

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: P152976

Luminaire Tested: **TLM-F06-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152976
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)
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-SLL-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

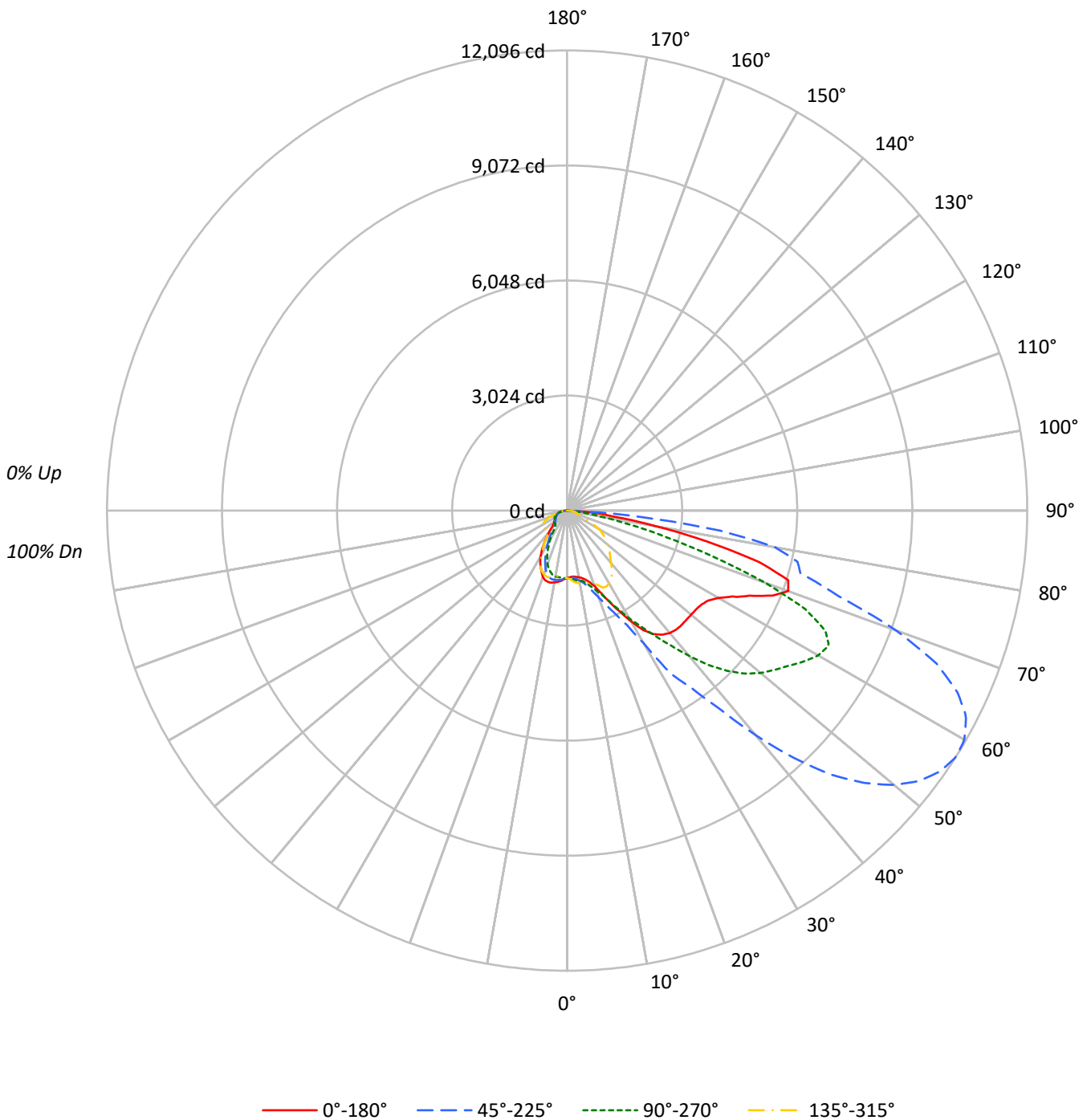
Lumens per Lamp: N/A
Luminaire Lumens: 14141.7 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

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	97	91	87	92	88	84	88	85	81	84	82	79	77
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19130	19130	19130	19130
5°	18800	19623	20044	19129
10°	19443	20406	20943	19202
15°	20975	22051	21654	18690
20°	24238	25597	21347	17232
25°	31731	31348	19477	14548
30°	41819	40682	17372	11266
35°	52092	52649	13913	7703
40°	59037	70011	10189	6736
45°	64731	90674	7660	7066
50°	71265	111153	7320	7234
55°	80785	133372	7471	7407
60°	98802	164012	8133	8133
65°	134755	190849	8586	8458
70°	194611	173707	9064	8957
75°	217080	112451	10006	9441
80°	148384	54610	11449	10184
85°	96245	26578	13808	12548



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.0	1.2
10°-20°	538.8	3.8
20°-30°	957.2	6.8
30°-40°	1507.3	10.7
40°-50°	2218.3	15.7
50°-60°	2946.5	20.8
60°-70°	3245.6	23.0
70°-80°	2036.3	14.4
80°-90°	518.6	3.7
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°	1669.0	11.8
0°-40°	3176.3	22.5
0°-60°	8341.1	59.0
0°-90°	14141.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14141.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1777	1777	1777	1777	1777	
5°	1740	1816	1855	1770	1740	168
15°	1882	1979	1943	1677	1882	545
25°	2672	2640	1640	1225	2672	1261
35°	3964	4007	1059	586	3964	2456
45°	4252	5957	503	464	4252	3288
55°	4305	7107	398	395	4305	3905
65°	5291	7493	337	332	5291	5327
75°	5220	2704	241	227	5220	5104
85°	779	215	112	102	779	901
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°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1753.4	1756.8	1756.8	1755.1	1755.1	1758.5	1756.8	1755.1	1750.1	1756.8	1756.8
5°	1739.9	1743.3	1743.3	1746.7	1750.1	1753.4	1753.4	1756.8	1755.1	1761.9	1767.0
7.5°	1756.8	1760.2	1767.0	1775.5	1780.6	1792.4	1792.4	1800.9	1804.3	1809.4	1807.7
10°	1778.9	1787.3	1802.6	1816.1	1826.3	1839.8	1850.0	1861.9	1861.9	1867.0	1870.3
12.5°	1817.8	1826.3	1843.2	1860.2	1875.4	1892.4	1907.6	1919.5	1931.3	1934.7	1941.5
15°	1882.2	1892.4	1917.8	1941.5	1960.1	1982.2	2002.5	2026.2	2048.2	2053.3	2056.7
17.5°	1978.8	1999.1	2017.7	2060.1	2087.2	2116.0	2148.2	2182.1	2188.8	2224.4	2232.9
20°	2116.0	2141.4	2158.3	2210.9	2256.6	2293.9	2341.3	2380.3	2395.5	2429.4	2463.3
22.5°	2353.2	2348.1	2373.5	2426.0	2459.9	2534.5	2575.1	2615.8	2636.1	2686.9	2714.0
