

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: P152946

Luminaire Tested: **TLM-F03-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152946
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-F03-LED-E1-SLL-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7070.8 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

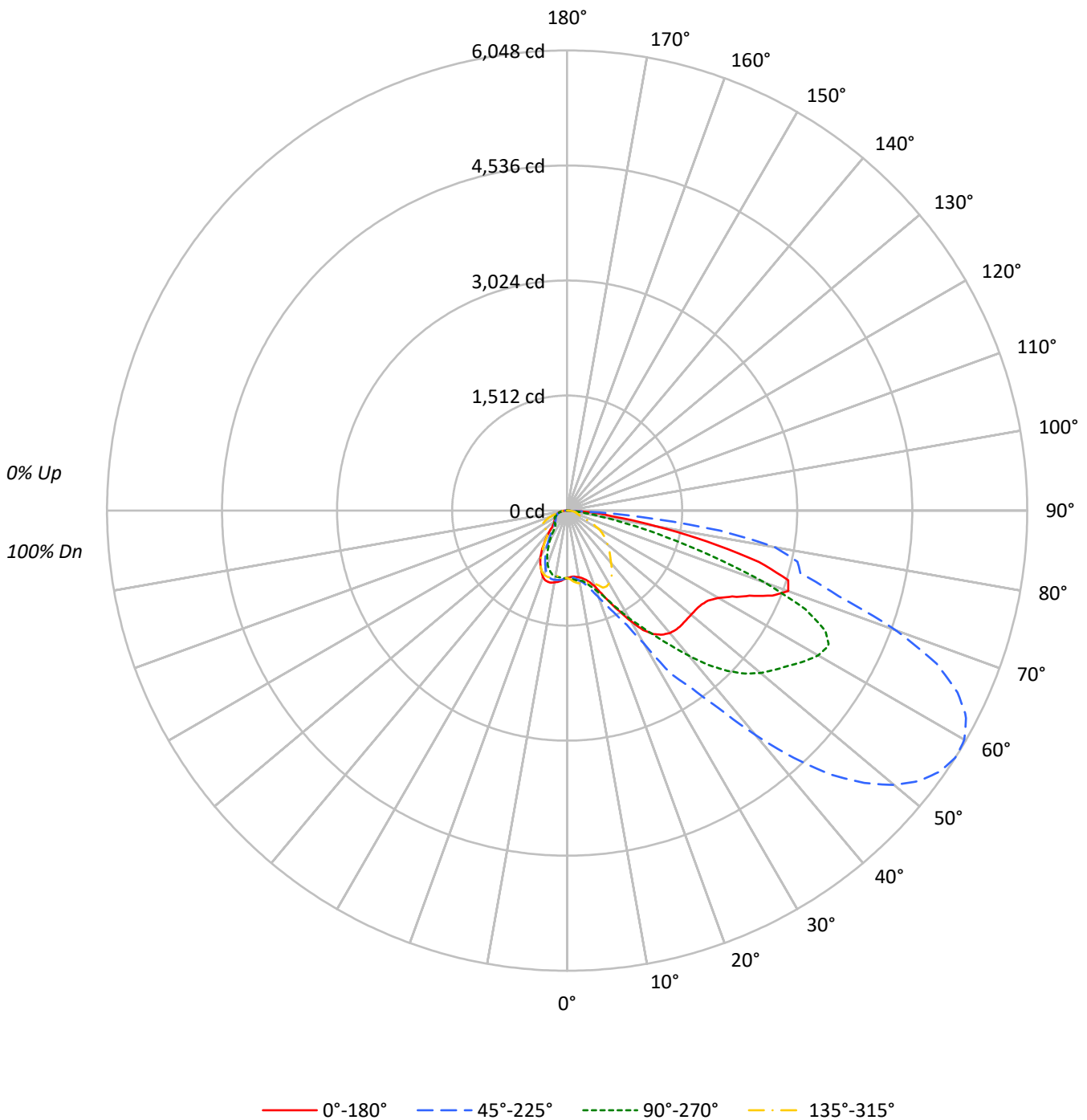
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F03-LED-E1-SLL-7050

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19130	19130	19130	19130
5°	18799	19624	20043	19129
10°	19442	20406	20942	19202
15°	20975	22051	21654	18690
20°	24238	25597	21347	17232
25°	31730	31347	19478	14547
30°	41819	40683	17371	11266
35°	52093	52648	13913	7703
40°	59035	70009	10187	6736
45°	64732	90674	7660	7066
50°	71266	111151	7318	7234
55°	80785	133372	7473	7409
60°	98800	164012	8133	8133
65°	134755	190849	8588	8456
70°	194608	173711	9064	8957
75°	217076	112447	10006	9441
80°	148384	54610	11443	10191
85°	96258	26578	13808	12548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	1.2
10°-20°	269.4	3.8
20°-30°	478.6	6.8
30°-40°	753.7	10.7
40°-50°	1109.2	15.7
50°-60°	1473.3	20.8
60°-70°	1622.8	23.0
70°-80°	1018.1	14.4
80°-90°	259.3	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°	834.5	11.8
0°-40°	1588.1	22.5
0°-60°	4170.6	59.0
0°-90°	7070.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7070.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	889	889	889	889	889	
5°	870	908	928	885	870	84
15°	941	989	972	839	941	273
25°	1336	1320	820	612	1336	630
35°	1982	2003	529	293	1982	1228
45°	2126	2978	252	232	2126	1644
55°	2152	3554	199	197	2152	1952
65°	2645	3747	169	166	2645	2663
75°	2610	1352	120	114	2610	2552
85°	390	108	56	51	390	450
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°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	876.7	878.4	878.4	877.6	877.6	879.3	878.4	877.6	875.0	878.4	878.4
5°	869.9	871.6	871.6	873.3	875.0	876.7	876.7	878.4	877.6	881.0	883.5
7.5°	878.4	880.1	883.5	887.7	890.3	896.2	896.2	900.4	902.1	904.7	903.8
10°	889.4	893.7	901.3	908.1	913.1	919.9	925.0	930.9	930.9	933.5	935.2
12.5°	908.9	913.1	921.6	930.1	937.7	946.2	953.8	959.7	965.7	967.4	970.7
15°	941.1	946.2	958.9	970.7	980.1	991.1	1001.2	1013.1	1024.1	1026.7	1028.3
17.5°	989.4	999.5	1008.9	1030.0	1043.6	1058.0	1074.1	1091.0	1094.4	1112.2	1116.4
20°	1058.0	1070.7	1079.2	1105.4	1128.3	1146.9	1170.7	1190.1	1197.8	1214.7	1231.6
22.5°	1176.6	1174.0	1186.8	1213.0	1230.0	1267.2	1287.6	1307.9	1318.0	1343.5	1357.0
