

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: P152933

Luminaire Tested: **TLM-F02-LED-E1-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152933
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-F02-LED-E1-SLL-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

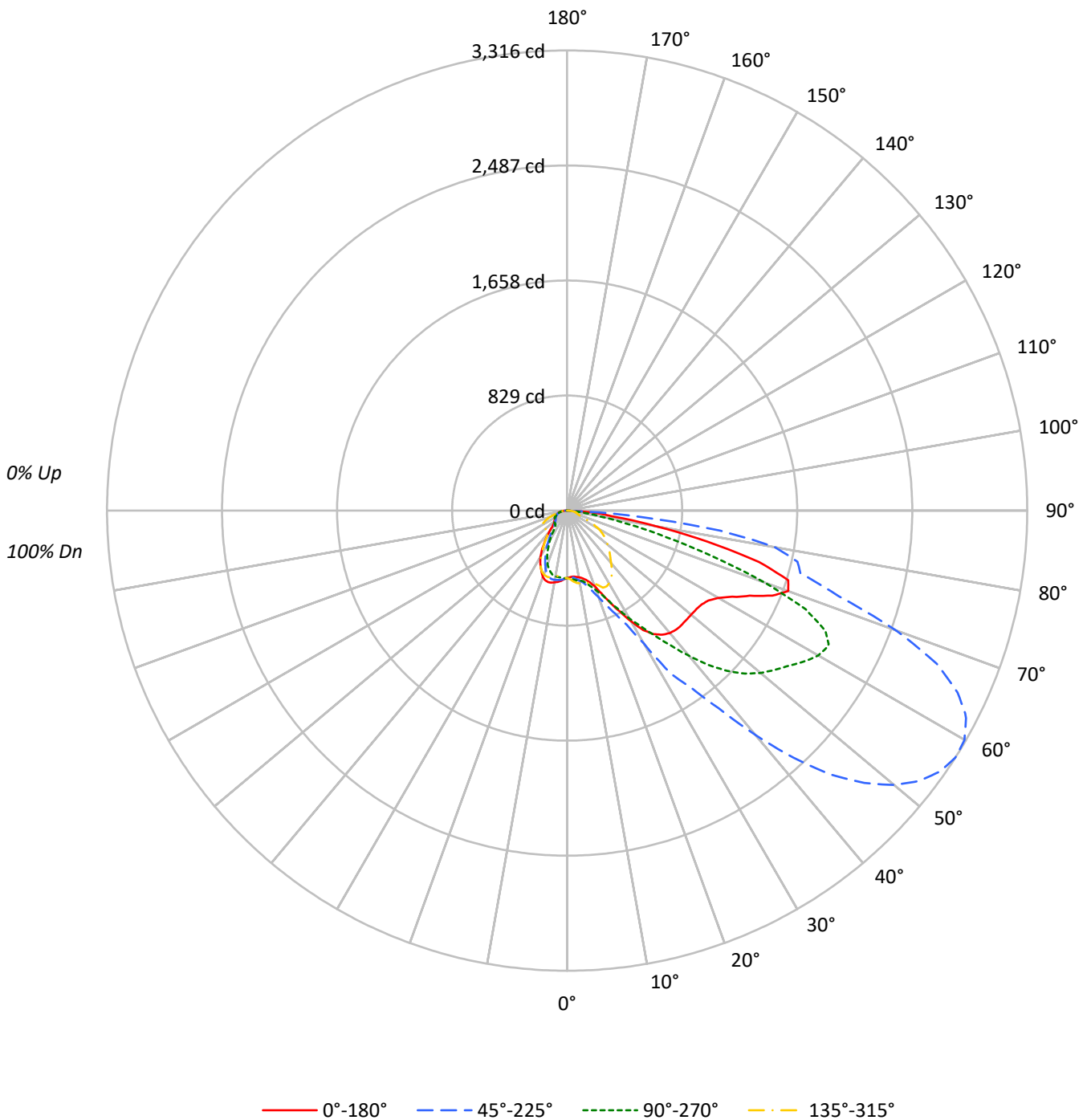
Lumens per Lamp: N/A
Luminaire Lumens: 3877.3 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.47 / 2.44
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 55
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°	15895	15895	15895	15895
5°	15618	16303	16653	15893
10°	16153	16955	17399	15954
15°	17425	18319	17992	15527
20°	20136	21268	17734	14318
25°	26363	26046	16181	12085
30°	34745	33800	14433	9359
35°	43279	43741	11559	6399
40°	49048	58168	8465	5599
45°	53781	75333	6366	5872
50°	59209	92350	6079	6008
55°	67121	110807	6210	6153
60°	82086	136265	6758	6758
65°	111958	158560	7131	7023
70°	161688	144321	7534	7439
75°	180356	93423	8318	7839
80°	123279	45363	9505	8472
85°	79977	22081	11489	10442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.2
10°-20°	147.7	3.8
20°-30°	262.4	6.8
30°-40°	413.3	10.7
40°-50°	608.2	15.7
50°-60°	807.9	20.8
60°-70°	889.9	23.0
70°-80°	558.3	14.4
80°-90°	142.2	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°	457.6	11.8
0°-40°	870.9	22.5
0°-60°	2286.9	59.0
0°-90°	3877.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3877.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	487	487	487	487	487	
5°	477	498	509	485	477	46
15°	516	542	533	460	516	149
25°	732	724	450	336	732	346
35°	1087	1098	290	161	1087	673
45°	1166	1633	138	127	1166	901
55°	1180	1948	109	108	1180	1071
65°	1451	2054	92	91	1451	1460
75°	1431	741	66	62	1431	1400
85°	214	59	31	28	214	247
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°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	480.7	481.7	481.7	481.2	481.2	482.1	481.7	481.2	479.8	481.7	481.7
5°	477.0	478.0	478.0	478.9	479.8	480.7	480.7	481.7	481.2	483.1	484.5
7.5°	481.7	482.6	484.5	486.8	488.2	491.4	491.4	493.8	494.7	496.1	495.6
10°	487.7	490.0	494.2	497.9	500.7	504.4	507.2	510.5	510.5	511.9	512.8
12.5°	498.4	500.7	505.4	510.0	514.2	518.8	523.0	526.3	529.5	530.4	532.3
15°	516.0	518.8	525.8	532.3	537.4	543.5	549.0	555.5	561.6	563.0	563.9
17.5°	542.5	548.1	553.2	564.8	572.3	580.1	589.0	598.3	600.1	609.9	612.2
20°	580.1	587.1	591.8	606.2	618.7	628.9	641.9	652.6	656.8	666.1	675.4