25°	2671.7	2698.8	2754.7	2759.8	2792.0	2878.4	2930.9	2971.5	2973.2	2988.5	3017.3
27.5°	2985.1	3096.9	3185.0	3232.4	3318.8	3398.5	3395.1	3452.7	3362.9	3381.5	3408.6
30°	3364.6	3550.9	3717.0	3828.8	3916.9	4010.1	4055.8	4088.0	4049.0	4032.1	3999.9
32.5°	3720.4	3981.3	4237.1	4435.3	4599.6	4753.8	4855.4	4901.2	4955.4	5092.6	5141.7
35°	3964.3	4333.6	4652.1	4938.5	5212.9	5458.6	5636.4	5738.1	5699.1	5680.5	5670.3
37.5°	4110.0	4560.7	4958.8	5363.7	5678.8	6046.4	6322.6	6590.2	6651.2	6544.5	6492.0
40°	4201.5	4735.2	5246.8	5724.5	6132.8	6607.2	6949.4	7350.9	7655.9	7696.5	7571.2
42.5°	4245.5	4852.0	5448.4	5988.8	6541.1	7122.2	7555.9	8042.1	8497.9	8811.3	8733.3
45°	4252.3	4928.3	5595.8	6227.7	6885.0	7574.6	8133.6	8672.4	9282.3	9819.3	9834.5
47.5°	4252.3	4985.9	5697.4	6400.5	7193.4	7967.6	8577.5	9214.5	9961.6	10596.9	10791.7
50°	4255.7	5024.9	5792.3	6536.0	7428.9	8299.6	8989.2	9741.4	10527.5	11218.7	11594.8
52.5°	4271.0	5053.7	5866.8	6632.6	7581.3	8533.4	9309.4	10176.8	10959.5	11669.3	12155.5
55°	4304.8	5094.3	5921.1	6691.9	7683.0	8685.9	9541.5	10474.9	11239.0	11959.0	12638.4
57.5°	4399.7	5165.5	5987.1	6744.4	7738.9	8785.9	9704.1	10603.7	11345.7	12096.2	12894.2
60°	4589.5	5316.2	6100.6	6849.5	7832.1	8970.5	9782.0	10517.3	11267.8	12055.6	12951.8
62.5°	4892.7	5551.7	6258.2	7027.3	8098.0	9256.8	9722.7	10259.8	10961.2	11820.1	12746.8
63°	4997.7	5602.6	6293.8	7066.3	8170.9	9309.4	9697.3	10183.5	10898.5	11745.6	12673.9
65°	5290.8	5827.9	6463.2	7262.8	8470.8	9361.9	9499.1	9787.1	10464.8	11320.3	12243.6
67.5°	5838.0	6375.1	6827.4	7594.9	8723.2	9155.2	8884.1	8919.7	9627.9	10513.9	11344.0
70°	6183.7	6824.0	7059.5	7637.2	8677.4	8848.6	8087.9	7616.9	8184.4	9194.2	9920.9
72.5°	6093.9	6829.1	6803.7	7073.1	7762.6	7921.9	7134.1	6392.0	6729.2	7483.1	7954.0
75°	5219.7	6098.9	5912.6	5858.4	6100.6	6205.7	5614.4	5500.9	5926.1	6344.6	6351.4
77.5°	3757.6	4725.0	4506.4	4193.0	4176.1	4418.3	4498.0	5241.7	5870.2	6200.6	6054.9
80°	2393.8	3442.5	3215.5	2668.3	2659.8	2974.9	3674.6	4686.0	5351.8	5536.5	5157.0
82.5°	1250.3	2253.2	2339.6	2002.5	2292.2	2814.0	3496.7	3776.3	4028.7	4054.1	3606.8
85°	779.3	1385.8	1629.8	1682.3	2070.3	2495.5	2490.4	2392.1	2280.3	1951.7	1765.3
87.5°	88.1	174.5	264.3	250.7	337.1	472.7	589.6	345.6	242.3	88.1	122.0
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°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1760.2	1761.9	1763.6	1763.6	1772.1	1770.4	1772.1	1775.5	1780.6	1783.9	1787.3
5°	1773.8	1773.8	1780.6	1785.6	1795.8	1802.6	1806.0	1816.1	1828.0	1824.6	1834.8
7.5°	1817.8	1816.1	1822.9	1826.3	1834.8	1846.6	1844.9	1853.4	1863.6	1867.0	1875.4
10°	1877.1	1872.0	1872.0	1868.6	1870.3	1867.0	1867.0	1867.0	1873.7	1872.0	1878.8
