

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: P152403

Luminaire Tested: **TLM-F06-LED-E1-SL4-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P152403  
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-SL4-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL  
Light Source: (42) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

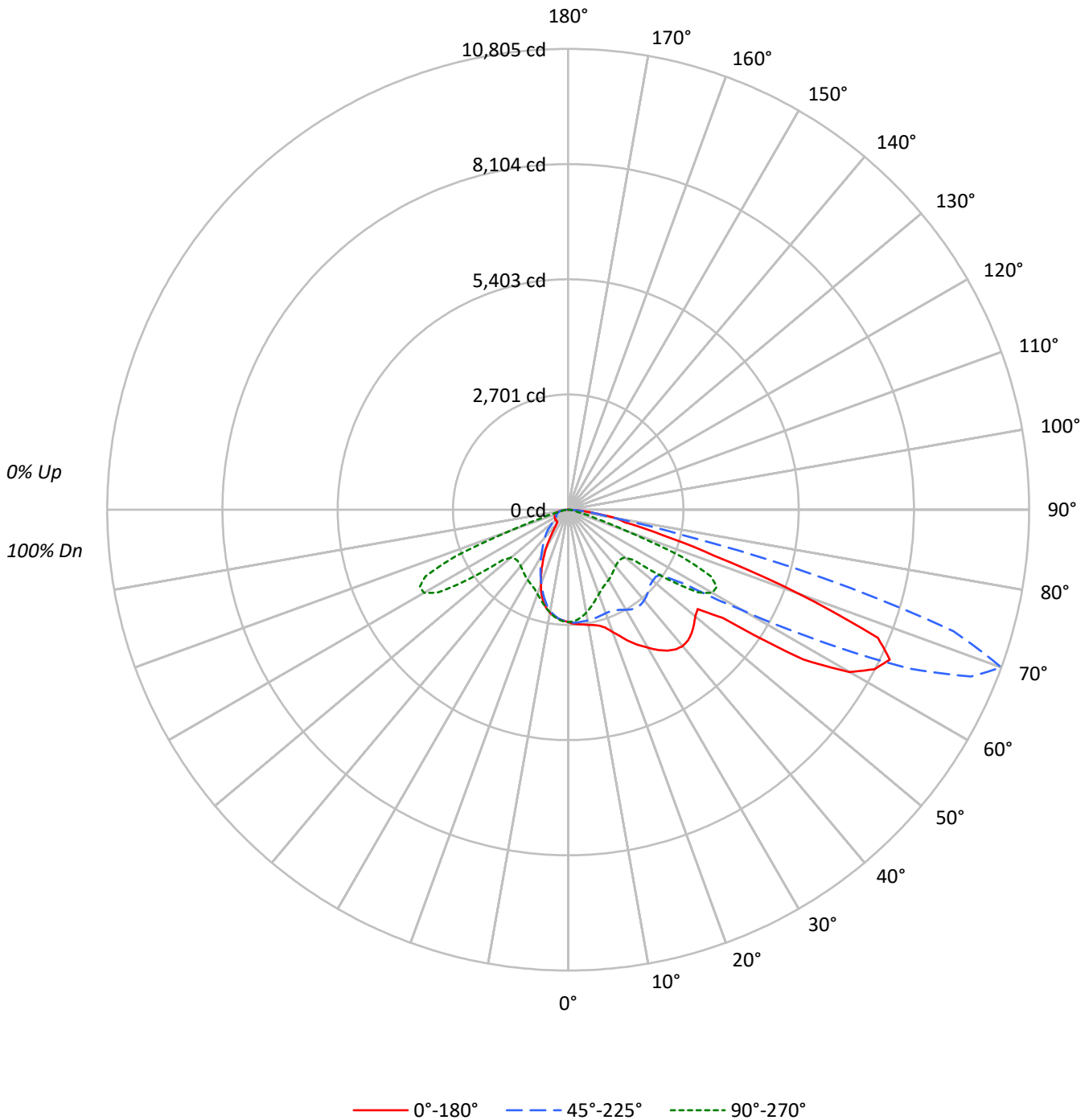
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12349.4 lumens  
Efficiency: N/A  
Efficacy: 78.9 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



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CATALOG NUMBER: TLM-F06-LED-E1-SL4-8030

### 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	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°	28364	28364	28364
5°	29120	27930	27749
10°	29974	26775	26821
15°	31383	25357	24985
20°	34924	24071	21404
25°	40497	23467	17112
30°	46416	23607	12782
35°	52991	23785	8313
40°	58642	24279	5737
45°	62299	25645	5727
50°	65151	29144	6370
55°	82896	53347	6957
60°	163881	83905	7800
65°	211846	94052	8767
70°	180244	44469	9866
75°	94751	16344	12169
80°	70485	8895	13216
85°	40793	8608	13252