25°	1335.8	1349.4	1377.3	1379.9	1396.0	1439.2	1465.4	1485.8	1486.6	1494.2	1508.6
27.5°	1492.5	1548.5	1592.5	1616.2	1659.4	1699.2	1697.5	1726.3	1681.4	1690.8	1704.3
30°	1682.3	1775.5	1858.5	1914.4	1958.4	2005.0	2027.9	2044.0	2024.5	2016.0	1999.9
32.5°	1860.2	1990.6	2118.5	2217.6	2299.8	2376.9	2427.7	2450.6	2477.7	2546.3	2570.9
35°	1982.2	2166.8	2326.1	2469.2	2606.5	2729.3	2818.2	2869.0	2849.6	2840.2	2835.2
37.5°	2055.0	2280.3	2479.4	2681.8	2839.4	3023.2	3161.3	3295.1	3325.6	3272.3	3246.0
40°	2100.7	2367.6	2623.4	2862.3	3066.4	3303.6	3474.7	3675.5	3827.9	3848.3	3785.6
42.5°	2122.8	2426.0	2724.2	2994.4	3270.6	3561.1	3778.0	4021.1	4248.9	4405.6	4366.7
45°	2126.2	2464.1	2797.9	3113.8	3442.5	3787.3	4066.8	4336.2	4641.1	4909.7	4917.3
47.5°	2126.2	2492.9	2848.7	3200.3	3596.7	3983.8	4288.7	4607.2	4980.8	5298.5	5395.9
50°	2127.9	2512.4	2896.2	3268.0	3714.4	4149.8	4494.6	4870.7	5263.7	5609.3	5797.4
52.5°	2135.5	2526.8	2933.4	3316.3	3790.7	4266.7	4654.7	5088.4	5479.7	5834.7	6077.8
55°	2152.4	2547.2	2960.5	3345.9	3841.5	4343.0	4770.7	5237.5	5619.5	5979.5	6319.2
57.5°	2199.9	2582.7	2993.6	3372.2	3869.4	4392.9	4852.0	5301.8	5672.9	6048.1	6447.1
60°	2294.7	2658.1	3050.3	3424.7	3916.0	4485.3	4891.0	5258.6	5633.9	6027.8	6475.9
62.5°	2446.4	2775.9	3129.1	3513.7	4049.0	4628.4	4861.4	5129.9	5480.6	5910.0	6373.4
63°	2498.9	2801.3	3146.9	3533.2	4085.4	4654.7	4848.7	5091.8	5449.2	5872.8	6337.0
65°	2645.4	2913.9	3231.6	3631.4	4235.4	4680.9	4749.6	4893.6	5232.4	5660.2	6121.8
67.5°	2919.0	3187.5	3413.7	3797.4	4361.6	4577.6	4442.1	4459.9	4813.9	5257.0	5672.0
70°	3091.8	3412.0	3529.8	3818.6	4338.7	4424.3	4043.9	3808.5	4092.2	4597.1	4960.5
72.5°	3046.9	3414.6	3401.9	3536.5	3881.3	3960.9	3567.0	3196.0	3364.6	3741.5	3977.0
75°	2609.8	3049.5	2956.3	2929.2	3050.3	3102.8	2807.2	2750.5	2963.1	3172.3	3175.7
77.5°	1878.8	2362.5	2253.2	2096.5	2088.0	2209.2	2249.0	2620.9	2935.1	3100.3	3027.4
80°	1196.9	1721.3	1607.7	1334.1	1329.9	1487.5	1837.3	2343.0	2675.9	2768.2	2578.5
82.5°	625.1	1126.6	1169.8	1001.2	1146.1	1407.0	1748.4	1888.1	2014.3	2027.1	1803.4
85°	389.7	692.9	814.9	841.1	1035.1	1247.7	1245.2	1196.1	1140.2	975.8	882.7
87.5°	44.0	87.2	132.1	125.4	168.6	236.3	294.8	172.8	121.1	44.0	61.0
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°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	880.1	881.0	881.8	881.8	886.0	885.2	886.0	887.7	890.3	892.0	893.7
5°	886.9	886.9	890.3	892.8	897.9	901.3	903.0	908.1	914.0	912.3	917.4
7.5°	908.9	908.1	911.5	913.1	917.4	923.3	922.5	926.7	931.8	933.5	937.7
10°	938.6	936.0	936.0	934.3	935.2	933.5	933.5	933.5	936.9	936.0	939.4