22.5°	645.2	643.8	650.8	665.2	674.4	694.9	706.0	717.2	722.7	736.7	744.1
25°	732.5	739.9	755.3	756.7	765.5	789.2	803.6	814.7	815.2	819.4	827.3
27.5°	818.4	849.1	873.2	886.2	909.9	931.8	930.8	946.6	922.0	927.1	934.6
30°	922.5	973.6	1019.1	1049.7	1073.9	1099.4	1112.0	1120.8	1110.1	1105.5	1096.7
32.5°	1020.0	1091.6	1161.7	1216.0	1261.1	1303.4	1331.2	1343.8	1358.6	1396.3	1409.7
35°	1086.9	1188.2	1275.5	1354.0	1429.2	1496.6	1545.4	1573.2	1562.5	1557.4	1554.6
37.5°	1126.9	1250.4	1359.6	1470.6	1557.0	1657.8	1733.5	1806.9	1823.6	1794.3	1779.9
40°	1151.9	1298.3	1438.5	1569.5	1681.5	1811.5	1905.3	2015.4	2099.0	2110.2	2075.8
42.5°	1164.0	1330.3	1493.8	1642.0	1793.4	1952.7	2071.6	2204.9	2329.9	2415.8	2394.4
45°	1165.9	1351.2	1534.2	1707.5	1887.7	2076.7	2230.0	2377.7	2544.9	2692.2	2696.4
47.5°	1165.9	1367.0	1562.1	1754.8	1972.2	2184.5	2351.7	2526.4	2731.2	2905.4	2958.8
50°	1166.8	1377.7	1588.1	1792.0	2036.8	2275.5	2464.6	2670.8	2886.3	3075.9	3179.0
52.5°	1171.0	1385.6	1608.5	1818.5	2078.6	2339.6	2552.4	2790.2	3004.8	3199.4	3332.7
55°	1180.3	1396.7	1623.4	1834.7	2106.5	2381.4	2616.0	2871.9	3081.4	3278.8	3465.1
57.5°	1206.3	1416.2	1641.5	1849.1	2121.8	2408.8	2660.6	2907.2	3110.7	3316.5	3535.2
60°	1258.3	1457.6	1672.6	1877.9	2147.3	2459.5	2682.0	2883.6	3089.3	3305.3	3551.0
62.5°	1341.4	1522.1	1715.8	1926.7	2220.3	2538.0	2665.7	2813.0	3005.3	3240.7	3494.8
63°	1370.2	1536.1	1725.6	1937.4	2240.2	2552.4	2658.7	2792.1	2988.1	3220.3	3474.9
65°	1450.6	1597.8	1772.0	1991.3	2322.5	2566.8	2604.4	2683.4	2869.2	3103.7	3356.9
67.5°	1600.6	1747.9	1871.9	2082.3	2391.7	2510.1	2435.8	2445.5	2639.7	2882.6	3110.2
70°	1695.4	1871.0	1935.5	2093.9	2379.1	2426.0	2217.5	2088.3	2244.0	2520.8	2720.1
72.5°	1670.8	1872.4	1865.4	1939.2	2128.3	2172.0	1956.0	1752.5	1845.0	2051.7	2180.8
75°	1431.1	1672.2	1621.1	1606.2	1672.6	1701.4	1539.3	1508.2	1624.8	1739.5	1741.4
77.5°	1030.2	1295.5	1235.5	1149.6	1145.0	1211.4	1233.2	1437.1	1609.5	1700.0	1660.1
80°	656.3	943.8	881.6	731.6	729.2	815.6	1007.5	1284.8	1467.3	1518.0	1413.9
82.5°	342.8	617.8	641.5	549.0	628.5	771.5	958.7	1035.3	1104.6	1111.5	988.9
85°	213.7	380.0	446.8	461.2	567.6	684.2	682.8	655.9	625.2	535.1	484.0
87.5°	24.2	47.8	72.5	68.7	92.4	129.6	161.6	94.8	66.4	24.2	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	482.6	483.1	483.5	483.5	485.9	485.4	485.9	486.8	488.2	489.1	490.0
5°	486.3	486.3	488.2	489.6	492.4	494.2	495.1	497.9	501.2	500.3	503.0
7.5°	498.4	497.9	499.8	500.7	503.0	506.3	505.8	508.2	510.9	511.9	514.2