TEST NUMBER: P152403

CATALOG NUMBER: TLM-F06-LED-E1-SL4-8030

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	246.2	2.0
10°-20°	673.9	5.5
20°-30°	997.6	8.1
30°-40°	1260.7	10.2
40°-50°	1425.8	11.5
50°-60°	2029.0	16.4
60°-70°	3778.8	30.6
70°-80°	1731.8	14.0
80°-90°	205.6	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°	1917.7	15.5
0°-40°	3178.4	25.7
0°-60°	6633.2	53.7
0°-90°	12349.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12349.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	2635	2635	2635	2635	2635	
5°	2695	2650	2585	2564	2568	259
15°	2816	2613	2276	2154	2242	811
25°	3410	2599	1976	1540	1441	1583
35°	4033	2806	1810	1031	633	2521
45°	4093	2666	1685	674	376	3148
55°	4417	2650	2843	343	371	4641
65°	8318	8808	3693	307	344	7670
75°	2278	6193	393	241	293	2801
85°	330	290	70	110	107	415
90°	0	0	0	0	0	



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CATALOG NUMBER: TLM-F06-LED-E1-SL4-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1
2.5°	2675.5	2682.4	2674.1	2672.7	2672.7	2671.3	2662.9	2661.5	2650.4	2651.8	2654.6
5°	2695.0	2697.8	2692.2	2690.8	2688.0	2682.4	2675.5	2667.1	2658.7	2650.4	2643.4
7.5°	2714.5	2711.7	2707.5	2707.5	2703.3	2695.0	2681.0	2669.9	2651.8	2642.0	2629.5
10°	2742.4	2738.2	2732.6	2729.8	2722.8	2710.3	2690.8	2675.5	2653.2	2633.7	2612.8
12.5°	2768.8	2767.4	2759.1	2754.9	2743.7	2731.2	2707.5	2683.8	2654.6	2623.9	2596.0
15°	2816.2	2810.6	2802.3	2793.9	2775.8	2759.1	2722.8	2695.0	2653.2	2612.8	2569.6
17.5°	2898.4	2888.7	2880.3	2862.2	2839.9	2810.6	2757.7	2710.3	2653.2	2594.6	2545.9
20°	3048.9	3028.0	3016.9	2993.2	2954.2	2901.2	2819.0	2742.4	2657.3	2582.1	2516.6
22.5°	3218.9	3205.0	3189.7	3174.3	3113.0	3036.4	2924.9	2810.6	2682.4	2576.5	2492.9
25°	3409.8	3391.7	3383.3	3356.9	3299.7	3212.0	3060.1	2901.2	2739.6	2598.8	2492.9
27.5°	3579.8	3574.3	3572.9	3542.2	3487.9	3384.7	3205.0	3014.1	2817.6	2644.8	2513.8
30°	3734.5	3728.9	3726.1	3709.4	3646.7	3524.1	3329.0	3114.4	2902.6	2708.9	2552.8
32.5°	3898.9	3880.8	3872.5	3840.4	3769.3	3625.8	3402.9	3179.9	2969.5	2771.6	2596.0
35°	4032.7	4017.4	4000.7	3954.7	3854.3	3684.3	3434.9	3202.2	2996.0	2806.5	2618.3
37.5°	4130.2	4114.9	4091.2	4032.7	3908.7	3703.8	3433.5	3195.2	2986.2	2800.9	2622.5
40°	4173.4	4158.1	4133.0	4059.2	3918.4	3692.7	3407.0	3163.2	2956.9	2771.6	2605.8
42.5°	4156.7	4145.6	4113.5	4042.5	3887.8	3642.5	3354.1	3103.3	2901.2	2724.2	2568.2
45°	4092.6	4084.3	4053.6	3978.4	3818.1	3561.7	3276.1	3028.0	2834.3	2665.7	2518.0
47.5°	3996.5	3993.7	3963.0	3889.2	3730.3	3480.9	3195.2	2954.2	2767.4	2608.6	2476.2
50°	3890.6	3876.6	3861.3	3793.0	3648.1	3411.2	3136.7	2908.2	2729.8	2587.7	2458.1
52.5°	3823.7	3819.5	3805.6	3744.3	3604.9	3370.8	3110.2	2891.5	2727.0	2583.5	2448.3
55°	4417.3	4427.1	4298.9	4032.7	3798.6	3482.3	3189.7	2976.5	2795.3	2650.4	2551.4
57.5°	6534.0	6490.8	6270.6	5742.5	5146.1	4358.8	3791.6	3447.4	3223.1	3248.2	3298.3
60°	7612.5	7604.2	7563.8	7358.9	6961.8	6362.6	5697.9	4935.7	4693.2	4719.7	4739.2
62.5°	8094.7	8107.2	8137.9	8061.2	7956.7	7782.5	7450.9	7144.3	6819.6	6698.4	6373.7
65°	8317.6	8339.9	8409.6	8452.8	8493.2	8523.9	8654.8	9014.4	9251.3	8808.1	7777.0
67.5°	7856.4	7963.7	8193.6	8418.0	8618.6	8904.3	9347.4	10182.1	10763.2	10218.3	8723.1
70°	5727.2	5873.5	6136.8	6830.8	7572.1	8220.1	9078.5	10349.3	11225.8	10805.0	8957.2
72.5°	3591.0	3631.4	3748.4	4003.4	4553.9	5385.8	6886.5	8792.8	9804.5	9468.6	7570.7
75°	2278.3	2292.3	2288.1	2346.6	2440.0	2621.1	3214.7	5193.5	6716.5	6192.6	4219.4
77.5°	1357.2	1378.1	1386.5	1404.6	1449.2	1513.3	1562.1	1766.9	2816.2	2734.0	1531.4
80°	1137.1	1153.8	1139.9	1135.7	1107.8	1088.3	1112.0	1088.3	1010.3	972.6	896.0
82.5°	602.0	600.6	596.4	636.8	719.0	783.1	831.9	820.8	742.7	632.6	536.5
85°	330.3	341.4	341.4	355.3	342.8	344.2	355.3	374.8	347.0	289.8	236.9
87.5°	27.9	43.2	34.8	43.2	58.5	41.8	40.4	40.4	34.8	25.1	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: P152403

