

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: P153511

Luminaire Tested: **TLM-E03-LED-E1-SLR-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P153511  
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-E03-LED-E1-SLR-7050  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (63) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

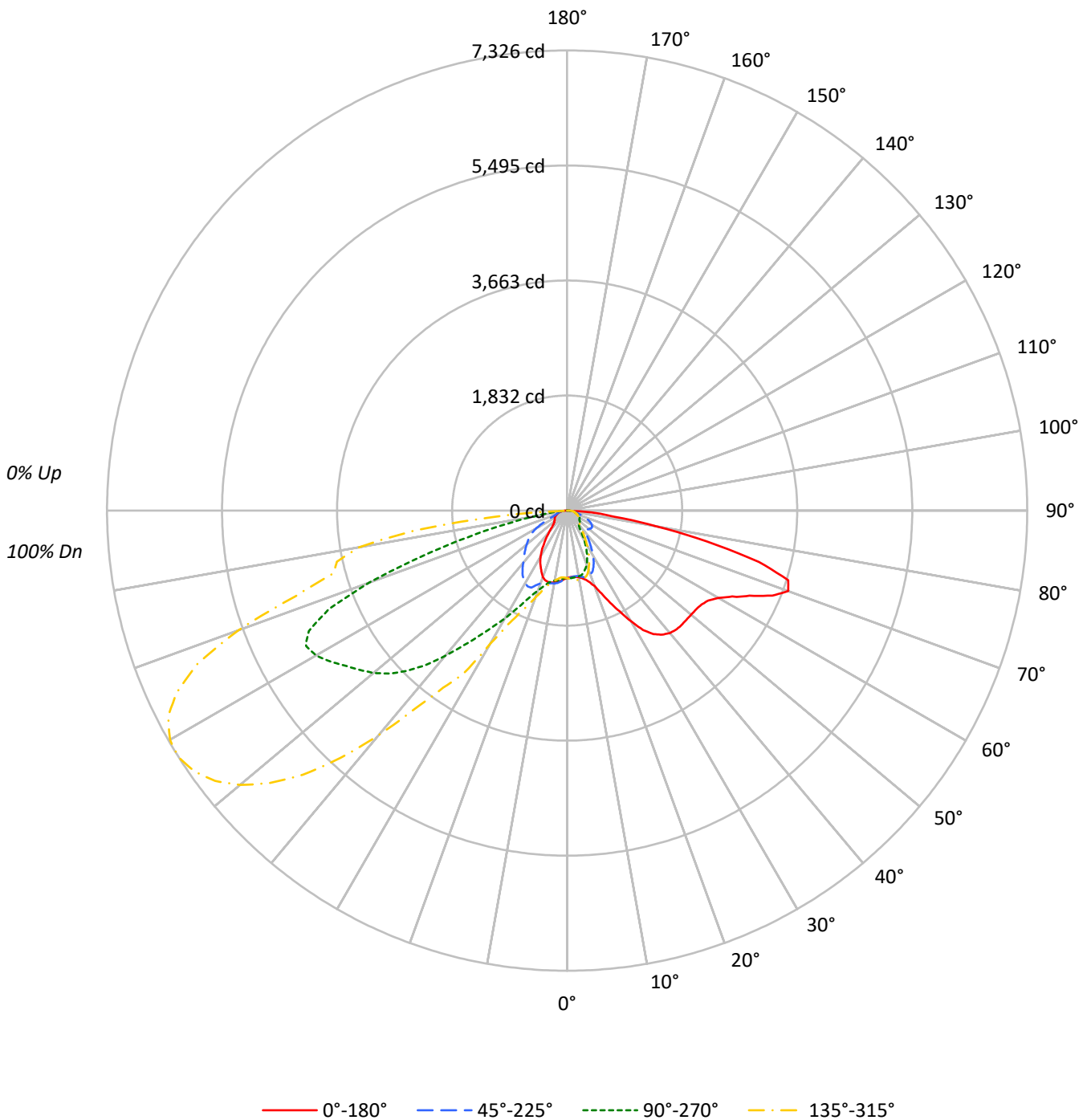
Lumens per Lamp: N/A  
Luminaire Lumens: 8565.3 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 75.2  
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°	23173	23173	23173	23173
5°	22773	23172	24281	23771
10°	23552	23261	25368	24719
15°	25407	22639	26230	26711
20°	29361	20875	25858	31006
25°	38438	17623	23594	37974
30°	50656	13647	21042	49279
35°	63102	9330	16854	63775
40°	71513	8161	12343	84808
45°	78411	8561	9280	109839
50°	86327	8765	8865	134645
55°	97859	8974	9049	161559
60°	119682	9851	9851	198676
65°	163235	10244	10402	231187
70°	235741	10851	10977	210425
75°	262956	11437	12119	136219
80°	179750	12335	13860	66152
85°	116586	15215	16722	32185



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.8	1.2
10°-20°	326.3	3.8
20°-30°	579.7	6.8
30°-40°	912.9	10.7
40°-50°	1343.6	15.7
50°-60°	1784.6	20.8
60°-70°	1965.8	23.0
70°-80°	1233.3	14.4
80°-90°	314.1	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°	1010.9	11.8
0°-40°	1923.8	22.5
0°-60°	5052.0	59.0
0°-90°	8565.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8565.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1076	1076	1076	1076	1076	
5°	1054	1072	1124	1100	1054	102
15°	1140	1016	1177	1198	1140	330
25°	1618	742	993	1599	1618	764
35°	2401	355	641	2427	2401	1488
45°	2576	281	305	3608	2576	1991
55°	2607	239	241	4304	2607	2365
65°	3204	201	204	4538	3204	3226
75°	3161	138	146	1638	3161	3092
85°	472	62	68	130	472	546
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°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1062.0	1065.1	1064.1	1064.1	1066.1	1065.1	1065.1	1066.1	1066.1	1069.2	1073.3
5°	1053.8	1052.8	1050.7	1052.8	1052.8	1052.8	1048.7	1051.8	1052.8	1054.8	1054.8
7.5°	1064.1	1061.0	1056.9	1057.9	1057.9	1055.9	1052.8	1053.8	1052.8	1052.8	1051.8
10°	1077.4	1070.2	1065.1	1065.1	1065.1	1063.0	1057.9	1061.0	1061.0	1060.0	1061.0
12.5°	1101.0	1092.8	1086.6	1084.6	1084.6	1081.5	1077.4	1081.5	1079.5	1079.5	1077.4
15°	1140.0	1130.8	1123.6	1117.4	1118.5	1118.5	1113.3	1110.2	1106.1	1101.0	1090.8
17.5°	1198.5	1188.2	1179.0	1173.9	1174.9	1167.7	1153.3	1139.0	1119.5	1100.0	1078.4
20°	1281.6	1278.5	1266.2	1261.1	1248.8	1231.3	1191.3	1157.4	1119.5	1082.5	1045.6
22.5°	1425.3	1410.9	1398.6	1379.1	1338.0	1289.8	1223.1	1163.6	1104.1	1051.8	1002.5
