.0	1168.1	1165.8	1165.8	1167.0	1167.0	1164.7
5°	1164.7	1164.7	1162.5	1160.2	1158.0	1158.0	1155.7
7.5°	1190.6	1190.6	1182.7	1179.3	1173.7	1169.2	1167.0
10°	1228.9	1222.1	1213.1	1206.3	1197.3	1187.2	1181.6
12.5°	1267.1	1257.0	1245.7	1235.6	1224.3	1213.1	1207.5
15°	1330.1	1316.6	1302.0	1289.6	1273.9	1257.0	1250.2
17.5°	1426.9	1405.5	1386.4	1368.4	1340.3	1327.9	1314.4
20°	1555.2	1523.7	1498.9	1468.5	1433.7	1422.4	1405.5
22.5°	1710.5	1683.5	1634.0	1611.5	1576.6	1559.7	1563.1
25°	1946.8	1911.9	1854.5	1833.1	1829.8	1792.6	1774.6
27.5°	2255.1	2257.4	2204.5	2147.1	2115.6	2057.1	1982.8
30°	2694.0	2663.6	2601.7	2543.2	2469.0	2358.7	2234.9
32.5°	3225.2	3157.7	3055.2	2946.1	2814.4	2644.5	2471.2
35°	3743.9	3625.8	3462.6	3280.3	3090.1	2878.6	2633.3
37.5°	4199.7	4016.3	3772.1	3562.8	3293.8	3029.4	2730.0
40°	4616.1	4388.8	4073.7	3802.5	3485.1	3145.3	2790.8
42.5°	5018.9	4730.9	4344.9	3978.0	3619.0	3222.9	2820.1
45°	5402.7	5031.3	4573.3	4136.7	3716.9	3273.6	2824.6
47.5°	5697.5	5292.4	4778.1	4251.5	3784.5	3311.8	2824.6
50°	5971.0	5512.9	4934.5	4341.5	3847.5	3337.7	2826.8
52.5°	6183.6	5668.2	5035.8	4405.6	3897.0	3356.8	2836.9
55°	6337.8	5769.5	5103.3	4445.0	3933.0	3383.8	2859.4
57.5°	6445.8	5835.9	5140.5	4479.9	3976.9	3431.1	2922.5
60°	6497.6	5958.6	5202.4	4549.7	4052.3	3531.3	3048.5
62.5°	6458.2	6148.8	5379.0	4667.8	4156.9	3687.7	3249.9
63°	6441.3	6183.6	5427.4	4693.7	4180.6	3721.4	3319.7
65°	6309.7	6218.5	5626.6	4824.3	4293.1	3871.1	3514.4
67.5°	5901.2	6081.2	5794.3	5044.8	4535.0	4234.6	3877.9
70°	5372.3	5877.6	5763.9	5072.9	4689.2	4532.8	4107.4
72.5°	4738.7	5262.0	5156.2	4698.2	4519.3	4536.2	4047.8
75°	3729.3	4122.1	4052.3	3891.4	3927.4	4051.2	3467.1
77.5°	2987.7	2934.8	2773.9	2785.2	2993.4	3138.5	2496.0
80°	2440.8	1976.1	1766.8	1772.4	2135.9	2286.7	1590.1
82.5°	2322.7	1869.2	1522.6	1330.1	1554.1	1496.7	830.5
85°	1654.2	1657.6	1375.1	1117.4	1082.6	920.5	517.6
87.5°	391.6	314.0	223.9	166.5	175.6	115.9	58.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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