

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: P152404

Luminaire Tested: **TLM-F06-LED-E1-SL4-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152404
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F06-LED-E1-SL4-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13364.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.07 / 1.36
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

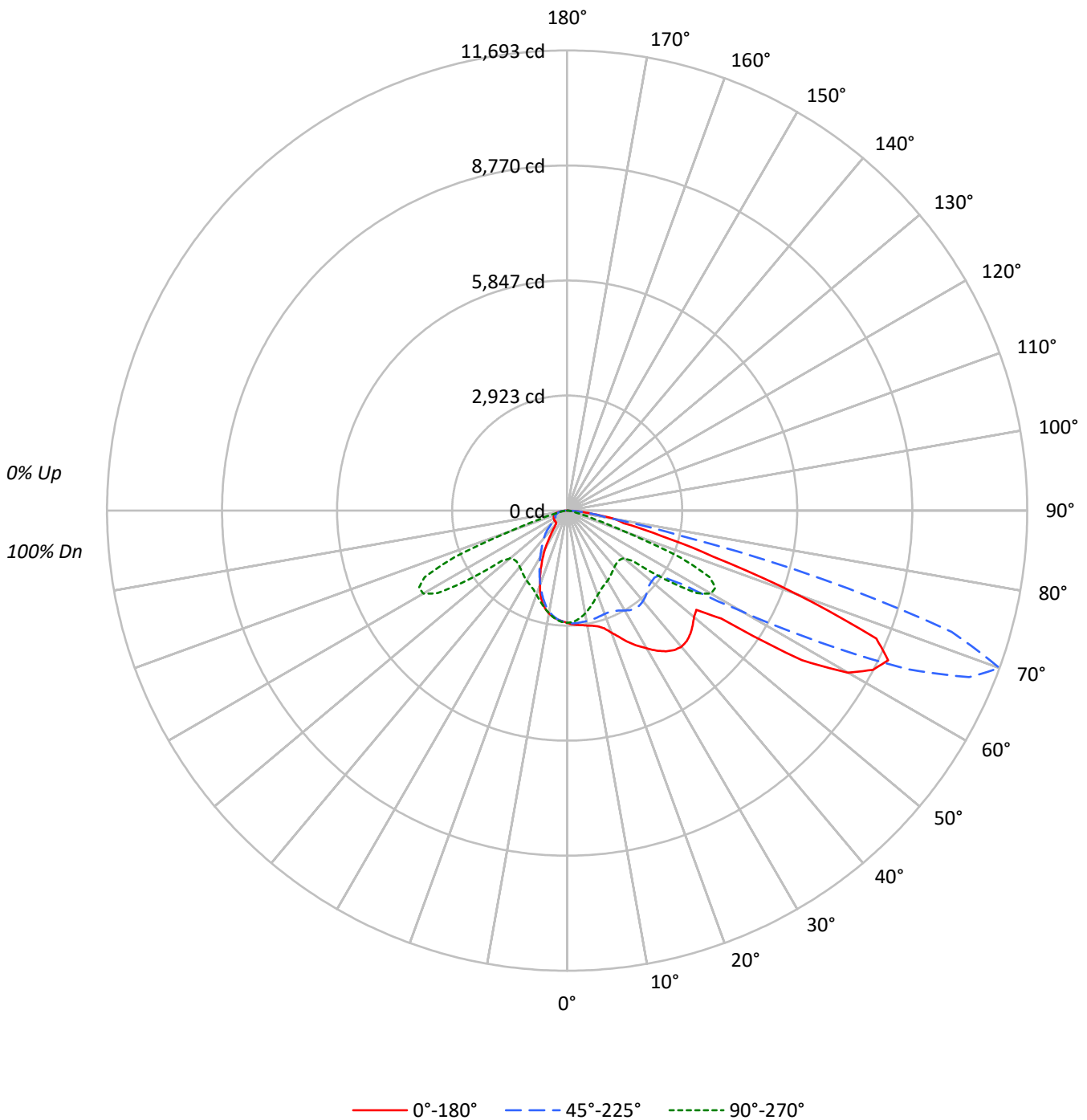
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P152404