12.5°	1938.1	1936.4	1933.0	1922.9	1922.9	1909.3	1902.5	1894.1	1892.4	1880.5	1882.2
15°	2063.5	2063.5	2056.7	2036.4	2019.4	2007.6	1990.6	1978.8	1961.8	1939.8	1927.9
17.5°	2246.4	2222.7	2214.3	2210.9	2183.8	2173.6	2136.3	2097.4	2078.7	2048.2	2031.3
20°	2470.1	2465.0	2431.1	2414.2	2380.3	2332.8	2285.4	2234.6	2204.1	2166.8	2146.5
22.5°	2722.5	2685.2	2668.3	2642.9	2590.4	2536.1	2465.0	2397.2	2349.8	2324.4	2309.1
25°	3017.3	2980.0	2963.1	2929.2	2864.8	2807.2	2719.1	2639.5	2597.1	2554.8	2531.1
27.5°	3408.6	3373.1	3352.7	3264.6	3242.6	3147.7	3039.3	2930.9	2875.0	2812.3	2771.6
30°	3993.1	3994.8	3889.8	3783.0	3672.9	3508.6	3395.1	3273.1	3181.6	3091.8	3002.0
32.5°	4980.8	4728.4	4533.5	4304.8	4066.0	3891.5	3750.9	3605.2	3478.1	3347.6	3198.6
35°	5583.9	5461.9	5209.5	4791.1	4550.5	4338.7	4182.9	4006.7	3850.8	3620.4	3393.4
37.5°	6265.0	5982.0	5675.4	5443.3	5170.5	4924.9	4664.0	4464.1	4194.7	3884.7	3562.8
40°	7259.4	6854.5	6485.2	6173.5	5821.1	5563.6	5272.2	4982.5	4625.0	4176.1	3733.9
42.5°	8298.0	7879.5	7391.6	6986.7	6571.6	6270.1	5909.2	5502.6	4977.4	4421.7	3881.3
45°	9387.3	8828.2	8243.7	7749.0	7317.0	6942.6	6495.4	5956.6	5316.2	4642.0	4018.5
47.5°	10461.4	9819.3	9123.0	8591.0	8028.6	7571.2	7022.3	6341.2	5580.5	4850.4	4155.8
50°	11408.4	10790.0	9951.4	9275.5	8706.2	8142.1	7457.7	6637.7	5788.9	5029.9	4279.4
52.5°	12225.0	11693.0	10810.4	9956.5	9300.9	8667.3	7808.3	6876.6	5999.0	5196.0	4381.1
55°	12824.7	12470.6	11657.5	10598.6	9824.4	9068.8	8104.8	7107.0	6197.2	5328.1	4447.1
57.5°	13277.1	13080.5	12382.6	11203.4	10305.5	9458.4	8411.5	7383.1	6393.7	5441.6	4477.6
60°	13524.4	13578.6	12931.5	11732.0	10730.8	9783.7	8718.1	7618.6	6539.4	5507.7	4460.7
62.5°	13500.7	13832.7	13343.1	12057.3	10978.1	9976.9	8924.8	7728.7	6519.1	5402.6	4306.5
63°	13454.9	13841.2	13388.9	12079.3	10993.3	9983.6	8929.9	7713.5	6476.7	5351.8	4245.5
65°	13060.2	13646.4	13349.9	11979.3	10857.8	9856.6	8823.1	7493.2	6178.6	5079.1	3932.1
67.5°	12003.1	12736.6	12651.9	11272.9	10215.7	9331.4	8277.6	6783.4	5441.6	4408.2	3332.4
70°	10256.4	10945.9	10961.2	9804.1	8921.4	8054.0	7178.1	5519.5	4313.3	3417.1	2485.3
72.5°	7860.9	8304.7	8458.9	7696.5	7105.3	6495.4	5709.3	4006.7	3074.9	2324.4	1617.9
75°	6087.1	5965.1	5963.4	5641.5	5401.0	5102.8	4238.8	2703.9	2019.4	1511.2	989.4
77.5°	5472.1	4930.0	4404.8	4018.5	3825.4	3725.4	2780.1	1629.8	1191.0	869.1	569.2
80°	4513.2	3713.6	3000.3	2583.6	2417.6	2532.8	1550.1	881.0	652.2	494.7	369.3
82.5°	3112.2	2583.6	1963.5	1626.4	1396.0	1460.4	792.9	450.6	301.6	276.1	228.7
85°	1621.3	1421.4	1199.5	1030.0	909.8	799.6	411.7	215.2	125.4	110.1	100.0
87.5°	0.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1792.4	1790.7	1794.1	1795.8	1800.9	1804.3	1806.0	1802.6	1807.7	1812.7	1809.4
