

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: P152407

Luminaire Tested: **TLM-F06-LED-E1-SL4-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152407
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-SL4-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

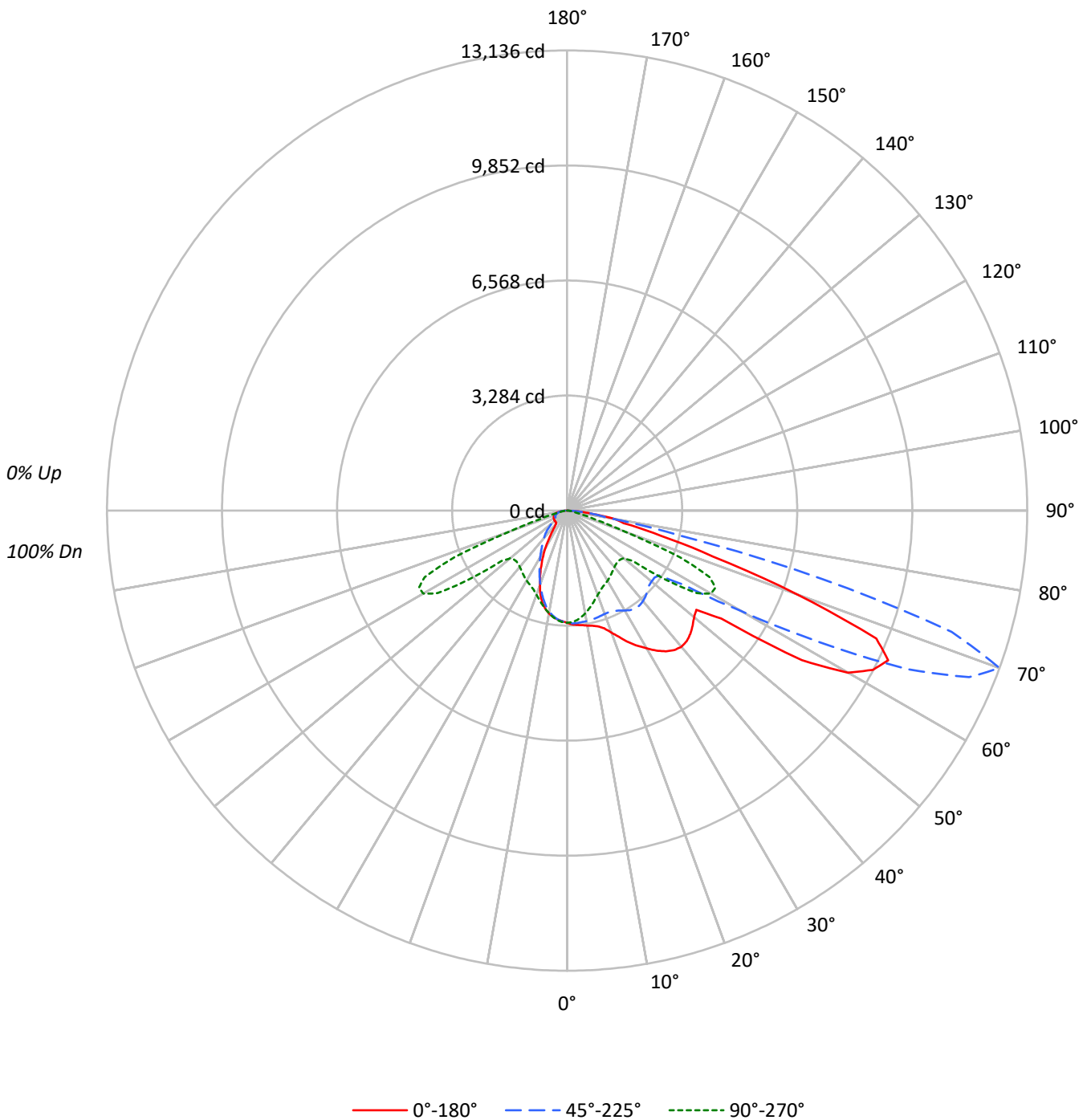
Lumens per Lamp: N/A
Luminaire Lumens: 15014.2 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.07 / 1.36
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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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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°	34483	34483	34483
5°	35403	33957	33737
10°	36442	32553	32608
15°	38155	30829	30376
20°	42460	29265	26024
25°	49236	28531	20806
30°	56432	28700	15540
35°	64426	28918	10106
40°	71296	29518	6975
45°	75742	31179	6963
50°	79209	35434	7745
55°	100784	64858	8456
60°	199242	102010	9483
65°	257559	114346	10659
70°	219137	54065	11997
75°	115196	19871	14797
80°	85691	10817	16067
85°	49586	10461	16105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.3	2.0
10°-20°	819.3	5.5
20°-30°	1212.9	8.1
30°-40°	1532.8	10.2
40°-50°	1733.5	11.5
50°-60°	2466.8	16.4
60°-70°	4594.2	30.6
70°-80°	2105.5	14.0
80°-90°	249.9	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°	2331.5	15.5
0°-40°	3864.3	25.7
0°-60°	8064.5	53.7
0°-90°	15014.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15014.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3204	3204	3204	3204	3204	
5°	3276	3222	3143	3117	3122	314
15°	3424	3176	2766	2619	2726	985
25°	4146	3160	2402	1872	1752	1925
35°	4903	3412	2201	1254	769	3065
45°	4976	3241	2048	820	457	3828
55°	5370	3222	3456	417	451	5643
65°	10112	10709	4490	373	418	9324
75°	2770	7529	478	293	356	3406
85°	402	352	85	134	130	505
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°	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6
2.5°	3252.8	3261.2	3251.1	3249.4	3249.4	3247.7	3237.5	3235.8	3222.3	3224.0	3227.4
5°	3276.5	3279.9	3273.1	3271.4	3268.0	3261.2	3252.8	3242.6	3232.4	3222.3	3213.8
7.5°	3300.2	3296.8	3291.7	3291.7	3286.7	3276.5	3259.5	3246.0	3224.0	3212.1	3196.9
10°	3334.1	3329.0	3322.2	3318.8	3310.4	3295.1	3271.4	3252.8	3225.7	3201.9	3176.5
12.5°	3366.3	3364.6	3354.4	3349.3	3335.8	3320.5	3291.7	3262.9	3227.4	3190.1	3156.2