10°	514.7	513.3	513.3	512.3	512.8	511.9	511.9	511.9	513.7	513.3	515.1
12.5°	531.4	530.9	530.0	527.2	527.2	523.5	521.6	519.3	518.8	515.6	516.0
15°	565.7	565.7	563.9	558.3	553.7	550.4	545.8	542.5	537.9	531.8	528.6
17.5°	615.9	609.4	607.1	606.2	598.7	595.9	585.7	575.0	569.9	561.6	556.9
20°	677.2	675.8	666.5	661.9	652.6	639.6	626.6	612.7	604.3	594.1	588.5
22.5°	746.4	736.2	731.6	724.6	710.2	695.3	675.8	657.3	644.2	637.3	633.1
25°	827.3	817.0	812.4	803.1	785.5	769.7	745.5	723.7	712.1	700.5	693.9
27.5°	934.6	924.8	919.2	895.1	889.0	863.0	833.3	803.6	788.2	771.1	759.9
30°	1094.8	1095.3	1066.5	1037.2	1007.0	962.0	930.8	897.4	872.3	847.7	823.1
32.5°	1365.6	1296.4	1243.0	1180.3	1114.8	1066.9	1028.4	988.4	953.6	917.8	877.0
35°	1531.0	1497.5	1428.3	1313.6	1247.6	1189.6	1146.8	1098.5	1055.8	992.6	930.4
37.5°	1717.7	1640.1	1556.0	1492.4	1417.6	1350.3	1278.7	1223.9	1150.1	1065.1	976.8
40°	1990.3	1879.3	1778.1	1692.6	1596.0	1525.4	1445.5	1366.1	1268.1	1145.0	1023.7
42.5°	2275.1	2160.3	2026.6	1915.6	1801.8	1719.1	1620.1	1508.7	1364.7	1212.3	1064.1
45°	2573.7	2420.5	2260.2	2124.6	2006.1	1903.5	1780.9	1633.1	1457.6	1272.7	1101.8
47.5°	2868.2	2692.2	2501.3	2355.4	2201.2	2075.8	1925.3	1738.6	1530.0	1329.8	1139.4
50°	3127.9	2958.3	2728.4	2543.1	2387.0	2232.3	2044.7	1819.9	1587.2	1379.1	1173.3
52.5°	3351.8	3205.9	2963.9	2729.8	2550.1	2376.3	2140.8	1885.4	1644.8	1424.6	1201.2
55°	3516.2	3419.1	3196.2	2905.9	2693.6	2486.4	2222.1	1948.5	1699.1	1460.8	1219.3
57.5°	3640.2	3586.3	3395.0	3071.7	2825.5	2593.2	2306.2	2024.2	1753.0	1491.9	1227.6
60°	3708.0	3722.9	3545.5	3216.6	2942.1	2682.4	2390.3	2088.8	1792.9	1510.1	1223.0
62.5°	3701.5	3792.6	3658.3	3305.8	3009.9	2735.4	2446.9	2119.0	1787.4	1481.3	1180.7
63°	3689.0	3794.9	3670.9	3311.8	3014.1	2737.2	2448.3	2114.8	1775.7	1467.3	1164.0
65°	3580.8	3741.5	3660.2	3284.4	2976.9	2702.4	2419.1	2054.4	1694.0	1392.5	1078.1
67.5°	3290.9	3492.0	3468.8	3090.7	2800.9	2558.4	2269.5	1859.8	1491.9	1208.6	913.7
70°	2812.0	3001.1	3005.3	2688.0	2446.0	2208.2	1968.0	1513.3	1182.6	936.9	681.4
72.5°	2155.2	2276.9	2319.2	2110.2	1948.1	1780.9	1565.3	1098.5	843.1	637.3	443.6
75°	1668.9	1635.5	1635.0	1546.8	1480.8	1399.0	1162.2	741.3	553.7	414.3	271.3
77.5°	1500.3	1351.7	1207.7	1101.8	1048.8	1021.4	762.2	446.8	326.5	238.3	156.1
80°	1237.4	1018.2	822.6	708.3	662.8	694.4	425.0	241.5	178.8	135.6	101.3
82.5°	853.3	708.3	538.3	445.9	382.7	400.4	217.4	123.6	82.7	75.7	62.7