CATALOG NUMBER: TLM-F06-LED-E1-SL4-7030

Luminous Intensity Polar Plot





TEST NUMBER: P152404

CATALOG NUMBER: TLM-F06-LED-E1-SL4-7030

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	106	100	94	89	103	97	92	88	93	89	85	89	86	82	85	82	80	78					78			
2	93	83	74	67	90	81	73	66	77	70	64	73	68	63	70	66	61	59					59			
3	83	70	59	51	80	68	58	51	65	57	50	62	55	49	59	53	48	45					45			
4	74	60	49	41	72	58	48	40	55	47	40	53	45	39	51	44	39	36					36			
5	67	52	41	33	65	51	41	33	48	40	33	46	38	32	44	37	32	29					29			
6	61	46	36	28	59	45	35	28	43	34	28	41	33	27	39	32	27	25					25			
7	57	41	31	24	55	40	31	24	39	30	24	37	29	23	36	29	23	21					21			
8	53	37	28	21	51	36	27	21	35	27	21	34	26	21	32	26	20	18					18			
9	49	34	25	19	47	33	25	19	32	24	18	31	24	18	30	23	18	16					16			
10	46	31	23	17	44	31	22	17	30	22	17	29	21	16	28	21	16	14					14			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30694	30694	30694
5°	31512	30225	30029
10°	32437	28975	29026
15°	33961	27441	27039
20°	37795	26048	23164
25°	43825	25396	18519
30°	50231	25547	13832
35°	57346	25741	8996
40°	63461	26275	6208
45°	67420	27754	6199
50°	70504	31540	6894
55°	89709	57731	7527
60°	177348	90800	8441
65°	229257	101782	9487
70°	195055	48123	10678
75°	102541	17688	13171
80°	76275	9627	14300
85°	44140	9312	14339



TEST NUMBER: P152404

CATALOG NUMBER: TLM-F06-LED-E1-SL4-7030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.4	2.0
10°-20°	729.3	5.5
20°-30°	1079.6	8.1
30°-40°	1364.3	10.2
40°-50°	1543.0	11.5
50°-60°	2195.7	16.4
60°-70°	4089.3	30.6
70°-80°	1874.2	14.0
80°-90°	222.5	1.7
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°	2075.3	15.5
0°-40°	3439.7	25.7
0°-60°	7178.4	53.7
0°-90°	13364.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13364.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2852	2852	2852	2852	2852	
5°	2916	2868	2797	2775	2779	280
15°	3048	2828	2462	2331	2426	877
25°	3690	2812	2138	1666	1559	1713
35°	4364	3037	1959	1116	685	2728
45°	4429	2885	1823	730	407	3407
55°	4780	2868	3076	371	401	5023
65°	9001	9532	3996	332	372	8300
75°	2466	6702	425	261	317	3031
85°	357	314	75	119	116	450
90°	0	0	0	0	0	



