

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: P152943

Luminaire Tested: **TLM-F03-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152943
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-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5815.9 lumens
Efficiency: N/A
Efficacy: 74.3 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

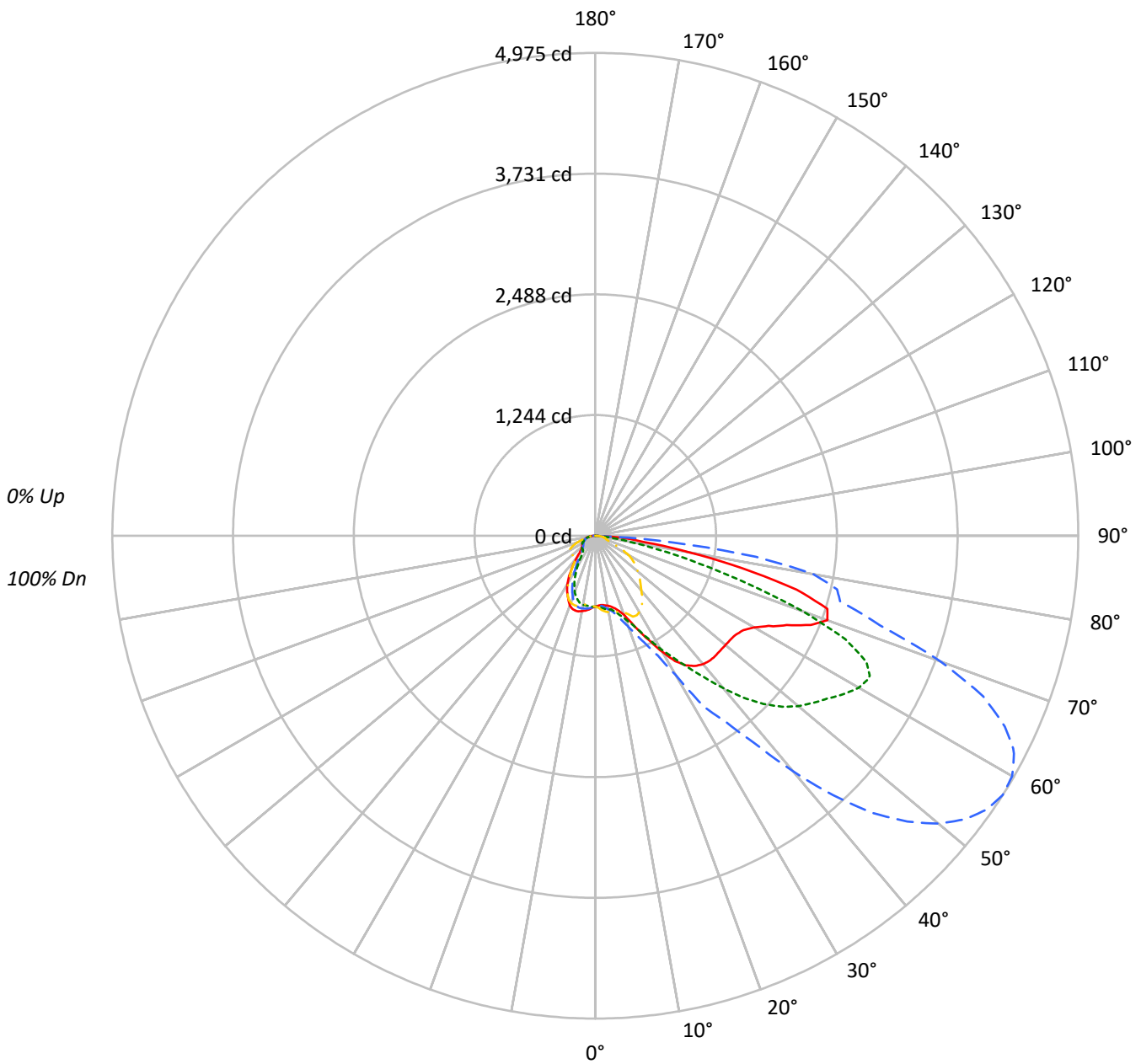
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P152943

CATALOG NUMBER: TLM-F03-LED-E1-SLL-8030

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°	15735	15735	15735	15735
5°	15462	16141	16486	15734
10°	15993	16784	17226	15794
15°	17253	18137	17812	15374
20°	19936	21054	17558	14174
25°	26100	25784	16019	11965
30°	34396	33462	14288	9267
35°	42848	43305	11445	6336
40°	48558	57585	8380	5542
45°	53242	74581	6299	5812
50°	58617	91425	6022	5951
55°	66448	109700	6144	6092
60°	81268	134902	6691	6691
65°	110839	156979	7065	6958
70°	160071	142881	7452	7371
75°	178548	92493	8226	7769
80°	122052	44916	9410	8381
85°	79165	21860	11362	10325



TEST NUMBER: P152943

CATALOG NUMBER: TLM-F03-LED-E1-SLL-8030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.1	1.2
10°-20°	221.6	3.8
20°-30°	393.7	6.8
30°-40°	619.9	10.7
40°-50°	912.3	15.7
50°-60°	1211.8	20.8
60°-70°	1334.8	23.0
70°-80°	837.4	14.4
80°-90°	213.3	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°	686.4	11.8
0°-40°	1306.3	22.5
0°-60°	3430.4	59.0
0°-90°	5815.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5815.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	731	731	731	731	731	
5°	716	747	763	728	716	69
15°	774	814	799	690	774	224
25°	1099	1086	674	504	1099	519
35°	1630	1648	436	241	1630	1010
45°	1749	2450	207	191	1749	1352
55°	1770	2923	164	162	1770	1606
65°	2176	3082	139	137	2176	2191
75°	2147	1112	99	93	2147	2099
85°	320	88	46	42	320	371
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°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	721.1	722.5	722.5	721.8	721.8	723.2	722.5	721.8	719.7	722.5	722.5
5°	715.5	716.9	716.9	718.3	719.7	721.1	721.1	722.5	721.8	724.6	726.7
7.5°	722.5	723.9	726.7	730.2	732.3	737.1	737.1	740.6	742.0	744.1	743.4
10°	731.6	735.1	741.3	746.9	751.1	756.7	760.8	765.7	765.7	767.8	769.2
12.5°	747.6	751.1	758.0	765.0	771.3	778.3	784.5	789.4	794.3	795.7	798.5
15°	774.1	778.3	788.7	798.5	806.1	815.2	823.5	833.3	842.4	844.4	845.8
17.5°	813.8	822.1	829.8	847.2	858.4	870.2	883.5	897.4	900.2	914.8	918.3
20°	870.2	880.7	887.6	909.2	928.1	943.4	962.9	978.9	985.2	999.1	1013.1
