

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: P156658

Luminaire Tested: **TLM-E06-LED-E1-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P156658
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-T4-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15303.5 lumens
Efficiency: N/A
Efficacy: 101.7 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

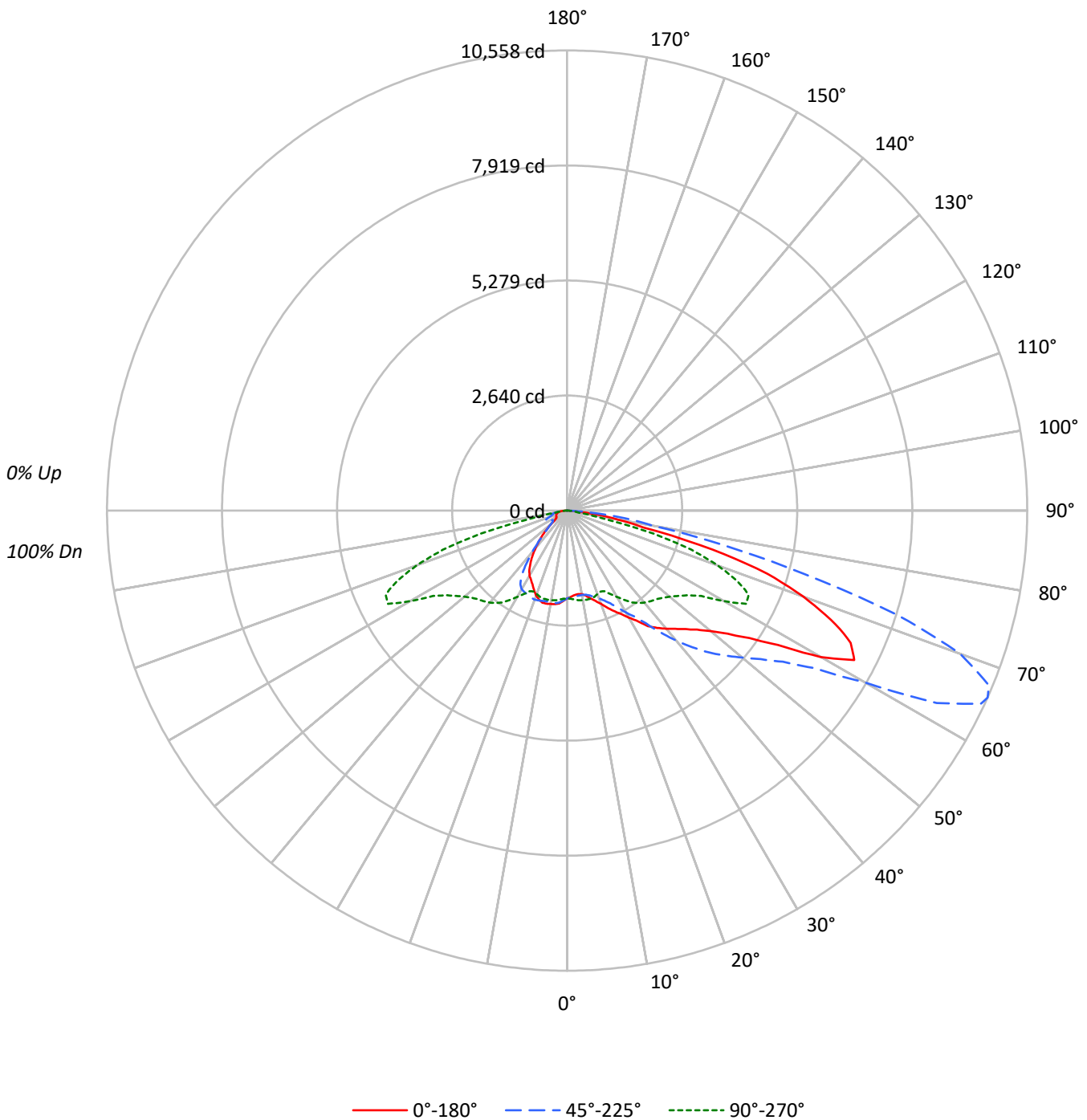
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P156658