TEST NUMBER: P152404

CATALOG NUMBER: TLM-F06-LED-E1-SL4-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6
2.5°	2895.3	2902.9	2893.8	2892.3	2892.3	2890.8	2881.8	2880.3	2868.2	2869.7	2872.7
5°	2916.4	2919.5	2913.4	2911.9	2908.9	2902.9	2895.3	2886.3	2877.2	2868.2	2860.7
7.5°	2937.6	2934.5	2930.0	2930.0	2925.5	2916.4	2901.4	2889.3	2869.7	2859.1	2845.6
10°	2967.7	2963.2	2957.2	2954.1	2946.6	2933.0	2911.9	2895.3	2871.2	2850.1	2827.5
12.5°	2996.4	2994.9	2985.8	2981.3	2969.2	2955.7	2930.0	2904.4	2872.7	2839.5	2809.4
15°	3047.6	3041.6	3032.6	3023.5	3003.9	2985.8	2946.6	2916.4	2871.2	2827.5	2780.7
17.5°	3136.6	3126.1	3117.0	3097.4	3073.3	3041.6	2984.3	2933.0	2871.2	2807.9	2755.1
20°	3299.5	3276.9	3264.8	3239.2	3196.9	3139.6	3050.7	2967.7	2875.7	2794.3	2723.4
22.5°	3483.4	3468.4	3451.8	3435.2	3368.8	3285.9	3165.3	3041.6	2902.9	2788.3	2697.8
25°	3690.0	3670.4	3661.4	3632.7	3570.9	3475.9	3311.5	3139.6	2964.7	2812.4	2697.8
27.5°	3874.0	3868.0	3866.5	3833.3	3774.5	3662.9	3468.4	3261.8	3049.1	2862.2	2720.4
30°	4041.4	4035.4	4032.4	4014.3	3946.4	3813.7	3602.6	3370.4	3141.1	2931.5	2762.6
32.5°	4219.3	4199.7	4190.7	4156.0	4079.1	3923.8	3682.5	3441.2	3213.5	2999.4	2809.4
35°	4364.1	4347.5	4329.4	4279.7	4171.1	3987.1	3717.2	3465.4	3242.2	3037.1	2833.5
37.5°	4469.7	4453.1	4427.4	4364.1	4229.9	4008.2	3715.7	3457.8	3231.6	3031.1	2838.0
40°	4516.4	4499.8	4472.7	4392.8	4240.5	3996.2	3687.0	3423.1	3199.9	2999.4	2819.9
42.5°	4498.3	4486.3	4451.6	4374.7	4207.3	3941.9	3629.7	3358.3	3139.6	2948.1	2779.2
45°	4429.0	4419.9	4386.7	4305.3	4131.9	3854.4	3545.3	3276.9	3067.2	2884.8	2724.9
47.5°	4324.9	4321.9	4288.7	4208.8	4036.9	3767.0	3457.8	3196.9	2994.9	2823.0	2679.7
50°	4210.3	4195.2	4178.6	4104.7	3947.9	3691.6	3394.5	3147.2	2954.1	2800.3	2660.1
52.5°	4137.9	4133.4	4118.3	4052.0	3901.2	3647.8	3365.8	3129.1	2951.1	2795.8	2649.5
55°	4780.3	4790.9	4652.1	4364.1	4110.8	3768.5	3451.8	3221.1	3025.0	2868.2	2761.1
57.5°	7071.0	7024.2	6785.9	6214.4	5569.0	4717.0	4103.2	3730.8	3488.0	3515.1	3569.4
60°	8238.1	8229.1	8185.4	7963.7	7533.9	6885.5	6166.2	5341.3	5078.9	5107.6	5128.7
62.5°	8759.9	8773.5	8806.6	8723.7	8610.6	8422.1	8063.2	7731.4	7380.1	7248.9	6897.5
65°	9001.2	9025.3	9100.7	9147.4	9191.2	9224.4	9366.1	9755.2	10011.5	9532.0	8416.1
67.5°	8502.0	8618.1	8867.0	9109.7	9326.9	9636.0	10115.6	11018.9	11647.7	11058.1	9440.0
70°	6197.8	6356.2	6641.2	7392.2	8194.4	8895.6	9824.5	11199.8	12148.3	11692.9	9693.3
72.5°	3886.1	3929.8	4056.5	4332.4	4928.1	5828.4	7452.5	9515.4	10610.2	10246.8	8192.9
75°	2465.6	2480.6	2476.1	2539.5	2640.5	2836.5	3478.9	5620.3	7268.5	6701.5	4566.2
77.5°	1468.8	1491.4	1500.4	1520.1	1568.3	1637.7	1690.5	1912.1	3047.6	2958.7	1657.3
80°	1230.5	1248.6	1233.5	1229.0	1198.8	1177.7	1203.4	1177.7	1093.3	1052.6	969.6
82.5°	651.5	649.9	645.4	689.2	778.1	847.5	900.3	888.2	803.8	684.6	580.6
85°	357.4	369.5	369.5	384.5	371.0	372.5	384.5	405.6	375.5	313.7	256.4
87.5°	30.2	46.7	37.7	46.7	63.3	45.2	43.7	43.7	37.7	27.1	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: P152404