12.5°	969.1	968.2	966.5	961.4	961.4	954.7	951.3	947.0	946.2	940.3	941.1
15°	1031.7	1031.7	1028.3	1018.2	1009.7	1003.8	995.3	989.4	980.9	969.9	964.0
17.5°	1123.2	1111.4	1107.1	1105.4	1091.9	1086.8	1068.2	1048.7	1039.4	1024.1	1015.6
20°	1235.0	1232.5	1215.6	1207.1	1190.1	1166.4	1142.7	1117.3	1102.0	1083.4	1073.2
22.5°	1361.3	1342.6	1334.1	1321.4	1295.2	1268.1	1232.5	1198.6	1174.9	1162.2	1154.6
25°	1508.6	1490.0	1481.5	1464.6	1432.4	1403.6	1359.6	1319.7	1298.6	1277.4	1265.5
27.5°	1704.3	1686.5	1676.4	1632.3	1621.3	1573.9	1519.7	1465.4	1437.5	1406.1	1385.8
30°	1996.6	1997.4	1944.9	1891.5	1836.5	1754.3	1697.5	1636.6	1590.8	1545.9	1501.0
32.5°	2490.4	2364.2	2266.8	2152.4	2033.0	1945.7	1875.4	1802.6	1739.0	1673.8	1599.3
35°	2792.0	2731.0	2604.8	2395.5	2275.2	2169.4	2091.4	2003.3	1925.4	1810.2	1696.7
37.5°	3132.5	2991.0	2837.7	2721.7	2585.3	2462.4	2332.0	2232.0	2097.4	1942.3	1781.4
40°	3629.7	3427.3	3242.6	3086.7	2910.6	2781.8	2636.1	2491.2	2312.5	2088.0	1867.0
42.5°	4149.0	3939.7	3695.8	3493.3	3285.8	3135.0	2954.6	2751.3	2488.7	2210.9	1940.7
45°	4693.6	4414.1	4121.9	3874.5	3658.5	3471.3	3247.7	2978.3	2658.1	2321.0	2009.3
47.5°	5230.7	4909.7	4561.5	4295.5	4014.3	3785.6	3511.1	3170.6	2790.3	2425.2	2077.9
50°	5704.2	5395.0	4975.7	4637.7	4353.1	4071.0	3728.8	3318.8	2894.5	2515.0	2139.7
52.5°	6112.5	5846.5	5405.2	4978.3	4650.4	4333.6	3904.2	3438.3	2999.5	2598.0	2190.5
55°	6412.4	6235.3	5828.7	5299.3	4912.2	4534.4	4052.4	3553.5	3098.6	2664.1	2223.6
57.5°	6638.5	6540.3	6191.3	5601.7	5152.8	4729.2	4205.7	3691.6	3196.9	2720.8	2238.8
60°	6762.2	6789.3	6465.7	5866.0	5365.4	4891.9	4359.1	3809.3	3269.7	2753.8	2230.4
62.5°	6750.3	6916.4	6671.6	6028.6	5489.1	4988.4	4462.4	3864.4	3259.5	2701.3	2153.3
63°	6727.5	6920.6	6694.4	6039.6	5496.7	4991.8	4464.9	3856.7	3238.4	2675.9	2122.8
65°	6530.1	6823.2	6675.0	5989.7	5428.9	4928.3	4411.6	3746.6	3089.3	2539.5	1966.1
67.5°	6001.5	6368.3	6326.0	5636.4	5107.9	4665.7	4138.8	3391.7	2720.8	2204.1	1666.2
70°	5128.2	5473.0	5480.6	4902.0	4460.7	4027.0	3589.1	2759.8	2156.7	1708.6	1242.7
72.5°	3930.4	4152.4	4229.4	3848.3	3552.6	3247.7	2854.6	2003.3	1537.4	1162.2	809.0
75°	3043.5	2982.6	2981.7	2820.8	2700.5	2551.4	2119.4	1351.9	1009.7	755.6	494.7
77.5°	2736.1	2465.0	2202.4	2009.3	1912.7	1862.7	1390.1	814.9	595.5	434.5	284.6
80°	2256.6	1856.8	1500.2	1291.8	1208.8	1266.4	775.1	440.5	326.1	247.3	184.7
82.5°	1556.1	1291.8	981.8	813.2	698.0	730.2	396.4	225.3	150.8	138.1	114.4
85°	810.7	710.7	599.7	515.0	454.9	399.8	205.8	107.6	62.7	55.1	50.0
