

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: P155619

Luminaire Tested: **TLM-E06-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155619
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-T3-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16900.2 lumens
Efficiency: N/A
Efficacy: 112.3 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

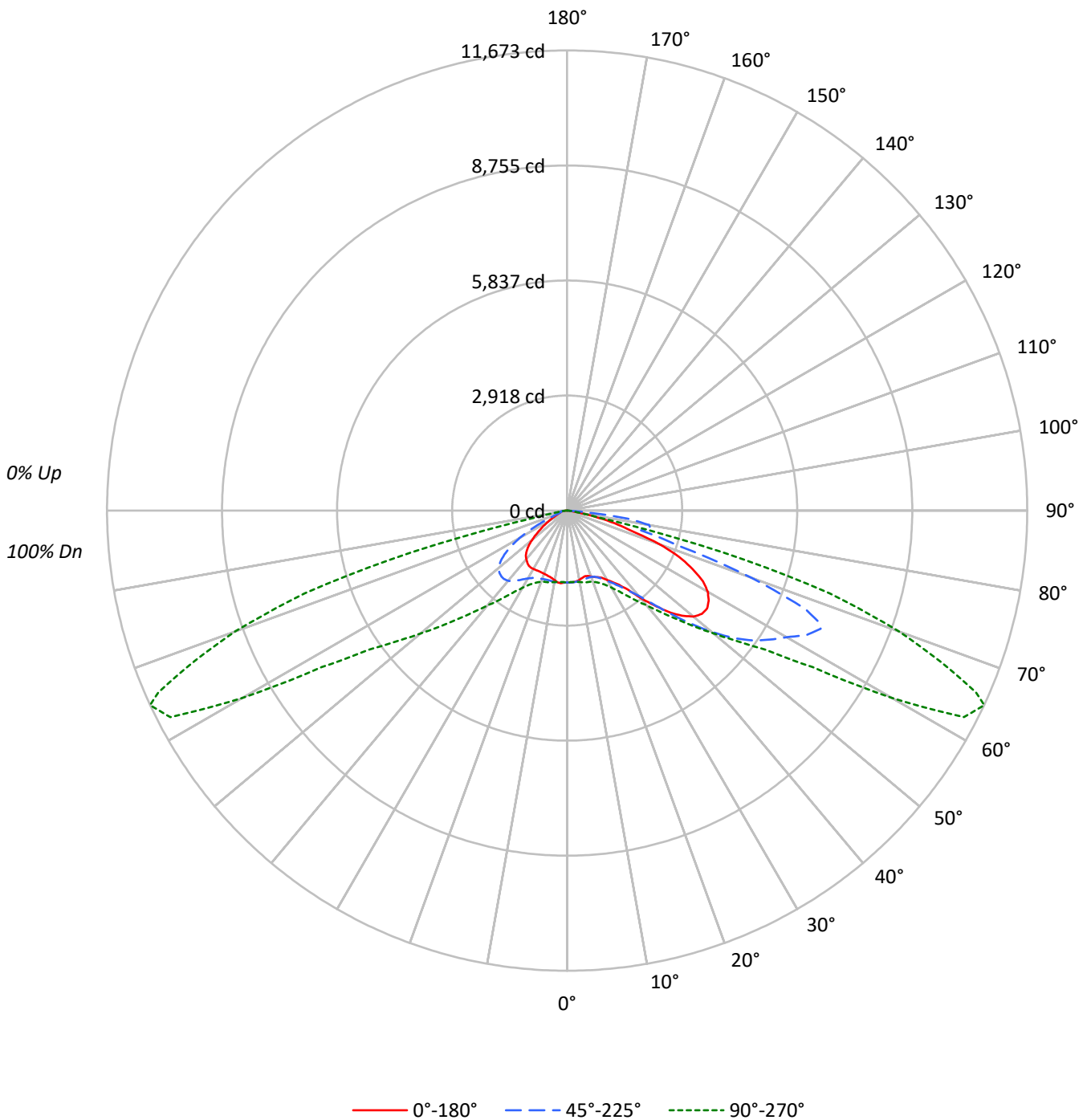
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	19603	19603	19603
5°	19678	19659	19974
10°	19507	20106	19626
15°	19216	20987	19339
20°	20401	22033	19522
25°	22129	24168	20133
30°	25225	28108	21274
35°	30244	34468	22371
40°	40503	44122	22639
45°	55335	58756	22162
50°	70019	81123	19485
55°	81348	115492	15495
60°	88639	204254	11759
65°	89467	297296	8886
70°	78415	281583	7415
75°	51811	170401	7598
80°	18912	17325	8945
85°	3162	11510	9930



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	1.0
10°-20°	514.8	3.0
20°-30°	884.8	5.2
30°-40°	1436.6	8.5
40°-50°	2398.4	14.2
50°-60°	3776.7	22.3
60°-70°	5149.9	30.5
70°-80°	2229.3	13.2
80°-90°	335.2	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°	1574.0	9.3
0°-40°	3010.6	17.8
0°-60°	9185.7	54.4
0°-90°	16900.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16900.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1821	1821	1821	1821	1821	
5°	1821	1825	1819	1841	1849	173
15°	1724	1796	1883	1828	1735	496
25°	1863	1874	2035	1889	1695	873
35°	2302	2353	2623	2159	1702	1491
45°	3635	3683	3860	2362	1456	2794
55°	4335	5741	6154	1945	826	3823
65°	3513	7097	11673	683	349	3411
75°	1246	1940	4097	184	183	1332
85°	26	431	93	128	80	67
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°	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2
2.5°	1828.5	1835.8	1828.5	1830.4	1832.2	1830.4	1828.5	1828.5	1823.0	1826.7	1830.4
5°	1821.2	1826.7	1824.9	1826.7	1828.5	1826.7	1824.9	1826.7	1823.0	1824.9	1830.4
7.5°	1812.1	1810.3	1812.1	1815.7	1819.4	1819.4	1819.4	1821.2	1819.4	1819.4	1824.9
10°	1784.7	1786.5	1790.2	1795.6	1797.5	1803.0	1803.0	1808.4	1810.3	1813.9	1821.2