CATALOG NUMBER: TLM-F06-LED-E1-SL4-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1
2.5°	2647.6	2644.8	2639.2	2635.1	2635.1	2628.1	2623.9	2621.1	2619.7	2614.2	2614.2
5°	2639.2	2629.5	2619.7	2612.8	2608.6	2601.6	2590.5	2584.9	2577.9	2572.3	2569.6
7.5°	2621.1	2603.0	2587.7	2576.5	2562.6	2551.4	2537.5	2525.0	2512.4	2506.9	2504.1
10°	2593.2	2569.6	2545.9	2525.0	2505.5	2486.0	2467.8	2449.7	2434.4	2423.2	2412.1
12.5°	2566.8	2530.5	2499.9	2469.2	2438.6	2414.9	2389.8	2363.3	2341.0	2320.1	2314.6
15°	2530.5	2488.7	2449.7	2412.1	2374.5	2335.5	2304.8	2275.5	2239.3	2215.6	2197.5
17.5°	2497.1	2446.9	2399.6	2355.0	2309.0	2268.6	2222.6	2183.6	2147.3	2111.1	2084.6
20°	2460.9	2406.5	2356.4	2306.2	2256.0	2204.5	2151.5	2101.4	2056.8	2013.6	1970.4
22.5°	2428.8	2373.1	2324.3	2270.0	2214.2	2155.7	2094.4	2031.7	1980.1	1924.4	1874.2
25°	2409.3	2348.0	2297.8	2244.9	2183.6	2119.5	2049.8	1975.9	1913.2	1849.1	1789.2
27.5°	2409.3	2329.9	2278.3	2225.4	2162.7	2094.4	2017.7	1936.9	1865.9	1794.8	1720.9
30°	2430.2	2332.7	2263.0	2207.3	2143.2	2069.3	1984.3	1899.3	1821.3	1737.7	1666.6
32.5°	2449.7	2338.2	2251.8	2180.8	2106.9	2034.5	1948.1	1857.5	1771.1	1691.7	1616.4
35°	2462.3	2338.2	2230.9	2140.4	2056.8	1985.7	1900.7	1810.1	1722.3	1644.3	1574.6
37.5°	2463.7	2327.1	2197.5	2094.4	2006.6	1932.7	1851.9	1766.9	1683.3	1610.9	1552.3
40°	2449.7	2304.8	2164.1	2045.6	1953.6	1878.4	1804.5	1727.9	1652.7	1592.7	1542.6
42.5°	2424.6	2281.1	2132.0	2006.6	1910.4	1832.4	1764.1	1698.6	1633.1	1581.6	1539.8
45°	2387.0	2249.1	2102.7	1982.9	1888.2	1805.9	1739.1	1684.7	1629.0	1585.8	1544.0
47.5°	2353.6	2237.9	2112.5	1998.2	1899.3	1814.3	1746.0	1700.0	1656.8	1627.6	1570.4
50°	2346.6	2232.3	2116.7	2010.8	1910.4	1824.1	1764.1	1740.4	1727.9	1709.8	1622.0
52.5°	2327.1	2230.9	2147.3	2088.8	2024.7	1984.3	1921.6	1943.9	1930.0	1865.9	1707.0
55°	2531.9	2559.8	2637.8	2749.3	2852.4	2876.1	2869.2	2842.7	2701.9	2324.3	1911.8
57.5°	3480.9	3638.4	3786.1	3851.6	3843.2	3769.3	3716.4	3609.1	3405.6	2945.8	2315.9
60°	4799.1	4824.2	4746.2	4630.5	4435.4	4272.4	4098.2	3897.5	3602.1	3152.0	2564.0
62.5°	6012.8	5675.6	5328.6	5002.6	4705.8	4446.6	4204.1	3924.0	3539.4	3069.8	2531.9
65°	6869.8	6156.4	5608.7	5140.5	4721.1	4358.8	4056.4	3692.7	3259.3	2835.7	2346.6
67.5°	7311.5	6217.7	5377.4	4725.3	4130.2	3628.6	3225.9	2871.9	2550.1	2364.7	2054.0
70°	6818.3	5277.1	4106.6	3369.4	2657.3	2130.6	1683.3	1413.0	1319.6	1495.2	1555.1
72.5°	5080.6	3434.9	2442.8	1889.5	1447.8	1153.8	884.9	695.3	565.7	593.6	770.6
75°	2402.3	1482.7	1047.9	797.1	634.0	525.3	429.2	393.0	328.9	273.1	256.4
77.5°	935.0	681.4	563.0	412.5	292.6	235.5	200.7	193.7	197.9	192.3	189.5
80°	712.1	482.1	302.4	221.6	190.9	168.6	149.1	143.5	146.3	153.3	160.2
82.5°	397.1	248.0	183.9	160.2	143.5	122.6	111.5	103.1	104.5	112.9	128.2
85°	153.3	119.8	110.1	105.9	98.9	79.4	68.3	69.7	79.4	94.8	94.8
87.5°	16.7	16.7	22.3	16.7	16.7	16.7	15.3	18.1	19.5	25.1	29.3
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: P152403

