

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: P156661

Luminaire Tested: **TLM-E06-LED-E1-T4-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P156661
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-E06-LED-E1-T4-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18605.6 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.73 / 2.02 / 2.64
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

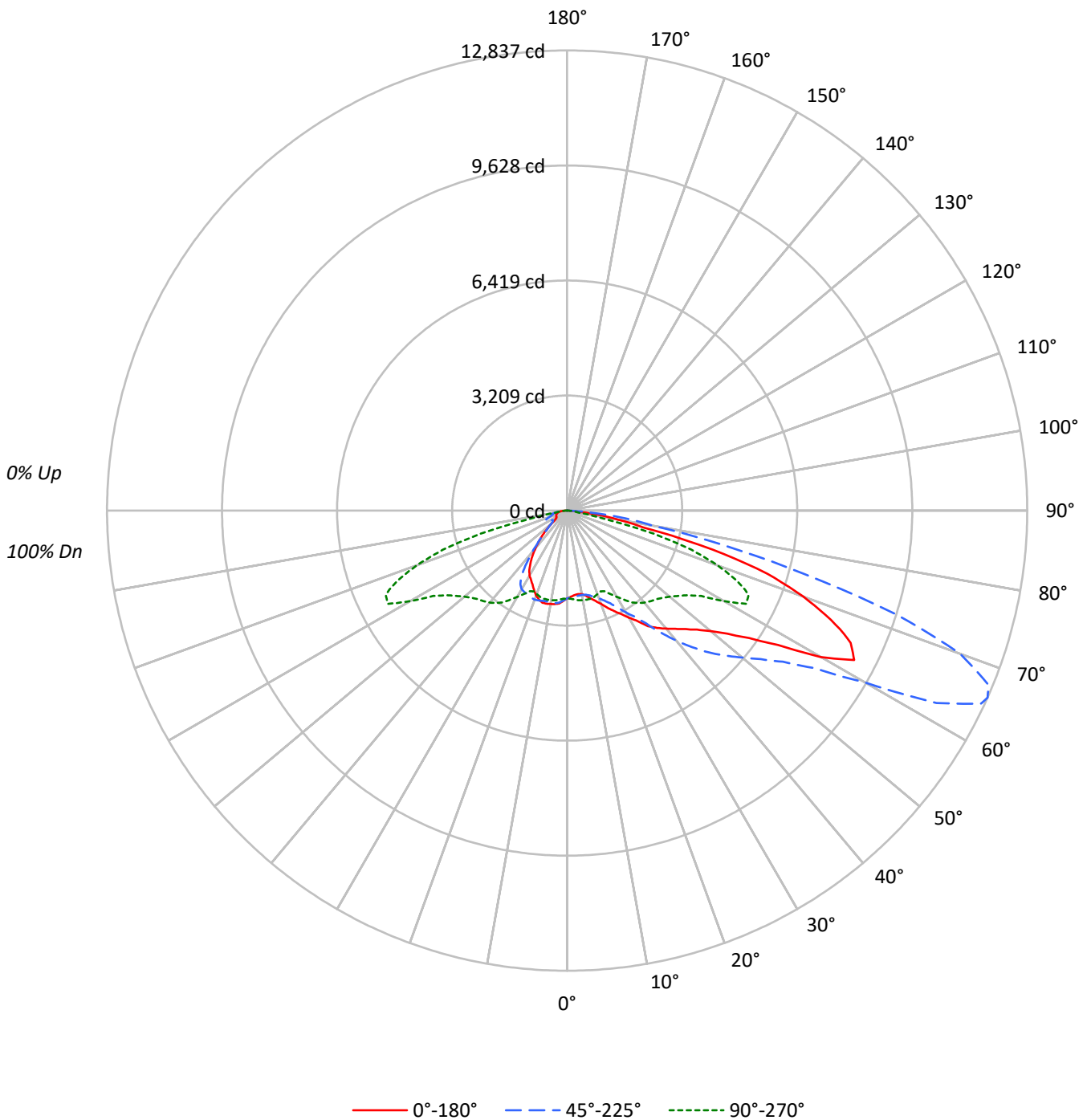
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P156661

