

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: P155621

Luminaire Tested: **TLM-E06-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155621
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
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-T3-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18986.6 lumens
Efficiency: N/A
Efficacy: 126.2 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

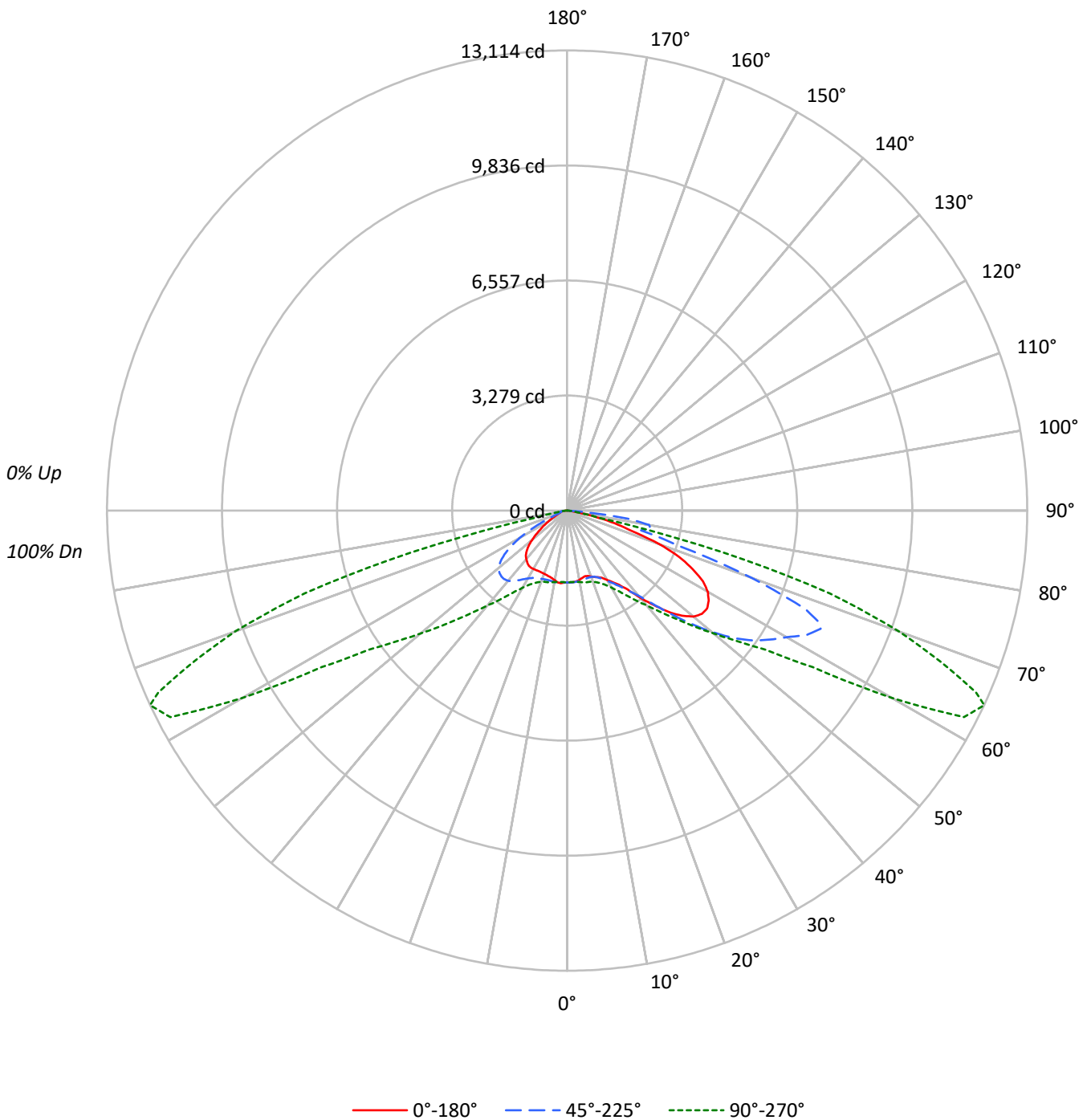
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P155621