22.5°	967.8	965.7	976.1	997.7	1011.7	1042.3	1059.0	1075.8	1084.1	1105.0	1116.2
25°	1098.8	1109.9	1132.9	1135.0	1148.2	1183.8	1205.4	1222.1	1222.8	1229.0	1240.9
27.5°	1227.6	1273.6	1309.9	1329.4	1364.9	1397.7	1396.3	1419.9	1383.0	1390.7	1401.8
30°	1383.7	1460.4	1528.6	1574.6	1610.9	1649.2	1668.0	1681.2	1665.2	1658.2	1645.0
32.5°	1530.0	1637.3	1742.5	1824.1	1891.6	1955.0	1996.8	2015.7	2038.0	2094.4	2114.6
35°	1630.4	1782.2	1913.2	2031.0	2143.9	2244.9	2318.0	2359.8	2343.8	2336.2	2332.0
37.5°	1690.3	1875.6	2039.3	2205.9	2335.5	2486.6	2600.2	2710.3	2735.4	2691.5	2669.9
40°	1727.9	1947.4	2157.8	2354.3	2522.2	2717.3	2858.0	3023.1	3148.5	3165.3	3113.7
42.5°	1746.0	1995.5	2240.7	2463.0	2690.1	2929.1	3107.4	3307.4	3494.8	3623.7	3591.7
45°	1748.8	2026.8	2301.3	2561.2	2831.5	3115.1	3345.0	3566.6	3817.4	4038.3	4044.5
47.5°	1748.8	2050.5	2343.1	2632.3	2958.3	3276.7	3527.6	3789.5	4096.8	4358.1	4438.2
50°	1750.2	2066.5	2382.1	2688.0	3055.2	3413.3	3696.9	4006.2	4329.5	4613.8	4768.5
52.5°	1756.5	2078.4	2412.8	2727.7	3117.9	3509.5	3828.6	4185.3	4507.2	4799.1	4999.1
55°	1770.4	2095.1	2435.1	2752.1	3159.7	3572.2	3924.0	4307.9	4622.1	4918.3	5197.6
57.5°	1809.4	2124.3	2462.3	2773.7	3182.7	3613.3	3990.9	4360.9	4666.0	4974.7	5302.9
60°	1887.5	2186.4	2508.9	2816.9	3221.0	3689.2	4023.0	4325.3	4634.0	4958.0	5326.5
62.5°	2012.2	2283.2	2573.7	2890.1	3330.4	3807.0	3998.6	4219.4	4507.9	4861.1	5242.2
63°	2055.4	2304.1	2588.4	2906.1	3360.4	3828.6	3988.1	4188.1	4482.1	4830.5	5212.3
65°	2175.9	2396.8	2658.0	2986.9	3483.7	3850.2	3906.6	4025.0	4303.7	4655.6	5035.3
67.5°	2401.0	2621.8	2807.8	3123.5	3587.5	3765.2	3653.7	3668.3	3959.5	4323.9	4665.3
70°	2543.1	2806.5	2903.3	3140.9	3568.7	3639.0	3326.2	3132.5	3365.9	3781.2	4080.1
72.5°	2506.2	2808.5	2798.1	2908.9	3192.4	3257.9	2934.0	2628.8	2767.4	3077.5	3271.2
75°	2146.6	2508.2	2431.6	2409.3	2508.9	2552.1	2309.0	2262.3	2437.2	2609.3	2612.1
77.5°	1545.4	1943.2	1853.3	1724.4	1717.5	1817.1	1849.8	2155.7	2414.2	2550.1	2490.1
80°	984.5	1415.8	1322.4	1097.4	1093.9	1223.5	1511.2	1927.2	2201.0	2276.9	2120.9
82.5°	514.2	926.7	962.2	823.5	942.7	1157.3	1438.1	1553.0	1656.8	1667.3	1483.3
85°	320.5	569.9	670.3	691.9	851.4	1026.3	1024.2	983.8	937.8	802.6	726.0
87.5°	36.2	71.8	108.7	103.1	138.7	194.4	242.5	142.1	99.6	36.2	50.2
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: P152943

CATALOG NUMBER: TLM-F03-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	723.9	724.6	725.3	725.3	728.8	728.1	728.8	730.2	732.3	733.7	735.1
5°	729.5	729.5	732.3	734.4	738.5	741.3	742.7	746.9	751.8	750.4	754.6
