

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: P156665

Luminaire Tested: **TLM-F06-LED-E1-T4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P156665
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-F06-LED-E1-T4
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

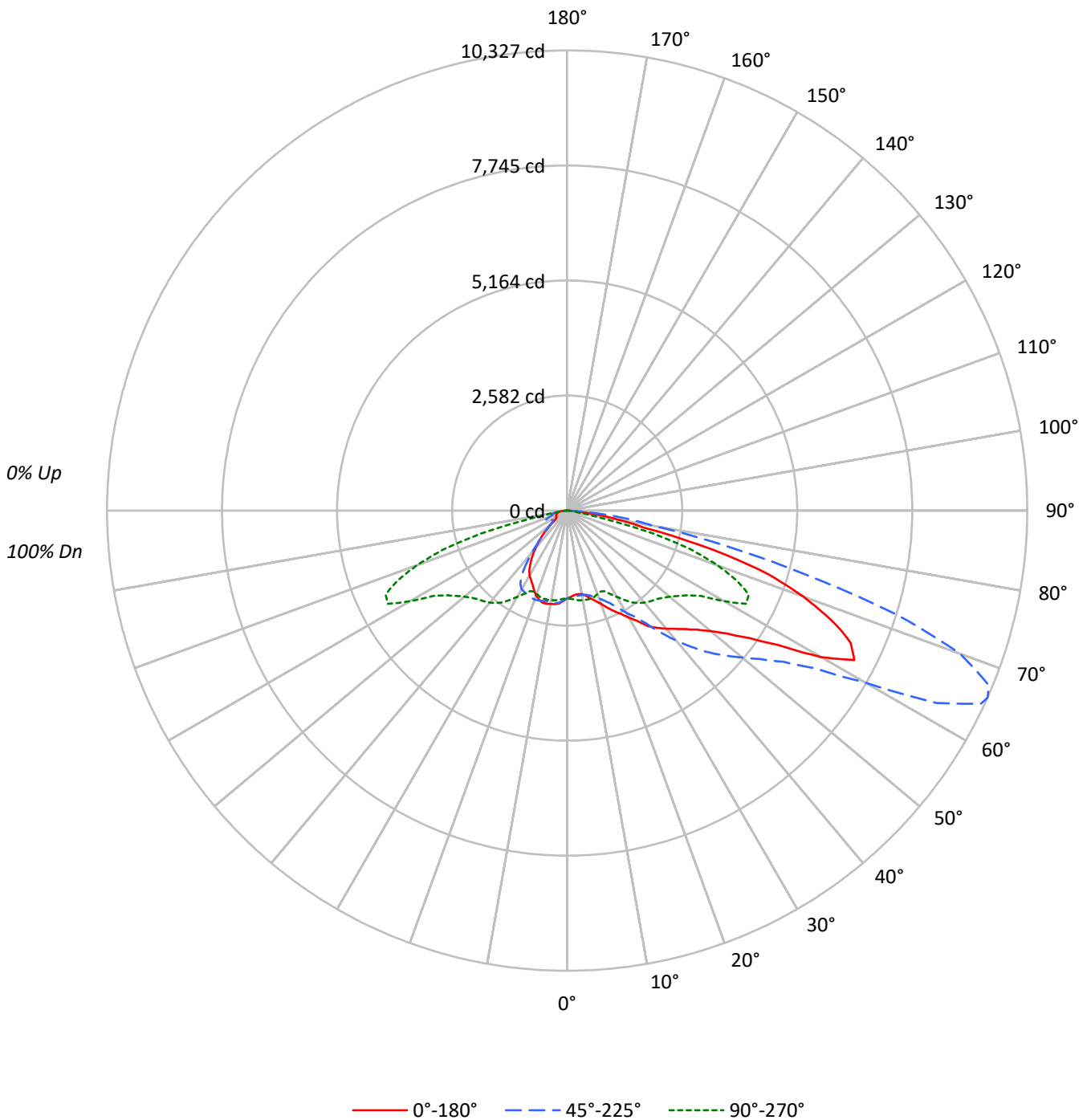
Lumens per Lamp: N/A
Luminaire Lumens: 14968.6 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.73 / 2.02 / 2.64
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	21237	21237	21237
5°	20551	21693	22620
10°	20789	22341	23261
15°	22778	22797	23863
20°	25531	22846	23262
25°	29550	23746	21785
30°	34476	27806	20952
35°	41590	33020	18854
40°	48602	37908	15567
45°	57278	42902	11837
50°	70419	50319	7576
55°	93665	62092	5669
60°	141427	87508	5972
65°	178845	114381	6897
70°	177396	113014	8211
75°	140694	83701	10094
80°	71335	17604	12590
85°	10399	14474	16105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	1.3
10°-20°	581.7	3.9
20°-30°	1001.9	6.7
30°-40°	1515.9	10.1
40°-50°	1964.8	13.1
50°-60°	2708.8	18.1
60°-70°	4208.6	28.1
70°-80°	2447.3	16.3
80°-90°	348.0	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°	1775.2	11.9
0°-40°	3291.1	22.0
0°-60°	7964.7	53.2
0°-90°	14968.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14968.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1973	1973	1973	1973	1973	
5°	1902	1930	2008	2074	2094	182
15°	2044	1973	2046	2098	2141	586
25°	2488	2300	1999	2090	1834	1160
35°	3165	3092	2513	1773	1435	1978
45°	3763	4504	2818	743	778	2941
55°	4991	5912	3309	383	302	4623
65°	7022	10251	4491	542	271	6646
75°	3383	5511	2013	340	243	3484
85°	84	575	117	139	130	364
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°	
0°	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0
2.5°	1936.7	1943.3	1938.3	1940.0	1940.0	1941.6	1941.6	1943.3	1941.6	1946.6	1949.9	1949.9
5°	1902.0	1905.3	1903.7	1907.0	1910.3	1916.9	1915.2	1923.5	1925.1	1930.1	1938.3	1938.3
7.5°	1888.8	1885.5	1887.1	1892.1	1895.4	1898.7	1902.0	1908.6	1913.6	1925.1	1931.7	1931.7