CATALOG NUMBER: TLM-E06-LED-E1-T3-7050

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79	77
2	92	82	73	65	89	80	71	64	76	69	63	72	66	61	69	64	60	57
3	81	68	57	49	79	66	56	49	63	55	48	60	53	47	57	51	46	43
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36	33
5	65	49	38	30	63	48	38	30	46	37	29	44	35	29	42	34	29	26
6	59	43	32	24	57	42	32	24	40	31	24	38	30	24	36	29	23	21
7	54	38	28	20	52	37	27	20	35	27	20	34	26	20	32	25	20	17
8	50	34	24	17	48	33	24	17	32	23	17	30	23	17	29	22	17	14
9	46	31	21	15	45	30	21	15	29	20	15	28	20	15	27	20	14	12
10	43	28	19	13	42	27	19	13	26	18	13	25	18	13	24	18	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22024	22024	22024
5°	22108	22085	22440
10°	21915	22588	22049
15°	21589	23578	21726
20°	22920	24754	21932
25°	24861	27152	22619
30°	28338	31577	23900
35°	33978	38725	25133
40°	45504	49570	25433
45°	62167	66009	24898
50°	78663	91138	21892
55°	91390	129748	17408
60°	99581	229469	13209
65°	100513	333998	9984
70°	88095	316343	8331
75°	58207	191436	8534
80°	21243	19464	10048
85°	3545	12931	11152



TEST NUMBER: P155621

CATALOG NUMBER: TLM-E06-LED-E1-T3-7050

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	1.0
10°-20°	578.3	3.0
20°-30°	994.0	5.2
30°-40°	1614.0	8.5
40°-50°	2694.5	14.2
50°-60°	4242.9	22.3
60°-70°	5785.7	30.5
70°-80°	2504.6	13.2
80°-90°	376.6	2.0
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°	1768.3	9.3
0°-40°	3382.3	17.8
0°-60°	10319.7	54.4
0°-90°	18986.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18986.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2046	2046	2046	2046	2046	
5°	2046	2050	2044	2069	2077	194
15°	1937	2017	2116	2054	1950	557
25°	2093	2106	2286	2122	1904	981
35°	2586	2643	2947	2426	1913	1675
45°	4084	4137	4336	2654	1636	3139
55°	4870	6450	6914	2186	928	4295
65°	3946	7973	13114	768	392	3832
75°	1400	2179	4603	207	205	1496
85°	29	484	105	144	90	75
90°	0	0	0	0	0	