85°	444.5	389.7	328.9	282.4	249.4	219.2	112.9	59.0	34.4	30.2	27.4
87.5°	0.0	0.5	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°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	491.4	491.0	491.9	492.4	493.8	494.7	495.1	494.2	495.6	497.0	496.1
5°	504.4	507.7	508.2	509.5	509.5	512.3	512.3	512.3	511.9	512.3	511.4
7.5°	515.6	519.8	520.2	522.1	522.6	525.8	524.4	525.3	525.3	523.0	522.1
10°	517.0	521.2	523.5	525.8	529.1	533.2	533.2	535.6	535.6	533.7	533.2
12.5°	517.4	520.7	523.0	526.3	530.9	537.0	540.2	543.5	544.8	544.4	543.0
15°	527.2	527.2	527.7	530.4	533.7	541.1	545.8	549.5	551.8	550.9	548.6
17.5°	552.7	549.0	546.2	541.6	542.5	546.2	549.0	552.3	552.7	551.8	548.1
20°	582.5	577.8	570.9	563.4	559.7	556.9	555.1	555.1	553.7	549.0	543.0
22.5°	624.7	618.7	608.9	597.8	590.4	581.5	570.9	560.6	549.5	538.3	525.3
25°	683.3	674.9	664.7	647.5	631.7	613.1	591.3	568.5	542.1	518.8	499.8
27.5°	742.3	723.7	697.2	673.5	644.2	616.4	585.3	557.4	523.5	495.6	474.7
30°	791.0	755.7	717.6	680.0	641.5	603.8	566.7	533.2	496.1	467.7	447.3
32.5°	828.7	779.9	726.9	677.7	630.3	584.3	541.6	504.4	466.8	437.5	415.7
35°	863.5	795.7	728.3	667.5	608.9	561.1	512.8	472.4	432.4	401.8	378.1
37.5°	889.5	803.1	720.0	648.4	581.1	527.7	478.4	437.1	396.2	362.8	335.8
40°	906.2	798.5	701.8	621.0	548.1	491.9	441.7	399.0	359.5	322.8	290.3
42.5°	919.7	792.4	683.7	595.9	522.1	460.8	409.2	363.2	323.3	283.3	247.6
45°	939.7	797.1	675.8	578.3	498.9	434.3	377.6	329.8	288.0	249.0	214.6
47.5°	959.2	799.4	664.2	556.5	469.6	406.9	349.3	302.8	260.1	224.3	192.8
50°	976.8	798.0	646.1	528.6	441.3	379.5	323.7	277.3	235.0	202.1	172.3
52.5°	985.2	790.1	623.8	501.6	418.5	355.3	298.7	253.6	211.8	180.7	153.3
55°	984.3	769.7	594.5	476.1	393.4	329.8	274.0	229.5	191.8	163.0	139.3
57.5°	970.3	738.1	563.4	447.8	360.4	298.2	245.3	202.1	170.5	146.3	126.3
60°	941.1	697.7	522.6	406.4	319.1	259.2	209.5	172.3	146.8	128.2	115.2
62.5°	886.2	639.6	471.5	348.8	263.4	208.6	165.4	141.2	122.2	111.0	105.0
63°	870.0	623.8	449.6	334.9	250.4	196.9	156.1	131.0	117.1	107.3	101.7
65°	789.2	546.2	376.2	270.3	194.6	151.9	125.4	106.4	98.0	93.8	93.4
67.5°	639.1	429.7	266.2	185.3	132.4	109.6	96.1	88.3	84.5	83.6	84.5
70°	448.7	271.3	169.1	123.1	98.0	88.3	82.2	79.0	76.6	77.1	78.0
72.5°	286.1	162.6	116.1	93.4	82.7	77.6	74.8	73.9	73.4	72.9	72.9
75°	163.0	108.2	89.2	80.8	75.2	71.1	68.7	67.8	68.3	68.7	67.8
77.5°	107.8	89.2	79.4	73.9	68.7	64.1	62.7	62.2	63.2	64.1	64.1
80°	85.0	79.4	73.9	68.3	59.9	56.7	57.6	58.1	57.6	58.1	56.7