87.5°	0.0	0.8	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	896.2	895.4	897.1	897.9	900.4	902.1	903.0	901.3	903.8	906.4	904.7
5°	919.9	925.9	926.7	929.2	929.2	934.3	934.3	934.3	933.5	934.3	932.6
7.5°	940.3	947.9	948.7	952.1	953.0	958.9	956.3	958.0	958.0	953.8	952.1
10°	942.8	950.4	954.7	958.9	964.8	972.4	972.4	976.7	976.7	973.3	972.4
12.5°	943.6	949.6	953.8	959.7	968.2	979.2	985.1	991.1	993.6	992.8	990.2
15°	961.4	961.4	962.3	967.4	973.3	986.8	995.3	1002.1	1006.3	1004.6	1000.4
17.5°	1008.0	1001.2	996.2	987.7	989.4	996.2	1001.2	1007.2	1008.0	1006.3	999.5
20°	1062.2	1053.8	1041.1	1027.5	1020.7	1015.6	1012.3	1012.3	1009.7	1001.2	990.2
22.5°	1139.3	1128.3	1110.5	1090.2	1076.6	1060.5	1041.1	1022.4	1002.1	981.8	958.0
25°	1246.0	1230.8	1212.2	1180.8	1152.0	1118.1	1078.3	1036.8	988.5	946.2	911.5
27.5°	1353.6	1319.7	1271.5	1228.3	1174.9	1124.1	1067.3	1016.5	954.7	903.8	865.7
30°	1442.6	1378.2	1308.7	1240.1	1169.8	1101.2	1033.4	972.4	904.7	853.0	815.7
32.5°	1511.2	1422.2	1325.7	1235.9	1149.5	1065.6	987.7	919.9	851.3	797.9	758.1
35°	1574.7	1451.0	1328.2	1217.2	1110.5	1023.3	935.2	861.5	788.6	732.7	689.5
37.5°	1622.1	1464.6	1313.0	1182.5	1059.7	962.3	872.5	797.1	722.6	661.6	612.4
40°	1652.6	1456.1	1279.9	1132.5	999.5	897.1	805.6	727.6	655.6	588.7	529.4
42.5°	1677.2	1445.1	1246.9	1086.8	952.1	840.3	746.3	662.4	589.6	516.7	451.5
45°	1713.6	1453.6	1232.5	1054.6	909.8	792.0	688.7	601.4	525.2	454.0	391.3
47.5°	1749.2	1457.8	1211.3	1014.8	856.4	742.0	637.0	552.3	474.4	409.1	351.5
50°	1781.4	1455.3	1178.3	964.0	804.7	692.1	590.4	505.7	428.6	368.5	314.3
52.5°	1796.6	1440.9	1137.6	914.8	763.2	648.0	544.7	462.5	386.3	329.5	279.5
55°	1795.0	1403.6	1084.3	868.3	717.5	601.4	499.8	418.5	349.8	297.3	254.1
57.5°	1769.5	1346.0	1027.5	816.6	657.3	543.8	447.3	368.5	310.9	266.8	230.4
60°	1716.2	1272.3	953.0	741.2	581.9	472.7	382.0	314.3	267.7	233.8	210.1
62.5°	1616.2	1166.4	859.8	636.2	480.3	380.3	301.6	257.5	222.8	202.5	191.4
63°	1586.6	1137.6	820.0	610.7	456.6	359.2	284.6	238.9	213.5	195.7	185.5
65°	1439.2	996.2	686.1	493.0	354.9	277.0	228.7	194.0	178.7	171.1	170.3
67.5°	1165.6	783.5	485.4	338.0	241.4	199.9	175.3	160.9	154.2	152.5	154.2
70°	818.3	494.7	308.3	224.5	178.7	160.9	149.9	144.0	139.8	140.6	142.3
72.5°	521.8	296.5	211.8	170.3	150.8	141.5	136.4	134.7	133.8	133.0	133.0
75°	297.3	197.4	162.6	147.4	137.2	129.6	125.4	123.7	124.5	125.4	123.7
77.5°	196.5	162.6	144.8	134.7	125.4	116.9	114.4	113.5	115.2	116.9	116.9
80°	155.0	144.8	134.7	124.5	109.3	103.3	105.0	105.9	105.0	105.9	103.3
82.5°	109.3	107.6	110.1	105.9	90.6	85.6	83.9	84.7	83.0	83.0	81.3