CATALOG NUMBER: TLM-E06-LED-E1-T4-8030

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	99	93	88	102	96	91	87	92	88	84	88	84	81	84	81	79	76
2	92	81	72	65	89	79	71	64	76	69	62	72	66	61	69	64	59	57
3	82	68	58	49	79	66	57	49	63	55	48	60	53	47	57	51	46	43
4	73	58	47	39	70	57	46	38	54	45	38	51	43	37	49	42	36	34
5	66	50	39	31	64	49	39	31	47	38	31	45	36	30	42	35	30	27
6	60	44	34	26	58	43	33	26	41	32	25	39	31	25	38	30	25	22
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19
8	51	35	26	19	49	35	25	19	33	25	19	32	24	18	31	23	18	16
9	47	32	23	16	46	31	23	16	30	22	16	29	22	16	28	21	16	14
10	44	29	21	15	43	29	20	15	28	20	14	27	19	14	26	19	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	21712	21712	21712
5°	21011	22178	23127
10°	21254	22840	23781
15°	23287	23306	24397
20°	26103	23357	23782
25°	30212	24277	22272
30°	35246	28428	21420
35°	42521	33759	19276
40°	49690	38756	15914
45°	58559	43862	12102
50°	71995	51444	7745
55°	95761	63481	5797
60°	144592	89465	6105
65°	182846	116939	7050
70°	181364	115545	8393
75°	143842	85573	10318
80°	72928	17995	12868
85°	10634	14796	16475



TEST NUMBER: P156658

CATALOG NUMBER: TLM-E06-LED-E1-T4-8030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	1.3
10°-20°	594.7	3.9
20°-30°	1024.4	6.7
30°-40°	1549.8	10.1
40°-50°	2008.7	13.1
50°-60°	2769.4	18.1
60°-70°	4302.7	28.1
70°-80°	2502.1	16.3
80°-90°	355.8	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°	1814.9	11.9
0°-40°	3364.7	22.0
0°-60°	8142.9	53.2
0°-90°	15303.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15303.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2017	2017	2017	2017	2017	
5°	1945	1973	2053	2120	2140	186
15°	2090	2017	2091	2145	2189	599
25°	2544	2351	2044	2137	1875	1186
35°	3236	3162	2569	1813	1467	2022
45°	3847	4605	2881	760	795	3007
55°	5103	6045	3383	392	309	4726
65°	7179	10481	4591	554	277	6794
75°	3459	5634	2058	348	248	3562
85°	86	587	120	142	133	372
90°	0	0	0	0	0	