12.5°	1750.0	1751.8	1755.5	1759.1	1768.2	1777.4	1777.4	1790.2	1795.6	1804.8	1817.6
15°	1724.4	1726.2	1729.9	1733.5	1740.8	1750.0	1755.5	1770.1	1779.2	1795.6	1813.9
17.5°	1739.0	1737.2	1740.8	1742.7	1742.7	1750.0	1750.0	1760.9	1771.9	1786.5	1810.3
20°	1781.0	1781.0	1784.7	1784.7	1782.9	1786.5	1779.2	1779.2	1781.0	1788.3	1804.8
22.5°	1823.0	1821.2	1828.5	1832.2	1834.0	1839.5	1832.2	1830.4	1821.2	1815.7	1821.2
25°	1863.2	1861.4	1870.5	1876.0	1885.2	1890.6	1890.6	1890.6	1883.3	1874.2	1868.7
27.5°	1925.3	1925.3	1934.5	1940.0	1947.3	1958.2	1963.7	1963.7	1965.5	1952.7	1943.6
30°	2029.5	2031.3	2033.1	2040.4	2047.7	2051.4	2058.7	2064.2	2069.7	2062.3	2047.7
32.5°	2153.7	2142.7	2142.7	2153.7	2162.8	2173.8	2177.4	2184.7	2195.7	2190.2	2188.4
35°	2301.6	2298.0	2294.3	2298.0	2308.9	2321.7	2336.4	2349.1	2341.8	2352.8	2347.3
37.5°	2520.8	2524.5	2526.3	2526.3	2524.5	2528.2	2535.5	2548.2	2544.6	2548.2	2555.6
40°	2882.5	2869.7	2857.0	2858.8	2840.5	2844.2	2814.9	2827.7	2829.6	2816.8	2822.3
42.5°	3244.2	3251.5	3257.0	3271.6	3258.8	3251.5	3224.1	3224.1	3209.5	3196.7	3193.1
45°	3635.1	3649.7	3651.6	3680.8	3669.8	3693.6	3713.7	3708.2	3684.5	3682.6	3657.1
47.5°	3947.5	3971.2	3996.8	4031.5	4058.9	4111.9	4174.0	4205.1	4223.3	4237.9	4208.7
50°	4181.3	4192.3	4258.0	4312.8	4373.1	4460.8	4546.7	4658.1	4747.6	4789.6	4829.8
52.5°	4307.4	4334.8	4406.0	4491.9	4597.8	4729.3	4868.2	5045.3	5198.8	5301.1	5392.4
55°	4334.8	4362.2	4442.5	4552.1	4696.4	4873.6	5072.7	5313.9	5544.0	5741.3	5933.1
57.5°	4258.0	4289.1	4374.9	4501.0	4670.9	4886.4	5136.7	5452.7	5770.5	6090.2	6373.4
60°	4117.4	4155.7	4234.3	4358.5	4546.7	4789.6	5089.2	5485.6	5931.3	6420.9	6963.4
62.5°	3885.4	3925.6	3998.6	4135.7	4329.3	4597.8	4944.9	5438.1	6068.3	6839.2	7801.8
65°	3512.7	3531.0	3620.5	3759.4	3931.1	4227.0	4608.8	5204.3	6024.5	7096.7	8422.9
66°	3344.7	3375.7	3430.5	3542.0	3706.4	3984.0	4367.6	4972.3	5858.2	7007.2	8406.5
67.5°	3081.6	3105.4	3141.9	3216.8	3317.3	3521.9	3885.4	4457.1	5350.4	6554.2	8057.6