85°	50.8	50.8	53.4	53.4	51.7	52.5	56.8	61.8	64.4	61.8	58.4
87.5°	0.0	0.0	0.0	0.0	0.0	7.6	15.2	22.0	23.7	29.6	28.8
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: P152946

CATALOG NUMBER: TLM-F03-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	902.1	903.8	903.0	902.1	903.8	902.1	903.0	902.1	902.1	901.3	901.3
5°	930.9	933.5	928.4	927.5	925.9	921.6	921.6	919.9	919.9	916.5	914.0
7.5°	949.6	950.4	946.2	945.3	941.1	936.9	933.5	930.1	929.2	926.7	921.6
10°	967.4	965.7	962.3	958.0	953.8	947.9	943.6	939.4	938.6	934.3	928.4
12.5°	982.6	981.8	975.0	970.7	964.0	958.0	953.0	947.9	945.3	940.3	931.8
15°	992.8	987.7	979.2	971.6	964.0	957.2	951.3	945.3	942.8	936.9	928.4
17.5°	988.5	979.2	968.2	958.9	948.7	940.3	935.2	929.2	925.0	921.6	909.8
20°	973.3	959.7	942.8	931.8	918.2	907.2	903.8	897.9	894.5	881.8	866.6
22.5°	933.5	914.0	892.8	876.7	861.5	850.5	842.0	836.1	827.6	820.0	796.3
25°	883.5	861.5	839.5	820.0	799.6	782.7	767.5	753.1	748.8	732.7	709.8
27.5°	835.2	810.7	788.6	765.8	739.5	718.3	692.1	671.7	658.2	641.2	620.1
30°	783.5	759.0	729.3	698.8	668.3	645.5	615.8	591.3	574.3	556.5	537.0
32.5°	718.3	688.7	653.1	619.2	591.3	564.2	534.5	510.8	493.8	477.8	459.1
35°	643.8	604.8	566.7	529.4	499.8	476.9	450.6	432.9	421.0	406.6	387.1
37.5°	558.2	514.2	473.5	444.7	418.5	396.4	377.8	366.8	354.1	346.5	334.6
40°	471.8	428.6	388.8	362.5	340.5	327.8	317.7	315.1	306.6	296.5	288.9
42.5°	395.6	354.1	315.1	293.9	279.5	276.1	271.1	271.1	266.8	259.2	254.1
45°	343.9	300.7	266.8	251.6	244.0	243.1	240.6	240.6	239.7	236.3	230.4
47.5°	306.6	267.7	241.4	232.1	230.4	228.7	226.2	225.3	224.5	221.9	218.5
50°	272.8	239.7	222.8	218.5	219.4	216.9	214.3	211.8	210.9	208.4	205.0
52.5°	241.4	217.7	206.7	204.1	204.1	204.1	202.5	202.5	200.8	199.9	196.5
55°	223.6	205.8	199.9	199.1	198.2	197.4	195.7	195.7	194.0	193.1	188.9
57.5°	208.4	197.4	194.0	192.3	191.4	189.7	188.9	188.9	188.9	188.9	183.8
60°	196.5	191.4	190.6	188.9	188.1	184.7	183.0	182.1	183.0	183.8	178.7
62.5°	183.8	183.0	182.1	180.4	179.6	176.2	173.7	172.0	173.7	175.3	174.5
63°	180.4	179.6	179.6	178.7	177.9	173.7	171.1	169.4	171.1	172.8	172.8
65°	168.6	169.4	169.4	168.6	167.7	165.2	161.8	160.1	160.9	163.5	164.3
67.5°	155.9	156.7	155.9	156.7	155.9	154.2	151.6	149.9	149.1	149.9	150.8
70°	144.0	145.7	144.8	144.0	143.2	143.2	141.5	138.9	138.1	137.2	137.2
72.5°	133.8	133.8	132.1	132.1	131.3	131.3	129.6	127.1	126.2	126.2	124.5
75°	122.8	122.8	120.3	120.3	118.6	119.4	117.7	115.2	114.4	114.4	113.5
77.5°	116.0	113.5	109.3	108.4	107.6	107.6	106.7	104.2	103.3	103.3	102.5