82.5°	59.9	59.0	60.4	58.1	49.7	46.9	46.0	46.4	45.5	45.5	44.6
85°	27.9	27.9	29.3	29.3	28.3	28.8	31.1	33.9	35.3	33.9	32.0
87.5°	0.0	0.0	0.0	0.0	0.0	4.2	8.4	12.1	13.0	16.3	15.8
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: P152933

CATALOG NUMBER: TLM-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	494.7	495.6	495.1	494.7	495.6	494.7	495.1	494.7	494.7	494.2	494.2
5°	510.5	511.9	509.1	508.6	507.7	505.4	505.4	504.4	504.4	502.6	501.2
7.5°	520.7	521.2	518.8	518.4	516.0	513.7	511.9	510.0	509.5	508.2	505.4
10°	530.4	529.5	527.7	525.3	523.0	519.8	517.4	515.1	514.7	512.3	509.1
12.5°	538.8	538.3	534.6	532.3	528.6	525.3	522.6	519.8	518.4	515.6	510.9
15°	544.4	541.6	537.0	532.8	528.6	524.9	521.6	518.4	517.0	513.7	509.1
17.5°	542.1	537.0	530.9	525.8	520.2	515.6	512.8	509.5	507.2	505.4	498.9
20°	533.7	526.3	517.0	510.9	503.5	497.5	495.6	492.4	490.5	483.5	475.2
22.5°	511.9	501.2	489.6	480.7	472.4	466.3	461.7	458.5	453.8	449.6	436.6
25°	484.5	472.4	460.3	449.6	438.5	429.2	420.8	412.9	410.6	401.8	389.2
27.5°	458.0	444.5	432.4	419.9	405.5	393.9	379.5	368.3	360.9	351.6	340.0
30°	429.7	416.2	399.9	383.2	366.5	353.9	337.7	324.2	314.9	305.2	294.5
32.5°	393.9	377.6	358.1	339.5	324.2	309.4	293.1	280.1	270.8	262.0	251.8
35°	353.0	331.6	310.7	290.3	274.0	261.5	247.1	237.4	230.9	223.0	212.3
37.5°	306.1	281.9	259.7	243.9	229.5	217.4	207.2	201.1	194.2	190.0	183.5
40°	258.7	235.0	213.2	198.8	186.7	179.8	174.2	172.8	168.1	162.6	158.4
42.5°	216.9	194.2	172.8	161.2	153.3	151.4	148.6	148.6	146.3	142.1	139.3
45°	188.6	164.9	146.3	138.0	133.8	133.3	131.9	131.9	131.5	129.6	126.3
47.5°	168.1	146.8	132.4	127.3	126.3	125.4	124.0	123.6	123.1	121.7	119.8
50°	149.6	131.5	122.2	119.8	120.3	118.9	117.5	116.1	115.7	114.3	112.4
52.5°	132.4	119.4	113.3	111.9	111.9	111.9	111.0	111.0	110.1	109.6	107.8
55°	122.6	112.9	109.6	109.2	108.7	108.2	107.3	107.3	106.4	105.9	103.6
57.5°	114.3	108.2	106.4	105.4	105.0	104.0	103.6	103.6	103.6	103.6	100.8
60°	107.8	105.0	104.5	103.6	103.1	101.3	100.3	99.9	100.3	100.8	98.0
62.5°	100.8	100.3	99.9	98.9	98.5	96.6	95.2	94.3	95.2	96.1	95.7
63°	98.9	98.5	98.5	98.0	97.5	95.2	93.8	92.9	93.8	94.8	94.8
65°	92.4	92.9	92.9	92.4	92.0	90.6	88.7	87.8	88.3	89.6	90.1
67.5°	85.5	85.9	85.5	85.9	85.5	84.5	83.1	82.2	81.8	82.2	82.7
70°	79.0	79.9	79.4	79.0	78.5	78.5	77.6	76.2	75.7	75.2	75.2
72.5°	73.4	73.4	72.5	72.5	72.0	72.0	71.1	69.7	69.2	69.2	68.3
75°	67.4	67.4	66.0	66.0	65.0	65.5	64.6	63.2	62.7	62.7	62.2
