

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: P152961

Luminaire Tested: **TLM-E05-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152961
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-E05-LED-E1-SLL-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

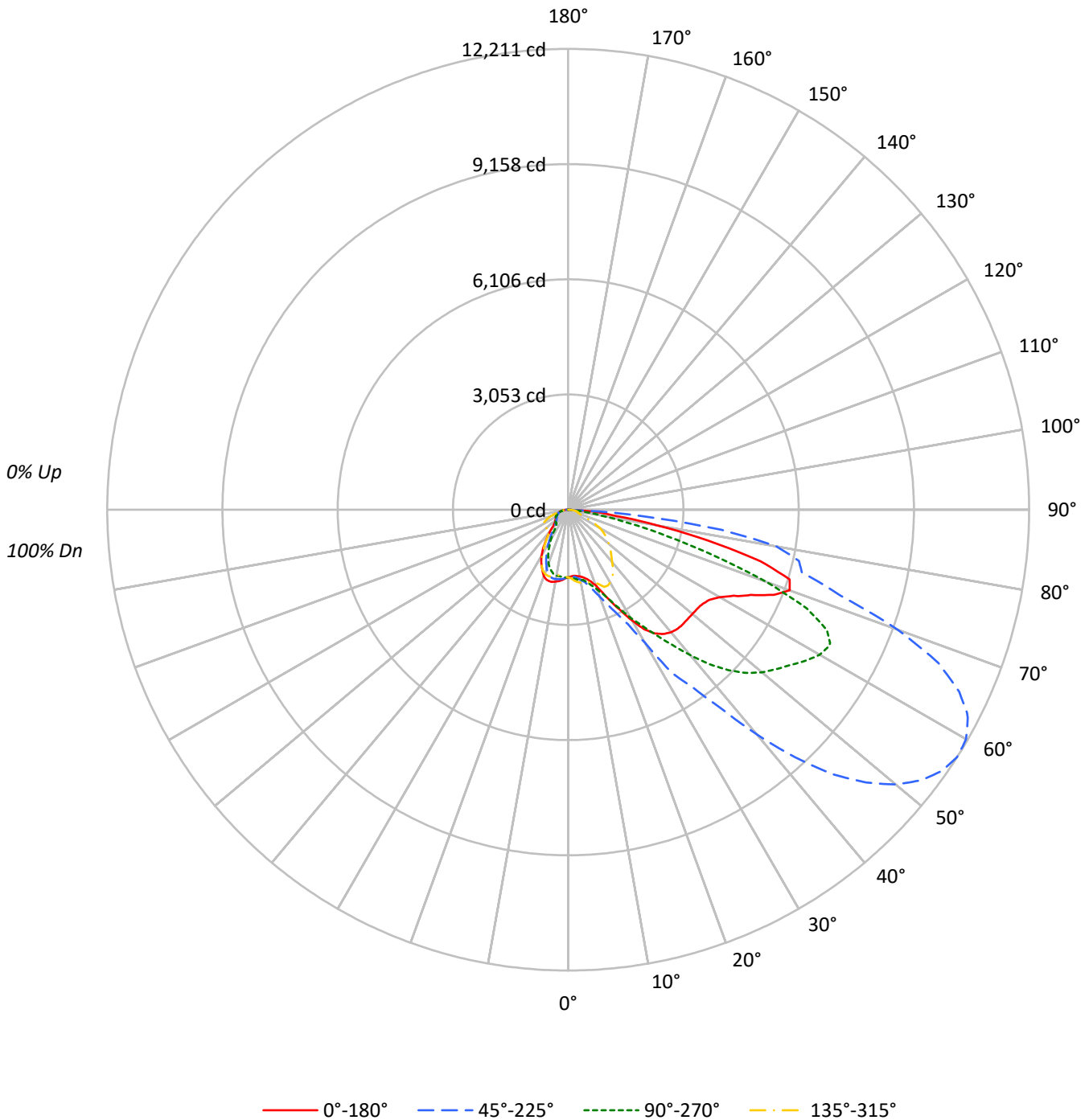
Lumens per Lamp: N/A
Luminaire Lumens: 14275.5 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): 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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CATALOG NUMBER: TLM-E05-LED-E1-SLL-7050

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	23266	23266	23266	23266
5°	22865	23866	24378	23265
10°	23647	24818	25471	23355
15°	25510	26819	26337	22732
20°	29479	31131	25962	20958
25°	38591	38127	23689	17693
30°	50860	49478	21128	13700
35°	63355	64033	16923	9368
40°	71800	85147	12392	8194
45°	78726	110280	9315	8594
50°	86674	135186	8901	8799
55°	98254	162209	9087	9010
60°	120164	199475	9892	9892
65°	163892	232114	10443	10286
70°	236685	211269	11023	10894
75°	264017	136761	12166	11484
80°	180472	66416	13921	12390
85°	117059	32319	16799	15267



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	1.2
10°-20°	543.9	3.8
20°-30°	966.2	6.8
30°-40°	1521.6	10.7
40°-50°	2239.3	15.7
50°-60°	2974.4	20.8
60°-70°	3276.3	23.0
70°-80°	2055.6	14.4
80°-90°	523.5	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°	1684.8	11.8
0°-40°	3206.3	22.5
0°-60°	8420.0	59.0
0°-90°	14275.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14275.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1794	1794	1794	1794	1794	
5°	1756	1833	1873	1787	1756	169
15°	1900	1998	1962	1693	1900	550
25°	2697	2664	1656	1236	2697	1273
35°	4002	4045	1069	592	4002	2480
45°	4292	6013	508	469	4292	3319
55°	4346	7174	402	398	4346	3942
65°	5341	7564	340	335	5341	5377
75°	5269	2729	243	229	5269	5153
85°	787	217	113	103	787	909
90°	0	0	0	0	0	



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CATALOG NUMBER: TLM-E05-LED-E1-SLL-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0
2.5°	1770.0	1773.5	1773.5	1771.7	1771.7	1775.2	1773.5	1771.7	1766.6	1773.5	1773.5
5°	1756.4	1759.8	1759.8	1763.2	1766.6	1770.0	1770.0	1773.5	1771.7	1778.6	1783.7
7.5°	1773.5	1776.9	1783.7	1792.3	1797.4	1809.4	1809.4	1817.9	1821.3	1826.5	1824.8
10°	1795.7	1804.2	1819.6	1833.3	1843.6	1857.3	1867.5	1879.5	1879.5	1884.6	1888.0
12.5°	1835.0	1843.6	1860.7	1877.8	1893.2	1910.3	1925.7	1937.6	1949.6	1953.0	1959.9
15°	1900.0	1910.3	1935.9	1959.9	1978.7	2000.9	2021.4	2045.4	2067.6	2072.7	2076.2
17.5°	1997.5	2018.0	2036.8	2079.6	2106.9	2136.0	2168.5	2202.7	2209.5	2245.5	2254.0
20°	2136.0	2161.7	2178.8	2231.8	2278.0	2315.6	2363.5	2402.8	2418.2	2452.4	2486.6