80°	102.5	97.4	93.2	92.3	93.2	94.9	94.9	93.2	93.2	93.2	93.2
82.5°	79.6	77.9	75.4	73.7	73.7	76.2	79.6	81.3	83.0	84.7	84.7
85°	58.4	59.3	58.4	55.9	55.1	57.6	61.0	64.4	65.2	68.6	67.8
87.5°	31.3	32.2	29.6	28.8	31.3	33.0	36.4	37.3	39.0	39.8	40.7
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: P152946

CATALOG NUMBER: TLM-F03-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	900.4	899.6	900.4	898.7	898.7	897.1	895.4	894.5	892.8	892.0	890.3
5°	915.7	913.1	910.6	909.8	906.4	903.0	900.4	896.2	892.8	886.9	885.2
7.5°	925.9	919.9	916.5	915.7	910.6	908.1	902.1	897.1	892.0	884.3	881.8
10°	930.1	924.2	918.2	915.7	909.8	905.5	899.6	892.0	887.7	880.1	878.4
12.5°	935.2	924.2	914.8	908.1	899.6	890.3	884.3	880.1	874.2	869.9	868.3
15°	925.9	911.5	897.1	884.3	870.8	860.6	854.7	847.9	841.1	838.6	838.6
17.5°	900.4	881.8	857.2	841.1	826.7	815.7	808.1	801.3	800.5	797.1	798.8
20°	847.9	823.4	799.6	787.8	779.3	772.5	764.9	761.5	759.0	753.9	752.2
22.5°	775.1	754.7	737.8	729.3	722.6	714.1	707.3	697.1	694.6	689.5	687.0
25°	694.6	678.5	664.1	658.2	653.9	642.1	637.8	624.3	615.0	609.0	612.4
27.5°	614.1	602.3	588.7	581.1	578.6	567.5	563.3	548.1	540.4	540.4	532.0
30°	531.1	520.1	511.6	503.2	501.5	487.9	476.9	471.0	462.5	459.1	453.2
32.5°	453.2	442.2	435.4	431.2	424.4	413.4	402.4	392.2	378.6	373.6	371.0
35°	381.2	372.7	364.2	360.9	351.5	339.7	326.1	317.7	301.6	295.6	293.1
37.5°	326.1	316.0	310.0	300.7	291.4	278.7	268.5	260.9	255.0	252.4	252.4
40°	282.1	274.5	267.7	260.1	252.4	245.7	240.6	238.9	238.0	238.0	239.7
42.5°	249.0	242.3	238.9	234.6	232.1	232.1	231.3	232.1	232.9	233.8	236.3
45°	227.0	222.8	221.1	220.2	221.9	223.6	224.5	226.2	229.6	231.3	232.1
47.5°	215.2	211.8	210.9	211.8	214.3	217.7	221.1	223.6	226.2	227.0	227.9
50°	203.3	199.1	197.4	199.1	202.5	207.5	210.1	214.3	216.0	217.7	216.0
52.5°	193.1	189.7	188.9	188.9	192.3	195.7	199.1	202.5	203.3	203.3	202.5
55°	184.7	182.1	179.6	181.3	183.8	187.2	192.3	194.8	196.5	197.4	197.4
57.5°	177.9	175.3	172.8	174.5	177.0	180.4	185.5	188.1	189.7	192.3	193.1
60°	172.8	169.4	166.9	169.4	172.0	177.0	181.3	183.8	188.1	188.9	188.9
62.5°	167.7	164.3	160.1	162.6	162.6	165.2	169.4	172.8	177.0	178.7	178.7
63°	166.9	163.5	159.3	160.9	160.9	162.6	166.0	169.4	174.5	176.2	175.3
65°	160.1	159.3	155.0	155.0	153.3	155.0	157.6	160.9	163.5	166.0	166.0
67.5°	149.1	148.2	147.4	147.4	147.4	149.1	150.8	153.3	155.9	157.6	156.7
70°	136.4	136.4	136.4	137.2	137.2	138.9	139.8	138.9	141.5	143.2	142.3
72.5°	125.4	124.5	123.7	125.4	124.5	124.5	126.2	125.4	127.9	127.9	128.8