10°	1902.0	1900.4	1902.0	1905.3	1905.3	1907.0	1903.7	1910.3	1913.6	1923.5	1930.1	1930.1
12.5°	1956.5	1956.5	1953.2	1953.2	1949.9	1946.6	1938.3	1933.4	1931.7	1933.4	1936.7	1936.7
15°	2044.0	2040.7	2034.1	2029.1	2022.5	2011.0	1999.4	1989.5	1982.9	1973.0	1969.7	1969.7
17.5°	2129.9	2124.9	2118.3	2111.7	2103.4	2091.9	2073.7	2062.2	2044.0	2032.4	2025.8	2025.8
20°	2228.9	2219.0	2210.8	2202.5	2186.0	2182.7	2164.5	2144.7	2123.3	2096.8	2093.5	2093.5
22.5°	2357.7	2341.2	2331.3	2326.3	2309.8	2304.9	2275.1	2247.1	2220.7	2186.0	2177.7	2177.7
25°	2488.1	2471.6	2466.7	2460.1	2448.5	2441.9	2413.8	2382.5	2347.8	2299.9	2290.0	2290.0
27.5°	2615.3	2616.9	2603.7	2608.7	2605.4	2593.8	2565.7	2534.4	2507.9	2451.8	2440.3	2440.3
30°	2773.8	2763.9	2757.3	2767.2	2755.6	2757.3	2732.5	2716.0	2673.0	2640.0	2616.9	2616.9
32.5°	2938.9	2937.2	2947.1	2953.7	2952.1	2948.8	2929.0	2912.5	2874.5	2826.6	2816.7	2816.7
35°	3165.1	3175.0	3183.2	3212.9	3212.9	3234.4	3214.6	3194.8	3150.2	3092.4	3072.6	3072.6
37.5°	3318.6	3321.9	3354.9	3394.6	3444.1	3490.3	3503.5	3508.5	3490.3	3447.4	3417.7	3417.7
40°	3458.9	3465.6	3518.4	3579.5	3652.1	3742.9	3797.4	3822.2	3827.1	3807.3	3742.9	3742.9
42.5°	3599.3	3609.2	3663.7	3752.8	3853.6	3969.1	4064.9	4126.0	4160.6	4160.6	4122.7	4122.7
45°	3762.7	3776.0	3835.4	3932.8	4050.0	4195.3	4327.4	4444.6	4500.8	4504.1	4467.7	4467.7
47.5°	3955.9	3967.5	4036.8	4135.9	4256.4	4403.3	4570.1	4703.8	4807.9	4814.5	4784.7	4784.7
50°	4205.2	4221.7	4279.5	4368.7	4492.5	4641.1	4807.9	4994.4	5103.4	5129.8	5098.4	5098.4
52.5°	4535.4	4538.7	4586.6	4669.2	4789.7	4931.7	5108.3	5311.4	5455.1	5476.5	5425.3	5425.3
55°	4991.1	4986.2	5017.5	5106.7	5197.5	5308.1	5491.4	5719.2	5879.4	5912.4	5859.6	5859.6
57.5°	5610.3	5605.3	5631.7	5653.2	5823.3	5930.6	6110.5	6328.5	6483.7	6579.4	6488.6	6488.6
60°	6569.5	6564.6	6607.5	6733.0	6860.1	7017.0	7192.0	7452.8	7670.8	7698.8	7609.7	7609.7
62.5°	7264.6	7289.4	7383.5	7530.4	7788.0	8095.1	8415.4	8758.8	9206.3	9348.2	9305.3	9305.3
65°	7021.9	7071.4	7201.9	7424.8	7768.2	8192.5	8694.4	9316.9	9916.2	10251.4	10241.5	10241.5