7.5°	747.6	746.9	749.7	751.1	754.6	759.4	758.7	762.2	766.4	767.8	771.3
10°	772.0	769.9	769.9	768.5	769.2	767.8	767.8	767.8	770.6	769.9	772.7
12.5°	797.1	796.4	795.0	790.8	790.8	785.2	782.4	779.0	778.3	773.4	774.1
15°	848.6	848.6	845.8	837.5	830.5	825.6	818.7	813.8	806.8	797.8	792.9
17.5°	923.9	914.1	910.6	909.2	898.1	893.9	878.6	862.6	854.9	842.4	835.4
20°	1015.8	1013.8	999.8	992.8	978.9	959.4	939.9	919.0	906.5	891.1	882.8
22.5°	1119.7	1104.3	1097.4	1086.9	1065.3	1043.0	1013.8	985.9	966.4	955.9	949.7
25°	1240.9	1225.6	1218.6	1204.7	1178.2	1154.5	1118.3	1085.5	1068.1	1050.7	1040.9
27.5°	1401.8	1387.2	1378.8	1342.6	1333.6	1294.5	1249.9	1205.4	1182.4	1156.6	1139.9
30°	1642.2	1642.9	1599.7	1555.8	1510.5	1442.9	1396.3	1346.1	1308.5	1271.5	1234.6
32.5°	2048.4	1944.6	1864.5	1770.4	1672.2	1600.4	1542.6	1482.7	1430.4	1376.7	1315.4
35°	2296.4	2246.3	2142.5	1970.4	1871.4	1784.3	1720.2	1647.8	1583.7	1488.9	1395.6
37.5°	2576.5	2460.2	2334.1	2238.6	2126.4	2025.4	1918.1	1835.9	1725.1	1597.6	1465.2
40°	2985.5	2819.0	2667.1	2538.9	2394.0	2288.1	2168.2	2049.1	1902.1	1717.5	1535.6
42.5°	3412.6	3240.5	3039.9	2873.3	2702.6	2578.6	2430.2	2263.0	2047.0	1818.5	1596.2
45°	3860.6	3630.7	3390.3	3186.9	3009.2	2855.2	2671.3	2449.7	2186.4	1909.1	1652.7
47.5°	4302.3	4038.3	3751.9	3533.1	3301.8	3113.7	2888.0	2607.9	2295.0	1994.8	1709.1
50°	4691.8	4437.5	4092.6	3814.6	3580.5	3348.5	3067.0	2729.8	2380.7	2068.6	1760.0
52.5°	5027.6	4808.9	4445.9	4094.7	3825.1	3564.5	3211.3	2828.0	2467.1	2136.9	1801.8
55°	5274.3	5128.7	4794.2	4358.8	4040.4	3729.6	3333.2	2922.8	2548.7	2191.2	1828.9
57.5°	5460.3	5379.5	5092.4	4607.5	4238.2	3889.9	3459.3	3036.4	2629.5	2237.9	1841.5
60°	5562.0	5584.3	5318.2	4824.9	4413.1	4023.6	3585.4	3133.2	2689.4	2265.1	1834.5
62.5°	5552.3	5688.8	5487.5	4958.7	4514.8	4103.1	3670.4	3178.5	2681.0	2221.9	1771.1
63°	5533.5	5692.3	5506.3	4967.7	4521.1	4105.9	3672.5	3172.2	2663.6	2201.0	1746.0
65°	5371.1	5612.2	5490.3	4926.6	4465.4	4053.6	3628.6	3081.7	2541.0	2088.8	1617.1
67.5°	4936.4	5238.1	5203.2	4636.1	4201.3	3837.6	3404.2	2789.7	2237.9	1812.9	1370.5
70°	4218.0	4501.6	4507.9	4032.0	3669.0	3312.3	2952.1	2270.0	1773.9	1405.3	1022.1
72.5°	3232.9	3415.4	3478.8	3165.3	2922.1	2671.3	2348.0	1647.8	1264.6	955.9	665.4
75°	2503.4	2453.2	2452.5	2320.1	2221.2	2098.6	1743.2	1112.0	830.5	621.5	406.9
77.5°	2250.5	2027.5	1811.5	1652.7	1573.2	1532.1	1143.3	670.3	489.8	357.4	234.1
80°	1856.1	1527.2	1233.9	1062.5	994.2	1041.6	637.5	362.3	268.2	203.4	151.9
82.5°	1279.9	1062.5	807.5	668.9	574.1	600.6	326.1	185.3	124.0	113.6	94.1