CATALOG NUMBER: TLM-E06-LED-E1-T4-7050

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	96	91	87	92	88	84	88	84	81	84	81	79	76					76			
2	92	81	72	65	89	79	71	64	76	69	62	72	66	61	69	64	59	57					57			
3	82	68	58	49	79	66	57	49	63	55	48	60	53	47	57	51	46	43					43			
4	73	58	47	39	70	57	46	38	54	45	38	51	43	37	49	42	36	34					34			
5	66	50	39	31	64	49	39	31	47	38	31	45	36	30	42	35	30	27					27			
6	60	44	34	26	58	43	33	26	41	32	25	39	31	25	38	30	25	22					22			
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19					19			
8	51	35	26	19	49	35	25	19	33	25	19	32	24	18	31	23	18	16					16			
9	47	32	23	16	46	31	23	16	30	22	16	29	22	16	28	21	16	14					14			
10	44	29	21	15	43	29	20	15	28	20	14	27	19	14	26	19	14	12					12			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26397	26397	26397
5°	25544	26964	28117
10°	25840	27769	28913
15°	28311	28335	29661
20°	31735	28397	28914
25°	36731	29516	27079
30°	42852	34562	26043
35°	51695	41044	23434
40°	60412	47118	19349
45°	71196	53326	14714
50°	87530	62545	9416
55°	116422	77178	7049
60°	175790	108769	7423
65°	222301	142171	8573
70°	220496	140477	10203
75°	174880	104038	12547
80°	88666	21881	15645
85°	12931	17994	20020



TEST NUMBER: P156661

CATALOG NUMBER: TLM-E06-LED-E1-T4-7050

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.1	1.3
10°-20°	723.0	3.9
20°-30°	1245.4	6.7
30°-40°	1884.2	10.1
40°-50°	2442.2	13.1
50°-60°	3367.0	18.1
60°-70°	5231.2	28.1
70°-80°	3042.0	16.3
80°-90°	432.6	2.3
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°	2206.5	11.9
0°-40°	4090.7	22.0
0°-60°	9899.9	53.2
0°-90°	18605.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18605.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2452	2452	2452	2452	2452	
5°	2364	2399	2496	2578	2602	226
15°	2541	2452	2543	2608	2662	728
25°	3093	2859	2485	2598	2280	1442
35°	3934	3844	3124	2204	1783	2459
45°	4677	5598	3503	924	967	3656
55°	6204	7349	4113	476	376	5746
65°	8728	12742	5582	673	337	8260
75°	4205	6850	2502	423	302	4331
85°	105	714	146	172	162	453
90°	0	0	0	0	0	