66°	6804.0	6858.5	7018.6	7233.2	7596.5	8060.4	8608.6	9287.2	9957.5	10327.3	10350.4	10350.4
67.5°	6407.7	6468.8	6625.7	6879.9	7233.2	7726.9	8316.3	9054.4	9812.2	10243.1	10304.2	10304.2
70°	5636.7	5706.0	5820.0	6029.6	6378.0	6818.8	7439.6	8100.1	8894.2	9387.9	9462.2	9462.2
72.5°	4712.1	4773.2	4900.3	5072.0	5357.7	5635.0	6122.1	6609.2	7177.1	7740.1	7685.6	7685.6
75°	3383.0	3409.4	3485.4	3671.9	3825.5	4074.8	4466.1	4865.6	5253.6	5511.2	5547.5	5547.5
77.5°	1758.4	1827.7	1935.0	2141.4	2308.2	2532.7	2787.0	3087.5	3371.4	3607.5	3543.2	3543.2
80°	1150.8	1180.5	1276.3	1381.9	1504.1	1647.7	1817.8	1930.1	1966.4	1951.5	1966.4	1966.4
82.5°	663.7	718.2	845.3	926.2	1017.0	1066.6	1202.0	1330.7	1403.4	1312.6	1279.6	1279.6
85°	84.2	109.0	343.4	432.6	495.3	569.6	610.9	688.5	642.3	574.6	700.0	700.0
87.5°	18.2	16.5	23.1	49.5	51.2	42.9	80.9	85.9	52.8	26.4	33.0	33.0
90°	0.0	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0
2.5°	1953.2	1954.8	1958.1	1963.1	1966.4	1969.7	1973.0	1978.0	1981.3	1984.6	1991.2
5°	1944.9	1951.5	1958.1	1964.7	1973.0	1986.2	1994.5	2001.1	2007.7	2020.9	2025.8
7.5°	1940.0	1951.5	1961.4	1973.0	1986.2	1997.8	2012.6	2020.9	2030.8	2039.0	2049.0
10°	1936.7	1953.2	1963.1	1979.6	1994.5	2006.0	2022.5	2032.4	2044.0	2053.9	2058.9
12.5°	1943.3	1951.5	1961.4	1978.0	1996.1	2012.6	2030.8	2039.0	2049.0	2057.2	2058.9
15°	1971.4	1971.4	1973.0	1986.2	2004.4	2017.6	2032.4	2040.7	2045.7	2050.6	2050.6
17.5°	2022.5	2011.0	2002.7	2004.4	2015.9	2024.2	2032.4	2032.4	2029.1	2027.5	2024.2
20°	2082.0	2067.1	2050.6	2039.0	2035.7	2029.1	2024.2	2007.7	1994.5	1982.9	1974.7
22.5°	2167.8	2144.7	2121.6	2100.1	2080.3	2055.6	2027.5	1994.5	1963.1	1941.6	1928.4
25°	2273.5	2255.3	2227.3	2194.2	2169.5	2123.3	2086.9	2039.0	1999.4	1971.4	1948.2
27.5°	2423.7	2402.3	2375.9	2346.1	2309.8	2258.6	2214.1	2157.9	2110.0	2068.8	2039.0
30°	2610.3	2582.2	2562.4	2526.1	2501.3	2443.6	2399.0	2329.6	2237.2	2171.1	2129.9
32.5°	2801.8	2770.5	2754.0	2725.9	2697.8	2663.1	2595.5	2488.1	2369.3	2261.9	2190.9
35°	3057.7	3024.7	2995.0	2970.2	2929.0	2864.6	2805.1	2676.4	2512.9	2362.7	2243.8