TEST NUMBER: P156658

CATALOG NUMBER: TLM-E06-LED-E1-T4-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	1980.0	1986.8	1981.7	1983.4	1983.4	1985.1	1985.1	1986.8	1985.1	1990.1	1993.5
5°	1944.6	1947.9	1946.2	1949.6	1953.0	1959.7	1958.1	1966.5	1968.2	1973.3	1981.7
7.5°	1931.1	1927.7	1929.4	1934.4	1937.8	1941.2	1944.6	1951.3	1956.4	1968.2	1974.9
10°	1944.6	1942.9	1944.6	1947.9	1947.9	1949.6	1946.2	1953.0	1956.4	1966.5	1973.3
12.5°	2000.3	2000.3	1996.9	1996.9	1993.5	1990.1	1981.7	1976.6	1974.9	1976.6	1980.0
15°	2089.7	2086.3	2079.6	2074.5	2067.8	2056.0	2044.1	2034.0	2027.3	2017.1	2013.8
17.5°	2177.5	2172.4	2165.7	2158.9	2150.5	2138.7	2120.1	2108.3	2089.7	2077.9	2071.2
20°	2278.8	2268.6	2260.2	2251.8	2234.9	2231.5	2212.9	2192.7	2170.7	2143.7	2140.4
22.5°	2410.4	2393.6	2383.4	2378.4	2361.5	2356.4	2326.0	2297.3	2270.3	2234.9	2226.4
25°	2543.8	2526.9	2521.8	2515.1	2503.3	2496.5	2467.8	2435.8	2400.3	2351.4	2341.2
27.5°	2673.8	2675.5	2661.9	2667.0	2663.6	2651.8	2623.1	2591.1	2564.0	2506.7	2494.8
30°	2835.8	2825.7	2818.9	2829.1	2817.2	2818.9	2793.6	2776.7	2732.8	2699.1	2675.5
32.5°	3004.6	3002.9	3013.0	3019.8	3018.1	3014.7	2994.5	2977.6	2938.8	2889.8	2879.7
35°	3235.9	3246.0	3254.4	3284.8	3284.8	3306.8	3286.5	3266.2	3220.7	3161.6	3141.3
37.5°	3392.8	3396.2	3430.0	3470.5	3521.1	3568.4	3581.9	3587.0	3568.4	3524.5	3494.1
40°	3536.3	3543.1	3597.1	3659.5	3733.8	3826.7	3882.4	3907.7	3912.7	3892.5	3826.7
42.5°	3679.8	3689.9	3745.6	3836.8	3939.7	4057.9	4155.8	4218.3	4253.7	4253.7	4214.9
45°	3846.9	3860.4	3921.2	4020.8	4140.6	4289.2	4424.2	4544.0	4601.4	4604.8	4567.7
47.5°	4044.4	4056.2	4127.1	4228.4	4351.6	4501.8	4672.3	4809.1	4915.4	4922.2	4891.8
50°	4299.3	4316.2	4375.2	4466.4	4593.0	4744.9	4915.4	5106.1	5217.6	5244.6	5212.5
52.5°	4636.9	4640.3	4689.2	4773.6	4896.8	5042.0	5222.6	5430.2	5577.1	5599.0	5546.7
55°	5102.8	5097.7	5129.8	5220.9	5313.8	5426.9	5614.2	5847.2	6010.9	6044.7	5990.6
57.5°	5735.8	5730.7	5757.7	5779.6	5953.5	6063.2	6247.2	6470.0	6628.7	6726.6	6633.8
60°	6716.5	6711.4	6755.3	6883.6	7013.6	7173.9	7352.8	7619.6	7842.4	7871.1	7779.9
62.5°	7427.1	7452.4	7548.7	7698.9	7962.2	8276.2	8603.6	8954.7	9412.2	9557.4	9513.5
65°	7179.0	7229.6	7363.0	7590.9	7942.0	8375.8	8888.9	9525.3	10138.0	10480.7	10470.6
66°	6956.2	7011.9	7175.6	7395.0	7766.4	8240.7	8801.1	9494.9	10180.2	10558.3	10582.0
67.5°	6551.1	6613.5	6773.9	7033.8	7395.0	7899.8	8502.4	9256.9	10031.7	10472.2	10534.7
70°	5762.8	5833.7	5950.1	6164.5	6520.7	6971.4	7606.0	8281.2	9093.2	9597.9	9673.8
72.5°	4817.5	4880.0	5009.9	5185.5	5477.5	5761.1	6259.0	6757.0	7337.7	7913.3	7857.6
75°	3458.7	3485.7	3563.3	3754.1	3911.1	4165.9	4566.0	4974.5	5371.2	5634.5	5671.6
77.5°	1797.7	1868.6	1978.3	2189.3	2359.8	2589.4	2849.3	3156.5	3446.9	3688.2	3622.4
80°	1176.5	1206.9	1304.8	1412.8	1537.8	1684.6	1858.5	1973.3	2010.4	1995.2	2010.4
82.5°	678.6	734.3	864.2	947.0	1039.8	1090.4	1228.9	1360.5	1434.8	1341.9	1308.2
85°	86.1	111.4	351.1	442.3	506.4	582.4	624.6	703.9	656.6	587.4	715.7
87.5°	18.6	16.9	23.6	50.6	52.3	43.9	82.7	87.8	54.0	27.0	33.8
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: P156658