70°	2491.6	2502.6	2551.9	2577.5	2612.2	2679.8	2811.3	3140.1	3836.1	4966.8	6503.1
72.5°	1698.8	1729.9	1782.9	1855.9	1950.9	2042.3	2104.4	2146.4	2296.2	2962.9	4332.9
75°	1245.8	1278.7	1346.3	1443.1	1609.3	1799.3	1996.6	2087.9	2025.8	1940.0	2413.1
77.5°	723.4	767.2	823.8	917.0	1070.4	1322.5	1660.5	1960.0	2162.8	2175.6	2066.0
80°	305.1	310.5	345.2	392.7	487.7	664.9	928.0	1359.1	1808.4	2111.7	2182.9
82.5°	69.4	85.9	109.6	129.7	158.9	219.2	325.2	540.7	977.3	1532.6	1998.4
85°	25.6	25.6	34.7	51.1	58.5	65.8	85.9	137.0	233.8	431.1	898.7
87.5°	0.0	1.8	3.7	3.7	7.3	9.1	14.6	20.1	18.3	16.4	54.8
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2
2.5°	1826.7	1824.9	1821.2	1821.2	1821.2	1821.2	1817.6	1819.4	1815.7	1817.6	1817.6
5°	1824.9	1824.9	1823.0	1819.4	1821.2	1821.2	1823.0	1819.4	1819.4	1821.2	1819.4
7.5°	1824.9	1823.0	1823.0	1823.0	1824.9	1823.0	1824.9	1824.9	1824.9	1826.7	1826.7
10°	1824.9	1824.9	1828.5	1830.4	1830.4	1832.2	1837.7	1837.7	1839.5	1841.3	1845.0
12.5°	1826.7	1834.0	1839.5	1845.0	1846.8	1850.4	1859.6	1859.6	1863.2	1868.7	1870.5
15°	1828.5	1839.5	1850.4	1854.1	1857.8	1865.1	1874.2	1877.8	1883.3	1888.8	1892.5
17.5°	1826.7	1841.3	1854.1	1859.6	1865.1	1874.2	1885.2	1888.8	1896.1	1903.4	1910.7
20°	1824.9	1845.0	1865.1	1872.4	1879.7	1892.5	1907.1	1916.2	1923.5	1934.5	1941.8
22.5°	1835.8	1859.6	1887.0	1897.9	1910.7	1927.2	1947.3	1958.2	1967.4	1978.3	1983.8
25°	1870.5	1888.8	1921.7	1940.0	1956.4	1983.8	2011.2	2024.0	2034.9	2044.1	2045.9
27.5°	1929.0	1934.5	1974.7	1998.4	2022.2	2066.0	2098.9	2108.0	2128.1	2135.4	2133.6
30°	2024.0	2014.9	2047.7	2084.3	2119.0	2179.3	2219.4	2243.2	2261.5	2261.5	2246.8
32.5°	2161.0	2146.4	2155.5	2197.5	2237.7	2325.4	2372.9	2403.9	2416.7	2413.1	2382.0
35°	2340.0	2330.9	2325.4	2358.3	2422.2	2524.5	2586.6	2603.0	2623.1	2619.5	2579.3
37.5°	2551.9	2544.6	2544.6	2583.0	2645.1	2796.7	2864.3	2875.2	2873.4	2844.2	2769.3
40°	2802.2	2798.5	2782.1	2804.0	2857.0	3054.2	3145.6	3160.2	3140.1	3092.6	3004.9
42.5°	3162.0	3140.1	3089.0	3101.7	3141.9	3333.7	3452.5	3492.7	3472.6	3425.1	3282.6
