

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: P152944

Luminaire Tested: **TLM-F03-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152944
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6293.9 lumens
Efficiency: N/A
Efficacy: 80.4 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

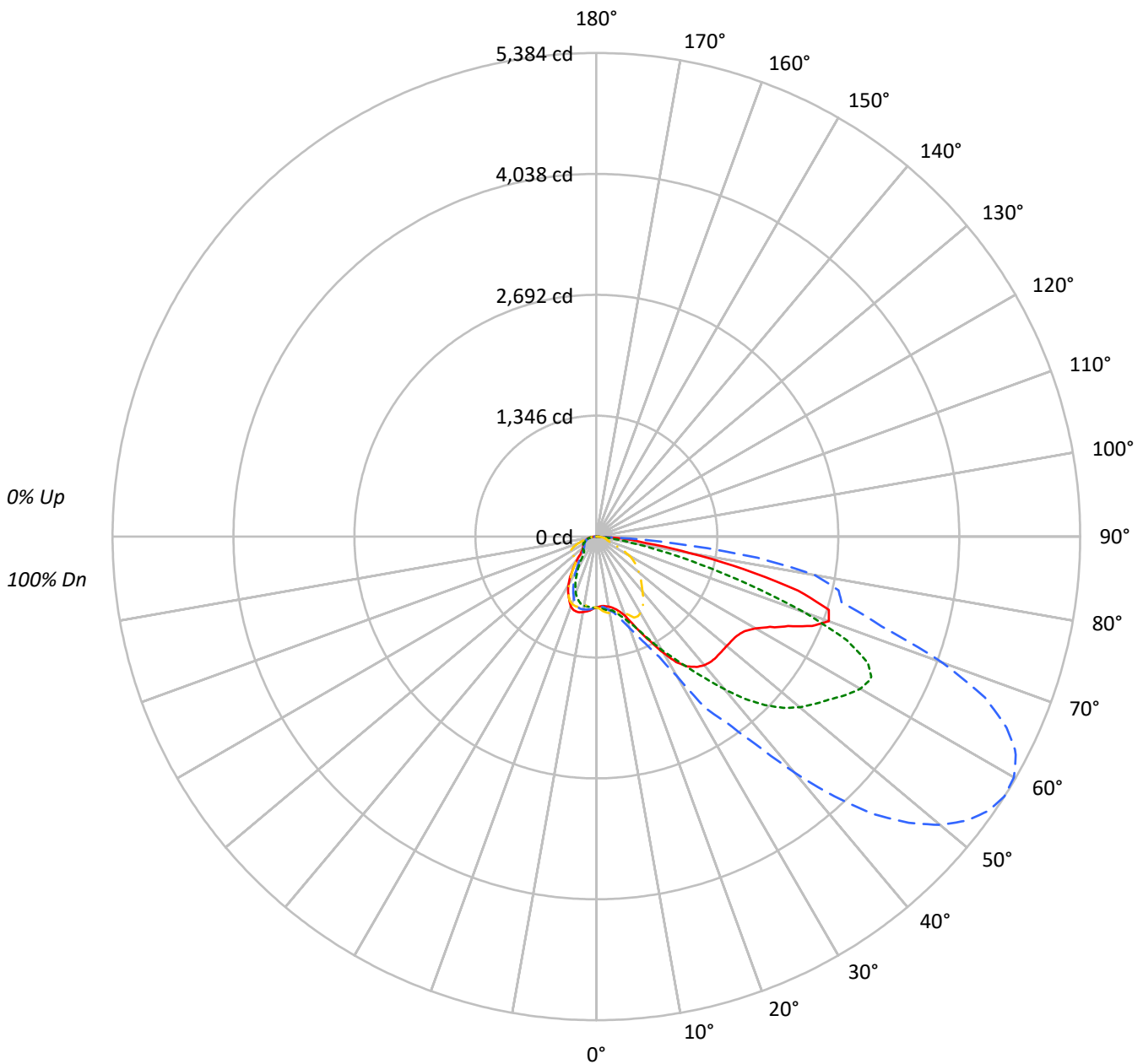
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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°	17026	17026	17026	17026
5°	16735	17467	17841	17027
10°	17307	18163	18642	17092
15°	18670	19628	19274	16637
20°	21574	22783	19001	15338
25°	28243	27903	17338	12948
30°	37223	36211	15462	10028
35°	46367	46864	12383	6857
40°	52549	62317	9069	5997
45°	57617	80710	6817	6290
50°	63433	98937	6514	6440
55°	71909	118716	6651	6594
60°	87945	145989	7238	7238
65°	119947	169877	7641	7529
70°	173226	154620	8069	7975
75°	193229	100095	8908	8401
80°	132082	48610	10191	9062
85°	85661	23663	12301	11165



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.0	1.2
10°-20°	239.8	3.8
20°-30°	426.0	6.8
30°-40°	670.8	10.7
40°-50°	987.3	15.7
50°-60°	1311.4	20.8
60°-70°	1444.5	23.0
70°-80°	906.3	14.4
80°-90°	230.8	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°	742.8	11.8
0°-40°	1413.6	22.5
0°-60°	3712.3	59.0
0°-90°	6293.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6293.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	791	791	791	791	791	
5°	774	808	826	788	774	75
15°	838	881	865	746	838	243
25°	1189	1175	730	545	1189	561
35°	1764	1783	471	261	1764	1093
45°	1892	2651	224	207	1892	1463
55°	1916	3163	177	176	1916	1738
65°	2355	3335	150	148	2355	2371
75°	2323	1203	107	101	2323	2272
85°	347	96	50	45	347	401
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°	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9
2.5°	780.4	781.9	781.9	781.1	781.1	782.6	781.9	781.1	778.9	781.9	781.9
5°	774.4	775.9	775.9	777.4	778.9	780.4	780.4	781.9	781.1	784.2	786.4
7.5°	781.9	783.4	786.4	790.2	792.4	797.7	797.7	801.5	803.0	805.3	804.5
10°	791.7	795.5	802.2	808.3	812.8	818.8	823.4	828.6	828.6	830.9	832.4
12.5°	809.0	812.8	820.3	827.9	834.7	842.2	849.0	854.3	859.6	861.1	864.1
15°	837.7	842.2	853.5	864.1	872.4	882.2	891.2	901.8	911.6	913.8	915.3
17.5°	880.7	889.7	898.0	916.9	928.9	941.7	956.1	971.1	974.2	990.0	993.8
20°	941.7	953.0	960.6	984.0	1004.3	1020.9	1042.0	1059.4	1066.1	1081.2	1096.3
22.5°	1047.3	1045.0	1056.3	1079.7	1094.8	1128.0	1146.1	1164.2	1173.2	1195.8	1207.9
25°	1189.0	1201.1	1226.0	1228.3	1242.6	1281.0	1304.4	1322.5	1323.3	1330.0	1342.9