TEST NUMBER: P156661

CATALOG NUMBER: TLM-E06-LED-E1-T4-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4
2.5°	2407.2	2415.5	2409.3	2411.3	2411.3	2413.4	2413.4	2415.5	2413.4	2419.6	2423.7
5°	2364.1	2368.3	2366.2	2370.3	2374.4	2382.6	2380.6	2390.8	2392.9	2399.0	2409.3
7.5°	2347.7	2343.6	2345.7	2351.8	2355.9	2360.0	2364.1	2372.4	2378.5	2392.9	2401.1
10°	2364.1	2362.1	2364.1	2368.3	2368.3	2370.3	2366.2	2374.4	2378.5	2390.8	2399.0
12.5°	2431.9	2431.9	2427.8	2427.8	2423.7	2419.6	2409.3	2403.1	2401.1	2403.1	2407.2
15°	2540.6	2536.5	2528.3	2522.2	2514.0	2499.6	2485.2	2472.9	2464.7	2452.4	2448.3
17.5°	2647.4	2641.2	2633.0	2624.8	2614.5	2600.2	2577.6	2563.2	2540.6	2526.3	2518.1
20°	2770.5	2758.2	2747.9	2737.6	2717.1	2713.0	2690.4	2665.8	2639.1	2606.3	2602.2
22.5°	2930.6	2910.0	2897.7	2891.6	2871.0	2864.9	2827.9	2793.1	2760.2	2717.1	2706.9
25°	3092.7	3072.2	3066.0	3057.8	3043.4	3035.2	3000.3	2961.3	2918.2	2858.7	2846.4
27.5°	3250.7	3252.8	3236.3	3242.5	3238.4	3224.0	3189.1	3150.1	3117.3	3047.5	3033.2
30°	3447.7	3435.4	3427.2	3439.5	3425.1	3427.2	3396.4	3375.9	3322.5	3281.5	3252.8
32.5°	3652.9	3650.9	3663.2	3671.4	3669.4	3665.2	3640.6	3620.1	3572.9	3513.4	3501.1
35°	3934.1	3946.4	3956.7	3993.6	3993.6	4020.3	3995.7	3971.0	3915.6	3843.8	3819.2
37.5°	4124.9	4129.0	4170.1	4219.3	4280.9	4338.4	4354.8	4360.9	4338.4	4285.0	4248.1
40°	4299.4	4307.6	4373.3	4449.2	4539.5	4652.4	4720.1	4750.9	4757.0	4732.4	4652.4
42.5°	4473.8	4486.1	4553.9	4664.7	4789.9	4933.5	5052.5	5128.5	5171.6	5171.6	5124.4
45°	4677.0	4693.4	4767.3	4888.4	5034.1	5214.7	5378.8	5524.6	5594.3	5598.4	5553.3
47.5°	4917.1	4931.5	5017.7	5140.8	5290.6	5473.2	5680.5	5846.7	5976.0	5984.2	5947.3
50°	5227.0	5247.5	5319.3	5430.2	5584.1	5768.8	5976.0	6207.9	6343.4	6376.2	6337.2
52.5°	5637.4	5641.5	5701.0	5803.7	5953.5	6130.0	6349.5	6602.0	6780.5	6807.2	6743.6
55°	6203.8	6197.7	6236.7	6347.5	6460.4	6597.9	6825.7	7108.9	7307.9	7349.0	7283.3
57.5°	6973.4	6967.3	7000.1	7026.8	7238.1	7371.5	7595.2	7866.1	8059.0	8178.1	8065.2
60°	8165.7	8159.6	8212.9	8368.9	8526.9	8721.9	8939.4	9263.7	9534.6	9569.5	9458.6
62.5°	9029.7	9060.5	9177.5	9360.1	9680.3	10062.0	10460.1	10887.0	11443.1	11619.6	11566.3
65°	8728.1	8789.6	8951.7	9228.8	9655.7	10183.1	10806.9	11580.6	12325.6	12742.2	12729.9
66°	8457.2	8524.9	8723.9	8990.7	9442.2	10018.9	10700.2	11543.7	12376.9	12836.6	12865.3
67.5°	7964.6	8040.6	8235.5	8551.6	8990.7	9604.3	10337.0	11254.3	12196.3	12731.9	12807.8
70°	7006.2	7092.4	7234.0	7494.7	7927.7	8475.6	9247.3	10068.1	11055.3	11668.9	11761.2
72.5°	5857.0	5932.9	6091.0	6304.4	6659.4	7004.2	7609.6	8215.0	8921.0	9620.8	9553.0
75°	4205.0	4237.8	4332.2	4564.1	4755.0	5064.9	5551.2	6047.9	6530.1	6850.3	6895.4
77.5°	2185.6	2271.8	2405.2	2661.7	2869.0	3148.1	3464.1	3837.6	4190.6	4484.1	4404.0
80°	1430.4	1467.3	1586.4	1717.7	1869.6	2048.1	2259.5	2399.0	2444.2	2425.7	2444.2
82.5°	825.0	892.7	1050.7	1151.3	1264.2	1325.7	1494.0	1654.1	1744.4	1631.5	1590.5
85°	104.7	135.4	426.9	537.7	615.7	708.0	759.3	855.8	798.3	714.2	870.1
87.5°	22.6	20.5	28.7	61.6	63.6	53.4	100.6	106.7	65.7	32.8	41.0
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: P156661