22.5°	2375.4	2370.3	2396.0	2449.0	2483.2	2558.4	2599.5	2640.5	2661.0	2712.3	2739.7
25°	2696.9	2724.3	2780.7	2785.9	2818.4	2905.6	2958.6	2999.6	3001.4	3016.8	3045.8
27.5°	3013.3	3126.2	3215.1	3263.0	3350.2	3430.6	3427.2	3485.3	3394.7	3413.5	3440.9
30°	3396.4	3584.5	3752.1	3865.0	3953.9	4048.0	4094.2	4126.7	4087.3	4070.2	4037.7
32.5°	3755.5	4018.9	4277.1	4477.2	4643.1	4798.8	4901.4	4947.5	5002.3	5140.8	5190.4
35°	4001.8	4374.6	4696.1	4985.2	5262.2	5510.2	5689.8	5792.4	5753.0	5734.2	5724.0
37.5°	4148.9	4603.8	5005.7	5414.4	5732.5	6103.6	6382.4	6652.6	6714.1	6606.4	6553.4
40°	4241.2	4779.9	5296.4	5778.7	6190.8	6669.7	7015.1	7420.5	7728.3	7769.3	7642.8
42.5°	4285.7	4897.9	5499.9	6045.5	6603.0	7189.6	7627.4	8118.2	8578.2	8894.6	8816.0
45°	4292.5	4974.9	5648.7	6286.6	6950.2	7646.2	8210.6	8754.4	9370.1	9912.2	9927.6
47.5°	4292.5	5033.0	5751.3	6461.0	7261.4	8043.0	8658.6	9301.6	10055.8	10697.1	10893.8
50°	4296.0	5072.4	5847.1	6597.9	7499.1	8378.2	9074.2	9833.5	10627.0	11324.8	11704.4
52.5°	4311.4	5101.5	5922.3	6695.3	7653.0	8614.2	9397.4	10273.0	11063.1	11779.7	12270.5
55°	4345.6	5142.5	5977.1	6755.2	7755.6	8768.1	9631.7	10574.0	11345.3	12072.1	12757.9
57.5°	4441.3	5214.3	6043.8	6808.2	7812.1	8869.0	9795.9	10704.0	11453.0	12210.7	13016.1
60°	4632.9	5366.5	6158.3	6914.2	7906.1	9055.4	9874.6	10616.8	11374.4	12169.6	13074.3
62.5°	4939.0	5604.2	6317.4	7093.8	8174.6	9344.4	9814.7	10356.8	11064.8	11931.9	12867.4
63°	5045.0	5655.6	6353.3	7133.1	8248.2	9397.4	9789.0	10279.9	11001.6	11856.6	12793.8
65°	5340.9	5883.0	6524.3	7331.5	8550.9	9450.4	9589.0	9879.7	10563.8	11427.4	12359.4
67.5°	5893.3	6435.4	6892.0	7666.7	8805.7	9241.8	8968.2	9004.1	9718.9	10613.4	11451.3
70°	6242.1	6888.6	7126.3	7709.5	8759.5	8932.2	8164.4	7689.0	8261.9	9281.1	10014.8
72.5°	6151.5	6893.7	6868.1	7140.0	7836.0	7996.8	7201.6	6452.5	6792.8	7553.8	8029.3
75°	5269.1	6156.6	5968.5	5913.8	6158.3	6264.4	5667.5	5552.9	5982.2	6404.6	6411.4
77.5°	3793.2	4769.7	4549.1	4232.7	4215.6	4460.1	4540.5	5291.3	5925.8	6259.2	6112.2
80°	2416.5	3475.1	3245.9	2693.5	2685.0	3003.1	3709.4	4730.3	5402.4	5588.9	5205.8
82.5°	1262.1	2274.5	2361.8	2021.4	2313.9	2840.6	3529.8	3812.0	4066.8	4092.5	3641.0
85°	786.7	1398.9	1645.2	1698.2	2089.8	2519.1	2514.0	2414.8	2301.9	1970.1	1782.0
87.5°	88.9	176.1	266.8	253.1	340.3	477.1	595.1	348.9	244.6	88.9	123.1
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°	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0
2.5°	1776.9	1778.6	1780.3	1780.3	1788.8	1787.1	1788.8	1792.3	1797.4	1800.8	1804.2
5°	1790.6	1790.6	1797.4	1802.5	1812.8	1819.6	1823.0	1833.3	1845.3	1841.9	1852.1
7.5°	1835.0	1833.3	1840.1	1843.6	1852.1	1864.1	1862.4	1870.9	1881.2	1884.6	1893.2