5°	1839.8	1851.7	1853.4	1858.5	1858.5	1868.6	1868.6	1868.6	1867.0	1868.6	1865.3
7.5°	1880.5	1895.8	1897.4	1904.2	1905.9	1917.8	1912.7	1916.1	1916.1	1907.6	1904.2
10°	1885.6	1900.8	1909.3	1917.8	1929.6	1944.9	1944.9	1953.4	1953.4	1946.6	1944.9
12.5°	1887.3	1899.1	1907.6	1919.5	1936.4	1958.4	1970.3	1982.2	1987.2	1985.5	1980.5
15°	1922.9	1922.9	1924.6	1934.7	1946.6	1973.7	1990.6	2004.2	2012.7	2009.3	2000.8
17.5°	2016.0	2002.5	1992.3	1975.4	1978.8	1992.3	2002.5	2014.3	2016.0	2012.7	1999.1
20°	2124.5	2107.5	2082.1	2055.0	2041.5	2031.3	2024.5	2024.5	2019.4	2002.5	1980.5
22.5°	2278.6	2256.6	2221.0	2180.4	2153.3	2121.1	2082.1	2044.8	2004.2	1963.5	1916.1
25°	2492.1	2461.6	2424.3	2361.6	2304.0	2236.3	2156.7	2073.6	1977.1	1892.4	1822.9
27.5°	2707.3	2639.5	2542.9	2456.5	2349.8	2248.1	2134.6	2033.0	1909.3	1807.7	1731.4
30°	2885.1	2756.4	2617.5	2480.2	2339.6	2202.4	2066.9	1944.9	1809.4	1706.0	1631.5
32.5°	3022.4	2844.5	2651.3	2471.8	2299.0	2131.2	1975.4	1839.8	1702.6	1595.9	1516.3
35°	3149.4	2902.1	2656.4	2434.5	2221.0	2046.5	1870.3	1723.0	1577.3	1465.4	1379.0
37.5°	3244.3	2929.2	2625.9	2365.0	2119.4	1924.6	1745.0	1594.2	1445.1	1323.1	1224.9
40°	3305.3	2912.2	2559.9	2265.1	1999.1	1794.1	1611.1	1455.3	1311.3	1177.4	1058.8
42.5°	3354.4	2890.2	2493.8	2173.6	1904.2	1680.6	1492.5	1324.8	1179.1	1033.4	903.0
45°	3427.3	2907.2	2465.0	2109.2	1819.5	1584.0	1377.3	1202.8	1050.4	908.1	782.7
47.5°	3498.4	2915.6	2422.6	2029.6	1712.8	1484.1	1274.0	1104.6	948.7	818.3	703.1
50°	3562.8	2910.6	2356.6	1927.9	1609.4	1384.1	1180.8	1011.4	857.2	737.0	628.5
52.5°	3593.3	2881.8	2275.2	1829.7	1526.4	1296.0	1089.3	925.0	772.5	659.0	559.1
55°	3589.9	2807.2	2168.5	1736.5	1434.9	1202.8	999.5	836.9	699.7	594.6	508.2
57.5°	3539.1	2692.0	2055.0	1633.2	1314.7	1087.6	894.5	737.0	621.8	533.7	460.8
60°	3432.4	2544.6	1905.9	1482.4	1163.9	945.3	764.1	628.5	535.4	467.6	420.1
62.5°	3232.4	2332.8	1719.6	1272.3	960.6	760.7	603.1	515.0	445.6	404.9	382.9
63°	3173.1	2275.2	1639.9	1221.5	913.1	718.3	569.2	477.8	426.9	391.3	371.0
65°	2878.4	1992.3	1372.3	986.0	709.8	554.0	457.4	388.0	357.5	342.2	340.5
67.5°	2331.2	1567.1	970.7	676.0	482.8	399.8	350.7	321.9	308.3	304.9	308.3
70°	1636.6	989.4	616.7	449.0	357.5	321.9	299.9	288.0	279.5	281.2	284.6
72.5°	1043.6	593.0	423.5	340.5	301.6	282.9	272.8	269.4	267.7	266.0	266.0
75°	594.6	394.7	325.3	294.8	274.5	259.2	250.7	247.3	249.0	250.7	247.3
77.5°	393.0	325.3	289.7	269.4	250.7	233.8	228.7	227.0	230.4	233.8	233.8
80°	310.0	289.7	269.4	249.0	218.5	206.7	210.1	211.8	210.1	211.8	206.7
82.5°	218.5	215.2	220.2	211.8	181.3	171.1	167.7	169.4	166.0	166.0	162.6
85°	101.6	101.6	106.7	106.7	103.3	105.0	113.5	123.7	128.8	123.7	116.9