27.5°	1328.5	1378.3	1417.5	1438.6	1477.1	1512.5	1511.0	1536.6	1496.7	1505.0	1517.0
30°	1497.4	1580.4	1654.3	1704.0	1743.2	1784.7	1805.1	1819.4	1802.0	1794.5	1780.2
32.5°	1655.8	1771.9	1885.7	1974.0	2047.1	2115.7	2160.9	2181.3	2205.4	2266.5	2288.4
35°	1764.3	1928.7	2070.5	2197.9	2320.0	2429.4	2508.5	2553.8	2536.4	2528.1	2523.6
37.5°	1829.2	2029.8	2206.9	2387.1	2527.4	2691.0	2813.9	2933.0	2960.2	2912.7	2889.3
40°	1869.9	2107.4	2335.1	2547.7	2729.5	2940.6	3092.9	3271.6	3407.3	3425.4	3369.6
42.5°	1889.5	2159.4	2424.8	2665.4	2911.2	3169.8	3362.8	3579.2	3782.0	3921.5	3886.8
45°	1892.5	2193.4	2490.4	2771.7	3064.2	3371.1	3619.9	3859.7	4131.1	4370.1	4376.9
47.5°	1892.5	2219.0	2535.7	2848.6	3201.5	3546.0	3817.5	4101.0	4433.5	4716.2	4802.9
50°	1894.0	2236.3	2577.9	2908.9	3306.3	3693.8	4000.7	4335.5	4685.3	4992.9	5160.3
52.5°	1900.8	2249.2	2611.1	2951.9	3374.1	3797.9	4143.2	4529.2	4877.6	5193.5	5409.9
55°	1915.9	2267.3	2635.2	2978.3	3419.4	3865.7	4246.5	4661.9	5002.0	5322.4	5624.8
57.5°	1958.1	2298.9	2664.6	3001.6	3444.2	3910.2	4318.9	4719.2	5049.5	5383.5	5738.6
60°	2042.6	2366.0	2715.1	3048.4	3485.7	3992.4	4353.6	4680.8	5014.8	5365.4	5764.3
62.5°	2177.5	2470.8	2785.3	3127.6	3604.1	4119.8	4327.2	4566.2	4878.3	5260.6	5673.0
63°	2224.3	2493.5	2801.1	3144.9	3636.5	4143.2	4315.9	4532.3	4850.4	5227.4	5640.6
65°	2354.7	2593.7	2876.5	3232.4	3770.0	4166.6	4227.6	4355.8	4657.4	5038.2	5449.1
67.5°	2598.3	2837.3	3038.6	3380.2	3882.3	4074.6	3953.9	3969.8	4284.9	4679.3	5048.7
70°	2752.1	3037.1	3141.9	3399.0	3862.0	3938.1	3599.6	3390.0	3642.5	4091.9	4415.4
72.5°	2712.1	3039.3	3028.0	3147.9	3454.8	3525.7	3175.1	2844.8	2994.9	3330.4	3540.0
75°	2323.1	2714.4	2631.4	2607.3	2715.1	2761.9	2498.7	2448.2	2637.5	2823.7	2826.7
77.5°	1672.4	2102.9	2005.6	1866.1	1858.6	1966.4	2001.9	2332.9	2612.6	2759.6	2694.8
80°	1065.4	1532.1	1431.1	1187.5	1183.8	1324.0	1635.4	2085.5	2381.9	2464.1	2295.2
82.5°	556.4	1002.8	1041.3	891.2	1020.2	1252.4	1556.2	1680.7	1793.0	1804.3	1605.3
85°	346.8	616.8	725.3	748.7	921.4	1110.6	1108.4	1064.6	1014.9	868.6	785.7
87.5°	39.2	77.7	117.6	111.6	150.0	210.4	262.4	153.8	107.8	39.2	54.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9
2.5°	783.4	784.2	784.9	784.9	788.7	787.9	788.7	790.2	792.4	794.0	795.5
5°	789.4	789.4	792.4	794.7	799.2	802.2	803.8	808.3	813.6	812.1	816.6
7.5°	809.0	808.3	811.3	812.8	816.6	821.9	821.1	824.9	829.4	830.9	834.7
10°	835.4	833.2	833.2	831.7	832.4	830.9	830.9	830.9	833.9	833.2	836.2
12.5°	862.6	861.8	860.3	855.8	855.8	849.8	846.7	843.0	842.2	836.9	837.7