TEST NUMBER: P155621

CATALOG NUMBER: TLM-E06-LED-E1-T3-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1
2.5°	2054.3	2062.5	2054.3	2056.3	2058.4	2056.3	2054.3	2054.3	2048.1	2052.2	2056.3
5°	2046.1	2052.2	2050.2	2052.2	2054.3	2052.2	2050.2	2052.2	2048.1	2050.2	2056.3
7.5°	2035.8	2033.7	2035.8	2039.9	2044.0	2044.0	2044.0	2046.1	2044.0	2044.0	2050.2
10°	2005.0	2007.1	2011.2	2017.3	2019.4	2025.5	2025.5	2031.7	2033.7	2037.8	2046.1
12.5°	1966.0	1968.1	1972.2	1976.3	1986.5	1996.8	1996.8	2011.2	2017.3	2027.6	2041.9
15°	1937.3	1939.3	1943.4	1947.5	1955.8	1966.0	1972.2	1988.6	1998.9	2017.3	2037.8
17.5°	1953.7	1951.7	1955.8	1957.8	1957.8	1966.0	1966.0	1978.3	1990.6	2007.1	2033.7
20°	2000.9	2000.9	2005.0	2005.0	2003.0	2007.1	1998.9	1998.9	2000.9	2009.1	2027.6
22.5°	2048.1	2046.1	2054.3	2058.4	2060.4	2066.6	2058.4	2056.3	2046.1	2039.9	2046.1
25°	2093.3	2091.2	2101.5	2107.6	2117.9	2124.0	2124.0	2124.0	2115.8	2105.6	2099.4
27.5°	2163.0	2163.0	2173.3	2179.4	2187.7	2200.0	2206.1	2206.1	2208.2	2193.8	2183.6
30°	2280.0	2282.1	2284.1	2292.3	2300.5	2304.6	2312.8	2319.0	2325.2	2316.9	2300.5
32.5°	2419.6	2407.2	2407.2	2419.6	2429.8	2442.1	2446.2	2454.4	2466.8	2460.6	2458.5
35°	2585.8	2581.7	2577.6	2581.7	2594.0	2608.4	2624.8	2639.1	2630.9	2643.2	2637.1
37.5°	2832.1	2836.2	2838.2	2838.2	2836.2	2840.3	2848.5	2862.8	2858.7	2862.8	2871.0
40°	3238.4	3224.0	3209.7	3211.7	3191.2	3195.3	3162.5	3176.8	3178.9	3164.5	3170.7
42.5°	3644.7	3652.9	3659.1	3675.5	3661.1	3652.9	3622.2	3622.2	3605.7	3591.4	3587.3
45°	4083.9	4100.3	4102.4	4135.2	4122.9	4149.6	4172.1	4166.0	4139.3	4137.3	4108.5
47.5°	4434.8	4461.5	4490.2	4529.2	4560.0	4619.5	4689.3	4724.2	4744.7	4761.1	4728.3
50°	4697.5	4709.8	4783.7	4845.3	4913.0	5011.5	5108.0	5233.1	5333.7	5380.9	5426.0
52.5°	4839.1	4869.9	4949.9	5046.4	5165.4	5313.2	5469.1	5668.2	5840.6	5955.5	6058.1
55°	4869.9	4900.7	4991.0	5114.1	5276.2	5475.3	5699.0	5969.9	6228.5	6450.1	6665.6
57.5°	4783.7	4818.6	4915.0	5056.6	5247.5	5489.7	5770.8	6125.8	6482.9	6842.1	7160.2
60°	4625.7	4668.8	4757.0	4896.6	5108.0	5380.9	5717.5	6162.8	6663.5	7213.5	7823.0
62.5°	4365.1	4410.2	4492.3	4646.2	4863.7	5165.4	5555.3	6109.4	6817.4	7683.5	8765.0
65°	3946.4	3966.9	4067.5	4223.4	4416.4	4748.8	5177.7	5846.7	6768.2	7972.8	9462.7
66°	3757.6	3792.5	3854.1	3979.2	4163.9	4475.9	4906.8	5586.1	6581.4	7872.3	9444.3
67.5°	3462.1	3488.8	3529.8	3613.9	3726.8	3956.7	4365.1	5007.4	6010.9	7363.3	9052.3
70°	2799.2	2811.5	2866.9	2895.7	2934.7	3010.6	3158.4	3527.8	4309.6	5580.0	7305.9
72.5°	1908.6	1943.4	2003.0	2085.0	2191.8	2294.4	2364.1	2411.3	2579.6	3328.7	4867.8
75°	1399.6	1436.5	1512.5	1621.2	1808.0	2021.4	2243.1	2345.7	2275.9	2179.4	2711.0
77.5°	812.7	861.9	925.5	1030.2	1202.6	1485.8	1865.5	2202.0	2429.8	2444.2	2321.1
80°	342.7	348.9	387.9	441.2	547.9	747.0	1042.5	1526.8	2031.7	2372.4	2452.4
82.5°	78.0	96.5	123.1	145.7	178.5	246.3	365.3	607.5	1097.9	1721.8	2245.1
85°	28.7	28.7	39.0	57.5	65.7	73.9	96.5	153.9	262.7	484.3	1009.7
87.5°	0.0	2.1	4.1	4.1	8.2	10.3	16.4	22.6	20.5	18.5	61.6
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: P155621