CATALOG NUMBER: TLM-E06-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	1996.9	1998.6	2001.9	2007.0	2010.4	2013.8	2017.1	2022.2	2025.6	2029.0	2035.7
5°	1988.4	1995.2	2001.9	2008.7	2017.1	2030.6	2039.1	2045.8	2052.6	2066.1	2071.2
7.5°	1983.4	1995.2	2005.3	2017.1	2030.6	2042.5	2057.6	2066.1	2076.2	2084.7	2094.8
10°	1980.0	1996.9	2007.0	2023.9	2039.1	2050.9	2067.8	2077.9	2089.7	2099.8	2104.9
12.5°	1986.8	1995.2	2005.3	2022.2	2040.8	2057.6	2076.2	2084.7	2094.8	2103.2	2104.9
15°	2015.5	2015.5	2017.1	2030.6	2049.2	2062.7	2077.9	2086.3	2091.4	2096.5	2096.5
17.5°	2067.8	2056.0	2047.5	2049.2	2061.0	2069.5	2077.9	2077.9	2074.5	2072.8	2069.5
20°	2128.5	2113.4	2096.5	2084.7	2081.3	2074.5	2069.5	2052.6	2039.1	2027.3	2018.8
22.5°	2216.3	2192.7	2169.1	2147.1	2126.9	2101.5	2072.8	2039.1	2007.0	1985.1	1971.6
25°	2324.4	2305.8	2277.1	2243.3	2218.0	2170.7	2133.6	2084.7	2044.1	2015.5	1991.8
27.5°	2478.0	2456.0	2429.0	2398.6	2361.5	2309.2	2263.6	2206.2	2157.2	2115.0	2084.7
30°	2668.7	2640.0	2619.7	2582.6	2557.3	2498.2	2452.6	2381.7	2287.2	2219.7	2177.5
32.5°	2864.5	2832.4	2815.6	2786.9	2758.2	2722.7	2653.5	2543.8	2422.3	2312.5	2240.0
35°	3126.1	3092.4	3062.0	3036.7	2994.5	2928.6	2867.9	2736.2	2569.1	2415.5	2294.0
37.5°	3455.3	3399.6	3323.6	3259.5	3185.2	3090.7	2997.9	2862.8	2672.1	2472.9	2310.8
40°	3806.4	3708.5	3600.5	3480.6	3352.3	3215.6	3109.3	2972.5	2758.2	2521.8	2299.0
42.5°	4172.7	4017.4	3867.2	3698.4	3519.4	3357.4	3219.0	3068.8	2822.3	2535.3	2251.8
45°	4535.6	4361.7	4133.9	3912.7	3686.6	3485.7	3330.4	3161.6	2881.4	2540.4	2189.3
47.5°	4836.1	4657.1	4397.2	4120.4	3852.0	3624.1	3441.8	3259.5	2960.7	2575.9	2174.1
50°	5153.4	4935.7	4647.0	4319.5	4015.7	3760.8	3566.7	3377.7	3072.1	2667.0	2223.1
52.5°	5499.4	5249.6	4912.0	4545.7	4213.2	3927.9	3716.9	3522.8	3213.9	2795.3	2315.9
55°	5921.4	5615.9	5249.6	4836.1	4479.9	4164.3	3931.3	3701.7	3382.7	2947.2	2432.4
57.5°	6566.2	6191.5	5779.6	5308.7	4913.7	4540.7	4262.2	3997.1	3644.4	3173.4	2591.1
60°	7732.6	7332.6	6797.5	6227.0	5762.8	5327.3	4918.8	4589.6	4155.8	3619.0	2942.2
62.5°	9403.7	8872.0	8158.0	7359.6	6751.9	6124.0	5663.2	5173.7	4635.2	4056.2	3355.7
65°	10332.1	9687.3	8731.9	7805.2	7023.7	6341.7	5756.0	5188.9	4591.3	4037.7	3451.9
66°	10446.9	9775.1	8782.6	7806.9	6986.6	6286.0	5669.9	5082.5	4471.5	3943.1	3411.4
67.5°	10399.7	9712.6	8689.7	7660.1	6826.2	6073.4	5437.0	4827.6	4218.3	3725.4	3276.4
70°	9624.9	8973.3	7969.0	6971.4	6179.7	5437.0	4829.3	4230.1	3671.4	3249.4	2918.5
72.5°	7992.6	7435.6	6562.9	5779.6	5158.5	4545.7	4030.9	3458.7	2986.0	2673.8	2478.0
75°	5769.5	5431.9	4636.9	4187.9	3642.7	3235.9	2736.2	2396.9	2057.6	1905.7	1872.0
77.5°	3644.4	3190.3	2685.6	2211.3	1818.0	1507.4	1173.1	995.9	830.5	813.6	982.4
80°	1845.0	1661.0	1279.5	1019.5	857.5	693.8	548.6	415.2	290.3	349.4	418.6
82.5°	1208.6	1007.7	790.0	649.9	565.5	469.3	364.6	253.2	185.7	209.3	287.0
85°	653.2	557.0	449.0	354.5	287.0	256.6	172.2	121.5	119.8	128.3	163.7
87.5°	47.3	47.3	37.1	33.8	40.5	33.8	30.4	30.4	28.7	30.4	40.5
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: P156658