25°	1618.2	1592.5	1532.0	1472.5	1388.3	1302.1	1211.8	1134.9	1061.0	992.2	931.7
27.5°	1808.0	1730.0	1622.3	1514.5	1391.4	1278.5	1165.7	1074.3	988.1	913.2	846.5
30°	2037.8	1906.5	1741.3	1571.0	1396.5	1244.7	1109.2	1002.5	903.0	824.0	754.2
32.5°	2253.3	2063.5	1847.0	1623.3	1407.8	1212.9	1044.6	923.5	820.9	721.4	652.6
35°	2401.1	2154.8	1892.1	1628.4	1380.1	1152.3	963.5	820.9	718.3	625.9	544.9
37.5°	2489.3	2194.8	1894.2	1591.5	1315.5	1070.2	860.9	719.3	624.9	536.7	473.0
40°	2544.7	2204.1	1867.5	1538.1	1233.4	966.6	758.3	631.1	544.9	474.1	424.8
42.5°	2571.4	2189.7	1824.4	1470.4	1150.3	874.2	686.5	566.4	491.5	441.2	404.3
45°	2575.5	2164.1	1778.2	1408.8	1076.4	807.5	637.2	539.7	478.2	436.1	399.2
47.5°	2575.5	2141.5	1741.3	1363.7	1028.2	778.8	633.1	551.0	490.5	443.3	399.2
50°	2577.6	2134.3	1725.9	1341.1	1011.7	794.2	668.0	585.9	517.2	455.6	398.1
52.5°	2586.8	2143.5	1738.2	1358.6	1041.5	855.8	733.7	638.2	552.0	470.0	398.1
55°	2607.3	2174.3	1790.6	1419.1	1121.5	949.1	812.7	694.7	579.7	476.1	392.0
57.5°	2664.8	2252.3	1886.0	1536.1	1258.0	1056.9	884.5	734.7	590.0	471.0	379.7
60°	2779.7	2407.2	2049.1	1700.3	1402.7	1149.2	926.6	740.8	580.8	454.6	360.2
62.5°	2963.4	2584.8	2247.2	1878.8	1530.9	1200.5	931.7	725.5	556.1	424.8	331.4
63°	3027.0	2628.9	2289.2	1912.7	1547.4	1204.6	927.6	719.3	550.0	416.6	327.3
65°	3204.5	2814.6	2434.9	2031.7	1593.5	1205.7	905.0	688.5	521.3	384.8	298.6
67.5°	3536.0	3058.8	2618.6	2125.1	1610.0	1172.8	847.6	631.1	460.7	335.5	262.7
70°	3745.3	3195.3	2689.4	2127.1	1561.7	1079.5	748.0	537.7	383.8	278.1	225.7
72.5°	3690.9	3060.9	2502.7	1935.2	1353.4	901.9	601.3	422.8	299.6	222.7	187.8
75°	3161.4	2547.8	2041.9	1499.1	1023.0	662.9	440.2	301.7	221.6	174.4	157.0
77.5°	2275.9	1833.7	1464.3	1068.2	689.5	428.9	292.4	215.5	168.3	143.7	129.3
80°	1449.9	1075.4	895.8	642.3	403.3	265.8	201.1	163.2	138.5	120.1	110.8
82.5°	757.3	530.5	431.0	328.4	223.7	175.5	147.8	133.4	113.9	99.5	94.4
85°	472.0	313.0	231.9	162.1	111.8	100.6	92.3	90.3	81.1	71.8	68.7
87.5°	53.4	48.2	50.3	31.8	23.6	25.7	24.6	32.8	31.8	23.6	24.6
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°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1069.2	1071.3	1071.3	1074.3	1074.3	1076.4	1078.4	1078.4	1080.5	1081.5	1083.6
5°	1056.9	1056.9	1056.9	1061.0	1062.0	1068.2	1070.2	1072.3	1074.3	1081.5	1085.6
7.5°	1053.8	1049.7	1051.8	1051.8	1054.8	1060.0	1065.1	1068.2	1071.3	1080.5	1086.6
10°	1060.0	1056.9	1053.8	1053.8	1054.8	1056.9	1061.0	1064.1	1066.1	1075.4	1080.5
12.5°	1076.4	1069.2	1063.0	1057.9	1053.8	1052.8	1050.7	1051.8	1053.8	1058.9	1066.1
15°	1079.5	1066.1	1052.8	1039.4	1029.2	1023.0	1017.9	1015.8	1015.8	1018.9	1027.1