37.5°	3379.7	3325.2	3250.9	3188.2	3115.5	3023.1	2932.3	2800.2	2613.6	2418.8	2260.3
40°	3723.1	3627.4	3521.7	3404.5	3279.0	3145.2	3041.2	2907.5	2697.8	2466.7	2248.7
42.5°	4081.4	3929.5	3782.6	3617.5	3442.4	3283.9	3148.6	3001.6	2760.6	2479.9	2202.5
45°	4436.4	4266.3	4043.4	3827.1	3605.9	3409.4	3257.5	3092.4	2818.3	2484.8	2141.4
47.5°	4730.3	4555.2	4301.0	4030.2	3767.7	3544.8	3366.5	3188.2	2895.9	2519.5	2126.6
50°	5040.7	4827.7	4545.3	4225.0	3927.8	3678.5	3488.7	3303.8	3004.9	2608.7	2174.4
52.5°	5379.1	5134.8	4804.6	4446.3	4121.0	3842.0	3635.6	3445.7	3143.6	2734.1	2265.2
55°	5791.9	5493.0	5134.8	4730.3	4381.9	4073.1	3845.3	3620.8	3308.7	2882.7	2379.2
57.5°	6422.6	6056.1	5653.2	5192.6	4806.2	4441.3	4168.9	3909.7	3564.6	3104.0	2534.4
60°	7563.5	7172.2	6648.8	6090.7	5636.7	5210.7	4811.2	4489.2	4064.9	3539.9	2877.8
62.5°	9198.0	8677.9	7979.5	7198.6	6604.2	5990.0	5539.3	5060.5	4533.8	3967.5	3282.3
65°	10106.1	9475.4	8540.9	7634.5	6870.0	6203.0	5630.1	5075.3	4490.9	3949.3	3376.4
66°	10218.3	9561.2	8590.4	7636.1	6833.7	6148.5	5545.9	4971.3	4373.6	3856.9	3336.8
67.5°	10172.1	9500.1	8499.6	7492.5	6676.8	5940.5	5318.0	4722.0	4126.0	3643.9	3204.7
70°	9414.3	8777.0	7794.6	6818.8	6044.5	5318.0	4723.7	4137.5	3591.0	3178.3	2854.7
72.5°	7817.7	7272.9	6419.3	5653.2	5045.6	4446.3	3942.7	3383.0	2920.7	2615.3	2423.7
75°	5643.3	5313.1	4535.4	4096.3	3563.0	3165.1	2676.4	2344.5	2012.6	1864.0	1831.0
77.5°	3564.6	3120.5	2626.8	2162.9	1778.2	1474.4	1147.5	974.1	812.3	795.8	960.9
80°	1804.6	1624.6	1251.5	997.2	838.7	678.6	536.6	406.2	284.0	341.8	409.5
82.5°	1182.2	985.7	772.7	635.7	553.1	459.0	356.6	247.7	181.6	204.7	280.7
85°	639.0	544.8	439.2	346.7	280.7	251.0	168.4	118.9	117.2	125.5	160.2
87.5°	46.2	46.2	36.3	33.0	39.6	33.0	29.7	29.7	28.1	29.7	39.6
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0	1973.0
2.5°	1994.5	1999.4	2001.1	2009.3	2014.3	2017.6	2020.9	2020.9	2022.5	2027.5	2029.1
5°	2032.4	2040.7	2050.6	2057.2	2060.5	2070.4	2073.7	2073.7	2077.0	2083.6	2088.6
7.5°	2055.6	2067.1	2077.0	2080.3	2086.9	2090.2	2095.2	2098.5	2098.5	2105.1	2108.4