CATALOG NUMBER: TLM-F06-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6
2.5°	2865.2	2862.2	2856.1	2851.6	2851.6	2844.1	2839.5	2836.5	2835.0	2829.0	2829.0
5°	2856.1	2845.6	2835.0	2827.5	2823.0	2815.4	2803.3	2797.3	2789.8	2783.7	2780.7
7.5°	2836.5	2816.9	2800.3	2788.3	2773.2	2761.1	2746.0	2732.5	2718.9	2712.9	2709.9
10°	2806.4	2780.7	2755.1	2732.5	2711.4	2690.2	2670.6	2651.0	2634.5	2622.4	2610.3
12.5°	2777.7	2738.5	2705.3	2672.2	2639.0	2613.3	2586.2	2557.5	2533.4	2510.8	2504.8
15°	2738.5	2693.3	2651.0	2610.3	2569.6	2527.4	2494.2	2462.5	2423.3	2397.7	2378.1
17.5°	2702.3	2648.0	2596.8	2548.5	2498.7	2455.0	2405.2	2363.0	2323.8	2284.6	2255.9
20°	2663.1	2604.3	2550.0	2495.7	2441.4	2385.6	2328.3	2274.0	2225.8	2179.0	2132.3
22.5°	2628.4	2568.1	2515.3	2456.5	2396.2	2332.9	2266.5	2198.6	2142.8	2082.5	2028.2
25°	2607.3	2541.0	2486.7	2429.4	2363.0	2293.6	2218.2	2138.3	2070.5	2001.1	1936.3
27.5°	2607.3	2521.4	2465.6	2408.3	2340.4	2266.5	2183.6	2096.1	2019.2	1942.3	1862.4
30°	2629.9	2524.4	2449.0	2388.7	2319.3	2239.4	2147.4	2055.4	1970.9	1880.5	1803.6
32.5°	2651.0	2530.4	2436.9	2360.0	2280.1	2201.7	2108.2	2010.1	1916.7	1830.7	1749.3
35°	2664.6	2530.4	2414.3	2316.3	2225.8	2148.9	2056.9	1958.9	1863.9	1779.4	1704.0
37.5°	2666.1	2518.3	2378.1	2266.5	2171.5	2091.6	2004.1	1912.1	1821.6	1743.2	1679.9
40°	2651.0	2494.2	2341.9	2213.7	2114.2	2032.8	1952.8	1869.9	1788.5	1723.6	1669.3
42.5°	2623.9	2468.6	2307.2	2171.5	2067.5	1983.0	1909.1	1838.2	1767.4	1711.6	1666.3
45°	2583.2	2433.9	2275.6	2145.9	2043.3	1954.4	1882.0	1823.2	1762.8	1716.1	1670.8
47.5°	2547.0	2421.8	2286.1	2162.5	2055.4	1963.4	1889.5	1839.7	1793.0	1761.3	1699.5
50°	2539.5	2415.8	2290.6	2176.0	2067.5	1974.0	1909.1	1883.5	1869.9	1850.3	1755.3
52.5°	2518.3	2414.3	2323.8	2260.5	2191.1	2147.4	2079.5	2103.6	2088.6	2019.2	1847.3
55°	2740.0	2770.2	2854.6	2975.3	3086.8	3112.5	3104.9	3076.3	2924.0	2515.3	2069.0
57.5°	3767.0	3937.4	4097.2	4168.1	4159.0	4079.1	4021.8	3905.7	3685.5	3187.9	2506.3
60°	5193.5	5220.7	5136.2	5011.0	4799.9	4623.5	4435.0	4217.8	3898.1	3411.1	2774.7
62.5°	6507.0	6142.0	5766.5	5413.7	5092.5	4812.0	4549.6	4246.5	3830.3	3322.1	2740.0
65°	7434.4	6662.3	6069.6	5563.0	5109.1	4717.0	4389.7	3996.2	3527.2	3068.8	2539.5
67.5°	7912.4	6728.6	5819.3	5113.6	4469.7	3926.8	3491.0	3108.0	2759.6	2559.1	2222.8
70°	7378.6	5710.7	4444.0	3646.3	2875.7	2305.7	1821.6	1529.1	1428.1	1618.1	1682.9
72.5°	5498.1	3717.2	2643.5	2044.8	1566.8	1248.6	957.6	752.5	612.2	642.4	833.9
75°	2599.8	1604.5	1134.0	862.6	686.1	568.5	464.5	425.3	355.9	295.6	277.5
77.5°	1011.9	737.4	609.2	446.4	316.7	254.8	217.2	209.6	214.1	208.1	205.1
80°	770.6	521.8	327.2	239.8	206.6	182.5	161.4	155.3	158.3	165.9	173.4
82.5°	429.8	268.4	199.1	173.4	155.3	132.7	120.6	111.6	113.1	122.1	138.7
85°	165.9	129.7	119.1	114.6	107.1	86.0	73.9	75.4	86.0	102.5	102.5
87.5°	18.1	18.1	24.1	18.1	18.1	18.1	16.6	19.6	21.1	27.1	31.7
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: P152404