15°	918.4	918.4	915.3	906.3	898.8	893.5	885.9	880.7	873.1	863.3	858.0
17.5°	999.8	989.2	985.5	984.0	971.9	967.4	950.8	933.4	925.1	911.6	904.0
20°	1099.3	1097.1	1082.0	1074.4	1059.4	1038.2	1017.1	994.5	980.9	964.4	955.3
22.5°	1211.7	1195.1	1187.5	1176.2	1152.9	1128.7	1097.1	1066.9	1045.8	1034.5	1027.7
25°	1342.9	1326.3	1318.7	1303.7	1275.0	1249.4	1210.2	1174.7	1155.9	1137.0	1126.5
27.5°	1517.0	1501.2	1492.2	1452.9	1443.1	1400.9	1352.7	1304.4	1279.5	1251.6	1233.5
30°	1777.2	1777.9	1731.2	1683.7	1634.7	1561.5	1511.0	1456.7	1416.0	1376.0	1336.1
32.5°	2216.7	2104.4	2017.7	1915.9	1809.6	1731.9	1669.3	1604.5	1547.9	1489.9	1423.5
35°	2485.2	2430.9	2318.5	2132.3	2025.2	1931.0	1861.6	1783.2	1713.8	1611.3	1510.2
37.5°	2788.3	2662.4	2525.9	2422.6	2301.2	2191.9	2075.7	1986.8	1866.9	1728.9	1585.6
40°	3230.9	3050.7	2886.3	2747.6	2590.7	2476.1	2346.4	2217.5	2058.4	1858.6	1661.8
42.5°	3693.1	3506.8	3289.7	3109.5	2924.7	2790.5	2629.9	2449.0	2215.2	1967.9	1727.4
45°	4177.9	3929.1	3668.9	3448.8	3256.5	3089.9	2890.8	2651.0	2366.0	2065.9	1788.5
47.5°	4655.9	4370.1	4060.3	3823.5	3573.2	3369.6	3125.3	2822.2	2483.7	2158.7	1849.5
50°	5077.4	4802.2	4429.0	4128.1	3874.8	3623.7	3319.1	2954.1	2576.4	2238.6	1904.6
52.5°	5440.8	5204.1	4811.2	4431.2	4139.4	3857.4	3475.2	3060.5	2669.9	2312.5	1949.8
55°	5707.7	5550.1	5188.2	4717.0	4372.4	4036.1	3607.1	3163.0	2758.1	2371.3	1979.2
57.5°	5909.0	5821.6	5510.9	4986.2	4586.5	4209.5	3743.6	3285.9	2845.6	2421.8	1992.8
60°	6019.1	6043.3	5755.2	5221.4	4775.8	4354.3	3880.1	3390.7	2910.4	2451.2	1985.3
62.5°	6008.6	6156.4	5938.5	5366.2	4885.9	4440.3	3972.0	3439.7	2901.4	2404.5	1916.7
63°	5988.2	6160.1	5958.8	5376.0	4892.7	4443.3	3974.3	3432.9	2882.5	2381.9	1889.5
65°	5812.5	6073.4	5941.5	5331.5	4832.3	4386.7	3926.8	3334.9	2749.8	2260.5	1750.0
67.5°	5342.0	5668.5	5630.8	5017.1	4546.6	4153.0	3684.0	3019.0	2421.8	1961.9	1483.1
70°	4564.7	4871.6	4878.3	4363.4	3970.5	3584.5	3194.7	2456.5	1919.7	1520.8	1106.1
72.5°	3498.5	3696.1	3764.7	3425.4	3162.2	2890.8	2541.0	1783.2	1368.5	1034.5	720.1
75°	2709.1	2654.8	2654.1	2510.8	2403.7	2271.0	1886.5	1203.4	898.8	672.6	440.3
77.5°	2435.4	2194.1	1960.4	1788.5	1702.5	1658.0	1237.3	725.3	530.1	386.8	253.3
80°	2008.6	1652.8	1335.3	1149.8	1075.9	1127.2	689.9	392.1	290.3	220.2	164.4
82.5°	1385.1	1149.8	873.9	723.8	621.3	649.9	352.9	200.6	134.2	122.9	101.8
85°	721.6	632.6	533.8	458.4	404.9	355.9	183.2	95.8	55.8	49.0	44.5
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°	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9