87.5°	0.0	0.0	0.0	0.0	0.0	15.2	30.5	44.0	47.4	59.3	57.6
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: P152976

CATALOG NUMBER: TLM-F06-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1804.3	1807.7	1806.0	1804.3	1807.7	1804.3	1806.0	1804.3	1804.3	1802.6	1802.6
5°	1861.9	1867.0	1856.8	1855.1	1851.7	1843.2	1843.2	1839.8	1839.8	1833.1	1828.0
7.5°	1899.1	1900.8	1892.4	1890.7	1882.2	1873.7	1867.0	1860.2	1858.5	1853.4	1843.2
10°	1934.7	1931.3	1924.6	1916.1	1907.6	1895.8	1887.3	1878.8	1877.1	1868.6	1856.8
12.5°	1965.2	1963.5	1950.0	1941.5	1927.9	1916.1	1905.9	1895.8	1890.7	1880.5	1863.6
15°	1985.5	1975.4	1958.4	1943.2	1927.9	1914.4	1902.5	1890.7	1885.6	1873.7	1856.8
17.5°	1977.1	1958.4	1936.4	1917.8	1897.4	1880.5	1870.3	1858.5	1850.0	1843.2	1819.5
20°	1946.6	1919.5	1885.6	1863.6	1836.5	1814.4	1807.7	1795.8	1789.0	1763.6	1733.1
22.5°	1867.0	1828.0	1785.6	1753.4	1723.0	1700.9	1684.0	1672.1	1655.2	1639.9	1592.5
25°	1767.0	1723.0	1678.9	1639.9	1599.3	1565.4	1534.9	1506.1	1497.6	1465.4	1419.7
27.5°	1670.4	1621.3	1577.3	1531.5	1479.0	1436.6	1384.1	1343.5	1316.4	1282.5	1240.1
30°	1567.1	1518.0	1458.7	1397.7	1336.7	1290.9	1231.6	1182.5	1148.6	1113.1	1074.1
32.5°	1436.6	1377.3	1306.2	1238.4	1182.5	1128.3	1069.0	1021.6	987.7	955.5	918.2
35°	1287.6	1209.6	1133.4	1058.8	999.5	953.8	901.3	865.7	842.0	813.2	774.2
37.5°	1116.4	1028.3	947.0	889.4	836.9	792.9	755.6	733.6	708.2	692.9	669.2
40°	943.6	857.2	777.6	725.1	681.0	655.6	635.3	630.2	613.3	593.0	577.7
42.5°	791.2	708.2	630.2	587.9	559.1	552.3	542.1	542.1	533.7	518.4	508.2
45°	687.8	601.4	533.7	503.2	487.9	486.2	481.1	481.1	479.4	472.7	460.8
47.5°	613.3	535.4	482.8	464.2	460.8	457.4	452.3	450.6	449.0	443.9	437.1
50°	545.5	479.4	445.6	437.1	438.8	433.7	428.6	423.5	421.8	416.8	410.0
52.5°	482.8	435.4	413.4	408.3	408.3	408.3	404.9	404.9	401.5	399.8	393.0
55°	447.3	411.7	399.8	398.1	396.4	394.7	391.3	391.3	388.0	386.3	377.8
57.5°	416.8	394.7	388.0	384.6	382.9	379.5	377.8	377.8	377.8	377.8	367.6
60°	393.0	382.9	381.2	377.8	376.1	369.3	365.9	364.2	365.9	367.6	357.5
62.5°	367.6	365.9	364.2	360.9	359.2	352.4	347.3	343.9	347.3	350.7	349.0
63°	360.9	359.2	359.2	357.5	355.8	347.3	342.2	338.8	342.2	345.6	345.6
65°	337.1	338.8	338.8	337.1	335.4	330.4	323.6	320.2	321.9	327.0	328.7
67.5°	311.7	313.4	311.7	313.4	311.7	308.3	303.3	299.9	298.2	299.9	301.6
70°	288.0	291.4	289.7	288.0	286.3	286.3	282.9	277.8	276.1	274.5	274.5
72.5°	267.7	267.7	264.3	264.3	262.6	262.6	259.2	254.1	252.4	252.4	249.0
75°	245.7	245.7	240.6	240.6	237.2	238.9	235.5	230.4	228.7	228.7	227.0
77.5°	232.1	227.0	218.5	216.9	215.2	215.2	213.5	208.4	206.7	206.7	205.0
80°	205.0	194.8	186.4	184.7	186.4	189.7	189.7	186.4	186.4	186.4	186.4