17.5°	1058.9	1036.4	1016.9	999.4	988.1	976.9	971.7	967.6	965.6	969.7	970.7
20°	1014.8	988.1	961.5	940.9	920.4	917.3	909.1	911.2	913.2	919.4	922.5
22.5°	954.3	922.5	889.6	868.1	851.7	837.3	828.1	832.2	835.2	841.4	844.5
25°	880.4	834.2	799.3	777.8	760.3	748.0	737.8	741.9	737.8	745.0	756.2
27.5°	793.2	738.8	701.9	677.2	664.9	654.7	644.4	644.4	654.7	654.7	663.9
30°	687.5	647.5	599.2	573.6	558.2	552.0	551.0	549.0	556.1	560.3	570.5
32.5°	588.0	538.7	492.5	467.9	454.6	447.4	448.4	449.4	452.5	458.7	475.1
35°	487.4	444.3	411.5	383.8	370.4	357.1	357.1	355.0	358.1	365.3	384.8
37.5°	422.8	384.8	359.1	337.6	324.2	316.0	308.9	305.8	305.8	308.9	316.0
40°	386.8	359.1	335.5	317.1	304.8	297.6	293.5	290.4	288.3	288.3	289.4
42.5°	370.4	341.7	318.1	301.7	292.4	288.3	287.3	286.3	283.2	282.2	281.2
45°	362.2	329.4	302.7	289.4	282.2	280.1	281.2	281.2	280.1	278.1	274.0
47.5°	356.1	318.1	291.4	279.1	276.0	276.0	276.0	276.0	275.0	274.0	270.9
50°	345.8	300.6	271.9	262.7	260.6	260.6	261.7	261.7	263.7	261.7	259.6
52.5°	334.5	284.2	255.5	247.3	246.3	245.2	245.2	245.2	246.3	246.3	245.2
55°	322.2	271.9	247.3	241.1	242.2	241.1	240.1	239.1	239.1	238.1	236.0
57.5°	309.9	261.7	241.1	237.0	238.1	238.1	236.0	234.0	232.9	229.8	227.8
60°	291.4	247.3	228.8	226.8	229.8	229.8	229.8	228.8	228.8	227.8	222.7
62.5°	266.8	226.8	212.4	213.4	214.5	216.5	216.5	216.5	216.5	214.5	209.3
63°	261.7	222.7	209.3	209.3	212.4	212.4	213.4	212.4	213.4	211.4	205.2
65°	241.1	209.3	199.1	200.1	202.1	202.1	202.1	201.1	201.1	198.0	195.0
67.5°	217.5	192.9	186.8	187.8	188.8	190.9	189.8	189.8	190.9	188.8	185.7
70°	190.9	175.5	171.4	172.4	173.4	173.4	172.4	172.4	173.4	171.4	168.3
72.5°	170.3	164.2	161.1	161.1	159.0	159.0	157.0	156.0	154.9	154.9	151.9
75°	143.7	142.6	143.7	145.7	143.7	141.6	140.6	137.5	135.4	135.4	134.4
77.5°	123.1	123.1	125.2	128.3	129.3	129.3	126.2	121.1	120.1	120.1	120.1
80°	106.7	104.7	104.7	107.7	110.8	109.8	104.7	99.5	99.5	104.7	105.7
82.5°	93.4	93.4	90.3	91.3	90.3	89.3	84.1	81.1	80.0	84.1	88.2
85°	73.9	74.9	73.9	72.9	71.8	68.7	64.6	61.6	60.5	64.6	70.8
87.5°	29.8	28.7	27.7	28.7	27.7	29.8	28.7	26.7	25.7	28.7	34.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1084.6	1086.6	1088.7	1088.7	1090.8	1089.7	1090.8	1091.8	1091.8	1092.8	1092.8
5°	1090.8	1093.8	1097.9	1102.0	1103.1	1106.1	1109.2	1107.2	1110.2	1114.4	1114.4
7.5°	1092.8	1100.0	1103.1	1109.2	1110.2	1114.4	1121.5	1116.4	1122.6	1125.6	1126.7
10°	1089.7	1096.9	1102.0	1109.2	1112.3	1119.5	1126.7	1124.6	1131.8	1136.9	1138.0
12.5°	1071.3	1078.4	1089.7	1100.0	1108.2	1119.5	1132.8	1128.7	1139.0	1145.1	1148.2