2.5°	797.7	797.0	798.5	799.2	801.5	803.0	803.8	802.2	804.5	806.8	805.3
5°	818.8	824.1	824.9	827.1	827.1	831.7	831.7	831.7	830.9	831.7	830.1
7.5°	836.9	843.7	844.5	847.5	848.2	853.5	851.3	852.8	852.8	849.0	847.5
10°	839.2	846.0	849.8	853.5	858.8	865.6	865.6	869.4	869.4	866.3	865.6
12.5°	839.9	845.2	849.0	854.3	861.8	871.6	876.9	882.2	884.4	883.7	881.4
15°	855.8	855.8	856.5	861.1	866.3	878.4	885.9	892.0	895.7	894.2	890.5
17.5°	897.3	891.2	886.7	879.2	880.7	886.7	891.2	896.5	897.3	895.7	889.7
20°	945.5	938.0	926.7	914.6	908.6	904.0	901.0	901.0	898.8	891.2	881.4
22.5°	1014.1	1004.3	988.5	970.4	958.3	944.0	926.7	910.1	892.0	873.9	852.8
25°	1109.1	1095.6	1079.0	1051.1	1025.4	995.3	959.8	922.9	879.9	842.2	811.3
27.5°	1204.9	1174.7	1131.7	1093.3	1045.8	1000.5	950.0	904.8	849.8	804.5	770.6
30°	1284.1	1226.7	1164.9	1103.8	1041.3	980.2	919.9	865.6	805.3	759.3	726.1
32.5°	1345.1	1266.0	1180.0	1100.1	1023.2	948.5	879.2	818.8	757.8	710.3	674.8
35°	1401.7	1291.6	1182.3	1083.5	988.5	910.8	832.4	766.8	702.0	652.2	613.8
37.5°	1443.9	1303.7	1168.7	1052.6	943.2	856.5	776.6	709.5	643.2	588.9	545.1
40°	1471.0	1296.1	1139.3	1008.1	889.7	798.5	717.0	647.7	583.6	524.0	471.2
42.5°	1492.9	1286.3	1109.9	967.4	847.5	748.0	664.3	589.6	524.8	459.9	401.9
45°	1525.3	1293.9	1097.1	938.7	809.8	705.0	613.0	535.3	467.5	404.1	348.3
47.5°	1557.0	1297.6	1078.2	903.3	762.3	660.5	567.0	491.6	422.2	364.2	312.9
50°	1585.6	1295.4	1048.8	858.0	716.3	616.0	525.5	450.1	381.5	328.0	279.7
52.5°	1599.2	1282.5	1012.6	814.3	679.3	576.8	484.8	411.7	343.8	293.3	248.8
55°	1597.7	1249.4	965.1	772.8	638.6	535.3	444.9	372.5	311.4	264.7	226.2
57.5°	1575.1	1198.1	914.6	726.8	585.1	484.1	398.1	328.0	276.7	237.5	205.1
60°	1527.6	1132.5	848.2	659.7	518.0	420.7	340.1	279.7	238.3	208.1	187.0
62.5°	1438.6	1038.2	765.3	566.2	427.5	338.5	268.4	229.2	198.3	180.2	170.4
63°	1412.2	1012.6	729.9	543.6	406.4	319.7	253.3	212.6	190.0	174.2	165.1
65°	1281.0	886.7	610.7	438.8	315.9	246.6	203.6	172.7	159.1	152.3	151.6
67.5°	1037.5	697.4	432.0	300.8	214.9	177.9	156.1	143.3	137.2	135.7	137.2
70°	728.4	440.3	274.5	199.8	159.1	143.3	133.5	128.2	124.4	125.2	126.7
72.5°	464.5	263.9	188.5	151.6	134.2	125.9	121.4	119.9	119.1	118.4	118.4
75°	264.7	175.7	144.8	131.2	122.1	115.4	111.6	110.1	110.8	111.6	110.1
77.5°	174.9	144.8	128.9	119.9	111.6	104.1	101.8	101.0	102.5	104.1	104.1
80°	138.0	128.9	119.9	110.8	97.3	92.0	93.5	94.2	93.5	94.2	92.0
82.5°	97.3	95.8	98.0	94.2	80.7	76.2	74.6	75.4	73.9	73.9	72.4
85°	45.2	45.2	47.5	47.5	46.0	46.7	50.5	55.0	57.3	55.0	52.0