85°	666.8	584.6	493.3	423.6	374.1	328.9	169.3	88.5	51.6	45.3	41.1
87.5°	0.0	0.7	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: P152943

CATALOG NUMBER: TLM-F03-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	737.1	736.4	737.8	738.5	740.6	742.0	742.7	741.3	743.4	745.5	744.1
5°	756.7	761.5	762.2	764.3	764.3	768.5	768.5	768.5	767.8	768.5	767.1
7.5°	773.4	779.6	780.3	783.1	783.8	788.7	786.6	788.0	788.0	784.5	783.1
10°	775.5	781.7	785.2	788.7	793.6	799.9	799.9	803.3	803.3	800.5	799.9
12.5°	776.2	781.0	784.5	789.4	796.4	805.4	810.3	815.2	817.3	816.6	814.5
15°	790.8	790.8	791.5	795.7	800.5	811.7	818.7	824.2	827.7	826.3	822.8
17.5°	829.1	823.5	819.4	812.4	813.8	819.4	823.5	828.4	829.1	827.7	822.1
20°	873.7	866.7	856.3	845.1	839.6	835.4	832.6	832.6	830.5	823.5	814.5
22.5°	937.1	928.1	913.4	896.7	885.6	872.3	856.3	841.0	824.2	807.5	788.0
25°	1024.9	1012.4	997.0	971.2	947.6	919.7	886.9	852.8	813.1	778.3	749.7
27.5°	1113.4	1085.5	1045.8	1010.3	966.4	924.6	877.9	836.1	785.2	743.4	712.1
30°	1186.5	1133.6	1076.5	1020.0	962.2	905.8	850.0	799.9	744.1	701.6	671.0
32.5°	1243.0	1169.8	1090.4	1016.5	945.5	876.5	812.4	756.7	700.2	656.3	623.6
35°	1295.2	1193.5	1092.5	1001.2	913.4	841.7	769.2	708.6	648.7	602.7	567.1
37.5°	1334.2	1204.7	1079.9	972.6	871.6	791.5	717.6	655.6	594.3	544.2	503.7
40°	1359.3	1197.7	1052.8	931.5	822.1	737.8	662.6	598.5	539.3	484.2	435.5
42.5°	1379.5	1188.6	1025.6	893.9	783.1	691.2	613.8	544.8	484.9	425.0	371.4
45°	1409.5	1195.6	1013.8	867.4	748.3	651.4	566.4	494.7	432.0	373.5	321.9
47.5°	1438.8	1199.1	996.3	834.7	704.4	610.3	523.9	454.3	390.2	336.5	289.1
50°	1465.2	1197.0	969.2	792.9	661.9	569.2	485.6	416.0	352.5	303.1	258.5
52.5°	1477.8	1185.1	935.7	752.5	627.8	533.0	448.0	380.4	317.7	271.0	229.9
55°	1476.4	1154.5	891.8	714.2	590.1	494.7	411.1	344.2	287.8	244.6	209.0
57.5°	1455.5	1107.1	845.1	671.7	540.7	447.3	367.9	303.1	255.7	219.5	189.5
60°	1411.6	1046.5	783.8	609.6	478.7	388.8	314.2	258.5	220.2	192.3	172.8
62.5°	1329.4	959.4	707.2	523.2	395.0	312.8	248.0	211.8	183.2	166.5	157.5
63°	1305.0	935.7	674.4	502.3	375.5	295.4	234.1	196.5	175.6	160.9	152.6
65°	1183.8	819.4	564.4	405.5	291.9	227.8	188.1	159.6	147.0	140.7	140.0
67.5°	958.7	644.5	399.2	278.0	198.6	164.4	144.2	132.4	126.8	125.4	126.8
70°	673.0	406.9	253.6	184.6	147.0	132.4	123.3	118.4	115.0	115.7	117.1
72.5°	429.2	243.9	174.2	140.0	124.0	116.4	112.2	110.8	110.1	109.4	109.4
75°	244.6	162.3	133.8	121.2	112.9	106.6	103.1	101.7	102.4	103.1	101.7
77.5°	161.6	133.8	119.1	110.8	103.1	96.1	94.1	93.4	94.8	96.1	96.1