15°	3423.9	3417.1	3406.9	3396.8	3374.7	3354.4	3310.4	3276.5	3225.7	3176.5	3124.0
17.5°	3523.8	3512.0	3501.8	3479.8	3452.7	3417.1	3352.7	3295.1	3225.7	3154.5	3095.2
20°	3706.8	3681.4	3667.8	3639.0	3591.6	3527.2	3427.3	3334.1	3230.7	3139.3	3059.6
22.5°	3913.5	3896.5	3877.9	3859.3	3784.7	3691.6	3556.0	3417.1	3261.2	3132.5	3030.8
25°	4145.6	4123.6	4113.4	4081.2	4011.8	3905.0	3720.4	3527.2	3330.7	3159.6	3030.8
27.5°	4352.3	4345.5	4343.8	4306.5	4240.5	4115.1	3896.5	3664.4	3425.6	3215.5	3056.2
30°	4540.3	4533.5	4530.2	4509.8	4433.6	4284.5	4047.3	3786.4	3528.9	3293.4	3103.7
32.5°	4740.2	4718.2	4708.0	4669.1	4582.7	4408.2	4137.1	3866.1	3610.2	3369.7	3156.2
35°	4902.9	4884.2	4863.9	4808.0	4686.0	4479.3	4176.1	3893.2	3642.4	3412.0	3183.3
37.5°	5021.5	5002.8	4974.0	4902.9	4752.1	4503.1	4174.4	3884.7	3630.6	3405.2	3188.4
40°	5074.0	5055.3	5024.9	4935.1	4764.0	4489.5	4142.2	3845.7	3595.0	3369.7	3168.1
42.5°	5053.7	5040.1	5001.1	4914.7	4726.7	4428.5	4077.8	3772.9	3527.2	3312.1	3122.3
45°	4975.7	4965.6	4928.3	4836.8	4642.0	4330.3	3982.9	3681.4	3445.9	3240.9	3061.3
47.5°	4858.8	4855.4	4818.2	4728.4	4535.2	4232.0	3884.7	3591.6	3364.6	3171.5	3010.5
50°	4730.1	4713.1	4694.5	4611.5	4435.3	4147.3	3813.5	3535.7	3318.8	3146.0	2988.5
52.5°	4648.8	4643.7	4626.7	4552.2	4382.8	4098.2	3781.3	3515.4	3315.5	3141.0	2976.6
55°	5370.5	5382.3	5226.5	4902.9	4618.3	4233.7	3877.9	3618.7	3398.5	3222.3	3102.0
57.5°	7943.9	7891.4	7623.7	6981.6	6256.5	5299.3	4609.8	4191.3	3918.6	3949.1	4010.1
60°	9255.1	9245.0	9195.9	8946.8	8464.0	7735.5	6927.4	6000.7	5705.9	5738.1	5761.8
62.5°	9841.3	9856.6	9893.8	9800.7	9673.6	9461.8	9058.6	8685.9	8291.2	8143.8	7749.0
65°	10112.4	10139.5	10224.2	10276.7	10325.9	10363.1	10522.4	10959.5	11247.5	10708.7	9455.1
67.5°	9551.6	9682.1	9961.6	10234.4	10478.3	10825.6	11364.4	12379.2	13085.6	12423.2	10605.4
70°	6963.0	7140.8	7461.0	8304.7	9206.0	9993.8	11037.4	12582.5	13648.1	13136.4	10890.0
72.5°	4365.8	4415.0	4557.3	4867.3	5536.5	6547.9	8372.5	10690.1	11920.0	11511.8	9204.3
75°	2769.9	2786.9	2781.8	2853.0	2966.5	3186.7	3908.4	6314.1	8165.8	7528.8	5129.9
77.5°	1650.1	1675.5	1685.7	1707.7	1761.9	1839.8	1899.1	2148.2	3423.9	3323.9	1861.9
80°	1382.4	1402.8	1385.8	1380.7	1346.9	1323.1	1351.9	1323.1	1228.3	1182.5	1089.3
82.5°	731.9	730.2	725.1	774.2	874.2	952.1	1011.4	997.9	903.0	769.1	652.2
85°	401.5	415.1	415.1	432.0	416.8	418.5	432.0	455.7	421.8	352.4	288.0