87.5°	0.0	0.0	0.0	0.0	0.0	6.8	13.6	19.6	21.1	26.4	25.6
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: P152944

CATALOG NUMBER: TLM-F03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9
2.5°	803.0	804.5	803.8	803.0	804.5	803.0	803.8	803.0	803.0	802.2	802.2
5°	828.6	830.9	826.4	825.6	824.1	820.3	820.3	818.8	818.8	815.8	813.6
7.5°	845.2	846.0	842.2	841.5	837.7	833.9	830.9	827.9	827.1	824.9	820.3
10°	861.1	859.6	856.5	852.8	849.0	843.7	839.9	836.2	835.4	831.7	826.4
12.5°	874.6	873.9	867.8	864.1	858.0	852.8	848.2	843.7	841.5	836.9	829.4
15°	883.7	879.2	871.6	864.8	858.0	852.0	846.7	841.5	839.2	833.9	826.4
17.5°	879.9	871.6	861.8	853.5	844.5	836.9	832.4	827.1	823.4	820.3	809.8
20°	866.3	854.3	839.2	829.4	817.3	807.5	804.5	799.2	796.2	784.9	771.3
22.5°	830.9	813.6	794.7	780.4	766.8	757.0	749.5	744.2	736.7	729.9	708.8
25°	786.4	766.8	747.2	729.9	711.8	696.7	683.1	670.3	666.5	652.2	631.8
27.5°	743.4	721.6	702.0	681.6	658.2	639.4	616.0	597.9	585.9	570.8	551.9
30°	697.4	675.6	649.2	622.0	594.9	574.5	548.2	526.3	511.2	495.4	478.0
32.5°	639.4	613.0	581.3	551.2	526.3	502.2	475.8	454.7	439.6	425.3	408.7
35°	573.0	538.4	504.4	471.2	444.9	424.5	401.1	385.3	374.7	361.9	344.6
37.5°	496.9	457.7	421.5	395.8	372.5	352.9	336.3	326.5	315.2	308.4	297.8
40°	420.0	381.5	346.1	322.7	303.1	291.8	282.7	280.5	272.9	263.9	257.1
42.5°	352.1	315.2	280.5	261.6	248.8	245.8	241.3	241.3	237.5	230.7	226.2
45°	306.1	267.7	237.5	223.9	217.2	216.4	214.1	214.1	213.4	210.4	205.1
47.5°	272.9	238.3	214.9	206.6	205.1	203.6	201.3	200.6	199.8	197.5	194.5
50°	242.8	213.4	198.3	194.5	195.3	193.0	190.8	188.5	187.7	185.5	182.5
52.5°	214.9	193.8	184.0	181.7	181.7	181.7	180.2	180.2	178.7	177.9	174.9
55°	199.1	183.2	177.9	177.2	176.4	175.7	174.2	174.2	172.7	171.9	168.1
57.5°	185.5	175.7	172.7	171.2	170.4	168.9	168.1	168.1	168.1	168.1	163.6
60°	174.9	170.4	169.6	168.1	167.4	164.4	162.9	162.1	162.9	163.6	159.1
62.5°	163.6	162.9	162.1	160.6	159.8	156.8	154.6	153.1	154.6	156.1	155.3
63°	160.6	159.8	159.8	159.1	158.3	154.6	152.3	150.8	152.3	153.8	153.8
65°	150.0	150.8	150.8	150.0	149.3	147.0	144.0	142.5	143.3	145.5	146.3
67.5°	138.7	139.5	138.7	139.5	138.7	137.2	135.0	133.5	132.7	133.5	134.2
70°	128.2	129.7	128.9	128.2	127.4	127.4	125.9	123.7	122.9	122.1	122.1
72.5°	119.1	119.1	117.6	117.6	116.9	116.9	115.4	113.1	112.3	112.3	110.8
75°	109.3	109.3	107.1	107.1	105.6	106.3	104.8	102.5	101.8	101.8	101.0
77.5°	103.3	101.0	97.3	96.5	95.8	95.8	95.0	92.7	92.0	92.0	91.2