82.5°	159.3	155.9	150.8	147.4	147.4	152.5	159.3	162.6	166.0	169.4	169.4
85°	116.9	118.6	116.9	111.8	110.1	115.2	122.0	128.8	130.4	137.2	135.5
87.5°	62.7	64.4	59.3	57.6	62.7	66.1	72.8	74.5	77.9	79.6	81.3
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: P152976

CATALOG NUMBER: TLM-F06-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1800.9	1799.2	1800.9	1797.5	1797.5	1794.1	1790.7	1789.0	1785.6	1783.9	1780.6
5°	1831.4	1826.3	1821.2	1819.5	1812.7	1806.0	1800.9	1792.4	1785.6	1773.8	1770.4
7.5°	1851.7	1839.8	1833.1	1831.4	1821.2	1816.1	1804.3	1794.1	1783.9	1768.7	1763.6
10°	1860.2	1848.3	1836.5	1831.4	1819.5	1811.0	1799.2	1783.9	1775.5	1760.2	1756.8
12.5°	1870.3	1848.3	1829.7	1816.1	1799.2	1780.6	1768.7	1760.2	1748.4	1739.9	1736.5
15°	1851.7	1822.9	1794.1	1768.7	1741.6	1721.3	1709.4	1695.8	1682.3	1677.2	1677.2
17.5°	1800.9	1763.6	1714.5	1682.3	1653.5	1631.5	1616.2	1602.7	1601.0	1594.2	1597.6
20°	1695.8	1646.7	1599.3	1575.6	1558.6	1545.1	1529.8	1523.0	1518.0	1507.8	1504.4
22.5°	1550.1	1509.5	1475.6	1458.7	1445.1	1428.2	1414.6	1394.3	1389.2	1379.0	1374.0
25°	1389.2	1357.0	1328.2	1316.4	1307.9	1284.2	1275.7	1248.6	1230.0	1218.1	1224.9
27.5°	1228.3	1204.5	1177.4	1162.2	1157.1	1135.1	1126.6	1096.1	1080.9	1080.9	1063.9
30°	1062.2	1040.2	1023.3	1006.3	1002.9	975.8	953.8	941.9	925.0	918.2	906.4
32.5°	906.4	884.3	870.8	862.3	848.8	826.7	804.7	784.4	757.3	747.1	742.0
35°	762.4	745.4	728.5	721.7	703.1	679.4	652.2	635.3	603.1	591.3	586.2
37.5°	652.2	631.9	620.1	601.4	582.8	557.4	537.0	521.8	509.9	504.9	504.9
40°	564.2	548.9	535.4	520.1	504.9	491.3	481.1	477.8	476.1	476.1	479.4
42.5°	498.1	484.5	477.8	469.3	464.2	464.2	462.5	464.2	465.9	467.6	472.7
45°	454.0	445.6	442.2	440.5	443.9	447.3	449.0	452.3	459.1	462.5	464.2
47.5°	430.3	423.5	421.8	423.5	428.6	435.4	442.2	447.3	452.3	454.0	455.7
50°	406.6	398.1	394.7	398.1	404.9	415.1	420.1	428.6	432.0	435.4	432.0
52.5°	386.3	379.5	377.8	377.8	384.6	391.3	398.1	404.9	406.6	406.6	404.9
55°	369.3	364.2	359.2	362.5	367.6	374.4	384.6	389.7	393.0	394.7	394.7
57.5°	355.8	350.7	345.6	349.0	354.1	360.9	371.0	376.1	379.5	384.6	386.3
60°	345.6	338.8	333.7	338.8	343.9	354.1	362.5	367.6	376.1	377.8	377.8
62.5°	335.4	328.7	320.2	325.3	325.3	330.4	338.8	345.6	354.1	357.5	357.5
63°	333.7	327.0	318.5	321.9	321.9	325.3	332.1	338.8	349.0	352.4	350.7
65°	320.2	318.5	310.0	310.0	306.6	310.0	315.1	321.9	327.0	332.1	332.1
67.5°	298.2	296.5	294.8	294.8	294.8	298.2	301.6	306.6	311.7	315.1	313.4
70°	272.8	272.8	272.8	274.5	274.5	277.8	279.5	277.8	282.9	286.3	284.6
72.5°	250.7	249.0	247.3	250.7	249.0	249.0	252.4	250.7	255.8	255.8	257.5
75°	227.0	225.3	225.3	227.0	223.6	220.2	221.9	221.9	223.6	223.6	227.0