77.5°	63.6	62.2	59.9	59.5	59.0	59.0	58.5	57.1	56.7	56.7	56.2
80°	56.2	53.4	51.1	50.6	51.1	52.0	52.0	51.1	51.1	51.1	51.1
82.5°	43.7	42.7	41.3	40.4	40.4	41.8	43.7	44.6	45.5	46.4	46.4
85°	32.0	32.5	32.0	30.7	30.2	31.6	33.4	35.3	35.8	37.6	37.2
87.5°	17.2	17.7	16.3	15.8	17.2	18.1	20.0	20.4	21.4	21.8	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: P152933

CATALOG NUMBER: TLM-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	493.8	493.3	493.8	492.8	492.8	491.9	491.0	490.5	489.6	489.1	488.2
5°	502.1	500.7	499.3	498.9	497.0	495.1	493.8	491.4	489.6	486.3	485.4
7.5°	507.7	504.4	502.6	502.1	499.3	497.9	494.7	491.9	489.1	484.9	483.5
10°	510.0	506.8	503.5	502.1	498.9	496.5	493.3	489.1	486.8	482.6	481.7
12.5°	512.8	506.8	501.6	497.9	493.3	488.2	484.9	482.6	479.4	477.0	476.1
15°	507.7	499.8	491.9	484.9	477.5	471.9	468.7	465.0	461.2	459.8	459.8
17.5°	493.8	483.5	470.1	461.2	453.3	447.3	443.1	439.4	438.9	437.1	438.0
20°	465.0	451.5	438.5	432.0	427.3	423.6	419.4	417.6	416.2	413.4	412.5
22.5°	425.0	413.9	404.6	399.9	396.2	391.6	387.8	382.3	380.9	378.1	376.7
25°	380.9	372.1	364.2	360.9	358.6	352.1	349.8	342.3	337.2	334.0	335.8
27.5°	336.8	330.3	322.8	318.6	317.2	311.2	308.9	300.5	296.3	296.3	291.7
30°	291.2	285.2	280.6	275.9	275.0	267.5	261.5	258.3	253.6	251.8	248.5
32.5°	248.5	242.5	238.7	236.4	232.7	226.7	220.6	215.1	207.6	204.8	203.4
35°	209.0	204.4	199.7	197.9	192.8	186.3	178.8	174.2	165.4	162.1	160.7
37.5°	178.8	173.3	170.0	164.9	159.8	152.8	147.2	143.1	139.8	138.4	138.4
40°	154.7	150.5	146.8	142.6	138.4	134.7	131.9	131.0	130.5	130.5	131.5
42.5°	136.6	132.8	131.0	128.7	127.3	127.3	126.8	127.3	127.7	128.2	129.6
45°	124.5	122.2	121.2	120.8	121.7	122.6	123.1	124.0	125.9	126.8	127.3
47.5°	118.0	116.1	115.7	116.1	117.5	119.4	121.2	122.6	124.0	124.5	124.9
50°	111.5	109.2	108.2	109.2	111.0	113.8	115.2	117.5	118.4	119.4	118.4
52.5°	105.9	104.0	103.6	103.6	105.4	107.3	109.2	111.0	111.5	111.5	111.0
55°	101.3	99.9	98.5	99.4	100.8	102.7	105.4	106.8	107.8	108.2	108.2
57.5°	97.5	96.1	94.8	95.7	97.1	98.9	101.7	103.1	104.0	105.4	105.9
60°	94.8	92.9	91.5	92.9	94.3	97.1	99.4	100.8	103.1	103.6	103.6
62.5°	92.0	90.1	87.8	89.2	89.2	90.6	92.9	94.8	97.1	98.0	98.0
63°	91.5	89.6	87.3	88.3	88.3	89.2	91.0	92.9	95.7	96.6	96.1
65°	87.8	87.3	85.0	85.0	84.1	85.0	86.4	88.3	89.6	91.0	91.0
67.5°	81.8	81.3	80.8	80.8	80.8	81.8	82.7	84.1	85.5	86.4	85.9
70°	74.8	74.8	74.8	75.2	75.2	76.2	76.6	76.2	77.6	78.5	78.0
72.5°	68.7	68.3	67.8	68.7	68.3	68.3	69.2	68.7	70.1	70.1	70.6