80°	91.2	86.7	82.9	82.2	82.9	84.4	84.4	82.9	82.9	82.9	82.9
82.5°	70.9	69.4	67.1	65.6	65.6	67.9	70.9	72.4	73.9	75.4	75.4
85°	52.0	52.8	52.0	49.8	49.0	51.3	54.3	57.3	58.1	61.1	60.3
87.5°	27.9	28.7	26.4	25.6	27.9	29.4	32.4	33.2	34.7	35.4	36.2
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: P152944

CATALOG NUMBER: TLM-F03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9
2.5°	801.5	800.7	801.5	800.0	800.0	798.5	797.0	796.2	794.7	794.0	792.4
5°	815.1	812.8	810.5	809.8	806.8	803.8	801.5	797.7	794.7	789.4	787.9
7.5°	824.1	818.8	815.8	815.1	810.5	808.3	803.0	798.5	794.0	787.2	784.9
10°	827.9	822.6	817.3	815.1	809.8	806.0	800.7	794.0	790.2	783.4	781.9
12.5°	832.4	822.6	814.3	808.3	800.7	792.4	787.2	783.4	778.1	774.4	772.8
15°	824.1	811.3	798.5	787.2	775.1	766.1	760.8	754.7	748.7	746.5	746.5
17.5°	801.5	784.9	763.0	748.7	735.9	726.1	719.3	713.3	712.5	709.5	711.0
20°	754.7	732.9	711.8	701.2	693.7	687.6	680.9	677.8	675.6	671.1	669.5
22.5°	689.9	671.8	656.7	649.2	643.2	635.6	629.6	620.5	618.3	613.8	611.5
25°	618.3	603.9	591.1	585.9	582.1	571.5	567.8	555.7	547.4	542.1	545.1
27.5°	546.6	536.1	524.0	517.2	515.0	505.2	501.4	487.8	481.0	481.0	473.5
30°	472.8	463.0	455.4	447.9	446.4	434.3	424.5	419.2	411.7	408.7	403.4
32.5°	403.4	393.6	387.6	383.8	377.8	367.9	358.1	349.1	337.0	332.5	330.2
35°	339.3	331.8	324.2	321.2	312.9	302.4	290.3	282.7	268.4	263.1	260.9
37.5°	290.3	281.2	276.0	267.7	259.4	248.1	239.0	232.2	227.0	224.7	224.7
40°	251.1	244.3	238.3	231.5	224.7	218.7	214.1	212.6	211.9	211.9	213.4
42.5°	221.7	215.6	212.6	208.9	206.6	206.6	205.8	206.6	207.3	208.1	210.4
45°	202.1	198.3	196.8	196.0	197.5	199.1	199.8	201.3	204.3	205.8	206.6
47.5°	191.5	188.5	187.7	188.5	190.8	193.8	196.8	199.1	201.3	202.1	202.8
50°	181.0	177.2	175.7	177.2	180.2	184.7	187.0	190.8	192.3	193.8	192.3
52.5°	171.9	168.9	168.1	168.1	171.2	174.2	177.2	180.2	181.0	181.0	180.2
55°	164.4	162.1	159.8	161.4	163.6	166.6	171.2	173.4	174.9	175.7	175.7
57.5°	158.3	156.1	153.8	155.3	157.6	160.6	165.1	167.4	168.9	171.2	171.9
60°	153.8	150.8	148.5	150.8	153.1	157.6	161.4	163.6	167.4	168.1	168.1
62.5°	149.3	146.3	142.5	144.8	144.8	147.0	150.8	153.8	157.6	159.1	159.1
63°	148.5	145.5	141.8	143.3	143.3	144.8	147.8	150.8	155.3	156.8	156.1
65°	142.5	141.8	138.0	138.0	136.5	138.0	140.2	143.3	145.5	147.8	147.8
67.5°	132.7	131.9	131.2	131.2	131.2	132.7	134.2	136.5	138.7	140.2	139.5
70°	121.4	121.4	121.4	122.1	122.1	123.7	124.4	123.7	125.9	127.4	126.7
72.5°	111.6	110.8	110.1	111.6	110.8	110.8	112.3	111.6	113.9	113.9	114.6