CATALOG NUMBER: TLM-E06-LED-E1-T3-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1
2.5°	2052.2	2050.2	2046.1	2046.1	2046.1	2046.1	2041.9	2044.0	2039.9	2041.9	2041.9
5°	2050.2	2050.2	2048.1	2044.0	2046.1	2046.1	2048.1	2044.0	2044.0	2046.1	2044.0
7.5°	2050.2	2048.1	2048.1	2048.1	2050.2	2048.1	2050.2	2050.2	2050.2	2052.2	2052.2
10°	2050.2	2050.2	2054.3	2056.3	2056.3	2058.4	2064.5	2064.5	2066.6	2068.6	2072.7
12.5°	2052.2	2060.4	2066.6	2072.7	2074.8	2078.9	2089.2	2089.2	2093.3	2099.4	2101.5
15°	2054.3	2066.6	2078.9	2083.0	2087.1	2095.3	2105.6	2109.7	2115.8	2122.0	2126.1
17.5°	2052.2	2068.6	2083.0	2089.2	2095.3	2105.6	2117.9	2122.0	2130.2	2138.4	2146.6
20°	2050.2	2072.7	2095.3	2103.5	2111.7	2126.1	2142.5	2152.8	2161.0	2173.3	2181.5
22.5°	2062.5	2089.2	2119.9	2132.2	2146.6	2165.1	2187.7	2200.0	2210.2	2222.5	2228.7
25°	2101.5	2122.0	2158.9	2179.4	2197.9	2228.7	2259.5	2273.8	2286.2	2296.4	2298.5
27.5°	2167.1	2173.3	2218.4	2245.1	2271.8	2321.1	2358.0	2368.3	2390.8	2399.0	2397.0
30°	2273.8	2263.6	2300.5	2341.6	2380.6	2448.3	2493.4	2520.1	2540.6	2540.6	2524.2
32.5°	2427.8	2411.3	2421.6	2468.8	2514.0	2612.5	2665.8	2700.7	2715.1	2711.0	2676.1
35°	2628.9	2618.6	2612.5	2649.4	2721.2	2836.2	2905.9	2924.4	2947.0	2942.9	2897.7
37.5°	2866.9	2858.7	2858.7	2901.8	2971.6	3141.9	3217.9	3230.2	3228.1	3195.3	3111.2
40°	3148.1	3144.0	3125.5	3150.1	3209.7	3431.3	3533.9	3550.3	3527.8	3474.4	3375.9
42.5°	3552.4	3527.8	3470.3	3484.7	3529.8	3745.3	3878.7	3923.8	3901.3	3847.9	3687.8
45°	4079.8	4053.1	3956.7	3944.3	3969.0	4157.8	4330.2	4340.4	4336.3	4268.6	4079.8
47.5°	4699.6	4658.5	4555.9	4523.1	4514.9	4689.3	4855.5	4871.9	4861.7	4761.1	4508.7
50°	5370.6	5311.1	5243.4	5220.8	5188.0	5313.2	5481.5	5483.5	5442.5	5302.9	5066.9
52.5°	6086.9	6066.3	6054.0	6031.4	6017.1	6125.8	6228.5	6166.9	6105.3	5959.6	5754.4
55°	6809.2	6893.4	6979.6	6987.8	7012.4	7129.4	7127.3	6959.0	6913.9	6833.9	6630.7
57.5°	7576.8	7888.7	8159.6	8243.7	8325.8	8543.4	8522.8	8356.6	8299.1	8200.6	8032.4
60°	8621.3	9462.7	10244.6	10431.4	10560.7	10821.3	10796.7	10540.2	10659.2	10651.0	10433.4
62.5°	10084.6	11484.2	12656.0	12943.3	13033.6	13062.3	12906.4	12629.3	12746.3	12877.6	12208.6
65°	11075.8	12721.7	13924.3	14145.9	14158.2	13815.5	13468.7	13142.4	13113.6	13000.8	12044.4
66°	11098.4	12783.2	13989.9	14205.4	14129.5	13661.6	13222.4	12894.0	12752.4	12504.1	11512.9
67.5°	10700.2	12399.5	13698.5	13926.3	13760.1	13097.2	12491.8	12069.1	11792.0	11389.8	10515.5
70°	8986.6	10671.5	12272.2	12697.0	12750.4	11761.2	10921.9	10425.2	10051.7	9499.7	8746.5
72.5°	6682.0	8204.7	9616.7	10023.0	10230.3	9440.2	8732.2	8354.6	7843.6	7262.8	6727.1
75°	4188.6	5263.9	6210.0	6495.2	6300.3	5688.7	5263.9	5105.9	4603.1	4256.3	4012.1
77.5°	2394.9	2731.5	2807.4	2698.7	2468.8	1890.1	1344.2	995.3	864.0	956.3	1054.8
80°	2337.5	2142.5	1707.4	1502.2	1360.6	935.8	550.0	377.6	314.0	322.2	348.9
82.5°	2532.4	2717.1	2236.9	1824.4	1530.9	1034.3	570.5	303.7	205.2	242.2	272.9
85°	1645.9	2290.3	2062.5	1738.2	1407.8	884.5	470.0	158.0	104.7	137.5	188.8
87.5°	166.2	182.6	156.0	211.4	158.0	73.9	36.9	22.6	20.5	24.6	36.9
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: P155621