10°	1894.9	1889.7	1889.7	1886.3	1888.0	1884.6	1884.6	1884.6	1891.5	1889.7	1896.6
12.5°	1956.4	1954.7	1951.3	1941.0	1941.0	1927.4	1920.5	1912.0	1910.3	1898.3	1900.0
15°	2083.0	2083.0	2076.2	2055.6	2038.5	2026.6	2009.5	1997.5	1980.4	1958.2	1946.2
17.5°	2267.7	2243.8	2235.2	2231.8	2204.4	2194.2	2156.5	2117.2	2098.4	2067.6	2050.5
20°	2493.4	2488.3	2454.1	2437.0	2402.8	2354.9	2307.0	2255.7	2224.9	2187.3	2166.8
22.5°	2748.3	2710.6	2693.5	2667.9	2614.9	2560.1	2488.3	2419.9	2372.0	2346.4	2331.0
25°	3045.8	3008.2	2991.1	2956.9	2891.9	2833.8	2744.8	2664.5	2621.7	2578.9	2555.0
27.5°	3440.9	3405.0	3384.4	3295.5	3273.3	3177.5	3068.1	2958.6	2902.2	2838.9	2797.8
30°	4030.9	4032.6	3926.6	3818.8	3707.7	3541.8	3427.2	3304.1	3211.7	3121.1	3030.4
32.5°	5027.9	4773.1	4576.4	4345.6	4104.4	3928.3	3786.3	3639.3	3511.0	3379.3	3228.8
35°	5636.7	5513.6	5258.8	4836.4	4593.5	4379.8	4222.4	4044.6	3887.2	3654.6	3425.5
37.5°	6324.2	6038.6	5729.1	5494.8	5219.5	4971.5	4708.1	4506.3	4234.4	3921.4	3596.5
40°	7328.1	6919.4	6546.6	6231.9	5876.2	5616.2	5322.1	5029.6	4668.8	4215.6	3769.2
42.5°	8376.4	7954.0	7461.5	7052.8	6633.8	6329.4	5965.1	5554.7	5024.5	4463.6	3918.0
45°	9476.1	8911.7	8321.7	7822.3	7386.2	7008.3	6556.8	6013.0	5366.5	4685.9	4056.5
47.5°	10560.3	9912.2	9209.3	8672.3	8104.5	7642.8	7088.7	6401.2	5633.3	4896.2	4195.1
50°	11516.3	10892.1	10045.6	9363.2	8788.6	8219.1	7528.2	6700.5	5843.7	5077.5	4319.9
52.5°	12340.6	11803.6	10912.6	10050.7	9388.9	8749.3	7882.2	6941.6	6055.7	5245.1	4422.5
55°	12946.0	12588.6	11767.7	10698.9	9917.3	9154.6	8181.5	7174.2	6255.8	5378.5	4489.2
57.5°	13402.6	13204.3	12499.7	11309.4	10403.0	9547.9	8491.0	7452.9	6454.2	5493.1	4520.0
60°	13652.3	13707.1	13053.8	11843.0	10832.3	9876.3	8800.6	7690.7	6601.3	5559.8	4502.9
62.5°	13628.4	13963.6	13469.3	12171.3	11081.9	10071.2	9009.2	7801.8	6580.8	5453.8	4347.3
63°	13582.2	13972.1	13515.5	12193.6	11097.3	10078.1	9014.3	7786.4	6538.0	5402.4	4285.7
65°	13183.7	13775.5	13476.2	12092.7	10960.5	9949.8	8906.6	7564.1	6237.0	5127.1	3969.3
67.5°	12116.6	12857.1	12771.6	11379.5	10312.4	9419.6	8355.9	6847.5	5493.1	4449.9	3363.9
70°	10353.4	11049.4	11064.8	9896.8	9005.8	8130.2	7246.0	5571.8	4354.1	3449.4	2508.8
72.5°	7935.2	8383.3	8538.9	7769.3	7172.5	6556.8	5763.3	4044.6	3104.0	2346.4	1633.2
75°	6144.7	6021.5	6019.8	5694.9	5452.0	5151.0	4278.9	2729.4	2038.5	1525.5	998.7
77.5°	5523.9	4976.6	4446.5	4056.5	3861.6	3760.7	2806.4	1645.2	1202.3	877.3	574.6
80°	4555.9	3748.7	3028.7	2608.0	2440.4	2556.7	1564.8	889.3	658.4	499.4	372.8
82.5°	3141.6	2608.0	1982.1	1641.8	1409.2	1474.2	800.4	454.9	304.4	278.8	230.9
85°	1636.6	1434.8	1210.8	1039.8	918.4	807.2	415.6	217.2	126.6	111.2	100.9
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°	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0