CATALOG NUMBER: TLM-E06-LED-E1-T4-7050

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4
2.5°	2427.8	2429.8	2433.9	2440.1	2444.2	2448.3	2452.4	2458.5	2462.7	2466.8	2475.0
5°	2417.5	2425.7	2433.9	2442.1	2452.4	2468.8	2479.1	2487.3	2495.5	2511.9	2518.1
7.5°	2411.3	2425.7	2438.0	2452.4	2468.8	2483.2	2501.6	2511.9	2524.2	2534.5	2546.8
10°	2407.2	2427.8	2440.1	2460.6	2479.1	2493.4	2514.0	2526.3	2540.6	2553.0	2559.1
12.5°	2415.5	2425.7	2438.0	2458.5	2481.1	2501.6	2524.2	2534.5	2546.8	2557.1	2559.1
15°	2450.3	2450.3	2452.4	2468.8	2491.4	2507.8	2526.3	2536.5	2542.7	2548.8	2548.8
17.5°	2514.0	2499.6	2489.3	2491.4	2505.7	2516.0	2526.3	2526.3	2522.2	2520.1	2516.0
20°	2587.8	2569.4	2548.8	2534.5	2530.4	2522.2	2516.0	2495.5	2479.1	2464.7	2454.4
22.5°	2694.6	2665.8	2637.1	2610.4	2585.8	2555.0	2520.1	2479.1	2440.1	2413.4	2397.0
25°	2825.9	2803.3	2768.4	2727.4	2696.6	2639.1	2594.0	2534.5	2485.2	2450.3	2421.6
27.5°	3012.6	2986.0	2953.1	2916.2	2871.0	2807.4	2752.0	2682.2	2622.7	2571.4	2534.5
30°	3244.5	3209.7	3185.0	3139.9	3109.1	3037.3	2981.9	2895.7	2780.7	2698.7	2647.4
32.5°	3482.6	3443.6	3423.1	3388.2	3353.3	3310.2	3226.1	3092.7	2944.9	2811.5	2723.3
35°	3800.7	3759.7	3722.7	3691.9	3640.6	3560.6	3486.7	3326.6	3123.5	2936.7	2789.0
37.5°	4200.9	4133.2	4040.8	3962.8	3872.5	3757.6	3644.7	3480.5	3248.6	3006.5	2809.5
40°	4627.7	4508.7	4377.4	4231.7	4075.7	3909.5	3780.2	3613.9	3353.3	3066.0	2795.1
42.5°	5073.1	4884.3	4701.6	4496.4	4278.9	4081.8	3913.6	3730.9	3431.3	3082.4	2737.6
45°	5514.3	5302.9	5025.9	4757.0	4482.0	4237.8	4049.0	3843.8	3503.1	3088.6	2661.7
47.5°	5879.6	5662.0	5346.0	5009.4	4683.1	4406.1	4184.5	3962.8	3599.6	3131.7	2643.2
50°	6265.4	6000.7	5649.7	5251.6	4882.2	4572.3	4336.3	4106.5	3735.0	3242.5	2702.8
52.5°	6686.1	6382.4	5971.9	5526.6	5122.3	4775.5	4519.0	4283.0	3907.4	3398.5	2815.6
55°	7199.2	6827.7	6382.4	5879.6	5446.6	5062.8	4779.6	4500.5	4112.6	3583.2	2957.2
57.5°	7983.1	7527.5	7026.8	6454.2	5974.0	5520.4	5181.8	4859.6	4430.7	3858.2	3150.1
60°	9401.2	8914.8	8264.3	7570.6	7006.2	6476.8	5980.1	5580.0	5052.5	4399.9	3577.0
62.5°	11432.9	10786.4	9918.3	8947.6	8208.8	7445.4	6885.2	6290.0	5635.4	4931.5	4079.8
65°	12561.6	11777.6	10616.1	9489.4	8539.2	7710.2	6998.0	6308.5	5582.0	4908.9	4196.8
66°	12701.1	11884.4	10677.7	9491.5	8494.1	7642.4	6893.4	6179.2	5436.3	4794.0	4147.5
67.5°	12643.7	11808.4	10564.8	9312.9	8299.1	7383.9	6610.2	5869.3	5128.5	4529.2	3983.3
70°	11701.7	10909.6	9688.5	8475.6	7513.1	6610.2	5871.4	5142.8	4463.6	3950.5	3548.3
72.5°	9717.2	9040.0	7979.0	7026.8	6271.6	5526.6	4900.7	4205.0	3630.4	3250.7	3012.6
75°	7014.5	6604.0	5637.4	5091.5	4428.7	3934.1	3326.6	2914.1	2501.6	2316.9	2275.9
77.5°	4430.7	3878.7	3265.1	2688.4	2210.2	1832.6	1426.3	1210.8	1009.7	989.2	1194.4
80°	2243.1	2019.4	1555.6	1239.5	1042.5	843.5	667.0	504.8	353.0	424.8	508.9
82.5°	1469.4	1225.2	960.4	790.1	687.5	570.5	443.3	307.8	225.7	254.5	348.9
85°	794.2	677.2	545.9	431.0	348.9	311.9	209.3	147.8	145.7	156.0	199.1
87.5°	57.5	57.5	45.1	41.0	49.3	41.0	36.9	36.9	34.9	36.9	49.3
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: P156661