75°	62.2	61.8	61.8	62.2	61.3	60.4	60.8	60.8	61.3	61.3	62.2
77.5°	56.7	56.7	56.7	56.2	55.3	54.8	54.3	54.3	54.3	54.3	54.8
80°	51.6	51.6	51.6	51.1	50.2	49.2	48.3	47.8	47.4	45.1	45.1
82.5°	46.4	46.4	46.4	46.4	46.0	45.1	43.7	39.9	38.1	36.2	36.7
85°	36.7	37.6	38.6	39.9	39.5	39.5	36.7	32.0	29.3	27.4	27.9
87.5°	23.7	20.9	20.9	20.4	19.5	18.6	18.6	15.8	13.0	11.6	12.1
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: P152933

CATALOG NUMBER: TLM-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	488.2	487.3	486.3	486.3	484.9	484.9	484.0	485.9	484.0	482.6	482.6
5°	484.5	483.5	480.7	480.3	478.4	478.4	478.4	477.5	477.5	476.6	476.1
7.5°	482.1	479.8	477.5	476.1	476.1	475.2	477.0	476.1	476.6	476.6	477.0
10°	480.3	478.4	477.5	477.0	477.0	478.4	479.8	480.3	479.8	480.3	480.3
12.5°	475.6	476.6	477.0	478.9	481.2	484.0	487.3	487.7	488.6	488.6	489.6
15°	460.8	463.1	465.9	470.5	476.6	482.6	488.6	493.8	498.4	500.7	502.6
17.5°	439.9	442.2	447.3	452.4	460.3	469.1	479.4	488.2	497.9	506.8	515.6
20°	411.5	415.3	416.6	425.9	435.2	447.3	459.4	473.3	490.0	506.8	523.9
22.5°	374.8	379.0	385.5	393.0	402.7	417.6	432.0	453.8	476.1	499.8	526.7
25°	334.0	338.6	344.2	352.1	361.8	377.6	398.5	421.8	449.2	480.3	513.7
27.5°	291.7	296.3	301.0	306.6	317.7	334.4	359.1	383.2	413.4	447.3	486.3
30°	249.4	249.9	252.7	259.7	271.3	293.1	311.2	341.4	373.0	408.8	453.8
32.5°	203.0	202.5	205.8	211.8	223.0	243.9	266.2	295.4	326.5	371.6	418.0
35°	161.6	161.6	167.7	173.7	186.3	201.1	220.6	246.6	283.3	325.1	371.6
37.5°	139.8	143.1	146.8	152.8	162.6	174.2	191.4	214.1	242.9	282.9	325.6
40°	132.8	134.7	138.0	143.5	151.9	162.6	175.1	192.3	214.6	246.6	285.7
42.5°	130.1	130.5	132.4	136.6	144.0	154.7	167.7	183.0	199.7	222.5	256.4
45°	127.3	126.8	127.7	131.0	137.0	149.1	164.0	180.7	197.4	216.5	244.3
47.5°	124.9	124.9	124.9	126.3	131.9	144.0	161.2	180.7	200.7	222.0	249.4
50°	118.4	118.0	118.0	118.9	123.1	136.1	156.5	180.2	206.2	234.1	265.2
52.5°	111.0	111.0	111.5	111.9	115.7	128.7	151.4	180.2	212.7	249.9	288.9
55°	108.7	109.2	109.6	109.2	111.9	123.1	145.8	177.4	215.5	262.4	314.5
57.5°	106.8	107.8	107.8	107.3	109.2	118.4	140.3	171.9	213.2	267.1	332.6
60°	104.0	104.0	104.0	102.7	103.6	111.9	131.9	163.0	205.8	262.9	335.4
62.5°	98.0	98.0	97.1	96.6	96.1	102.7	120.8	150.0	192.3	251.8	328.4
63°	96.6	96.1	96.1	94.8	94.8	100.8	118.4	148.2	188.6	249.0	325.6
65°	91.5	91.5	91.5	90.6	90.1	94.8	109.2	135.2	174.2	236.0	311.7