2.5°	1809.4	1807.7	1811.1	1812.8	1817.9	1821.3	1823.0	1819.6	1824.8	1829.9	1826.5
5°	1857.3	1869.2	1870.9	1876.1	1876.1	1886.3	1886.3	1886.3	1884.6	1886.3	1882.9
7.5°	1898.3	1913.7	1915.4	1922.2	1923.9	1935.9	1930.8	1934.2	1934.2	1925.7	1922.2
10°	1903.4	1918.8	1927.4	1935.9	1947.9	1963.3	1963.3	1971.8	1971.8	1965.0	1963.3
12.5°	1905.1	1917.1	1925.7	1937.6	1954.7	1977.0	1988.9	2000.9	2006.0	2004.3	1999.2
15°	1941.0	1941.0	1942.8	1953.0	1965.0	1992.4	2009.5	2023.1	2031.7	2028.3	2019.7
17.5°	2035.1	2021.4	2011.2	1994.1	1997.5	2011.2	2021.4	2033.4	2035.1	2031.7	2018.0
20°	2144.6	2127.5	2101.8	2074.4	2060.8	2050.5	2043.7	2043.7	2038.5	2021.4	1999.2
22.5°	2300.2	2278.0	2242.0	2201.0	2173.6	2141.1	2101.8	2064.2	2023.1	1982.1	1934.2
25°	2515.7	2484.9	2447.3	2384.0	2325.8	2257.4	2177.1	2093.3	1995.8	1910.3	1840.1
27.5°	2732.9	2664.5	2567.0	2479.8	2372.0	2269.4	2154.8	2052.2	1927.4	1824.8	1747.8
30°	2912.4	2782.5	2642.2	2503.7	2361.8	2223.2	2086.4	1963.3	1826.5	1722.1	1646.9
32.5°	3051.0	2871.4	2676.4	2495.1	2320.7	2151.4	1994.1	1857.3	1718.7	1611.0	1530.6
35°	3179.2	2929.5	2681.6	2457.5	2242.0	2065.9	1888.0	1739.2	1592.2	1479.3	1392.1
37.5°	3275.0	2956.9	2650.8	2387.4	2139.4	1942.8	1761.5	1609.3	1458.8	1335.6	1236.5
40°	3336.6	2939.8	2584.1	2286.5	2018.0	1811.1	1626.4	1469.0	1323.7	1188.6	1068.9
42.5°	3386.1	2917.6	2517.4	2194.2	1922.2	1696.5	1506.7	1337.4	1190.3	1043.2	911.5
45°	3459.7	2934.7	2488.3	2129.2	1836.7	1599.0	1390.4	1214.2	1060.3	916.7	790.1
47.5°	3531.5	2943.2	2445.6	2048.8	1729.0	1498.1	1286.1	1115.0	957.7	826.0	709.7
50°	3596.5	2938.1	2378.9	1946.2	1624.7	1397.2	1192.0	1021.0	865.3	743.9	634.5
52.5°	3627.3	2909.0	2296.8	1847.0	1540.9	1308.3	1099.6	933.8	779.8	665.3	564.4
55°	3623.9	2833.8	2189.0	1752.9	1448.5	1214.2	1009.0	844.8	706.3	600.3	513.1
57.5°	3572.6	2717.5	2074.4	1648.6	1327.1	1097.9	903.0	743.9	627.6	538.7	465.2
60°	3464.8	2568.7	1923.9	1496.4	1174.9	954.3	771.3	634.5	540.4	472.0	424.1
62.5°	3263.0	2354.9	1735.8	1284.3	969.7	767.9	608.8	519.9	449.8	408.7	386.5
63°	3203.2	2296.8	1655.5	1233.0	921.8	725.1	574.6	482.3	431.0	395.1	374.5
65°	2905.6	2011.2	1385.2	995.3	716.6	559.2	461.7	391.6	360.8	345.5	343.7
67.5°	2353.2	1581.9	979.9	682.4	487.4	403.6	354.0	324.9	311.3	307.8	311.3
70°	1652.0	998.7	622.5	453.2	360.8	324.9	302.7	290.7	282.2	283.9	287.3
72.5°	1053.5	598.6	427.5	343.7	304.4	285.6	275.3	271.9	270.2	268.5	268.5
75°	600.3	398.5	328.4	297.6	277.0	261.7	253.1	249.7	251.4	253.1	249.7
77.5°	396.8	328.4	292.4	271.9	253.1	236.0	230.9	229.2	232.6	236.0	236.0
80°	313.0	292.4	271.9	251.4	220.6	208.6	212.1	213.8	212.1	213.8	208.6
82.5°	220.6	217.2	222.3	213.8	183.0	172.7	169.3	171.0	167.6	167.6	164.2