15°	1035.3	1042.5	1054.8	1071.3	1086.6	1104.1	1121.5	1124.6	1134.9	1142.1	1145.1
17.5°	978.9	988.1	1001.5	1018.9	1038.4	1068.2	1090.8	1102.0	1116.4	1120.5	1125.6
20°	926.6	935.8	944.0	954.3	968.6	997.4	1027.1	1049.7	1068.2	1083.6	1087.7
22.5°	856.8	865.0	875.3	883.5	893.7	914.3	938.9	964.5	993.3	1002.5	1012.8
25°	772.7	777.8	792.2	797.3	804.5	821.9	841.4	859.9	887.6	907.1	912.2
27.5°	682.4	687.5	700.8	703.9	713.1	729.6	743.9	751.1	776.8	797.3	813.7
30°	577.7	591.0	607.5	609.5	619.8	630.0	643.4	650.6	674.2	695.7	716.2
32.5°	487.4	500.7	514.1	522.3	527.4	535.6	549.0	556.1	578.7	598.2	618.7
35°	395.1	411.5	425.8	437.1	441.2	451.5	461.7	468.9	492.5	510.0	524.3
37.5°	325.3	337.6	353.0	364.3	375.6	382.7	395.1	405.3	419.7	428.9	444.3
40°	291.4	297.6	305.8	315.0	324.2	332.5	341.7	349.9	359.1	371.5	381.7
42.5°	280.1	281.2	281.2	284.2	289.4	293.5	301.7	307.8	314.0	323.2	328.4
45°	271.9	270.9	268.8	266.8	267.8	269.9	275.0	279.1	286.3	290.4	291.4
47.5°	267.8	263.7	259.6	256.5	255.5	256.5	260.6	264.7	268.8	271.9	272.9
50°	254.5	251.4	245.2	241.1	239.1	241.1	246.3	248.3	252.4	255.5	256.5
52.5°	241.1	237.0	232.9	228.8	228.8	229.8	234.0	238.1	242.2	243.2	245.2
55°	232.9	226.8	222.7	219.6	217.5	220.6	223.7	228.8	234.0	235.0	237.0
57.5°	224.7	218.6	214.5	211.4	209.3	212.4	215.5	222.7	228.8	228.8	228.8
60°	219.6	214.5	208.3	205.2	202.1	205.2	209.3	216.5	222.7	221.6	220.6
62.5°	205.2	200.1	197.0	197.0	193.9	199.1	203.2	211.4	212.4	210.4	208.3
63°	201.1	197.0	195.0	195.0	192.9	198.0	202.1	209.3	209.3	207.3	205.2
65°	190.9	187.8	185.7	187.8	187.8	192.9	193.9	199.1	198.0	195.0	193.9
67.5°	182.6	180.6	178.5	178.5	178.5	179.6	180.6	182.6	181.6	180.6	181.6
70°	169.3	168.3	166.2	166.2	165.2	165.2	165.2	166.2	166.2	167.3	168.3
72.5°	152.9	150.8	150.8	151.9	149.8	150.8	151.9	150.8	152.9	152.9	153.9
75°	134.4	133.4	135.4	137.5	136.5	136.5	137.5	137.5	138.5	138.5	139.6
77.5°	120.1	121.1	122.1	124.2	125.2	125.2	125.2	124.2	125.2	125.2	126.2
80°	106.7	108.8	110.8	112.9	113.9	113.9	113.9	112.9	112.9	112.9	112.9
82.5°	96.5	99.5	101.6	102.6	102.6	102.6	102.6	102.6	102.6	100.6	98.5
85°	81.1	87.2	87.2	88.2	85.2	83.1	81.1	82.1	83.1	79.0	78.0
87.5°	41.0	41.0	43.1	45.1	46.2	46.2	52.3	49.3	48.2	47.2	45.1
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: P153511

CATALOG NUMBER: TLM-E03-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1093.8	1092.8	1094.9	1092.8	1093.8	1094.9	1092.8	1095.9	1097.9	1094.9	1091.8
5°	1116.4	1116.4	1121.5	1123.6	1124.6	1130.8	1127.7	1129.7	1131.8	1130.8	1131.8
7.5°	1130.8	1134.9	1140.0	1145.1	1146.2	1151.3	1150.3	1153.3	1155.4	1160.5	1160.5
10°	1143.1	1148.2	1155.4	1160.5	1165.7	1169.8	1171.8	1178.0	1179.0	1183.1	1183.1