CATALOG NUMBER: TLM-E06-LED-E1-T3-7050

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1	2046.1
2.5°	2044.0	2044.0	2046.1	2048.1	2050.2	2052.2	2052.2	2052.2	2052.2	2056.3	2054.3
5°	2048.1	2052.2	2056.3	2058.4	2062.5	2062.5	2068.6	2066.6	2066.6	2072.7	2074.8
7.5°	2056.3	2062.5	2070.7	2068.6	2076.8	2074.8	2078.9	2078.9	2072.7	2074.8	2070.7
10°	2074.8	2083.0	2087.1	2080.9	2083.0	2074.8	2072.7	2062.5	2050.2	2044.0	2035.8
12.5°	2105.6	2113.8	2113.8	2103.5	2091.2	2072.7	2058.4	2035.8	2017.3	2007.1	1996.8
15°	2132.2	2140.5	2138.4	2122.0	2103.5	2074.8	2054.3	2027.6	2000.9	1984.5	1974.2
17.5°	2152.8	2156.9	2150.7	2128.1	2107.6	2080.9	2060.4	2031.7	2000.9	1980.4	1961.9
20°	2183.6	2179.4	2165.1	2136.4	2113.8	2089.2	2072.7	2048.1	2013.2	1986.5	1959.9
22.5°	2228.7	2212.3	2185.6	2154.8	2132.2	2109.7	2093.3	2066.6	2031.7	1998.9	1968.1
25°	2288.2	2255.4	2218.4	2185.6	2165.1	2140.5	2122.0	2093.3	2056.3	2019.4	1982.4
27.5°	2374.4	2316.9	2269.7	2241.0	2218.4	2187.7	2165.1	2128.1	2089.2	2046.1	2005.0
30°	2470.9	2392.9	2347.7	2325.2	2300.5	2267.7	2232.8	2185.6	2140.5	2093.3	2044.0
32.5°	2596.0	2501.6	2458.5	2436.0	2403.1	2362.1	2321.1	2267.7	2204.1	2142.5	2083.0
35°	2760.2	2663.8	2618.6	2583.7	2538.6	2485.2	2425.7	2353.9	2267.7	2185.6	2109.7
37.5°	2936.7	2832.1	2789.0	2752.0	2684.3	2614.5	2530.4	2425.7	2308.7	2200.0	2105.6
40°	3160.4	3064.0	3008.5	2944.9	2864.9	2743.8	2612.5	2460.6	2310.8	2177.4	2066.6
42.5°	3443.6	3347.2	3265.1	3164.5	3025.0	2838.2	2651.5	2454.4	2273.8	2122.0	2003.0
45°	3819.2	3702.2	3560.6	3384.1	3158.4	2897.7	2653.5	2415.5	2204.1	2035.8	1908.6
47.5°	4278.9	4100.3	3868.4	3570.8	3246.6	2914.1	2620.7	2337.5	2095.3	1912.7	1771.1
50°	4824.7	4543.6	4161.9	3724.8	3291.7	2889.5	2538.6	2220.5	1941.4	1746.4	1578.2
52.5°	5448.6	4988.9	4426.6	3835.6	3289.7	2807.4	2399.0	2044.0	1740.3	1522.7	1362.7
55°	6181.3	5497.9	4699.6	3917.7	3232.2	2655.6	2185.6	1795.7	1492.0	1290.8	1143.1
57.5°	7254.6	6322.9	5175.7	4044.9	3117.3	2421.6	1896.2	1498.1	1231.3	1040.5	915.3
60°	9216.5	7699.9	6033.5	4301.4	2940.8	2078.9	1557.6	1180.0	956.3	802.4	718.3
62.5°	10694.1	8765.0	6497.3	4244.0	2585.8	1656.1	1155.4	859.9	703.9	599.2	545.9
65°	10482.7	8434.6	6002.7	3655.0	2027.6	1167.7	767.5	584.9	484.3	435.1	404.3
66°	10004.5	8003.6	5573.8	3289.7	1752.6	970.7	632.1	490.5	416.6	381.7	361.2
67.5°	9097.5	7203.3	4806.3	2696.6	1346.3	703.9	476.1	387.9	338.6	324.2	309.9
70°	7562.4	5744.1	3373.8	1569.9	687.5	392.0	301.7	270.9	258.6	256.5	252.4
72.5°	5795.4	4065.4	1986.5	742.9	357.1	260.6	234.0	223.7	219.6	219.6	221.6
75°	3552.4	2284.1	878.3	363.2	250.4	219.6	207.3	203.2	201.1	203.2	201.1
77.5°	1186.2	726.5	375.6	275.0	227.8	203.2	195.0	190.9	190.9	190.9	190.9
80°	363.2	316.0	287.3	254.5	215.5	192.9	180.6	178.5	180.6	182.6	176.5
82.5°	272.9	258.6	242.2	225.7	195.0	172.4	168.3	168.3	168.3	162.1	153.9
85°	201.1	199.1	164.2	153.9	143.7	143.7	143.7	143.7	137.5	127.2	119.0
87.5°	36.9	34.9	36.9	39.0	57.5	61.6	61.6	65.7	71.8	67.7	67.7
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: P155621