CATALOG NUMBER: TLM-F06-LED-E1-SL4-8030

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1	2635.1
2.5°	2611.4	2611.4	2611.4	2608.6	2610.0	2604.4	2604.4	2600.2	2607.2	2603.0	2601.6
5°	2571.0	2569.6	2564.0	2564.0	2564.0	2564.0	2568.2	2557.0	2565.4	2565.4	2561.2
7.5°	2502.7	2502.7	2487.3	2495.7	2492.9	2497.1	2502.7	2497.1	2505.5	2511.0	2506.9
10°	2407.9	2407.9	2395.4	2405.1	2401.0	2410.7	2420.5	2414.9	2420.5	2428.8	2431.6
12.5°	2303.4	2297.8	2286.7	2290.9	2290.9	2296.4	2300.6	2307.6	2314.6	2325.7	2331.3
15°	2182.2	2173.8	2159.9	2159.9	2151.5	2154.3	2162.7	2165.5	2179.4	2194.7	2212.8
17.5°	2058.2	2037.3	2021.9	2003.8	1989.9	2001.0	2010.8	2017.7	2028.9	2052.6	2065.1
20°	1941.1	1899.3	1870.0	1846.3	1831.0	1838.0	1850.5	1858.9	1868.6	1874.2	1878.4
22.5°	1825.4	1778.1	1737.7	1708.4	1683.3	1690.3	1684.7	1680.5	1687.5	1669.4	1668.0
25°	1725.1	1669.4	1615.0	1580.2	1549.5	1539.8	1510.5	1503.6	1484.0	1468.7	1457.6
27.5°	1652.7	1580.2	1520.3	1479.9	1431.1	1394.9	1357.2	1319.6	1298.7	1273.6	1261.1
30°	1595.5	1518.9	1447.8	1379.5	1315.4	1259.7	1209.5	1160.8	1127.3	1091.1	1067.4
32.5°	1542.6	1471.5	1385.1	1291.7	1205.4	1142.6	1077.2	1021.4	968.5	921.1	886.2
35°	1506.3	1426.9	1316.8	1202.6	1105.0	1031.2	961.5	882.1	818.0	756.7	719.0
37.5°	1486.8	1389.3	1254.1	1127.3	1018.6	935.0	848.6	756.7	678.6	621.5	564.4
40°	1471.5	1351.7	1198.4	1060.4	946.2	845.8	745.5	636.8	550.4	490.5	445.9
42.5°	1454.8	1309.9	1149.6	1007.5	880.7	763.6	642.4	526.7	444.5	402.7	383.2
45°	1436.7	1273.6	1103.6	957.3	816.6	674.4	535.1	427.8	379.0	365.1	365.1
47.5°	1432.5	1249.9	1070.2	908.5	744.1	571.3	436.2	369.3	355.3	358.1	363.7
50°	1449.2	1243.0	1040.9	851.4	648.0	462.6	369.3	347.0	349.8	358.1	366.5
52.5°	1489.6	1248.6	1010.3	772.0	533.7	381.8	341.4	340.0	348.4	360.9	369.3
55°	1557.9	1248.6	951.7	653.5	426.4	342.8	331.6	337.2	348.4	359.5	366.5
57.5°	1704.2	1236.0	848.6	522.6	356.7	328.9	328.9	335.8	345.6	356.7	362.3
60°	1878.4	1219.3	703.7	404.1	321.9	317.7	327.5	335.8	344.2	353.9	359.5
62.5°	1889.5	1176.1	557.4	334.4	303.8	310.7	326.1	337.2	340.0	347.0	353.9