75°	101.0	100.3	100.3	101.0	99.5	98.0	98.8	98.8	99.5	99.5	101.0
77.5°	92.0	92.0	92.0	91.2	89.7	89.0	88.2	88.2	88.2	88.2	89.0
80°	83.7	83.7	83.7	82.9	81.4	79.9	78.4	77.7	76.9	73.1	73.1
82.5°	75.4	75.4	75.4	75.4	74.6	73.1	70.9	64.8	61.8	58.8	59.6
85°	59.6	61.1	62.6	64.8	64.1	64.1	59.6	52.0	47.5	44.5	45.2
87.5°	38.5	33.9	33.9	33.2	31.7	30.2	30.2	25.6	21.1	18.8	19.6
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: P152944

CATALOG NUMBER: TLM-F03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9	790.9
2.5°	792.4	790.9	789.4	789.4	787.2	787.2	785.7	788.7	785.7	783.4	783.4
5°	786.4	784.9	780.4	779.6	776.6	776.6	776.6	775.1	775.1	773.6	772.8
7.5°	782.6	778.9	775.1	772.8	772.8	771.3	774.4	772.8	773.6	773.6	774.4
10°	779.6	776.6	775.1	774.4	774.4	776.6	778.9	779.6	778.9	779.6	779.6
12.5°	772.1	773.6	774.4	777.4	781.1	785.7	790.9	791.7	793.2	793.2	794.7
15°	748.0	751.7	756.3	763.8	773.6	783.4	793.2	801.5	809.0	812.8	815.8
17.5°	714.0	717.8	726.1	734.4	747.2	761.5	778.1	792.4	808.3	822.6	836.9
20°	668.0	674.1	676.3	691.4	706.5	726.1	745.7	768.3	795.5	822.6	850.5
22.5°	608.5	615.3	625.8	637.9	653.7	677.8	701.2	736.7	772.8	811.3	855.0
25°	542.1	549.7	558.7	571.5	587.4	613.0	646.9	684.6	729.1	779.6	833.9
27.5°	473.5	481.0	488.6	497.6	515.7	542.9	582.8	622.0	671.1	726.1	789.4
30°	404.9	405.6	410.2	421.5	440.3	475.8	505.2	554.2	605.5	663.5	736.7
32.5°	329.5	328.7	334.0	343.8	361.9	395.8	432.0	479.5	530.1	603.2	678.6
35°	262.4	262.4	272.2	282.0	302.4	326.5	358.1	400.4	459.9	527.8	603.2
37.5°	227.0	232.2	238.3	248.1	263.9	282.7	310.6	347.6	394.3	459.2	528.5
40°	215.6	218.7	223.9	233.0	246.6	263.9	284.3	312.2	348.3	400.4	463.7
42.5°	211.1	211.9	214.9	221.7	233.7	251.1	272.2	297.1	324.2	361.2	416.2
45°	206.6	205.8	207.3	212.6	222.4	242.0	266.2	293.3	320.4	351.4	396.6
47.5°	202.8	202.8	202.8	205.1	214.1	233.7	261.6	293.3	325.7	360.4	404.9
50°	192.3	191.5	191.5	193.0	199.8	220.9	254.1	292.5	334.8	380.0	430.5
52.5°	180.2	180.2	181.0	181.7	187.7	208.9	245.8	292.5	345.3	405.6	469.0
55°	176.4	177.2	177.9	177.2	181.7	199.8	236.8	288.0	349.9	426.0	510.5
57.5°	173.4	174.9	174.9	174.2	177.2	192.3	227.7	279.0	346.1	433.5	539.9
60°	168.9	168.9	168.9	166.6	168.1	181.7	214.1	264.7	334.0	426.8	544.4
62.5°	159.1	159.1	157.6	156.8	156.1	166.6	196.0	243.5	312.2	408.7	533.1
63°	156.8	156.1	156.1	153.8	153.8	163.6	192.3	240.5	306.1	404.1	528.5
65°	148.5	148.5	148.5	147.0	146.3	153.8	177.2	219.4	282.7	383.0	505.9
67.5°	139.5	140.2	138.7	138.0	137.2	141.8	159.8	193.0	246.6	338.5	463.7