67.5°	85.9	86.4	85.5	85.0	84.5	87.3	98.5	118.9	151.9	208.6	285.7
70°	78.0	78.5	78.5	78.0	77.6	79.4	86.4	102.2	125.9	173.7	243.4
72.5°	71.1	72.0	72.0	72.9	72.9	74.3	77.1	85.0	100.8	135.6	191.4
75°	63.6	64.1	65.0	66.0	65.0	64.6	65.0	71.1	79.0	100.3	136.6
77.5°	57.1	58.5	58.5	58.1	56.7	55.7	55.7	58.5	65.0	76.2	97.5
80°	47.4	49.7	50.2	48.8	47.4	47.4	48.3	50.2	54.3	62.7	73.9
82.5°	38.1	40.4	40.9	41.3	40.9	42.3	42.3	42.7	45.1	51.6	60.4
85°	29.3	31.1	32.5	33.0	33.4	33.9	33.4	31.1	32.5	36.7	40.9
87.5°	13.0	13.5	12.5	13.0	12.5	13.0	13.5	11.1	10.7	14.4	14.9
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: P152933

CATALOG NUMBER: TLM-F02-LED-E1-SLL-8030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	482.1	482.1	482.6	481.7	481.7	482.1	480.7
5°	474.7	476.6	476.6	476.6	475.6	476.6	477.0
7.5°	476.6	478.0	478.9	478.9	478.4	480.3	481.7
10°	478.9	481.2	482.1	482.1	482.1	484.5	487.7
12.5°	487.7	489.6	491.0	491.0	491.9	494.7	498.4
15°	504.0	506.3	506.3	505.8	508.6	511.9	516.0
17.5°	522.1	528.6	531.8	531.4	533.7	537.9	542.5
20°	539.3	557.4	565.3	570.9	573.2	578.8	580.1
22.5°	553.7	583.9	605.7	624.3	633.1	638.7	645.2
25°	548.6	589.4	628.5	666.5	693.5	720.9	732.5
27.5°	527.7	578.8	629.8	685.6	734.4	783.1	818.4
30°	502.1	563.4	632.2	711.1	788.2	863.0	922.5
32.5°	472.9	549.0	637.3	734.8	836.1	934.1	1020.0
35°	436.2	521.6	624.7	737.1	856.5	975.4	1086.9
37.5°	389.7	484.5	595.5	720.4	857.4	993.5	1126.9
40°	343.3	437.5	558.3	696.3	845.4	997.7	1151.9
42.5°	310.7	395.7	520.7	665.6	825.9	991.2	1164.0
45°	288.4	365.6	487.3	637.7	805.0	979.6	1165.9
47.5°	286.6	352.5	465.4	617.3	788.2	969.4	1165.9
50°	302.4	359.5	458.0	607.1	781.3	966.1	1166.8
52.5°	332.1	387.4	471.5	615.0	786.8	970.3	1171.0
55°	367.9	429.7	507.7	642.4	810.5	984.3	1180.3
57.5°	400.4	478.4	569.5	695.3	853.7	1019.6	1206.3
60°	419.4	520.2	635.0	769.7	927.6	1089.7	1258.3
62.5°	421.8	543.5	693.0	850.5	1017.2	1170.1	1341.4
63°	419.9	545.3	700.5	865.8	1036.3	1190.0	1370.2
65°	409.7	545.8	721.4	919.7	1102.2	1274.1	1450.6
67.5°	383.7	530.9	728.8	962.0	1185.4	1384.6	1600.6
70°	338.6	488.6	707.0	962.9	1217.4	1446.4	1695.4
72.5°	272.2	408.3	612.7	876.0	1132.9	1385.6	1670.8
75°	199.3	300.1	463.1	678.6	924.3	1153.3	1431.1
77.5°	132.4	194.2	312.1	483.5	662.8	830.0	1030.2
80°	91.0	120.3	182.5	290.8	405.5	486.8	656.3
82.5°	66.9	79.4	101.3	148.6	195.1	240.1	342.8
85°	41.8	45.5	50.6	73.4	105.0	141.7	213.7
87.5°	11.1	11.6	10.7	14.4	22.8	21.8	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)