85°	102.6	102.6	107.7	107.7	104.3	106.0	114.6	124.8	130.0	124.8	118.0
87.5°	0.0	0.0	0.0	0.0	0.0	15.4	30.8	44.5	47.9	59.9	58.1
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: P152961

CATALOG NUMBER: TLM-E05-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0
2.5°	1821.3	1824.8	1823.0	1821.3	1824.8	1821.3	1823.0	1821.3	1821.3	1819.6	1819.6
5°	1879.5	1884.6	1874.4	1872.6	1869.2	1860.7	1860.7	1857.3	1857.3	1850.4	1845.3
7.5°	1917.1	1918.8	1910.3	1908.6	1900.0	1891.5	1884.6	1877.8	1876.1	1870.9	1860.7
10°	1953.0	1949.6	1942.8	1934.2	1925.7	1913.7	1905.1	1896.6	1894.9	1886.3	1874.4
12.5°	1983.8	1982.1	1968.4	1959.9	1946.2	1934.2	1923.9	1913.7	1908.6	1898.3	1881.2
15°	2004.3	1994.1	1977.0	1961.6	1946.2	1932.5	1920.5	1908.6	1903.4	1891.5	1874.4
17.5°	1995.8	1977.0	1954.7	1935.9	1915.4	1898.3	1888.0	1876.1	1867.5	1860.7	1836.7
20°	1965.0	1937.6	1903.4	1881.2	1853.8	1831.6	1824.8	1812.8	1805.9	1780.3	1749.5
22.5°	1884.6	1845.3	1802.5	1770.0	1739.2	1717.0	1699.9	1687.9	1670.8	1655.5	1607.6
25°	1783.7	1739.2	1694.8	1655.5	1614.4	1580.2	1549.4	1520.3	1511.8	1479.3	1433.1
27.5°	1686.2	1636.6	1592.2	1546.0	1493.0	1450.2	1397.2	1356.2	1328.8	1294.6	1251.8
30°	1581.9	1532.3	1472.5	1410.9	1349.3	1303.2	1243.3	1193.7	1159.5	1123.6	1084.3
32.5°	1450.2	1390.4	1318.5	1250.1	1193.7	1139.0	1079.1	1031.2	997.0	964.5	926.9
35°	1299.7	1221.1	1144.1	1068.9	1009.0	962.8	909.8	873.9	850.0	820.9	781.6
37.5°	1127.0	1038.1	956.0	897.8	844.8	800.4	762.7	740.5	714.9	699.5	675.5
40°	952.6	865.3	785.0	732.0	687.5	661.8	641.3	636.2	619.1	598.6	583.2
42.5°	798.7	714.9	636.2	593.4	564.4	557.5	547.3	547.3	538.7	523.3	513.1
45°	694.3	607.1	538.7	507.9	492.5	490.8	485.7	485.7	484.0	477.1	465.2
47.5°	619.1	540.4	487.4	468.6	465.2	461.7	456.6	454.9	453.2	448.1	441.2
50°	550.7	484.0	449.8	441.2	442.9	437.8	432.7	427.5	425.8	420.7	413.9
52.5°	487.4	439.5	417.3	412.2	412.2	412.2	408.7	408.7	405.3	403.6	396.8
55°	451.5	415.6	403.6	401.9	400.2	398.5	395.1	395.1	391.6	389.9	381.4
57.5°	420.7	398.5	391.6	388.2	386.5	383.1	381.4	381.4	381.4	381.4	371.1
60°	396.8	386.5	384.8	381.4	379.7	372.8	369.4	367.7	369.4	371.1	360.8
62.5°	371.1	369.4	367.7	364.3	362.6	355.7	350.6	347.2	350.6	354.0	352.3
63°	364.3	362.6	362.6	360.8	359.1	350.6	345.5	342.0	345.5	348.9	348.9
65°	340.3	342.0	342.0	340.3	338.6	333.5	326.6	323.2	324.9	330.1	331.8
67.5°	314.7	316.4	314.7	316.4	314.7	311.3	306.1	302.7	301.0	302.7	304.4
70°	290.7	294.2	292.4	290.7	289.0	289.0	285.6	280.5	278.8	277.0	277.0
72.5°	270.2	270.2	266.8	266.8	265.1	265.1	261.7	256.5	254.8	254.8	251.4
75°	248.0	248.0	242.8	242.8	239.4	241.1	237.7	232.6	230.9	230.9	229.2
77.5°	234.3	229.2	220.6	218.9	217.2	217.2	215.5	210.4	208.6	208.6	206.9