80°	127.5	119.1	110.8	102.4	89.9	85.0	86.4	87.1	86.4	87.1	85.0
82.5°	89.9	88.5	90.6	87.1	74.6	70.4	69.0	69.7	68.3	68.3	66.9
85°	41.8	41.8	43.9	43.9	42.5	43.2	46.7	50.9	53.0	50.9	48.1
87.5°	0.0	0.0	0.0	0.0	0.0	6.3	12.5	18.1	19.5	24.4	23.7
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: P152943

CATALOG NUMBER: TLM-F03-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	742.0	743.4	742.7	742.0	743.4	742.0	742.7	742.0	742.0	741.3	741.3
5°	765.7	767.8	763.6	762.9	761.5	758.0	758.0	756.7	756.7	753.9	751.8
7.5°	781.0	781.7	778.3	777.6	774.1	770.6	767.8	765.0	764.3	762.2	758.0
10°	795.7	794.3	791.5	788.0	784.5	779.6	776.2	772.7	772.0	768.5	763.6
12.5°	808.2	807.5	801.9	798.5	792.9	788.0	783.8	779.6	777.6	773.4	766.4
15°	816.6	812.4	805.4	799.2	792.9	787.3	782.4	777.6	775.5	770.6	763.6
17.5°	813.1	805.4	796.4	788.7	780.3	773.4	769.2	764.3	760.8	758.0	748.3
20°	800.5	789.4	775.5	766.4	755.3	746.2	743.4	738.5	735.8	725.3	712.8
22.5°	767.8	751.8	734.4	721.1	708.6	699.5	692.6	687.7	680.7	674.4	654.9
25°	726.7	708.6	690.5	674.4	657.7	643.8	631.2	619.4	615.9	602.7	583.9
27.5°	687.0	666.8	648.7	629.8	608.3	590.8	569.2	552.5	541.4	527.4	510.0
30°	644.5	624.3	599.9	574.8	549.7	530.9	506.5	486.3	472.4	457.8	441.7
32.5°	590.8	566.4	537.2	509.3	486.3	464.0	439.6	420.1	406.2	393.0	377.6
35°	529.5	497.5	466.1	435.5	411.1	392.3	370.7	356.0	346.3	334.4	318.4
37.5°	459.1	422.9	389.5	365.8	344.2	326.1	310.7	301.7	291.2	285.0	275.2
40°	388.1	352.5	319.8	298.2	280.1	269.6	261.3	259.2	252.2	243.9	237.6
42.5°	325.4	291.2	259.2	241.8	229.9	227.1	223.0	223.0	219.5	213.2	209.0
45°	282.9	247.3	219.5	206.9	200.7	200.0	197.9	197.9	197.2	194.4	189.5
47.5°	252.2	220.2	198.6	190.9	189.5	188.1	186.0	185.3	184.6	182.5	179.8
50°	224.3	197.2	183.2	179.8	180.5	178.4	176.3	174.2	173.5	171.4	168.6
52.5°	198.6	179.1	170.0	167.9	167.9	167.9	166.5	166.5	165.1	164.4	161.6
55°	183.9	169.3	164.4	163.7	163.0	162.3	160.9	160.9	159.6	158.9	155.4
57.5°	171.4	162.3	159.6	158.2	157.5	156.1	155.4	155.4	155.4	155.4	151.2
60°	161.6	157.5	156.8	155.4	154.7	151.9	150.5	149.8	150.5	151.2	147.0
62.5°	151.2	150.5	149.8	148.4	147.7	144.9	142.8	141.4	142.8	144.2	143.5
63°	148.4	147.7	147.7	147.0	146.3	142.8	140.7	139.3	140.7	142.1	142.1
65°	138.7	139.3	139.3	138.7	138.0	135.9	133.1	131.7	132.4	134.5	135.2
67.5°	128.2	128.9	128.2	128.9	128.2	126.8	124.7	123.3	122.6	123.3	124.0
70°	118.4	119.8	119.1	118.4	117.7	117.7	116.4	114.3	113.6	112.9	112.9
72.5°	110.1	110.1	108.7	108.7	108.0	108.0	106.6	104.5	103.8	103.8	102.4
75°	101.0	101.0	98.9	98.9	97.5	98.2	96.8	94.8	94.1	94.1	93.4