87.5°	33.9	52.5	42.4	52.5	71.2	50.8	49.1	49.1	42.4	30.5	27.1
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°	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6
2.5°	3218.9	3215.5	3208.7	3203.6	3203.6	3195.2	3190.1	3186.7	3185.0	3178.2	3178.2
5°	3208.7	3196.9	3185.0	3176.5	3171.5	3163.0	3149.4	3142.7	3134.2	3127.4	3124.0
7.5°	3186.7	3164.7	3146.0	3132.5	3115.5	3102.0	3085.0	3069.8	3054.6	3047.8	3044.4
10°	3152.8	3124.0	3095.2	3069.8	3046.1	3022.4	3000.3	2978.3	2959.7	2946.1	2932.6
12.5°	3120.6	3076.6	3039.3	3002.0	2964.8	2936.0	2905.5	2873.3	2846.2	2820.8	2814.0
15°	3076.6	3025.8	2978.3	2932.6	2886.8	2839.4	2802.1	2766.5	2722.5	2693.7	2671.7
17.5°	3035.9	2974.9	2917.3	2863.1	2807.2	2758.1	2702.2	2654.7	2610.7	2566.6	2534.5
20°	2991.9	2925.8	2864.8	2803.8	2742.8	2680.1	2615.8	2554.8	2500.6	2448.0	2395.5
22.5°	2952.9	2885.1	2825.8	2759.8	2692.0	2620.9	2546.3	2470.1	2407.4	2339.6	2278.6
25°	2929.2	2854.6	2793.7	2729.3	2654.7	2576.8	2492.1	2402.3	2326.1	2248.1	2175.3
27.5°	2929.2	2832.6	2769.9	2705.6	2629.3	2546.3	2453.1	2354.9	2268.5	2182.1	2092.3
30°	2954.6	2836.0	2751.3	2683.5	2605.6	2515.8	2412.5	2309.1	2214.3	2112.6	2026.2
32.5°	2978.3	2842.8	2737.7	2651.3	2561.6	2473.5	2368.4	2258.3	2153.3	2056.7	1965.2
35°	2993.6	2842.8	2712.3	2602.2	2500.6	2414.2	2310.8	2200.7	2094.0	1999.1	1914.4
37.5°	2995.3	2829.2	2671.7	2546.3	2439.6	2349.8	2251.5	2148.2	2046.5	1958.4	1887.3
40°	2978.3	2802.1	2631.0	2487.0	2375.2	2283.7	2193.9	2100.7	2009.3	1936.4	1875.4
42.5°	2947.8	2773.3	2592.1	2439.6	2322.7	2227.8	2144.8	2065.2	1985.5	1922.9	1872.0
45°	2902.1	2734.4	2556.5	2410.8	2295.6	2195.6	2114.3	2048.2	1980.5	1927.9	1877.1
47.5°	2861.4	2720.8	2568.3	2429.4	2309.1	2205.8	2122.8	2066.9	2014.3	1978.8	1909.3
50°	2853.0	2714.0	2573.4	2444.7	2322.7	2217.6	2144.8	2116.0	2100.7	2078.7	1972.0
52.5°	2829.2	2712.3	2610.7	2539.5	2461.6	2412.5	2336.2	2363.3	2346.4	2268.5	2075.3
55°	3078.3	3112.2	3207.0	3342.6	3467.9	3496.7	3488.3	3456.1	3285.0	2825.8	2324.4
57.5°	4232.0	4423.4	4603.0	4682.6	4672.5	4582.7	4518.3	4387.9	4140.5	3581.4	2815.7
60°	5834.7	5865.2	5770.3	5629.7	5392.5	5194.3	4982.5	4738.5	4379.4	3832.2	3117.2
62.5°	7310.3	6900.3	6478.4	6082.0	5721.1	5406.0	5111.3	4770.7	4303.1	3732.2	3078.3
65°	8352.2	7484.8	6819.0	6249.7	5739.8	5299.3	4931.7	4489.5	3962.6	3447.6	2853.0
67.5°	8889.2	7559.3	6537.7	5744.9	5021.5	4411.6	3922.0	3491.6	3100.3	2875.0	2497.2