10°	2063.8	2070.4	2080.3	2080.3	2086.9	2086.9	2091.9	2093.5	2093.5	2100.1	2105.1
12.5°	2063.8	2067.1	2075.4	2075.4	2080.3	2082.0	2088.6	2093.5	2095.2	2103.4	2110.0
15°	2053.9	2057.2	2063.8	2065.5	2077.0	2083.6	2098.5	2108.4	2108.4	2116.6	2119.9
17.5°	2025.8	2034.1	2047.3	2060.5	2082.0	2096.8	2115.0	2123.3	2116.6	2111.7	2106.7
20°	1979.6	1994.5	2025.8	2058.9	2096.8	2116.6	2126.6	2118.3	2095.2	2072.1	2057.2
22.5°	1933.4	1963.1	2015.9	2065.5	2108.4	2121.6	2116.6	2086.9	2049.0	2020.9	2001.1
25°	1954.8	1989.5	2040.7	2085.3	2113.3	2110.0	2090.2	2049.0	2007.7	1971.4	1938.3
27.5°	2044.0	2082.0	2110.0	2124.9	2121.6	2098.5	2067.1	2020.9	1971.4	1923.5	1877.2
30°	2128.2	2148.0	2154.6	2143.1	2116.6	2078.7	2039.0	1986.2	1920.2	1860.7	1807.9
32.5°	2166.2	2146.4	2115.0	2083.6	2040.7	2007.7	1953.2	1895.4	1812.9	1741.9	1689.0
35°	2166.2	2086.9	2007.7	1941.6	1877.2	1836.0	1773.2	1695.6	1619.7	1560.2	1519.0
37.5°	2118.3	1966.4	1836.0	1728.6	1647.7	1603.2	1509.1	1439.7	1375.3	1355.5	1329.1
40°	2030.8	1806.2	1618.0	1477.7	1375.3	1309.3	1215.2	1167.3	1142.5	1132.6	1127.7
42.5°	1913.6	1627.9	1377.0	1203.6	1093.0	1018.7	956.0	926.2	924.6	922.9	922.9
45°	1788.1	1436.4	1142.5	936.1	838.7	772.7	743.0	731.4	741.3	739.7	741.3
47.5°	1710.5	1291.1	927.9	708.3	634.0	591.1	576.2	581.2	589.4	586.1	586.1
50°	1700.6	1216.8	784.2	551.5	495.3	473.9	470.5	470.5	475.5	472.2	470.5
52.5°	1736.9	1205.3	710.0	473.9	429.3	411.1	407.8	406.2	404.5	394.6	386.3
55°	1799.6	1231.7	688.5	454.0	407.8	388.0	383.0	379.7	373.1	359.9	345.1
57.5°	1925.1	1314.2	708.3	463.9	414.4	397.9	392.9	392.9	379.7	358.3	336.8
60°	2227.3	1523.9	789.2	501.9	445.8	429.3	432.6	430.9	411.1	379.7	346.7
62.5°	2616.9	1798.0	894.9	554.8	485.4	482.1	498.6	495.3	462.3	414.4	366.5
65°	2796.9	1926.8	924.6	566.3	493.7	508.5	541.5	538.2	497.0	430.9	369.8
66°	2800.2	1926.8	911.4	556.4	482.1	500.3	533.3	531.6	490.4	424.3	363.2
67.5°	2732.5	1873.9	873.4	536.6	459.0	472.2	501.9	500.3	462.3	407.8	350.0
70°	2478.2	1677.5	776.0	501.9	427.6	421.0	430.9	424.3	399.6	361.6	322.0