77.5°	95.5	93.4	89.9	89.2	88.5	88.5	87.8	85.7	85.0	85.0	84.3
80°	84.3	80.1	76.6	75.9	76.6	78.0	78.0	76.6	76.6	76.6	76.6
82.5°	65.5	64.1	62.0	60.6	60.6	62.7	65.5	66.9	68.3	69.7	69.7
85°	48.1	48.8	48.1	46.0	45.3	47.4	50.2	53.0	53.6	56.4	55.7
87.5°	25.8	26.5	24.4	23.7	25.8	27.2	30.0	30.7	32.0	32.7	33.4
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: P152943

CATALOG NUMBER: TLM-F03-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	740.6	739.9	740.6	739.2	739.2	737.8	736.4	735.8	734.4	733.7	732.3
5°	753.2	751.1	749.0	748.3	745.5	742.7	740.6	737.1	734.4	729.5	728.1
7.5°	761.5	756.7	753.9	753.2	749.0	746.9	742.0	737.8	733.7	727.4	725.3
10°	765.0	760.1	755.3	753.2	748.3	744.8	739.9	733.7	730.2	723.9	722.5
12.5°	769.2	760.1	752.5	746.9	739.9	732.3	727.4	723.9	719.0	715.5	714.2
15°	761.5	749.7	737.8	727.4	716.2	707.9	703.0	697.4	691.9	689.8	689.8
17.5°	740.6	725.3	705.1	691.9	680.0	671.0	664.7	659.1	658.4	655.6	657.0
20°	697.4	677.2	657.7	648.0	641.0	635.4	629.2	626.4	624.3	620.1	618.7
22.5°	637.5	620.8	606.9	599.9	594.3	587.3	581.8	573.4	571.3	567.1	565.1
25°	571.3	558.1	546.2	541.4	537.9	528.1	524.6	513.5	505.8	501.0	503.7
27.5°	505.1	495.4	484.2	478.0	475.9	466.8	463.3	450.8	444.5	444.5	437.5
30°	436.9	427.8	420.8	413.9	412.5	401.3	392.3	387.4	380.4	377.6	372.8
32.5°	372.8	363.7	358.1	354.6	349.1	340.0	330.9	322.6	311.4	307.3	305.2
35°	313.5	306.6	299.6	296.8	289.1	279.4	268.2	261.3	248.0	243.2	241.1
37.5°	268.2	259.9	255.0	247.3	239.7	229.2	220.9	214.6	209.7	207.6	207.6
40°	232.0	225.7	220.2	213.9	207.6	202.1	197.9	196.5	195.8	195.8	197.2
42.5°	204.8	199.3	196.5	193.0	190.9	190.9	190.2	190.9	191.6	192.3	194.4
45°	186.7	183.2	181.8	181.2	182.5	183.9	184.6	186.0	188.8	190.2	190.9
47.5°	177.0	174.2	173.5	174.2	176.3	179.1	181.8	183.9	186.0	186.7	187.4
50°	167.2	163.7	162.3	163.7	166.5	170.7	172.8	176.3	177.7	179.1	177.7
52.5°	158.9	156.1	155.4	155.4	158.2	160.9	163.7	166.5	167.2	167.2	166.5
55°	151.9	149.8	147.7	149.1	151.2	154.0	158.2	160.2	161.6	162.3	162.3
57.5°	146.3	144.2	142.1	143.5	145.6	148.4	152.6	154.7	156.1	158.2	158.9
60°	142.1	139.3	137.3	139.3	141.4	145.6	149.1	151.2	154.7	155.4	155.4
62.5°	138.0	135.2	131.7	133.8	133.8	135.9	139.3	142.1	145.6	147.0	147.0
63°	137.3	134.5	131.0	132.4	132.4	133.8	136.6	139.3	143.5	144.9	144.2
65°	131.7	131.0	127.5	127.5	126.1	127.5	129.6	132.4	134.5	136.6	136.6
67.5°	122.6	121.9	121.2	121.2	121.2	122.6	124.0	126.1	128.2	129.6	128.9
70°	112.2	112.2	112.2	112.9	112.9	114.3	115.0	114.3	116.4	117.7	117.1