70°	8289.5	6415.8	4992.7	4096.5	3230.7	2590.4	2046.5	1717.9	1604.4	1817.8	1890.7
72.5°	6176.9	4176.1	2969.8	2297.3	1760.2	1402.8	1075.8	845.4	687.8	721.7	936.9
75°	2920.7	1802.6	1274.0	969.1	770.8	638.7	521.8	477.8	399.8	332.1	311.7
77.5°	1136.8	828.4	684.4	501.5	355.8	286.3	244.0	235.5	240.6	233.8	230.4
80°	865.7	586.2	367.6	269.4	232.1	205.0	181.3	174.5	177.9	186.4	194.8
82.5°	482.8	301.6	223.6	194.8	174.5	149.1	135.5	125.4	127.1	137.2	155.9
85°	186.4	145.7	133.8	128.8	120.3	96.6	83.0	84.7	96.6	115.2	115.2
87.5°	20.3	20.3	27.1	20.3	20.3	20.3	18.6	22.0	23.7	30.5	35.6
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°	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6	3203.6
2.5°	3174.8	3174.8	3174.8	3171.5	3173.1	3166.4	3166.4	3161.3	3169.8	3164.7	3163.0
5°	3125.7	3124.0	3117.2	3117.2	3117.2	3117.2	3122.3	3108.8	3118.9	3118.9	3113.8
7.5°	3042.7	3042.7	3024.1	3034.2	3030.8	3035.9	3042.7	3035.9	3046.1	3052.9	3047.8
10°	2927.5	2927.5	2912.2	2924.1	2919.0	2930.9	2942.7	2936.0	2942.7	2952.9	2956.3
12.5°	2800.4	2793.7	2780.1	2785.2	2785.2	2792.0	2797.0	2805.5	2814.0	2827.5	2834.3
15°	2653.0	2642.9	2625.9	2625.9	2615.8	2619.2	2629.3	2632.7	2649.7	2668.3	2690.3
17.5°	2502.3	2476.8	2458.2	2436.2	2419.2	2432.8	2444.7	2453.1	2466.7	2495.5	2510.7
20°	2360.0	2309.1	2273.6	2244.8	2226.1	2234.6	2249.8	2260.0	2271.9	2278.6	2283.7
22.5°	2219.3	2161.7	2112.6	2077.0	2046.5	2055.0	2048.2	2043.1	2051.6	2029.6	2027.9
25°	2097.4	2029.6	1963.5	1921.2	1883.9	1872.0	1836.5	1828.0	1804.3	1785.6	1772.1
27.5°	2009.3	1921.2	1848.3	1799.2	1739.9	1695.8	1650.1	1604.4	1578.9	1548.5	1533.2
30°	1939.8	1846.6	1760.2	1677.2	1599.3	1531.5	1470.5	1411.2	1370.6	1326.5	1297.7
32.5°	1875.4	1789.0	1684.0	1570.5	1465.4	1389.2	1309.6	1241.8	1177.4	1119.8	1077.5
35°	1831.4	1734.8	1601.0	1462.1	1343.5	1253.7	1169.0	1072.4	994.5	919.9	874.2
37.5°	1807.7	1689.1	1524.7	1370.6	1238.4	1136.8	1031.7	919.9	825.1	755.6	686.1
40°	1789.0	1643.3	1457.0	1289.2	1150.3	1028.3	906.4	774.2	669.2	596.3	542.1
42.5°	1768.7	1592.5	1397.7	1224.9	1070.7	928.4	781.0	640.4	540.4	489.6	465.9
45°	1746.7	1548.5	1341.8	1163.9	992.8	820.0	650.6	520.1	460.8	443.9	443.9
47.5°	1741.6	1519.7	1301.1	1104.6	904.7	694.6	530.3	449.0	432.0	435.4	442.2
50°	1761.9	1511.2	1265.5	1035.1	787.8	562.5	449.0	421.8	425.2	435.4	445.6