12.5°	1154.4	1160.5	1167.7	1175.9	1181.0	1189.3	1190.3	1199.5	1202.6	1203.6	1200.5
15°	1152.3	1159.5	1167.7	1176.9	1186.2	1196.4	1202.6	1211.8	1217.0	1219.0	1213.9
17.5°	1132.8	1139.0	1149.2	1161.6	1172.8	1186.2	1197.5	1210.8	1219.0	1221.1	1220.0
20°	1094.9	1099.0	1112.3	1128.7	1142.1	1162.6	1179.0	1199.5	1212.9	1223.1	1226.2
22.5°	1019.9	1030.2	1043.5	1062.0	1081.5	1107.2	1130.8	1160.5	1189.3	1213.9	1238.5
25°	929.7	948.1	968.6	993.3	1016.9	1043.5	1070.2	1104.1	1146.2	1197.5	1256.0
27.5°	838.3	870.1	895.8	927.6	955.3	982.0	1011.7	1048.7	1094.9	1156.4	1231.3
30°	746.0	781.9	809.6	846.5	883.5	919.4	949.1	988.1	1033.3	1095.9	1178.0
32.5°	647.5	683.4	716.2	750.1	791.1	834.2	870.1	918.4	966.6	1031.2	1114.4
35°	545.9	577.7	605.4	641.3	686.5	732.6	779.8	835.2	887.6	955.3	1043.5
37.5°	457.6	480.2	506.9	538.7	573.6	622.8	676.2	741.9	801.4	875.3	965.6
40°	384.8	397.1	412.5	439.2	471.0	519.2	571.5	641.3	713.1	794.2	881.4
42.5°	328.4	334.5	338.6	356.1	381.7	428.9	479.2	546.9	625.9	714.2	802.4
45°	291.4	294.5	295.5	304.8	323.2	364.3	416.6	474.1	550.0	636.2	728.5
47.5°	274.0	277.0	279.1	281.2	292.4	324.2	371.5	425.8	495.6	574.6	669.0
50°	259.6	262.7	265.8	264.7	269.9	290.4	330.4	380.7	446.4	519.2	612.6
52.5°	245.2	247.3	247.3	247.3	250.4	263.7	292.4	338.6	399.2	467.9	560.3
55°	237.0	239.1	240.1	241.1	242.2	249.3	270.9	307.8	360.2	423.8	506.9
57.5°	228.8	229.8	231.9	232.9	235.0	239.1	252.4	279.1	323.2	376.6	446.4
60°	221.6	223.7	227.8	228.8	230.9	231.9	238.1	254.5	283.2	324.2	380.7
62.5°	210.4	213.4	217.5	218.6	220.6	221.6	222.7	231.9	245.2	269.9	311.9
63°	207.3	210.4	215.5	216.5	217.5	217.5	218.6	224.7	237.0	258.6	289.4
65°	196.0	200.1	203.2	204.2	205.2	205.2	204.2	206.2	207.3	216.5	235.0
67.5°	183.7	186.8	188.8	189.8	188.8	189.8	188.8	186.8	184.7	186.8	195.0
70°	171.4	173.4	173.4	174.4	175.5	176.5	174.4	172.4	170.3	169.3	174.4
72.5°	157.0	159.0	159.0	160.1	160.1	162.1	162.1	161.1	161.1	162.1	163.2
75°	142.6	144.7	143.7	145.7	145.7	148.8	148.8	149.8	151.9	150.8	149.8
77.5°	129.3	130.3	130.3	131.3	132.4	137.5	140.6	141.6	141.6	139.6	137.5
80°	114.9	114.9	112.9	111.8	112.9	118.0	124.2	125.2	128.3	127.2	128.3
82.5°	96.5	92.3	89.3	89.3	91.3	94.4	96.5	98.5	100.6	100.6	102.6
85°	73.9	69.8	66.7	67.7	70.8	71.8	70.8	70.8	74.9	78.0	74.9
87.5°	44.1	40.0	38.0	34.9	35.9	39.0	38.0	34.9	35.9	28.7	26.7
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: P153511

CATALOG NUMBER: TLM-E03-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1093.8	1092.8	1090.8	1087.7	1086.6	1084.6	1085.6	1082.5	1080.5	1078.4	1075.4
5°	1131.8	1131.8	1125.6	1125.6	1122.6	1121.5	1114.4	1111.3	1105.1	1107.2	1100.0