77.5°	206.7	206.7	206.7	205.0	201.6	199.9	198.2	198.2	198.2	198.2	199.9
80°	188.1	188.1	188.1	186.4	183.0	179.6	176.2	174.5	172.8	164.3	164.3
82.5°	169.4	169.4	169.4	169.4	167.7	164.3	159.3	145.7	138.9	132.1	133.8
85°	133.8	137.2	140.6	145.7	144.0	144.0	133.8	116.9	106.7	100.0	101.6
87.5°	86.4	76.2	76.2	74.5	71.2	67.8	67.8	57.6	47.4	42.4	44.0
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: P152976

CATALOG NUMBER: TLM-F06-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1780.6	1777.2	1773.8	1773.8	1768.7	1768.7	1765.3	1772.1	1765.3	1760.2	1760.2
5°	1767.0	1763.6	1753.4	1751.8	1745.0	1745.0	1745.0	1741.6	1741.6	1738.2	1736.5
7.5°	1758.5	1750.1	1741.6	1736.5	1736.5	1733.1	1739.9	1736.5	1738.2	1738.2	1739.9
10°	1751.8	1745.0	1741.6	1739.9	1739.9	1745.0	1750.1	1751.8	1750.1	1751.8	1751.8
12.5°	1734.8	1738.2	1739.9	1746.7	1755.1	1765.3	1777.2	1778.9	1782.2	1782.2	1785.6
15°	1680.6	1689.1	1699.2	1716.2	1738.2	1760.2	1782.2	1800.9	1817.8	1826.3	1833.1
17.5°	1604.4	1612.8	1631.5	1650.1	1678.9	1711.1	1748.4	1780.6	1816.1	1848.3	1880.5
20°	1501.0	1514.6	1519.7	1553.5	1587.4	1631.5	1675.5	1726.3	1787.3	1848.3	1911.0
22.5°	1367.2	1382.4	1406.1	1433.3	1468.8	1523.0	1575.6	1655.2	1736.5	1822.9	1921.2
25°	1218.1	1235.0	1255.4	1284.2	1319.7	1377.3	1453.6	1538.3	1638.2	1751.8	1873.7
27.5°	1063.9	1080.9	1097.8	1118.1	1158.8	1219.8	1309.6	1397.7	1507.8	1631.5	1773.8
30°	909.8	911.5	921.6	947.0	989.4	1069.0	1135.1	1245.2	1360.4	1490.9	1655.2
32.5°	740.3	738.6	750.5	772.5	813.2	889.4	970.7	1077.5	1191.0	1355.3	1524.7
35°	589.6	589.6	611.6	633.6	679.4	733.6	804.7	899.6	1033.4	1185.9	1355.3
37.5°	509.9	521.8	535.4	557.4	593.0	635.3	698.0	781.0	886.0	1031.7	1187.6
40°	484.5	491.3	503.2	523.5	554.0	593.0	638.7	701.4	782.7	899.6	1041.9
42.5°	474.4	476.1	482.8	498.1	525.2	564.2	611.6	667.5	728.5	811.5	935.2
45°	464.2	462.5	465.9	477.8	499.8	543.8	598.0	659.0	720.0	789.5	891.1
47.5°	455.7	455.7	455.7	460.8	481.1	525.2	587.9	659.0	731.9	809.8	909.8
50°	432.0	430.3	430.3	433.7	449.0	496.4	570.9	657.3	752.2	853.9	967.4
52.5°	404.9	404.9	406.6	408.3	421.8	469.3	552.3	657.3	775.9	911.5	1053.8
55°	396.4	398.1	399.8	398.1	408.3	449.0	532.0	647.2	786.1	957.2	1146.9
57.5°	389.7	393.0	393.0	391.3	398.1	432.0	511.6	626.8	777.6	974.1	1213.0
60°	379.5	379.5	379.5	374.4	377.8	408.3	481.1	594.6	750.5	958.9	1223.2
62.5°	357.5	357.5	354.1	352.4	350.7	374.4	440.5	547.2	701.4	918.2	1197.8
63°	352.4	350.7	350.7	345.6	345.6	367.6	432.0	540.4	687.8	908.1	1187.6
65°	333.7	333.7	333.7	330.4	328.7	345.6	398.1	493.0	635.3	860.6	1136.8
67.5°	313.4	315.1	311.7	310.0	308.3	318.5	359.2	433.7	554.0	760.7	1041.9
70°	284.6	286.3	286.3	284.6	282.9	289.7	315.1	372.7	459.1	633.6	887.7