45°	3631.5	3607.7	3521.9	3510.9	3532.8	3700.9	3854.3	3863.5	3859.8	3799.5	3631.5
47.5°	4183.1	4146.6	4055.3	4026.0	4018.7	4174.0	4322.0	4336.6	4327.5	4237.9	4013.3
50°	4780.5	4727.5	4667.2	4647.1	4617.9	4729.3	4879.1	4880.9	4844.4	4720.2	4510.1
52.5°	5418.0	5399.7	5388.8	5368.7	5355.9	5452.7	5544.0	5489.2	5434.4	5304.7	5122.1
55°	6061.0	6135.9	6212.6	6219.9	6241.8	6346.0	6344.1	6194.3	6154.2	6082.9	5902.1
57.5°	6744.2	7021.8	7263.0	7337.9	7410.9	7604.6	7586.3	7438.3	7387.2	7299.5	7149.7
60°	7674.0	8422.9	9118.9	9285.1	9400.2	9632.2	9610.3	9381.9	9487.9	9480.6	9286.9
62.5°	8976.4	10222.2	11265.3	11521.0	11601.4	11626.9	11488.1	11241.5	11345.6	11462.5	10867.0
65°	9858.7	11323.7	12394.2	12591.4	12602.4	12297.3	11988.6	11698.2	11672.6	11572.1	10720.9
66°	9878.8	11378.5	12452.6	12644.4	12576.8	12160.3	11769.4	11477.2	11351.1	11130.1	10247.8
67.5°	9524.4	11036.9	12193.2	12396.0	12248.0	11658.0	11119.1	10742.8	10496.2	10138.2	9360.0
70°	7999.1	9498.8	10923.7	11301.8	11349.3	10468.8	9721.7	9279.6	8947.2	8455.8	7785.4
72.5°	5947.7	7303.1	8559.9	8921.6	9106.1	8402.8	7772.6	7436.5	6981.6	6464.7	5987.9
75°	3728.3	4685.5	5527.6	5781.5	5608.0	5063.6	4685.5	4544.8	4097.3	3788.6	3571.2
77.5°	2131.8	2431.3	2498.9	2402.1	2197.5	1682.4	1196.5	885.9	769.0	851.2	938.9
80°	2080.6	1907.1	1519.8	1337.1	1211.1	833.0	489.6	336.1	279.5	286.8	310.5
82.5°	2254.1	2418.6	1991.1	1623.9	1362.7	920.7	507.8	270.4	182.7	215.6	243.0
85°	1465.0	2038.6	1835.8	1547.2	1253.1	787.3	418.3	140.7	93.2	122.4	168.1
87.5°	148.0	162.6	138.8	188.2	140.7	65.8	32.9	20.1	18.3	21.9	32.9
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°	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2	1821.2
2.5°	1819.4	1819.4	1821.2	1823.0	1824.9	1826.7	1826.7	1826.7	1826.7	1830.4	1828.5
5°	1823.0	1826.7	1830.4	1832.2	1835.8	1835.8	1841.3	1839.5	1839.5	1845.0	1846.8
7.5°	1830.4	1835.8	1843.1	1841.3	1848.6	1846.8	1850.4	1850.4	1845.0	1846.8	1843.1
10°	1846.8	1854.1	1857.8	1852.3	1854.1	1846.8	1845.0	1835.8	1824.9	1819.4	1812.1
12.5°	1874.2	1881.5	1881.5	1872.4	1861.4	1845.0	1832.2	1812.1	1795.6	1786.5	1777.4