CATALOG NUMBER: TLM-E06-LED-E1-T4-7050

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4	2452.4
2.5°	2479.1	2485.2	2487.3	2497.5	2503.7	2507.8	2511.9	2511.9	2514.0	2520.1	2522.2
5°	2526.3	2536.5	2548.8	2557.1	2561.2	2573.5	2577.6	2577.6	2581.7	2589.9	2596.0
7.5°	2555.0	2569.4	2581.7	2585.8	2594.0	2598.1	2604.3	2608.4	2608.4	2616.6	2620.7
10°	2565.3	2573.5	2585.8	2585.8	2594.0	2594.0	2600.2	2602.2	2602.2	2610.4	2616.6
12.5°	2565.3	2569.4	2579.6	2579.6	2585.8	2587.8	2596.0	2602.2	2604.3	2614.5	2622.7
15°	2553.0	2557.1	2565.3	2567.3	2581.7	2589.9	2608.4	2620.7	2620.7	2630.9	2635.0
17.5°	2518.1	2528.3	2544.7	2561.2	2587.8	2606.3	2628.9	2639.1	2630.9	2624.8	2618.6
20°	2460.6	2479.1	2518.1	2559.1	2606.3	2630.9	2643.2	2633.0	2604.3	2575.5	2557.1
22.5°	2403.1	2440.1	2505.7	2567.3	2620.7	2637.1	2630.9	2594.0	2546.8	2511.9	2487.3
25°	2429.8	2472.9	2536.5	2591.9	2626.8	2622.7	2598.1	2546.8	2495.5	2450.3	2409.3
27.5°	2540.6	2587.8	2622.7	2641.2	2637.1	2608.4	2569.4	2511.9	2450.3	2390.8	2333.4
30°	2645.3	2669.9	2678.1	2663.8	2630.9	2583.7	2534.5	2468.8	2386.7	2312.8	2247.2
32.5°	2692.5	2667.9	2628.9	2589.9	2536.5	2495.5	2427.8	2355.9	2253.3	2165.1	2099.4
35°	2692.5	2594.0	2495.5	2413.4	2333.4	2282.1	2204.1	2107.6	2013.2	1939.3	1888.0
37.5°	2633.0	2444.2	2282.1	2148.7	2048.1	1992.7	1875.7	1789.5	1709.5	1684.9	1652.0
40°	2524.2	2245.1	2011.2	1836.7	1709.5	1627.4	1510.4	1450.9	1420.1	1407.8	1401.7
42.5°	2378.5	2023.5	1711.5	1496.1	1358.6	1266.2	1188.2	1151.3	1149.2	1147.2	1147.2
45°	2222.5	1785.4	1420.1	1163.6	1042.5	960.4	923.5	909.1	921.4	919.4	921.4
47.5°	2126.1	1604.8	1153.3	880.4	788.0	734.7	716.2	722.4	732.6	728.5	728.5
50°	2113.8	1512.5	974.8	685.4	615.7	589.0	584.9	584.9	591.0	586.9	584.9
52.5°	2158.9	1498.1	882.5	589.0	533.6	511.0	506.9	504.8	502.8	490.5	480.2
55°	2236.9	1530.9	855.8	564.4	506.9	482.3	476.1	472.0	463.8	447.4	428.9
57.5°	2392.9	1633.6	880.4	576.7	515.1	494.6	488.4	488.4	472.0	445.3	418.7
60°	2768.4	1894.2	981.0	623.9	554.1	533.6	537.7	535.6	511.0	472.0	431.0
62.5°	3252.8	2234.9	1112.3	689.5	603.4	599.2	619.8	615.7	574.6	515.1	455.6
65°	3476.4	2394.9	1149.2	703.9	613.6	632.1	673.1	669.0	617.7	535.6	459.7
66°	3480.5	2394.9	1132.8	691.6	599.2	621.8	662.9	660.8	609.5	527.4	451.5
67.5°	3396.4	2329.3	1085.6	667.0	570.5	586.9	623.9	621.8	574.6	506.9	435.1
70°	3080.4	2085.0	964.5	623.9	531.5	523.3	535.6	527.4	496.6	449.4	400.2
72.5°	2639.1	1750.5	841.4	591.0	504.8	472.0	463.8	457.6	433.0	406.3	375.6
75°	2078.9	1385.2	738.8	566.4	480.2	437.1	422.8	414.5	398.1	379.7	355.0
77.5°	1282.6	991.2	644.4	533.6	461.7	418.7	408.4	396.1	371.5	348.9	330.4
80°	572.6	613.6	529.5	465.9	412.5	373.5	357.1	338.6	314.0	299.6	289.4
82.5°	381.7	396.1	383.8	348.9	311.9	281.2	256.5	256.5	252.4	240.1	236.0
85°	244.2	246.3	238.1	215.5	201.1	182.6	172.4	174.4	182.6	180.6	178.5
87.5°	55.4	55.4	65.7	61.6	71.8	75.9	82.1	88.2	100.6	100.6	106.7
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: P156661