72.5°	259.2	262.6	262.6	266.0	266.0	271.1	281.2	310.0	367.6	494.7	698.0
75°	232.1	233.8	237.2	240.6	237.2	235.5	237.2	259.2	288.0	365.9	498.1
77.5°	208.4	213.5	213.5	211.8	206.7	203.3	203.3	213.5	237.2	277.8	355.8
80°	172.8	181.3	183.0	177.9	172.8	172.8	176.2	183.0	198.2	228.7	269.4
82.5°	138.9	147.4	149.1	150.8	149.1	154.2	154.2	155.9	164.3	188.1	220.2
85°	106.7	113.5	118.6	120.3	122.0	123.7	122.0	113.5	118.6	133.8	149.1
87.5°	47.4	49.1	45.7	47.4	45.7	47.4	49.1	40.7	39.0	52.5	54.2
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: P152976

CATALOG NUMBER: TLM-F06-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2	1777.2
2.5°	1758.5	1758.5	1760.2	1756.8	1756.8	1758.5	1753.4
5°	1731.4	1738.2	1738.2	1738.2	1734.8	1738.2	1739.9
7.5°	1738.2	1743.3	1746.7	1746.7	1745.0	1751.8	1756.8
10°	1746.7	1755.1	1758.5	1758.5	1758.5	1767.0	1778.9
12.5°	1778.9	1785.6	1790.7	1790.7	1794.1	1804.3	1817.8
15°	1838.2	1846.6	1846.6	1844.9	1855.1	1867.0	1882.2
17.5°	1904.2	1927.9	1939.8	1938.1	1946.6	1961.8	1978.8
20°	1966.9	2033.0	2061.8	2082.1	2090.6	2110.9	2116.0
22.5°	2019.4	2129.5	2209.2	2276.9	2309.1	2329.5	2353.2
25°	2000.8	2149.9	2292.2	2431.1	2529.4	2629.3	2671.7
27.5°	1924.6	2110.9	2297.3	2500.6	2678.5	2856.3	2985.1
30°	1831.4	2055.0	2305.7	2593.7	2875.0	3147.7	3364.6
32.5°	1724.6	2002.5	2324.4	2680.1	3049.5	3406.9	3720.4
35°	1590.8	1902.5	2278.6	2688.6	3124.0	3557.7	3964.3
37.5°	1421.4	1767.0	2171.9	2627.6	3127.4	3623.8	4110.0
40°	1252.0	1595.9	2036.4	2539.5	3083.4	3639.0	4201.5
42.5°	1133.4	1443.4	1899.1	2427.7	3012.2	3615.3	4245.5
45°	1052.1	1333.3	1777.2	2326.1	2936.0	3573.0	4252.3
47.5°	1045.3	1285.9	1697.5	2251.5	2875.0	3535.7	4252.3
50°	1102.9	1311.3	1670.4	2214.3	2849.6	3523.8	4255.7
52.5°	1211.3	1412.9	1719.6	2243.1	2869.9	3539.1	4271.0
55°	1341.8	1567.1	1851.7	2343.0	2956.3	3589.9	4304.8
57.5°	1460.4	1745.0	2077.0	2536.1	3113.8	3718.7	4399.7
60°	1529.8	1897.4	2315.9	2807.2	3383.2	3974.5	4589.5
62.5°	1538.3	1982.2	2527.7	3102.0	3710.2	4267.6	4892.7
63°	1531.5	1988.9	2554.8	3157.9	3779.7	4340.4	4997.7
65°	1494.2	1990.6	2631.0	3354.4	4020.2	4647.1	5290.8
67.5°	1399.4	1936.4	2658.1	3508.6	4323.5	5050.3	5838.0
70°	1235.0	1782.2	2578.5	3512.0	4440.4	5275.6	6183.7
72.5°	992.8	1489.2	2234.6	3195.2	4132.0	5053.7	6093.9
75°	726.8	1094.4	1689.1	2475.2	3371.4	4206.6	5219.7
77.5°	482.8	708.2	1138.5	1763.6	2417.6	3027.4	3757.6
80°	332.1	438.8	665.8	1060.5	1479.0	1775.5	2393.8
82.5°	244.0	289.7	369.3	542.1	711.5	875.9	1250.3
85°	152.5	166.0	184.7	267.7	382.9	516.7	779.3
87.5°	40.7	42.4	39.0	52.5	83.0	79.6	88.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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