15°	1897.9	1905.2	1903.4	1888.8	1872.4	1846.8	1828.5	1804.8	1781.0	1766.4	1757.3
17.5°	1916.2	1919.9	1914.4	1894.3	1876.0	1852.3	1834.0	1808.4	1781.0	1762.8	1746.3
20°	1943.6	1940.0	1927.2	1901.6	1881.5	1859.6	1845.0	1823.0	1792.0	1768.2	1744.5
22.5°	1983.8	1969.2	1945.4	1918.0	1897.9	1877.8	1863.2	1839.5	1808.4	1779.2	1751.8
25°	2036.8	2007.5	1974.7	1945.4	1927.2	1905.2	1888.8	1863.2	1830.4	1797.5	1764.6
27.5°	2113.5	2062.3	2020.3	1994.8	1974.7	1947.3	1927.2	1894.3	1859.6	1821.2	1784.7
30°	2199.3	2129.9	2089.7	2069.7	2047.7	2018.5	1987.5	1945.4	1905.2	1863.2	1819.4
32.5°	2310.8	2226.7	2188.4	2168.3	2139.1	2102.5	2066.0	2018.5	1961.9	1907.1	1854.1
35°	2456.9	2371.1	2330.9	2299.8	2259.6	2212.1	2159.2	2095.2	2018.5	1945.4	1877.8
37.5°	2614.0	2520.8	2482.5	2449.6	2389.3	2327.2	2252.3	2159.2	2055.0	1958.2	1874.2
40°	2813.1	2727.3	2677.9	2621.3	2550.1	2442.3	2325.4	2190.2	2056.9	1938.1	1839.5
42.5°	3065.2	2979.3	2906.3	2816.8	2692.6	2526.3	2360.1	2184.7	2024.0	1888.8	1782.9
45°	3399.5	3295.4	3169.3	3012.2	2811.3	2579.3	2361.9	2150.0	1961.9	1812.1	1698.8
47.5°	3808.7	3649.7	3443.3	3178.5	2889.8	2593.9	2332.7	2080.6	1865.1	1702.5	1576.4
50°	4294.6	4044.3	3704.5	3315.5	2930.0	2572.0	2259.6	1976.5	1728.1	1554.5	1404.7
52.5°	4849.9	4440.7	3940.2	3414.1	2928.2	2498.9	2135.4	1819.4	1549.0	1355.4	1212.9
55°	5502.0	4893.7	4183.1	3487.2	2877.1	2363.8	1945.4	1598.4	1328.0	1149.0	1017.5
57.5°	6457.4	5628.1	4606.9	3600.4	2774.8	2155.5	1687.9	1333.5	1096.0	926.1	814.7
60°	8203.7	6853.8	5370.5	3828.8	2617.7	1850.4	1386.5	1050.4	851.2	714.2	639.3
62.5°	9518.9	7801.8	5783.3	3777.6	2301.6	1474.1	1028.4	765.4	626.6	533.4	485.9
65°	9330.8	7507.7	5343.1	3253.4	1804.8	1039.4	683.2	520.6	431.1	387.3	359.9
66°	8905.2	7124.1	4961.3	2928.2	1560.0	864.0	562.6	436.6	370.8	339.8	321.5
67.5°	8097.8	6411.7	4278.1	2400.3	1198.3	626.6	423.8	345.2	301.4	288.6	275.8
70°	6731.4	5112.9	3003.1	1397.4	611.9	348.9	268.5	241.1	230.2	228.3	224.7
72.5°	5158.6	3618.7	1768.2	661.3	317.8	232.0	208.2	199.1	195.5	195.5	197.3