CATALOG NUMBER: TLM-E06-LED-E1-T4-7050

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2452.4	2452.4	2452.4	2452.4	2452.4
2.5°	2524.2	2528.3	2532.4	2526.3	2528.3
5°	2596.0	2594.0	2604.3	2598.1	2602.2
7.5°	2618.6	2620.7	2628.9	2628.9	2630.9
10°	2620.7	2624.8	2635.0	2641.2	2645.3
12.5°	2630.9	2639.1	2655.6	2659.7	2659.7
15°	2639.1	2643.2	2653.5	2657.6	2661.7
17.5°	2610.4	2602.2	2606.3	2608.4	2606.3
20°	2538.6	2530.4	2528.3	2520.1	2524.2
22.5°	2460.6	2438.0	2423.7	2407.2	2407.2
25°	2366.2	2331.3	2302.6	2273.8	2280.0
27.5°	2278.0	2232.8	2204.1	2185.6	2181.5
30°	2191.8	2144.6	2117.9	2095.3	2095.3
32.5°	2048.1	2015.3	1980.4	1966.0	1964.0
35°	1849.0	1828.5	1799.8	1793.6	1783.4
37.5°	1625.4	1619.2	1594.6	1592.5	1582.3
40°	1391.4	1395.5	1387.3	1383.2	1377.0
42.5°	1157.4	1178.0	1173.9	1171.8	1167.7
45°	933.8	948.1	950.2	956.3	966.6
47.5°	734.7	738.8	742.9	740.8	742.9
50°	574.6	564.4	562.3	556.1	562.3
52.5°	463.8	447.4	439.2	431.0	426.9
55°	408.4	392.0	383.8	379.7	375.6
57.5°	394.0	377.6	365.3	357.1	355.0
60°	398.1	373.5	357.1	346.8	344.8
62.5°	408.4	375.6	353.0	342.7	340.7
65°	406.3	371.5	350.9	338.6	336.6
66°	400.2	367.3	346.8	336.6	334.5
67.5°	389.9	361.2	342.7	334.5	330.4
70°	371.5	353.0	338.6	328.4	324.2
72.5°	355.0	340.7	328.4	318.1	316.0
75°	336.6	324.2	311.9	303.7	301.7
77.5°	314.0	301.7	293.5	287.3	285.3
80°	277.0	268.8	260.6	252.4	252.4
82.5°	229.8	223.7	215.5	209.3	207.3
85°	176.5	176.5	170.3	164.2	162.1
87.5°	104.7	102.6	102.6	96.5	96.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)