7.5°	1158.5	1161.6	1154.4	1153.3	1149.2	1148.2	1139.0	1135.9	1130.8	1128.7	1122.6
10°	1178.0	1178.0	1168.7	1161.6	1156.4	1151.3	1142.1	1138.0	1133.8	1134.9	1130.8
12.5°	1193.4	1186.2	1172.8	1162.6	1155.4	1150.3	1143.1	1140.0	1139.0	1146.2	1147.2
15°	1205.7	1195.4	1179.0	1171.8	1165.7	1164.6	1164.6	1167.7	1174.9	1188.2	1198.5
17.5°	1212.9	1206.7	1198.5	1196.4	1206.7	1212.9	1221.1	1230.3	1240.6	1259.0	1270.3
20°	1226.2	1230.3	1236.5	1244.7	1261.1	1276.5	1286.7	1300.1	1312.4	1335.0	1353.4
22.5°	1261.1	1284.7	1304.2	1320.6	1345.2	1366.8	1380.1	1398.6	1407.8	1423.2	1451.9
25°	1306.2	1354.5	1395.5	1430.4	1468.4	1490.9	1509.4	1533.0	1547.4	1573.0	1598.7
27.5°	1292.9	1361.6	1423.2	1487.9	1540.2	1598.7	1639.7	1678.7	1703.3	1741.3	1775.2
30°	1251.8	1333.9	1417.1	1502.2	1585.3	1669.5	1747.5	1818.3	1872.6	1927.0	1982.4
32.5°	1196.4	1290.8	1392.4	1497.1	1605.9	1722.8	1830.6	1937.3	2027.6	2106.6	2183.6
35°	1132.8	1239.5	1345.2	1474.5	1608.9	1757.7	1907.5	2055.3	2192.8	2332.3	2426.7
37.5°	1056.9	1165.7	1283.7	1432.4	1590.5	1774.1	1965.0	2157.9	2352.9	2540.6	2703.8
40°	975.8	1086.6	1210.8	1371.9	1550.4	1763.9	2001.9	2261.5	2529.3	2801.3	3017.8
42.5°	904.0	1017.9	1153.3	1316.5	1510.4	1750.5	2031.7	2350.8	2678.1	3014.7	3332.8
45°	834.2	959.4	1102.0	1277.5	1493.0	1760.8	2075.8	2433.9	2811.5	3219.9	3607.8
47.5°	771.6	898.9	1037.4	1229.3	1467.3	1765.9	2118.9	2517.0	2937.7	3380.0	3840.7
50°	715.2	838.3	974.8	1167.7	1427.3	1762.8	2157.9	2591.9	3046.5	3506.2	4020.3
52.5°	659.8	785.0	924.5	1108.2	1378.1	1745.4	2176.4	2653.5	3147.1	3633.4	4165.0
55°	605.4	728.5	869.1	1051.8	1313.4	1700.3	2174.3	2693.5	3227.1	3753.5	4304.5
57.5°	541.8	658.8	796.3	989.2	1244.7	1630.5	2143.5	2712.0	3295.9	3872.5	4471.8
60°	462.8	572.6	704.9	897.8	1154.4	1541.2	2078.9	2701.7	3335.9	3960.8	4614.4
62.5°	365.3	460.7	581.8	770.6	1041.5	1412.9	1957.8	2608.4	3272.3	3948.5	4681.1
63°	344.8	435.1	553.1	739.8	993.3	1378.1	1921.9	2571.4	3241.5	3922.8	4671.9
65°	277.0	335.5	429.9	597.2	831.1	1206.7	1743.4	2381.6	3076.3	3742.2	4538.5
67.5°	212.4	242.2	292.4	409.4	588.0	949.1	1411.9	2018.3	2669.9	3295.9	4108.5
70°	181.6	195.0	216.5	271.9	373.5	599.2	991.2	1505.3	2069.7	2612.5	3343.1
72.5°	165.2	171.4	182.6	206.2	256.5	359.1	632.1	979.9	1407.8	1862.4	2426.7
75°	151.9	157.0	166.2	178.5	197.0	239.1	360.2	599.2	915.3	1223.1	1637.7
77.5°	138.5	141.6	151.9	163.2	175.5	197.0	238.1	344.8	526.4	721.4	987.1
80°	127.2	125.2	132.4	150.8	163.2	175.5	187.8	223.7	299.6	395.1	533.6
82.5°	101.6	103.6	109.8	128.3	133.4	130.3	132.4	138.5	167.3	182.6	272.9
85°	68.7	63.6	62.6	64.6	64.6	61.6	61.6	60.5	66.7	75.9	130.3