75°	113.5	112.7	112.7	113.5	111.8	110.1	111.0	111.0	111.8	111.8	113.5
77.5°	103.3	103.3	103.3	102.5	100.8	100.0	99.1	99.1	99.1	99.1	100.0
80°	94.0	94.0	94.0	93.2	91.5	89.8	88.1	87.2	86.4	82.2	82.2
82.5°	84.7	84.7	84.7	84.7	83.9	82.2	79.6	72.8	69.5	66.1	66.9
85°	66.9	68.6	70.3	72.8	72.0	72.0	66.9	58.4	53.4	50.0	50.8
87.5°	43.2	38.1	38.1	37.3	35.6	33.9	33.9	28.8	23.7	21.2	22.0
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: P152946

CATALOG NUMBER: TLM-F03-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	890.3	888.6	886.9	886.9	884.3	884.3	882.7	886.0	882.7	880.1	880.1
5°	883.5	881.8	876.7	875.9	872.5	872.5	872.5	870.8	870.8	869.1	868.3
7.5°	879.3	875.0	870.8	868.3	868.3	866.6	869.9	868.3	869.1	869.1	869.9
10°	875.9	872.5	870.8	869.9	869.9	872.5	875.0	875.9	875.0	875.9	875.9
12.5°	867.4	869.1	869.9	873.3	877.6	882.7	888.6	889.4	891.1	891.1	892.8
15°	840.3	844.5	849.6	858.1	869.1	880.1	891.1	900.4	908.9	913.1	916.5
17.5°	802.2	806.4	815.7	825.1	839.5	855.5	874.2	890.3	908.1	924.2	940.3
20°	750.5	757.3	759.8	776.8	793.7	815.7	837.8	863.2	893.7	924.2	955.5
22.5°	683.6	691.2	703.1	716.6	734.4	761.5	787.8	827.6	868.3	911.5	960.6
25°	609.0	617.5	627.7	642.1	659.9	688.7	726.8	769.1	819.1	875.9	936.9
27.5°	532.0	540.4	548.9	559.1	579.4	609.9	654.8	698.8	753.9	815.7	886.9
30°	454.9	455.7	460.8	473.5	494.7	534.5	567.5	622.6	680.2	745.4	827.6
32.5°	370.2	369.3	375.3	386.3	406.6	444.7	485.4	538.7	595.5	677.7	762.4
35°	294.8	294.8	305.8	316.8	339.7	366.8	402.4	449.8	516.7	593.0	677.7
37.5°	255.0	260.9	267.7	278.7	296.5	317.7	349.0	390.5	443.0	515.9	593.8
40°	242.3	245.7	251.6	261.7	277.0	296.5	319.3	350.7	391.3	449.8	521.0
42.5°	237.2	238.0	241.4	249.0	262.6	282.1	305.8	333.7	364.2	405.7	467.6
45°	232.1	231.3	232.9	238.9	249.9	271.9	299.0	329.5	360.0	394.7	445.6
47.5°	227.9	227.9	227.9	230.4	240.6	262.6	293.9	329.5	365.9	404.9	454.9
50°	216.0	215.2	215.2	216.9	224.5	248.2	285.5	328.7	376.1	426.9	483.7
52.5°	202.5	202.5	203.3	204.1	210.9	234.6	276.1	328.7	388.0	455.7	526.9
55°	198.2	199.1	199.9	199.1	204.1	224.5	266.0	323.6	393.0	478.6	573.5
57.5°	194.8	196.5	196.5	195.7	199.1	216.0	255.8	313.4	388.8	487.1	606.5
60°	189.7	189.7	189.7	187.2	188.9	204.1	240.6	297.3	375.3	479.4	611.6
62.5°	178.7	178.7	177.0	176.2	175.3	187.2	220.2	273.6	350.7	459.1	598.9
63°	176.2	175.3	175.3	172.8	172.8	183.8	216.0	270.2	343.9	454.0	593.8
65°	166.9	166.9	166.9	165.2	164.3	172.8	199.1	246.5	317.7	430.3	568.4
67.5°	156.7	157.6	155.9	155.0	154.2	159.3	179.6	216.9	277.0	380.3	521.0
70°	142.3	143.2	143.2	142.3	141.5	144.8	157.6	186.4	229.6	316.8	443.9