CATALOG NUMBER: TLM-E06-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2039.1	2044.1	2045.8	2054.3	2059.3	2062.7	2066.1	2066.1	2067.8	2072.8	2074.5
5°	2077.9	2086.3	2096.5	2103.2	2106.6	2116.7	2120.1	2120.1	2123.5	2130.2	2135.3
7.5°	2101.5	2113.4	2123.5	2126.9	2133.6	2137.0	2142.0	2145.4	2145.4	2152.2	2155.6
10°	2110.0	2116.7	2126.9	2126.9	2133.6	2133.6	2138.7	2140.4	2140.4	2147.1	2152.2
12.5°	2110.0	2113.4	2121.8	2121.8	2126.9	2128.5	2135.3	2140.4	2142.0	2150.5	2157.2
15°	2099.8	2103.2	2110.0	2111.7	2123.5	2130.2	2145.4	2155.6	2155.6	2164.0	2167.4
17.5°	2071.2	2079.6	2093.1	2106.6	2128.5	2143.7	2162.3	2170.7	2164.0	2158.9	2153.9
20°	2023.9	2039.1	2071.2	2104.9	2143.7	2164.0	2174.1	2165.7	2142.0	2118.4	2103.2
22.5°	1976.6	2007.0	2061.0	2111.7	2155.6	2169.1	2164.0	2133.6	2094.8	2066.1	2045.8
25°	1998.6	2034.0	2086.3	2131.9	2160.6	2157.2	2137.0	2094.8	2052.6	2015.5	1981.7
27.5°	2089.7	2128.5	2157.2	2172.4	2169.1	2145.4	2113.4	2066.1	2015.5	1966.5	1919.2
30°	2175.8	2196.1	2202.8	2191.0	2164.0	2125.2	2084.7	2030.6	1963.1	1902.4	1848.3
32.5°	2214.6	2194.4	2162.3	2130.2	2086.3	2052.6	1996.9	1937.8	1853.4	1780.8	1726.8
35°	2214.6	2133.6	2052.6	1985.1	1919.2	1877.0	1812.9	1733.6	1655.9	1595.1	1552.9
37.5°	2165.7	2010.4	1877.0	1767.3	1684.6	1639.0	1542.8	1471.9	1406.1	1385.8	1358.8
40°	2076.2	1846.7	1654.2	1510.7	1406.1	1338.6	1242.4	1193.4	1168.1	1158.0	1152.9
42.5°	1956.4	1664.4	1407.8	1230.5	1117.4	1041.5	977.3	947.0	945.3	943.6	943.6
45°	1828.1	1468.5	1168.1	957.1	857.5	790.0	759.6	747.8	757.9	756.2	757.9
47.5°	1748.7	1320.0	948.6	724.1	648.2	604.3	589.1	594.2	602.6	599.2	599.2
50°	1738.6	1244.0	801.8	563.8	506.4	484.5	481.1	481.1	486.1	482.8	481.1
52.5°	1775.8	1232.2	725.8	484.5	438.9	420.3	416.9	415.2	413.6	403.4	395.0
55°	1839.9	1259.2	703.9	464.2	416.9	396.7	391.6	388.2	381.5	368.0	352.8
57.5°	1968.2	1343.6	724.1	474.3	423.7	406.8	401.7	401.7	388.2	366.3	344.3
60°	2277.1	1558.0	806.9	513.1	455.8	438.9	442.3	440.6	420.3	388.2	354.5
62.5°	2675.5	1838.2	914.9	567.2	496.3	492.9	509.8	506.4	472.6	423.7	374.7
65°	2859.4	1969.9	945.3	579.0	504.7	519.9	553.7	550.3	508.1	440.6	378.1
66°	2862.8	1969.9	931.8	568.8	492.9	511.5	545.2	543.5	501.3	433.8	371.4
67.5°	2793.6	1915.9	892.9	548.6	469.3	482.8	513.1	511.5	472.6	416.9	357.9
70°	2533.7	1715.0	793.4	513.1	437.2	430.4	440.6	433.8	408.5	369.7	329.2
72.5°	2170.7	1439.8	692.1	486.1	415.2	388.2	381.5	376.4	356.2	334.2	308.9
75°	1709.9	1139.4	607.7	465.9	395.0	359.5	347.7	341.0	327.5	312.3	292.0
77.5°	1055.0	815.3	530.0	438.9	379.8	344.3	335.9	325.8	305.5	287.0	271.8
80°	470.9	504.7	435.5	383.2	339.3	307.2	293.7	278.5	258.3	246.4	238.0
82.5°	314.0	325.8	315.7	287.0	256.6	231.3	211.0	211.0	207.6	197.5	194.1
85°	200.9	202.6	195.8	177.2	165.4	150.2	141.8	143.5	150.2	148.5	146.9
87.5°	45.6	45.6	54.0	50.6	59.1	62.5	67.5	72.6	82.7	82.7	87.8
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: P156658