87.5°	18.5	9.2	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: P153511

CATALOG NUMBER: TLM-E03-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1073.3	1072.3	1073.3	1068.2	1068.2	1067.1	1066.1	1064.1	1064.1	1060.0	1063.0
5°	1093.8	1091.8	1087.7	1081.5	1078.4	1074.3	1074.3	1070.2	1067.1	1063.0	1064.1
7.5°	1117.4	1118.5	1111.3	1106.1	1104.1	1100.0	1101.0	1094.9	1095.9	1092.8	1090.8
10°	1130.8	1130.8	1132.8	1131.8	1133.8	1133.8	1136.9	1132.8	1130.8	1127.7	1127.7
12.5°	1152.3	1156.4	1164.6	1164.6	1170.8	1172.8	1173.9	1175.9	1171.8	1169.8	1162.6
15°	1205.7	1215.9	1223.1	1233.4	1245.7	1249.8	1249.8	1245.7	1243.6	1240.6	1227.2
17.5°	1293.9	1316.5	1322.6	1339.1	1341.1	1346.3	1360.6	1352.4	1347.3	1325.7	1321.6
20°	1384.2	1412.9	1441.7	1462.2	1472.5	1493.0	1496.1	1492.0	1471.4	1450.9	1441.7
22.5°	1493.0	1536.1	1568.9	1600.7	1616.1	1626.4	1649.0	1643.8	1627.4	1596.6	1584.3
25°	1646.9	1700.3	1735.1	1774.1	1794.7	1804.9	1827.5	1827.5	1810.0	1800.8	1799.8
27.5°	1840.8	1906.5	1964.0	1977.3	2030.7	2043.0	2064.5	2064.5	2048.1	2036.8	2091.2
30°	2056.3	2125.1	2224.6	2291.3	2355.9	2419.6	2418.5	2422.6	2442.1	2452.4	2476.0
32.5°	2271.8	2357.0	2462.7	2607.3	2745.9	2863.9	3016.8	3114.2	3084.5	3001.4	2968.5
35°	2533.5	2627.9	2756.1	2901.8	3155.3	3308.2	3382.0	3434.4	3440.5	3451.8	3475.4
37.5°	2824.9	2982.9	3131.7	3296.9	3437.5	3623.2	3794.5	3932.0	3963.8	4028.5	3991.6
40°	3193.2	3369.7	3525.7	3739.1	3927.9	4151.6	4396.9	4585.7	4661.6	4637.0	4452.3
42.5°	3579.1	3797.6	3980.3	4231.7	4476.9	4772.4	5025.9	5289.6	5336.8	5146.9	4870.9
45°	3934.1	4205.0	4431.7	4693.4	4993.0	5347.0	5685.7	5956.5	5947.3	5622.0	5252.6
47.5°	4253.2	4585.7	4862.7	5203.4	5525.6	5947.3	6336.2	6536.3	6418.3	6033.5	5581.0
50°	4516.9	4931.5	5273.2	5617.9	6027.3	6535.3	6909.8	7022.7	6794.9	6376.2	5900.1
52.5°	4729.3	5249.6	5633.3	6030.4	6547.6	7082.2	7404.4	7362.3	7067.8	6637.9	6163.8
55°	4908.9	5492.7	5950.4	6419.3	7060.6	7553.2	7767.6	7654.7	7243.3	6807.2	6344.4
57.5°	5094.6	5728.7	6241.8	6785.6	7499.8	7922.6	8041.6	7809.7	7326.4	6871.8	6422.4
60°	5280.3	5925.8	6499.4	7105.8	7832.3	8224.2	8191.4	7844.6	7301.8	6824.6	6370.1
62.5°	5405.5	6042.7	6649.2	7302.8	8081.6	8378.2	8177.0	7720.4	7159.1	6638.9	6214.1
63°	5408.6	6046.8	6658.4	7316.1	8109.3	8383.3	8149.3	7676.3	7114.0	6600.9	6167.9
65°	5344.0	5969.9	6576.3	7255.6	8085.7	8265.3	7910.2	7415.7	6856.4	6338.3	5927.8
67.5°	5013.6	5651.8	6187.4	6827.7	7663.0	7714.3	7270.0	6870.8	6368.0	5831.4	5402.4
70°	4347.6	4878.1	5403.5	5938.1	6638.9	6629.7	6212.0	6008.9	5568.7	4957.1	4613.4
72.5°	3458.0	3934.1	4303.5	4661.6	5123.3	5030.0	4761.1	4817.6	4532.3	4075.7	3871.5