CATALOG NUMBER: TLM-F06-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6	2851.6
2.5°	2826.0	2826.0	2826.0	2823.0	2824.5	2818.4	2818.4	2813.9	2821.4	2816.9	2815.4
5°	2782.2	2780.7	2774.7	2774.7	2774.7	2774.7	2779.2	2767.2	2776.2	2776.2	2771.7
7.5°	2708.3	2708.3	2691.8	2700.8	2697.8	2702.3	2708.3	2702.3	2711.4	2717.4	2712.9
10°	2605.8	2605.8	2592.2	2602.8	2598.3	2608.8	2619.4	2613.3	2619.4	2628.4	2631.4
12.5°	2492.7	2486.7	2474.6	2479.1	2479.1	2485.2	2489.7	2497.2	2504.8	2516.8	2522.9
15°	2361.5	2352.5	2337.4	2337.4	2328.3	2331.3	2340.4	2343.4	2358.5	2375.1	2394.7
17.5°	2227.3	2204.7	2188.1	2168.5	2153.4	2165.5	2176.0	2183.6	2195.6	2221.3	2234.8
20°	2100.6	2055.4	2023.7	1998.1	1981.5	1989.0	2002.6	2011.7	2022.2	2028.2	2032.8
22.5°	1975.5	1924.2	1880.5	1848.8	1821.6	1829.2	1823.2	1818.6	1826.2	1806.6	1805.1
25°	1866.9	1806.6	1747.8	1710.1	1676.9	1666.3	1634.7	1627.1	1606.0	1589.4	1577.4
27.5°	1788.5	1710.1	1645.2	1601.5	1548.7	1509.5	1468.8	1428.1	1405.4	1378.3	1364.7
30°	1726.6	1643.7	1566.8	1492.9	1423.5	1363.2	1308.9	1256.2	1220.0	1180.8	1155.1
32.5°	1669.3	1592.4	1498.9	1397.9	1304.4	1236.5	1165.7	1105.4	1048.1	996.8	959.1
35°	1630.1	1544.2	1425.0	1301.4	1195.8	1115.9	1040.5	954.6	885.2	818.8	778.1
37.5°	1609.0	1503.5	1357.2	1220.0	1102.3	1011.9	918.4	818.8	734.4	672.6	610.7
40°	1592.4	1462.7	1296.9	1147.6	1023.9	915.3	806.8	689.2	595.7	530.8	482.6
42.5°	1574.3	1417.5	1244.1	1090.3	953.0	826.4	695.2	570.0	481.0	435.8	414.7
45°	1554.7	1378.3	1194.3	1036.0	883.7	729.9	579.1	463.0	410.2	395.1	395.1
47.5°	1550.2	1352.7	1158.1	983.2	805.3	618.3	472.0	399.6	384.5	387.6	393.6
50°	1568.3	1345.1	1126.5	921.4	701.2	500.7	399.6	375.5	378.5	387.6	396.6
52.5°	1612.0	1351.2	1093.3	835.4	577.6	413.2	369.5	367.9	377.0	390.6	399.6
55°	1685.9	1351.2	1030.0	707.2	461.4	371.0	358.9	364.9	377.0	389.1	396.6
57.5°	1844.3	1337.6	918.4	565.5	386.0	355.9	355.9	363.4	374.0	386.0	392.1
60°	2032.8	1319.5	761.5	437.3	348.3	343.8	354.4	363.4	372.5	383.0	389.1
62.5°	2044.8	1272.7	603.2	361.9	328.7	336.3	352.9	364.9	367.9	375.5	383.0
65°	1879.0	1109.9	479.5	324.2	319.7	331.8	348.3	357.4	358.9	361.9	369.5
67.5°	1645.2	904.8	387.6	306.1	310.6	324.2	333.3	340.8	345.3	352.9	354.4
70°	1351.2	726.8	331.8	288.0	292.5	307.6	315.2	322.7	331.8	340.8	336.3
72.5°	957.6	565.5	291.0	268.4	274.5	288.0	297.1	303.1	310.6	319.7	313.7
75°	407.2	395.1	251.8	242.8	251.8	260.9	269.9	279.0	286.5	291.0	291.0
77.5°	208.1	232.2	217.2	217.2	223.2	232.2	239.8	248.8	253.3	257.9	263.9
80°	176.4	179.5	182.5	188.5	194.5	203.6	211.1	218.7	220.2	221.7	224.7
82.5°	146.3	152.3	155.3	164.4	168.9	171.9	176.4	176.4	179.5	179.5	174.9
85°	105.6	113.1	117.6	119.1	117.6	119.1	120.6	123.7	131.2	131.2	125.2
87.5°	30.2	28.7	36.2	37.7	40.7	46.7	52.8	63.3	66.4	69.4	69.4
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: P152404