CATALOG NUMBER: TLM-E06-LED-E1-T4-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2017.1	2017.1	2017.1	2017.1	2017.1
2.5°	2076.2	2079.6	2083.0	2077.9	2079.6
5°	2135.3	2133.6	2142.0	2137.0	2140.4
7.5°	2153.9	2155.6	2162.3	2162.3	2164.0
10°	2155.6	2158.9	2167.4	2172.4	2175.8
12.5°	2164.0	2170.7	2184.2	2187.6	2187.6
15°	2170.7	2174.1	2182.6	2185.9	2189.3
17.5°	2147.1	2140.4	2143.7	2145.4	2143.7
20°	2088.0	2081.3	2079.6	2072.8	2076.2
22.5°	2023.9	2005.3	1993.5	1980.0	1980.0
25°	1946.2	1917.5	1893.9	1870.3	1875.3
27.5°	1873.7	1836.5	1812.9	1797.7	1794.3
30°	1802.8	1763.9	1742.0	1723.4	1723.4
32.5°	1684.6	1657.6	1628.9	1617.1	1615.4
35°	1520.9	1504.0	1480.4	1475.3	1466.9
37.5°	1336.9	1331.8	1311.6	1309.9	1301.4
40°	1144.5	1147.8	1141.1	1137.7	1132.6
42.5°	952.0	968.9	965.5	963.8	960.5
45°	768.0	779.8	781.5	786.6	795.0
47.5°	604.3	607.7	611.0	609.4	611.0
50°	472.6	464.2	462.5	457.4	462.5
52.5°	381.5	368.0	361.2	354.5	351.1
55°	335.9	322.4	315.7	312.3	308.9
57.5°	324.1	310.6	300.5	293.7	292.0
60°	327.5	307.2	293.7	285.3	283.6
62.5°	335.9	308.9	290.3	281.9	280.2
65°	334.2	305.5	288.6	278.5	276.8
66°	329.2	302.1	285.3	276.8	275.1
67.5°	320.7	297.1	281.9	275.1	271.8
70°	305.5	290.3	278.5	270.1	266.7
72.5°	292.0	280.2	270.1	261.6	259.9
75°	276.8	266.7	256.6	249.8	248.1
77.5°	258.3	248.1	241.4	236.3	234.6
80°	227.9	221.1	214.4	207.6	207.6
82.5°	189.1	184.0	177.2	172.2	170.5
85°	145.2	145.2	140.1	135.0	133.4
87.5°	86.1	84.4	84.4	79.3	79.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)