72.5°	103.1	102.4	101.7	103.1	102.4	102.4	103.8	103.1	105.2	105.2	105.9
75°	93.4	92.7	92.7	93.4	92.0	90.6	91.3	91.3	92.0	92.0	93.4
77.5°	85.0	85.0	85.0	84.3	82.9	82.2	81.5	81.5	81.5	81.5	82.2
80°	77.3	77.3	77.3	76.6	75.2	73.9	72.5	71.8	71.1	67.6	67.6
82.5°	69.7	69.7	69.7	69.7	69.0	67.6	65.5	59.9	57.1	54.3	55.0
85°	55.0	56.4	57.8	59.9	59.2	59.2	55.0	48.1	43.9	41.1	41.8
87.5°	35.5	31.4	31.4	30.7	29.3	27.9	27.9	23.7	19.5	17.4	18.1
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: P152943

CATALOG NUMBER: TLM-F03-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	732.3	730.9	729.5	729.5	727.4	727.4	726.0	728.8	726.0	723.9	723.9
5°	726.7	725.3	721.1	720.4	717.6	717.6	717.6	716.2	716.2	714.9	714.2
7.5°	723.2	719.7	716.2	714.2	714.2	712.8	715.5	714.2	714.9	714.9	715.5
10°	720.4	717.6	716.2	715.5	715.5	717.6	719.7	720.4	719.7	720.4	720.4
12.5°	713.5	714.9	715.5	718.3	721.8	726.0	730.9	731.6	733.0	733.0	734.4
15°	691.2	694.6	698.8	705.8	714.9	723.9	733.0	740.6	747.6	751.1	753.9
17.5°	659.8	663.3	671.0	678.6	690.5	703.7	719.0	732.3	746.9	760.1	773.4
20°	617.3	622.9	625.0	638.9	652.8	671.0	689.1	710.0	735.1	760.1	785.9
22.5°	562.3	568.5	578.3	589.4	604.1	626.4	648.0	680.7	714.2	749.7	790.1
25°	501.0	507.9	516.3	528.1	542.8	566.4	597.8	632.6	673.7	720.4	770.6
27.5°	437.5	444.5	451.5	459.8	476.6	501.6	538.6	574.8	620.1	671.0	729.5
30°	374.1	374.8	379.0	389.5	406.9	439.6	466.8	512.1	559.5	613.1	680.7
32.5°	304.5	303.8	308.7	317.7	334.4	365.8	399.2	443.1	489.8	557.4	627.1
35°	242.5	242.5	251.5	260.6	279.4	301.7	330.9	370.0	425.0	487.7	557.4
37.5°	209.7	214.6	220.2	229.2	243.9	261.3	287.1	321.2	364.4	424.3	488.4
40°	199.3	202.1	206.9	215.3	227.8	243.9	262.7	288.4	321.9	370.0	428.5
42.5°	195.1	195.8	198.6	204.8	216.0	232.0	251.5	274.5	299.6	333.7	384.6
45°	190.9	190.2	191.6	196.5	205.5	223.7	245.9	271.0	296.1	324.7	366.5
47.5°	187.4	187.4	187.4	189.5	197.9	216.0	241.8	271.0	301.0	333.0	374.1
50°	177.7	177.0	177.0	178.4	184.6	204.1	234.8	270.3	309.4	351.2	397.8
52.5°	166.5	166.5	167.2	167.9	173.5	193.0	227.1	270.3	319.1	374.8	433.4
55°	163.0	163.7	164.4	163.7	167.9	184.6	218.8	266.2	323.3	393.7	471.7
57.5°	160.2	161.6	161.6	160.9	163.7	177.7	210.4	257.8	319.8	400.6	498.9
60°	156.1	156.1	156.1	154.0	155.4	167.9	197.9	244.6	308.7	394.4	503.0
62.5°	147.0	147.0	145.6	144.9	144.2	154.0	181.2	225.0	288.4	377.6	492.6
63°	144.9	144.2	144.2	142.1	142.1	151.2	177.7	222.3	282.9	373.5	488.4
65°	137.3	137.3	137.3	135.9	135.2	142.1	163.7	202.8	261.3	353.9	467.5
67.5°	128.9	129.6	128.2	127.5	126.8	131.0	147.7	178.4	227.8	312.8	428.5