52.5°	1811.0	1518.0	1228.3	938.6	648.9	464.2	415.1	413.4	423.5	438.8	449.0
55°	1894.1	1518.0	1157.1	794.6	518.4	416.8	403.2	410.0	423.5	437.1	445.6
57.5°	2071.9	1502.7	1031.7	635.3	433.7	399.8	399.8	408.3	420.1	433.7	440.5
60°	2283.7	1482.4	855.5	491.3	391.3	386.3	398.1	408.3	418.5	430.3	437.1
62.5°	2297.3	1429.9	677.7	406.6	369.3	377.8	396.4	410.0	413.4	421.8	430.3
65°	2110.9	1246.9	538.7	364.2	359.2	372.7	391.3	401.5	403.2	406.6	415.1
67.5°	1848.3	1016.5	435.4	343.9	349.0	364.2	374.4	382.9	388.0	396.4	398.1
70°	1518.0	816.6	372.7	323.6	328.7	345.6	354.1	362.5	372.7	382.9	377.8
72.5°	1075.8	635.3	327.0	301.6	308.3	323.6	333.7	340.5	349.0	359.2	352.4
75°	457.4	443.9	282.9	272.8	282.9	293.1	303.3	313.4	321.9	327.0	327.0
77.5°	233.8	260.9	244.0	244.0	250.7	260.9	269.4	279.5	284.6	289.7	296.5
80°	198.2	201.6	205.0	211.8	218.5	228.7	237.2	245.7	247.3	249.0	252.4
82.5°	164.3	171.1	174.5	184.7	189.7	193.1	198.2	198.2	201.6	201.6	196.5
85°	118.6	127.1	132.1	133.8	132.1	133.8	135.5	138.9	147.4	147.4	140.6
87.5°	33.9	32.2	40.7	42.4	45.7	52.5	59.3	71.2	74.5	77.9	77.9
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: P152407

CATALOG NUMBER: TLM-F06-LED-E1-SL4-7060

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	3203.6	3203.6	3203.6	3203.6
2.5°	3161.3	3164.7	3157.9	3159.6
5°	3113.8	3120.6	3112.2	3122.3
7.5°	3052.9	3063.0	3061.3	3059.6
10°	2964.8	2978.3	2978.3	2983.4
12.5°	2853.0	2861.4	2868.2	2871.6
15°	2702.2	2717.4	2725.9	2725.9
17.5°	2520.9	2531.1	2536.1	2529.4
20°	2290.5	2287.1	2288.8	2271.9
22.5°	2024.5	2029.6	2014.3	2017.7
25°	1763.6	1755.1	1761.9	1751.8
27.5°	1511.2	1512.9	1494.2	1502.7
30°	1270.6	1262.1	1238.4	1250.3
32.5°	1038.5	1016.5	991.1	975.8
35°	820.0	786.1	774.2	769.1
37.5°	643.8	606.5	594.6	581.1
40°	511.6	498.1	493.0	496.4
42.5°	459.1	459.1	462.5	464.2
45°	445.6	450.6	455.7	457.4
47.5°	447.3	452.3	459.1	460.8
50°	450.6	455.7	460.8	462.5
52.5°	452.3	452.3	455.7	457.4
55°	449.0	447.3	449.0	450.6
57.5°	442.2	438.8	440.5	445.6
60°	438.8	433.7	437.1	440.5
62.5°	430.3	428.6	432.0	433.7
65°	411.7	413.4	418.5	418.5
67.5°	394.7	396.4	398.1	399.8
70°	374.4	376.1	379.5	381.2
72.5°	350.7	357.5	362.5	369.3
75°	332.1	338.8	349.0	355.8
77.5°	299.9	304.9	316.8	325.3
80°	254.1	252.4	254.1	259.2
82.5°	194.8	194.8	193.1	191.4
85°	137.2	135.5	130.4	130.4
87.5°	74.5	72.8	71.2	67.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)