75°	3162.0	2033.1	781.8	323.3	222.9	195.5	184.5	180.8	179.0	180.8	179.0
77.5°	1055.8	646.7	334.3	244.8	202.8	180.8	173.5	169.9	169.9	169.9	169.9
80°	323.3	281.3	255.7	226.5	191.8	171.7	160.7	158.9	160.7	162.6	157.1
82.5°	243.0	230.2	215.6	200.9	173.5	153.4	149.8	149.8	149.8	144.3	137.0
85°	179.0	177.2	146.1	137.0	127.9	127.9	127.9	127.9	122.4	113.3	105.9
87.5°	32.9	31.1	32.9	34.7	51.1	54.8	54.8	58.5	63.9	60.3	60.3
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: P155619

CATALOG NUMBER: TLM-E06-LED-E1-T3-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1821.2	1821.2	1821.2	1821.2	1821.2
2.5°	1828.5	1826.7	1832.2	1828.5	1830.4
5°	1845.0	1843.1	1846.8	1843.1	1848.6
7.5°	1839.5	1835.8	1834.0	1835.8	1837.7
10°	1801.1	1797.5	1795.6	1793.8	1795.6
12.5°	1768.2	1760.9	1760.9	1757.3	1759.1
15°	1744.5	1739.0	1737.2	1733.5	1735.4
17.5°	1733.5	1724.4	1720.8	1717.1	1717.1
20°	1726.2	1715.3	1709.8	1706.1	1704.3
22.5°	1726.2	1709.8	1702.5	1698.8	1697.0
25°	1733.5	1713.4	1702.5	1697.0	1695.2
27.5°	1748.2	1722.6	1709.8	1702.5	1702.5
30°	1773.7	1740.8	1722.6	1713.4	1711.6
32.5°	1799.3	1755.5	1729.9	1718.9	1715.3
35°	1812.1	1755.5	1724.4	1706.1	1702.5
37.5°	1797.5	1731.7	1693.4	1666.0	1660.5
40°	1751.8	1682.4	1640.4	1614.8	1611.2
42.5°	1691.5	1623.9	1574.6	1556.3	1550.9
45°	1609.3	1528.9	1479.6	1454.1	1455.9
47.5°	1468.7	1386.5	1342.6	1318.9	1322.5
50°	1302.4	1222.1	1183.7	1158.1	1163.6
52.5°	1119.8	1046.7	1010.2	997.4	993.7
55°	928.0	871.3	845.8	831.1	825.7
57.5°	752.6	712.4	694.1	675.9	677.7
60°	593.7	573.6	568.1	548.0	546.2
62.5°	467.6	454.8	449.4	434.8	436.6
65°	354.4	350.7	354.4	345.2	348.9
66°	319.7	321.5	321.5	316.0	319.7
67.5°	275.8	279.5	285.0	279.5	283.1
70°	228.3	232.0	235.6	235.6	235.6
72.5°	199.1	202.8	204.6	204.6	204.6
75°	182.7	184.5	186.3	182.7	182.7
77.5°	171.7	171.7	168.1	166.2	164.4
80°	155.3	153.4	148.0	144.3	144.3
82.5°	129.7	126.0	122.4	116.9	116.9
85°	98.6	95.0	91.3	84.0	80.4
87.5°	51.1	53.0	51.1	42.0	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)