80°	206.9	196.7	188.1	186.4	188.1	191.5	191.5	188.1	188.1	188.1	188.1
82.5°	160.8	157.3	152.2	148.8	148.8	153.9	160.8	164.2	167.6	171.0	171.0
85°	118.0	119.7	118.0	112.9	111.2	116.3	123.1	130.0	131.7	138.5	136.8
87.5°	63.3	65.0	59.9	58.1	63.3	66.7	73.5	75.2	78.7	80.4	82.1
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: P152961

CATALOG NUMBER: TLM-E05-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0
2.5°	1817.9	1816.2	1817.9	1814.5	1814.5	1811.1	1807.7	1805.9	1802.5	1800.8	1797.4
5°	1848.7	1843.6	1838.4	1836.7	1829.9	1823.0	1817.9	1809.4	1802.5	1790.6	1787.1
7.5°	1869.2	1857.3	1850.4	1848.7	1838.4	1833.3	1821.3	1811.1	1800.8	1785.4	1780.3
10°	1877.8	1865.8	1853.8	1848.7	1836.7	1828.2	1816.2	1800.8	1792.3	1776.9	1773.5
12.5°	1888.0	1865.8	1847.0	1833.3	1816.2	1797.4	1785.4	1776.9	1764.9	1756.4	1752.9
15°	1869.2	1840.1	1811.1	1785.4	1758.1	1737.5	1725.6	1711.9	1698.2	1693.1	1693.1
17.5°	1817.9	1780.3	1730.7	1698.2	1669.1	1646.9	1631.5	1617.8	1616.1	1609.3	1612.7
20°	1711.9	1662.3	1614.4	1590.5	1573.4	1559.7	1544.3	1537.4	1532.3	1522.1	1518.6
22.5°	1564.8	1523.8	1489.6	1472.5	1458.8	1441.7	1428.0	1407.5	1402.3	1392.1	1387.0
25°	1402.3	1369.9	1340.8	1328.8	1320.3	1296.3	1287.8	1260.4	1241.6	1229.6	1236.5
27.5°	1239.9	1215.9	1188.6	1173.2	1168.1	1145.8	1137.3	1106.5	1091.1	1091.1	1074.0
30°	1072.3	1050.0	1032.9	1015.8	1012.4	985.1	962.8	950.9	933.8	926.9	914.9
32.5°	914.9	892.7	879.0	870.5	856.8	834.6	812.3	791.8	764.4	754.2	749.1
35°	769.6	752.5	735.4	728.5	709.7	685.8	658.4	641.3	608.8	596.9	591.7
37.5°	658.4	637.9	625.9	607.1	588.3	562.6	542.1	526.7	514.8	509.6	509.6
40°	569.5	554.1	540.4	525.0	509.6	496.0	485.7	482.3	480.6	480.6	484.0
42.5°	502.8	489.1	482.3	473.7	468.6	468.6	466.9	468.6	470.3	472.0	477.1
45°	458.3	449.8	446.4	444.6	448.1	451.5	453.2	456.6	463.5	466.9	468.6
47.5°	434.4	427.5	425.8	427.5	432.7	439.5	446.4	451.5	456.6	458.3	460.0
50°	410.4	401.9	398.5	401.9	408.7	419.0	424.1	432.7	436.1	439.5	436.1
52.5°	389.9	383.1	381.4	381.4	388.2	395.1	401.9	408.7	410.4	410.4	408.7
55°	372.8	367.7	362.6	366.0	371.1	377.9	388.2	393.3	396.8	398.5	398.5
57.5°	359.1	354.0	348.9	352.3	357.4	364.3	374.5	379.7	383.1	388.2	389.9
60°	348.9	342.0	336.9	342.0	347.2	357.4	366.0	371.1	379.7	381.4	381.4
62.5°	338.6	331.8	323.2	328.4	328.4	333.5	342.0	348.9	357.4	360.8	360.8
63°	336.9	330.1	321.5	324.9	324.9	328.4	335.2	342.0	352.3	355.7	354.0
65°	323.2	321.5	313.0	313.0	309.5	313.0	318.1	324.9	330.1	335.2	335.2
67.5°	301.0	299.3	297.6	297.6	297.6	301.0	304.4	309.5	314.7	318.1	316.4
70°	275.3	275.3	275.3	277.0	277.0	280.5	282.2	280.5	285.6	289.0	287.3
72.5°	253.1	251.4	249.7	253.1	251.4	251.4	254.8	253.1	258.2	258.2	259.9