CATALOG NUMBER: TLM-F06-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	2851.6	2851.6	2851.6	2851.6
2.5°	2813.9	2816.9	2810.9	2812.4
5°	2771.7	2777.7	2770.2	2779.2
7.5°	2717.4	2726.4	2724.9	2723.4
10°	2639.0	2651.0	2651.0	2655.6
12.5°	2539.5	2547.0	2553.0	2556.0
15°	2405.2	2418.8	2426.4	2426.4
17.5°	2243.9	2252.9	2257.5	2251.4
20°	2038.8	2035.8	2037.3	2022.2
22.5°	1802.0	1806.6	1793.0	1796.0
25°	1569.8	1562.3	1568.3	1559.3
27.5°	1345.1	1346.6	1330.0	1337.6
30°	1131.0	1123.5	1102.3	1112.9
32.5°	924.4	904.8	882.2	868.6
35°	729.9	699.7	689.2	684.6
37.5°	573.0	539.9	529.3	517.2
40°	455.4	443.3	438.8	441.8
42.5°	408.7	408.7	411.7	413.2
45°	396.6	401.1	405.6	407.2
47.5°	398.1	402.6	408.7	410.2
50°	401.1	405.6	410.2	411.7
52.5°	402.6	402.6	405.6	407.2
55°	399.6	398.1	399.6	401.1
57.5°	393.6	390.6	392.1	396.6
60°	390.6	386.0	389.1	392.1
62.5°	383.0	381.5	384.5	386.0
65°	366.4	367.9	372.5	372.5
67.5°	351.4	352.9	354.4	355.9
70°	333.3	334.8	337.8	339.3
72.5°	312.2	318.2	322.7	328.7
75°	295.6	301.6	310.6	316.7
77.5°	266.9	271.4	282.0	289.5
80°	226.2	224.7	226.2	230.7
82.5°	173.4	173.4	171.9	170.4
85°	122.1	120.6	116.1	116.1
87.5°	66.4	64.8	63.3	60.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)