72.5°	129.6	131.3	131.3	133.0	133.0	135.5	140.6	155.0	183.8	247.3	349.0
75°	116.0	116.9	118.6	120.3	118.6	117.7	118.6	129.6	144.0	183.0	249.0
77.5°	104.2	106.7	106.7	105.9	103.3	101.6	101.6	106.7	118.6	138.9	177.9
80°	86.4	90.6	91.5	88.9	86.4	86.4	88.1	91.5	99.1	114.4	134.7
82.5°	69.5	73.7	74.5	75.4	74.5	77.1	77.1	77.9	82.2	94.0	110.1
85°	53.4	56.8	59.3	60.1	61.0	61.8	61.0	56.8	59.3	66.9	74.5
87.5°	23.7	24.6	22.9	23.7	22.9	23.7	24.6	20.3	19.5	26.3	27.1
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: P152946

CATALOG NUMBER: TLM-F03-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	888.6	888.6	888.6	888.6	888.6	888.6	888.6
2.5°	879.3	879.3	880.1	878.4	878.4	879.3	876.7
5°	865.7	869.1	869.1	869.1	867.4	869.1	869.9
7.5°	869.1	871.6	873.3	873.3	872.5	875.9	878.4
10°	873.3	877.6	879.3	879.3	879.3	883.5	889.4
12.5°	889.4	892.8	895.4	895.4	897.1	902.1	908.9
15°	919.1	923.3	923.3	922.5	927.5	933.5	941.1
17.5°	952.1	964.0	969.9	969.1	973.3	980.9	989.4
20°	983.5	1016.5	1030.9	1041.1	1045.3	1055.5	1058.0
22.5°	1009.7	1064.8	1104.6	1138.5	1154.6	1164.7	1176.6
25°	1000.4	1074.9	1146.1	1215.6	1264.7	1314.7	1335.8
27.5°	962.3	1055.5	1148.6	1250.3	1339.2	1428.2	1492.5
30°	915.7	1027.5	1152.9	1296.9	1437.5	1573.9	1682.3
32.5°	862.3	1001.2	1162.2	1340.1	1524.7	1703.5	1860.2
35°	795.4	951.3	1139.3	1344.3	1562.0	1778.9	1982.2
37.5°	710.7	883.5	1086.0	1313.8	1563.7	1811.9	2055.0
40°	626.0	797.9	1018.2	1269.8	1541.7	1819.5	2100.7
42.5°	566.7	721.7	949.6	1213.9	1506.1	1807.7	2122.8
45°	526.0	666.6	888.6	1163.0	1468.0	1786.5	2126.2
47.5°	522.6	642.9	848.8	1125.8	1437.5	1767.8	2126.2
50°	551.4	655.6	835.2	1107.1	1424.8	1761.9	2127.9
52.5°	605.7	706.5	859.8	1121.5	1434.9	1769.5	2135.5
55°	670.9	783.5	925.9	1171.5	1478.1	1795.0	2152.4
57.5°	730.2	872.5	1038.5	1268.1	1556.9	1859.3	2199.9
60°	764.9	948.7	1158.0	1403.6	1691.6	1987.2	2294.7
62.5°	769.1	991.1	1263.8	1551.0	1855.1	2133.8	2446.4
63°	765.8	994.5	1277.4	1578.9	1889.8	2170.2	2498.9
65°	747.1	995.3	1315.5	1677.2	2010.1	2323.5	2645.4
67.5°	699.7	968.2	1329.1	1754.3	2161.7	2525.1	2919.0
70°	617.5	891.1	1289.2	1756.0	2220.2	2637.8	3091.8
72.5°	496.4	744.6	1117.3	1597.6	2066.0	2526.8	3046.9
75°	363.4	547.2	844.5	1237.6	1685.7	2103.3	2609.8
77.5°	241.4	354.1	569.2	881.8	1208.8	1513.7	1878.8
80°	166.0	219.4	332.9	530.3	739.5	887.7	1196.9
82.5°	122.0	144.8	184.7	271.1	355.8	437.9	625.1
85°	76.2	83.0	92.3	133.8	191.4	258.4	389.7
87.5°	20.3	21.2	19.5	26.3	41.5	39.8	44.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)