75°	229.2	227.5	227.5	229.2	225.7	222.3	224.0	224.0	225.7	225.7	229.2
77.5°	208.6	208.6	208.6	206.9	203.5	201.8	200.1	200.1	200.1	200.1	201.8
80°	189.8	189.8	189.8	188.1	184.7	181.3	177.9	176.1	174.4	165.9	165.9
82.5°	171.0	171.0	171.0	171.0	169.3	165.9	160.8	147.1	140.2	133.4	135.1
85°	135.1	138.5	141.9	147.1	145.4	145.4	135.1	118.0	107.7	100.9	102.6
87.5°	87.2	77.0	77.0	75.2	71.8	68.4	68.4	58.1	47.9	42.8	44.5
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: P152961

CATALOG NUMBER: TLM-E05-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0
2.5°	1797.4	1794.0	1790.6	1790.6	1785.4	1785.4	1782.0	1788.8	1782.0	1776.9	1776.9
5°	1783.7	1780.3	1770.0	1768.3	1761.5	1761.5	1761.5	1758.1	1758.1	1754.6	1752.9
7.5°	1775.2	1766.6	1758.1	1752.9	1752.9	1749.5	1756.4	1752.9	1754.6	1754.6	1756.4
10°	1768.3	1761.5	1758.1	1756.4	1756.4	1761.5	1766.6	1768.3	1766.6	1768.3	1768.3
12.5°	1751.2	1754.6	1756.4	1763.2	1771.7	1782.0	1794.0	1795.7	1799.1	1799.1	1802.5
15°	1696.5	1705.0	1715.3	1732.4	1754.6	1776.9	1799.1	1817.9	1835.0	1843.6	1850.4
17.5°	1619.5	1628.1	1646.9	1665.7	1694.8	1727.3	1764.9	1797.4	1833.3	1865.8	1898.3
20°	1515.2	1528.9	1534.0	1568.2	1602.4	1646.9	1691.4	1742.7	1804.2	1865.8	1929.1
22.5°	1380.1	1395.5	1419.4	1446.8	1482.7	1537.4	1590.5	1670.8	1752.9	1840.1	1939.3
25°	1229.6	1246.7	1267.2	1296.3	1332.2	1390.4	1467.3	1552.8	1653.7	1768.3	1891.5
27.5°	1074.0	1091.1	1108.2	1128.7	1169.8	1231.3	1322.0	1410.9	1522.1	1646.9	1790.6
30°	918.4	920.1	930.3	956.0	998.7	1079.1	1145.8	1257.0	1373.3	1505.0	1670.8
32.5°	747.3	745.6	757.6	779.8	820.9	897.8	979.9	1087.7	1202.3	1368.1	1539.2
35°	595.1	595.1	617.4	639.6	685.8	740.5	812.3	908.1	1043.2	1197.1	1368.1
37.5°	514.8	526.7	540.4	562.6	598.6	641.3	704.6	788.4	894.4	1041.5	1198.8
40°	489.1	496.0	507.9	528.4	559.2	598.6	644.7	708.0	790.1	908.1	1051.8
42.5°	478.8	480.6	487.4	502.8	530.2	569.5	617.4	673.8	735.4	819.2	944.0
45°	468.6	466.9	470.3	482.3	504.5	549.0	603.7	665.3	726.8	796.9	899.6
47.5°	460.0	460.0	460.0	465.2	485.7	530.2	593.4	665.3	738.8	817.5	918.4
50°	436.1	434.4	434.4	437.8	453.2	501.1	576.3	663.5	759.3	861.9	976.5
52.5°	408.7	408.7	410.4	412.2	425.8	473.7	557.5	663.5	783.3	920.1	1063.7
55°	400.2	401.9	403.6	401.9	412.2	453.2	537.0	653.3	793.5	966.2	1157.8
57.5°	393.3	396.8	396.8	395.1	401.9	436.1	516.5	632.8	785.0	983.4	1224.5
60°	383.1	383.1	383.1	377.9	381.4	412.2	485.7	600.3	757.6	968.0	1234.7
62.5°	360.8	360.8	357.4	355.7	354.0	377.9	444.6	552.4	708.0	926.9	1209.1
63°	355.7	354.0	354.0	348.9	348.9	371.1	436.1	545.5	694.3	916.7	1198.8
65°	336.9	336.9	336.9	333.5	331.8	348.9	401.9	497.7	641.3	868.8	1147.5
67.5°	316.4	318.1	314.7	313.0	311.3	321.5	362.6	437.8	559.2	767.9	1051.8