70°	117.1	117.7	117.7	117.1	116.4	119.1	129.6	153.3	188.8	260.6	365.1
72.5°	106.6	108.0	108.0	109.4	109.4	111.5	115.7	127.5	151.2	203.4	287.1
75°	95.5	96.1	97.5	98.9	97.5	96.8	97.5	106.6	118.4	150.5	204.8
77.5°	85.7	87.8	87.8	87.1	85.0	83.6	83.6	87.8	97.5	114.3	146.3
80°	71.1	74.6	75.2	73.2	71.1	71.1	72.5	75.2	81.5	94.1	110.8
82.5°	57.1	60.6	61.3	62.0	61.3	63.4	63.4	64.1	67.6	77.3	90.6
85°	43.9	46.7	48.8	49.5	50.2	50.9	50.2	46.7	48.8	55.0	61.3
87.5°	19.5	20.2	18.8	19.5	18.8	19.5	20.2	16.7	16.0	21.6	22.3
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: P152943

CATALOG NUMBER: TLM-F03-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	730.9	730.9	730.9	730.9	730.9	730.9	730.9
2.5°	723.2	723.2	723.9	722.5	722.5	723.2	721.1
5°	712.1	714.9	714.9	714.9	713.5	714.9	715.5
7.5°	714.9	716.9	718.3	718.3	717.6	720.4	722.5
10°	718.3	721.8	723.2	723.2	723.2	726.7	731.6
12.5°	731.6	734.4	736.4	736.4	737.8	742.0	747.6
15°	756.0	759.4	759.4	758.7	762.9	767.8	774.1
17.5°	783.1	792.9	797.8	797.1	800.5	806.8	813.8
20°	808.9	836.1	847.9	856.3	859.8	868.1	870.2
22.5°	830.5	875.8	908.5	936.4	949.7	958.0	967.8
25°	822.8	884.2	942.7	999.8	1040.2	1081.3	1098.8
27.5°	791.5	868.1	944.8	1028.4	1101.5	1174.7	1227.6
30°	753.2	845.1	948.3	1066.7	1182.4	1294.5	1383.7
32.5°	709.3	823.5	955.9	1102.2	1254.1	1401.1	1530.0
35°	654.2	782.4	937.1	1105.7	1284.8	1463.1	1630.4
37.5°	584.6	726.7	893.2	1080.6	1286.2	1490.3	1690.3
40°	514.9	656.3	837.5	1044.4	1268.1	1496.6	1727.9
42.5°	466.1	593.6	781.0	998.4	1238.8	1486.8	1746.0
45°	432.7	548.3	730.9	956.6	1207.4	1469.4	1748.8
47.5°	429.9	528.8	698.1	926.0	1182.4	1454.1	1748.8
50°	453.6	539.3	687.0	910.6	1171.9	1449.2	1750.2
52.5°	498.2	581.1	707.2	922.5	1180.3	1455.5	1756.5
55°	551.8	644.5	761.5	963.6	1215.8	1476.4	1770.4
57.5°	600.6	717.6	854.2	1043.0	1280.6	1529.3	1809.4
60°	629.2	780.3	952.4	1154.5	1391.4	1634.5	1887.5
62.5°	632.6	815.2	1039.5	1275.7	1525.9	1755.1	2012.2
63°	629.8	818.0	1050.7	1298.7	1554.4	1785.0	2055.4
65°	614.5	818.7	1082.0	1379.5	1653.4	1911.1	2175.9
67.5°	575.5	796.4	1093.2	1442.9	1778.1	2077.0	2401.0
70°	507.9	733.0	1060.4	1444.3	1826.1	2169.6	2543.1
72.5°	408.3	612.4	919.0	1314.0	1699.3	2078.4	2506.2
75°	298.9	450.1	694.6	1017.9	1386.5	1730.0	2146.6
77.5°	198.6	291.2	468.2	725.3	994.2	1245.1	1545.4
80°	136.6	180.5	273.8	436.2	608.3	730.2	984.5
82.5°	100.3	119.1	151.9	223.0	292.6	360.2	514.2
85°	62.7	68.3	75.9	110.1	157.5	212.5	320.5
87.5°	16.7	17.4	16.0	21.6	34.1	32.7	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)