75°	2567.3	3090.6	3271.2	3416.9	3611.9	3612.9	3686.8	3846.9	3842.8	3589.3	3331.8
77.5°	1683.8	2256.4	2316.9	2433.9	2667.9	2986.0	3314.3	3667.3	3755.5	3555.5	3174.8
80°	938.9	1534.0	1464.3	1564.8	1817.2	2249.2	2733.5	3123.5	3353.3	3241.5	2838.2
82.5°	480.2	884.5	845.5	985.1	1189.3	1564.8	1885.0	2184.6	2455.5	2440.1	2287.2
85°	249.3	484.3	551.0	623.9	726.5	860.9	982.0	1069.2	1182.1	1381.1	1448.9
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	73.9	53.4	146.7	209.3
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: P153511

CATALOG NUMBER: TLM-E03-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1064.1	1065.1	1063.0	1063.0	1064.1	1064.1	1062.0
5°	1062.0	1062.0	1060.0	1057.9	1055.9	1055.9	1053.8
7.5°	1085.6	1085.6	1078.4	1075.4	1070.2	1066.1	1064.1
10°	1120.5	1114.4	1106.1	1100.0	1091.8	1082.5	1077.4
12.5°	1155.4	1146.2	1135.9	1126.7	1116.4	1106.1	1101.0
15°	1212.9	1200.5	1187.2	1175.9	1161.6	1146.2	1140.0
17.5°	1301.1	1281.6	1264.2	1247.7	1222.1	1210.8	1198.5
20°	1418.1	1389.3	1366.8	1339.1	1307.3	1297.0	1281.6
22.5°	1559.7	1535.1	1489.9	1469.4	1437.6	1422.2	1425.3
25°	1775.2	1743.4	1691.0	1671.5	1668.4	1634.6	1618.2
27.5°	2056.3	2058.4	2010.1	1957.8	1929.1	1875.7	1808.0
30°	2456.5	2428.8	2372.4	2319.0	2251.3	2150.7	2037.8
32.5°	2940.8	2879.3	2785.9	2686.3	2566.3	2411.3	2253.3
35°	3413.9	3306.1	3157.3	2991.1	2817.7	2624.8	2401.1
37.5°	3829.4	3662.2	3439.5	3248.6	3003.4	2762.3	2489.3
40°	4209.1	4001.8	3714.5	3467.2	3177.8	2868.0	2544.7
42.5°	4576.4	4313.7	3961.8	3627.3	3300.0	2938.8	2571.4
45°	4926.3	4587.7	4170.1	3772.0	3389.2	2984.9	2575.5
47.5°	5195.2	4825.8	4356.8	3876.6	3450.8	3019.8	2575.5
50°	5444.5	5026.9	4499.5	3958.7	3508.3	3043.4	2577.6
52.5°	5638.4	5168.5	4591.8	4017.2	3553.4	3060.9	2586.8
55°	5779.0	5260.8	4653.4	4053.1	3586.2	3085.5	2607.3
57.5°	5877.5	5321.4	4687.2	4084.9	3626.3	3128.6	2664.8
60°	5924.7	5433.2	4743.7	4148.5	3695.0	3219.9	2779.7
62.5°	5888.8	5606.6	4904.8	4256.3	3790.4	3362.5	2963.4
63°	5873.4	5638.4	4948.9	4279.9	3812.0	3393.3	3027.0
65°	5753.4	5670.3	5130.5	4398.9	3914.6	3529.8	3204.5
67.5°	5380.9	5545.1	5283.4	4600.0	4135.2	3861.2	3536.0
70°	4898.6	5359.3	5255.7	4625.7	4275.8	4133.2	3745.3
72.5°	4320.9	4798.1	4701.6	4284.0	4120.8	4136.2	3690.9
75°	3400.5	3758.6	3695.0	3548.3	3581.1	3694.0	3161.4
77.5°	2724.3	2676.1	2529.3	2539.6	2729.4	2861.8	2275.9
80°	2225.6	1801.8	1611.0	1616.1	1947.5	2085.0	1449.9
82.5°	2117.9	1704.4	1388.3	1212.9	1417.1	1364.7	757.3
85°	1508.4	1511.5	1253.9	1018.9	987.1	839.4	472.0
87.5°	357.1	286.3	204.2	151.9	160.1	105.7	53.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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