65°	1736.3	1025.6	443.1	299.6	295.4	306.6	321.9	330.3	331.6	334.4	341.4
67.5°	1520.3	836.1	358.1	282.9	287.1	299.6	308.0	314.9	319.1	326.1	327.5
70°	1248.6	671.7	306.6	266.2	270.3	284.3	291.2	298.2	306.6	314.9	310.7
72.5°	884.9	522.6	268.9	248.0	253.6	266.2	274.5	280.1	287.1	295.4	289.8
75°	376.2	365.1	232.7	224.3	232.7	241.1	249.4	257.8	264.8	268.9	268.9
77.5°	192.3	214.6	200.7	200.7	206.2	214.6	221.6	229.9	234.1	238.3	243.9
80°	163.0	165.8	168.6	174.2	179.8	188.1	195.1	202.1	203.4	204.8	207.6
82.5°	135.2	140.7	143.5	151.9	156.1	158.9	163.0	163.0	165.8	165.8	161.6
85°	97.5	104.5	108.7	110.1	108.7	110.1	111.5	114.3	121.2	121.2	115.7
87.5°	27.9	26.5	33.4	34.8	37.6	43.2	48.8	58.5	61.3	64.1	64.1
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: P152403

CATALOG NUMBER: TLM-F06-LED-E1-SL4-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	2635.1	2635.1	2635.1	2635.1
2.5°	2600.2	2603.0	2597.4	2598.8
5°	2561.2	2566.8	2559.8	2568.2
7.5°	2511.0	2519.4	2518.0	2516.6
10°	2438.6	2449.7	2449.7	2453.9
12.5°	2346.6	2353.6	2359.1	2361.9
15°	2222.6	2235.1	2242.1	2242.1
17.5°	2073.5	2081.8	2086.0	2080.5
20°	1884.0	1881.2	1882.6	1868.6
22.5°	1665.2	1669.4	1656.8	1659.6
25°	1450.6	1443.6	1449.2	1440.8
27.5°	1243.0	1244.4	1229.0	1236.0
30°	1045.1	1038.1	1018.6	1028.4
32.5°	854.2	836.1	815.2	802.6
35°	674.4	646.6	636.8	632.6
37.5°	529.5	498.9	489.1	478.0
40°	420.8	409.7	405.5	408.3
42.5°	377.6	377.6	380.4	381.8
45°	366.5	370.7	374.8	376.2
47.5°	367.9	372.1	377.6	379.0
50°	370.7	374.8	379.0	380.4
52.5°	372.1	372.1	374.8	376.2
55°	369.3	367.9	369.3	370.7
57.5°	363.7	360.9	362.3	366.5
60°	360.9	356.7	359.5	362.3
62.5°	353.9	352.5	355.3	356.7
65°	338.6	340.0	344.2	344.2
67.5°	324.7	326.1	327.5	328.9
70°	308.0	309.4	312.1	313.5
72.5°	288.4	294.0	298.2	303.8
75°	273.1	278.7	287.1	292.6
77.5°	246.6	250.8	260.6	267.5
80°	209.0	207.6	209.0	213.2
82.5°	160.2	160.2	158.9	157.5
85°	112.9	111.5	107.3	107.3
87.5°	61.3	59.9	58.5	55.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)