72.5°	2123.3	1408.3	676.9	475.5	406.2	379.7	373.1	368.2	348.4	326.9	302.1
75°	1672.5	1114.5	594.4	455.7	386.3	351.7	340.1	333.5	320.3	305.4	285.6
77.5°	1031.9	797.5	518.4	429.3	371.5	336.8	328.6	318.7	298.8	280.7	265.8
80°	460.6	493.7	426.0	374.8	331.9	300.5	287.3	272.4	252.6	241.1	232.8
82.5°	307.1	318.7	308.7	280.7	251.0	226.2	206.4	206.4	203.1	193.2	189.9
85°	196.5	198.1	191.5	173.4	161.8	146.9	138.7	140.3	146.9	145.3	143.6
87.5°	44.6	44.6	52.8	49.5	57.8	61.1	66.0	71.0	80.9	80.9	85.9
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: P156665

CATALOG NUMBER: TLM-F06-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1973.0	1973.0	1973.0	1973.0	1973.0
2.5°	2030.8	2034.1	2037.4	2032.4	2034.1
5°	2088.6	2086.9	2095.2	2090.2	2093.5
7.5°	2106.7	2108.4	2115.0	2115.0	2116.6
10°	2108.4	2111.7	2119.9	2124.9	2128.2
12.5°	2116.6	2123.3	2136.5	2139.8	2139.8
15°	2123.3	2126.6	2134.8	2138.1	2141.4
17.5°	2100.1	2093.5	2096.8	2098.5	2096.8
20°	2042.3	2035.7	2034.1	2027.5	2030.8
22.5°	1979.6	1961.4	1949.9	1936.7	1936.7
25°	1903.7	1875.6	1852.5	1829.4	1834.3
27.5°	1832.7	1796.3	1773.2	1758.4	1755.1
30°	1763.3	1725.3	1703.9	1685.7	1685.7
32.5°	1647.7	1621.3	1593.3	1581.7	1580.1
35°	1487.6	1471.1	1448.0	1443.0	1434.8
37.5°	1307.6	1302.7	1282.9	1281.2	1273.0
40°	1119.4	1122.7	1116.1	1112.8	1107.9
42.5°	931.2	947.7	944.4	942.7	939.4
45°	751.2	762.8	764.4	769.4	777.6
47.5°	591.1	594.4	597.7	596.0	597.7
50°	462.3	454.0	452.4	447.4	452.4
52.5°	373.1	359.9	353.3	346.7	343.4
55°	328.6	315.4	308.7	305.4	302.1
57.5°	317.0	303.8	293.9	287.3	285.6
60°	320.3	300.5	287.3	279.0	277.4
62.5°	328.6	302.1	284.0	275.7	274.1
65°	326.9	298.8	282.3	272.4	270.8
66°	322.0	295.5	279.0	270.8	269.1
67.5°	313.7	290.6	275.7	269.1	265.8
70°	298.8	284.0	272.4	264.2	260.9
72.5°	285.6	274.1	264.2	255.9	254.3
75°	270.8	260.9	251.0	244.4	242.7
77.5°	252.6	242.7	236.1	231.1	229.5
80°	222.9	216.3	209.7	203.1	203.1
82.5°	184.9	180.0	173.4	168.4	166.8
85°	142.0	142.0	137.0	132.1	130.4
87.5°	84.2	82.6	82.6	77.6	77.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)