70°	287.3	289.0	289.0	287.3	285.6	292.4	318.1	376.2	463.5	639.6	896.1
72.5°	261.7	265.1	265.1	268.5	268.5	273.6	283.9	313.0	371.1	499.4	704.6
75°	234.3	236.0	239.4	242.8	239.4	237.7	239.4	261.7	290.7	369.4	502.8
77.5°	210.4	215.5	215.5	213.8	208.6	205.2	205.2	215.5	239.4	280.5	359.1
80°	174.4	183.0	184.7	179.6	174.4	174.4	177.9	184.7	200.1	230.9	271.9
82.5°	140.2	148.8	150.5	152.2	150.5	155.6	155.6	157.3	165.9	189.8	222.3
85°	107.7	114.6	119.7	121.4	123.1	124.8	123.1	114.6	119.7	135.1	150.5
87.5°	47.9	49.6	46.2	47.9	46.2	47.9	49.6	41.0	39.3	53.0	54.7
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: P152961

CATALOG NUMBER: TLM-E05-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0	1794.0
2.5°	1775.2	1775.2	1776.9	1773.5	1773.5	1775.2	1770.0
5°	1747.8	1754.6	1754.6	1754.6	1751.2	1754.6	1756.4
7.5°	1754.6	1759.8	1763.2	1763.2	1761.5	1768.3	1773.5
10°	1763.2	1771.7	1775.2	1775.2	1775.2	1783.7	1795.7
12.5°	1795.7	1802.5	1807.7	1807.7	1811.1	1821.3	1835.0
15°	1855.5	1864.1	1864.1	1862.4	1872.6	1884.6	1900.0
17.5°	1922.2	1946.2	1958.2	1956.4	1965.0	1980.4	1997.5
20°	1985.5	2052.2	2081.3	2101.8	2110.4	2130.9	2136.0
22.5°	2038.5	2149.7	2230.1	2298.5	2331.0	2351.5	2375.4
25°	2019.7	2170.2	2313.9	2454.1	2553.3	2654.2	2696.9
27.5°	1942.8	2130.9	2319.0	2524.2	2703.8	2883.4	3013.3
30°	1848.7	2074.4	2327.5	2618.3	2902.2	3177.5	3396.4
32.5°	1741.0	2021.4	2346.4	2705.5	3078.3	3439.2	3755.5
35°	1605.9	1920.5	2300.2	2714.0	3153.6	3591.4	4001.8
37.5°	1434.8	1783.7	2192.4	2652.5	3157.0	3658.1	4148.9
40°	1263.8	1611.0	2055.6	2563.6	3112.5	3673.5	4241.2
42.5°	1144.1	1457.1	1917.1	2450.7	3040.7	3649.5	4285.7
45°	1062.0	1345.9	1794.0	2348.1	2963.7	3606.8	4292.5
47.5°	1055.2	1298.0	1713.6	2272.8	2902.2	3569.1	4292.5
50°	1113.3	1323.7	1686.2	2235.2	2876.5	3557.2	4296.0
52.5°	1222.8	1426.3	1735.8	2264.3	2897.0	3572.6	4311.4
55°	1354.5	1581.9	1869.2	2365.2	2984.3	3623.9	4345.6
57.5°	1474.2	1761.5	2096.7	2560.1	3143.3	3753.8	4441.3
60°	1544.3	1915.4	2337.8	2833.8	3415.2	4012.1	4632.9
62.5°	1552.8	2000.9	2551.6	3131.3	3745.3	4307.9	4939.0
63°	1546.0	2007.7	2578.9	3187.8	3815.4	4381.5	5045.0
65°	1508.4	2009.5	2655.9	3386.1	4058.2	4691.0	5340.9
67.5°	1412.6	1954.7	2683.3	3541.8	4364.4	5098.0	5893.3
70°	1246.7	1799.1	2602.9	3545.2	4482.4	5325.5	6242.1
72.5°	1002.2	1503.2	2255.7	3225.4	4171.1	5101.5	6151.5
75°	733.7	1104.8	1705.0	2498.6	3403.2	4246.4	5269.1
77.5°	487.4	714.9	1149.2	1780.3	2440.4	3056.1	3793.2
80°	335.2	442.9	672.1	1070.6	1493.0	1792.3	2416.5
82.5°	246.3	292.4	372.8	547.3	718.3	884.2	1262.1
85°	153.9	167.6	186.4	270.2	386.5	521.6	786.7
87.5°	41.0	42.8	39.3	53.0	83.8	80.4	88.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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