70°	126.7	127.4	127.4	126.7	125.9	128.9	140.2	165.9	204.3	282.0	395.1
72.5°	115.4	116.9	116.9	118.4	118.4	120.6	125.2	138.0	163.6	220.2	310.6
75°	103.3	104.1	105.6	107.1	105.6	104.8	105.6	115.4	128.2	162.9	221.7
77.5°	92.7	95.0	95.0	94.2	92.0	90.5	90.5	95.0	105.6	123.7	158.3
80°	76.9	80.7	81.4	79.2	76.9	76.9	78.4	81.4	88.2	101.8	119.9
82.5°	61.8	65.6	66.4	67.1	66.4	68.6	68.6	69.4	73.1	83.7	98.0
85°	47.5	50.5	52.8	53.5	54.3	55.0	54.3	50.5	52.8	59.6	66.4
87.5°	21.1	21.9	20.4	21.1	20.4	21.1	21.9	18.1	17.3	23.4	24.1
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: P152944

CATALOG NUMBER: TLM-F03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	790.9	790.9	790.9	790.9	790.9	790.9	790.9
2.5°	782.6	782.6	783.4	781.9	781.9	782.6	780.4
5°	770.6	773.6	773.6	773.6	772.1	773.6	774.4
7.5°	773.6	775.9	777.4	777.4	776.6	779.6	781.9
10°	777.4	781.1	782.6	782.6	782.6	786.4	791.7
12.5°	791.7	794.7	797.0	797.0	798.5	803.0	809.0
15°	818.1	821.9	821.9	821.1	825.6	830.9	837.7
17.5°	847.5	858.0	863.3	862.6	866.3	873.1	880.7
20°	875.4	904.8	917.6	926.7	930.4	939.5	941.7
22.5°	898.8	947.8	983.2	1013.4	1027.7	1036.7	1047.3
25°	890.5	956.8	1020.2	1082.0	1125.7	1170.2	1189.0
27.5°	856.5	939.5	1022.4	1112.9	1192.1	1271.2	1328.5
30°	815.1	914.6	1026.2	1154.4	1279.5	1400.9	1497.4
32.5°	767.6	891.2	1034.5	1192.8	1357.2	1516.3	1655.8
35°	708.0	846.7	1014.1	1196.6	1390.4	1583.4	1764.3
37.5°	632.6	786.4	966.6	1169.4	1391.9	1612.8	1829.2
40°	557.2	710.3	906.3	1130.2	1372.3	1619.6	1869.9
42.5°	504.4	642.4	845.2	1080.5	1340.6	1609.0	1889.5
45°	468.2	593.4	790.9	1035.2	1306.7	1590.2	1892.5
47.5°	465.2	572.3	755.5	1002.1	1279.5	1573.6	1892.5
50°	490.8	583.6	743.4	985.5	1268.2	1568.3	1894.0
52.5°	539.1	628.8	765.3	998.3	1277.3	1575.1	1900.8
55°	597.2	697.4	824.1	1042.8	1315.7	1597.7	1915.9
57.5°	649.9	776.6	924.4	1128.7	1385.8	1655.0	1958.1
60°	680.9	844.5	1030.7	1249.4	1505.7	1768.9	2042.6
62.5°	684.6	882.2	1125.0	1380.6	1651.2	1899.3	2177.5
63°	681.6	885.2	1137.0	1405.4	1682.2	1931.7	2224.3
65°	665.0	885.9	1171.0	1492.9	1789.2	2068.2	2354.7
67.5°	622.8	861.8	1183.0	1561.5	1924.2	2247.7	2598.3
70°	549.7	793.2	1147.6	1563.0	1976.2	2347.9	2752.1
72.5°	441.8	662.8	994.5	1422.0	1839.0	2249.2	2712.1
75°	323.5	487.1	751.7	1101.6	1500.4	1872.2	2323.1
77.5°	214.9	315.2	506.7	784.9	1075.9	1347.4	1672.4
80°	147.8	195.3	296.3	472.0	658.2	790.2	1065.4
82.5°	108.6	128.9	164.4	241.3	316.7	389.8	556.4
85°	67.9	73.9	82.2	119.1	170.4	230.0	346.8
87.5°	18.1	18.8	17.3	23.4	36.9	35.4	39.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)