CATALOG NUMBER: TLM-E06-LED-E1-T3-7050

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2046.1	2046.1	2046.1	2046.1	2046.1
2.5°	2054.3	2052.2	2058.4	2054.3	2056.3
5°	2072.7	2070.7	2074.8	2070.7	2076.8
7.5°	2066.6	2062.5	2060.4	2062.5	2064.5
10°	2023.5	2019.4	2017.3	2015.3	2017.3
12.5°	1986.5	1978.3	1978.3	1974.2	1976.3
15°	1959.9	1953.7	1951.7	1947.5	1949.6
17.5°	1947.5	1937.3	1933.2	1929.1	1929.1
20°	1939.3	1927.0	1920.9	1916.8	1914.7
22.5°	1939.3	1920.9	1912.7	1908.6	1906.5
25°	1947.5	1925.0	1912.7	1906.5	1904.5
27.5°	1964.0	1935.2	1920.9	1912.7	1912.7
30°	1992.7	1955.8	1935.2	1925.0	1922.9
32.5°	2021.4	1972.2	1943.4	1931.1	1927.0
35°	2035.8	1972.2	1937.3	1916.8	1912.7
37.5°	2019.4	1945.5	1902.4	1871.6	1865.5
40°	1968.1	1890.1	1842.9	1814.2	1810.0
42.5°	1900.3	1824.4	1769.0	1748.5	1742.3
45°	1808.0	1717.7	1662.3	1633.6	1635.6
47.5°	1650.0	1557.6	1508.4	1481.7	1485.8
50°	1463.2	1372.9	1329.8	1301.1	1307.3
52.5°	1258.0	1175.9	1134.9	1120.5	1116.4
55°	1042.5	978.9	950.2	933.8	927.6
57.5°	845.5	800.4	779.8	759.3	761.4
60°	667.0	644.4	638.2	615.7	613.6
62.5°	525.4	511.0	504.8	488.4	490.5
65°	398.1	394.0	398.1	387.9	392.0
66°	359.1	361.2	361.2	355.0	359.1
67.5°	309.9	314.0	320.1	314.0	318.1
70°	256.5	260.6	264.7	264.7	264.7
72.5°	223.7	227.8	229.8	229.8	229.8
75°	205.2	207.3	209.3	205.2	205.2
77.5°	192.9	192.9	188.8	186.8	184.7
80°	174.4	172.4	166.2	162.1	162.1
82.5°	145.7	141.6	137.5	131.3	131.3
85°	110.8	106.7	102.6	94.4	90.3
87.5°	57.5	59.5	57.5	47.2	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)