

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: P152959

Luminaire Tested: **TLM-E05-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152959
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12706.8 lumens
Efficiency: N/A
Efficacy: 99.8 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

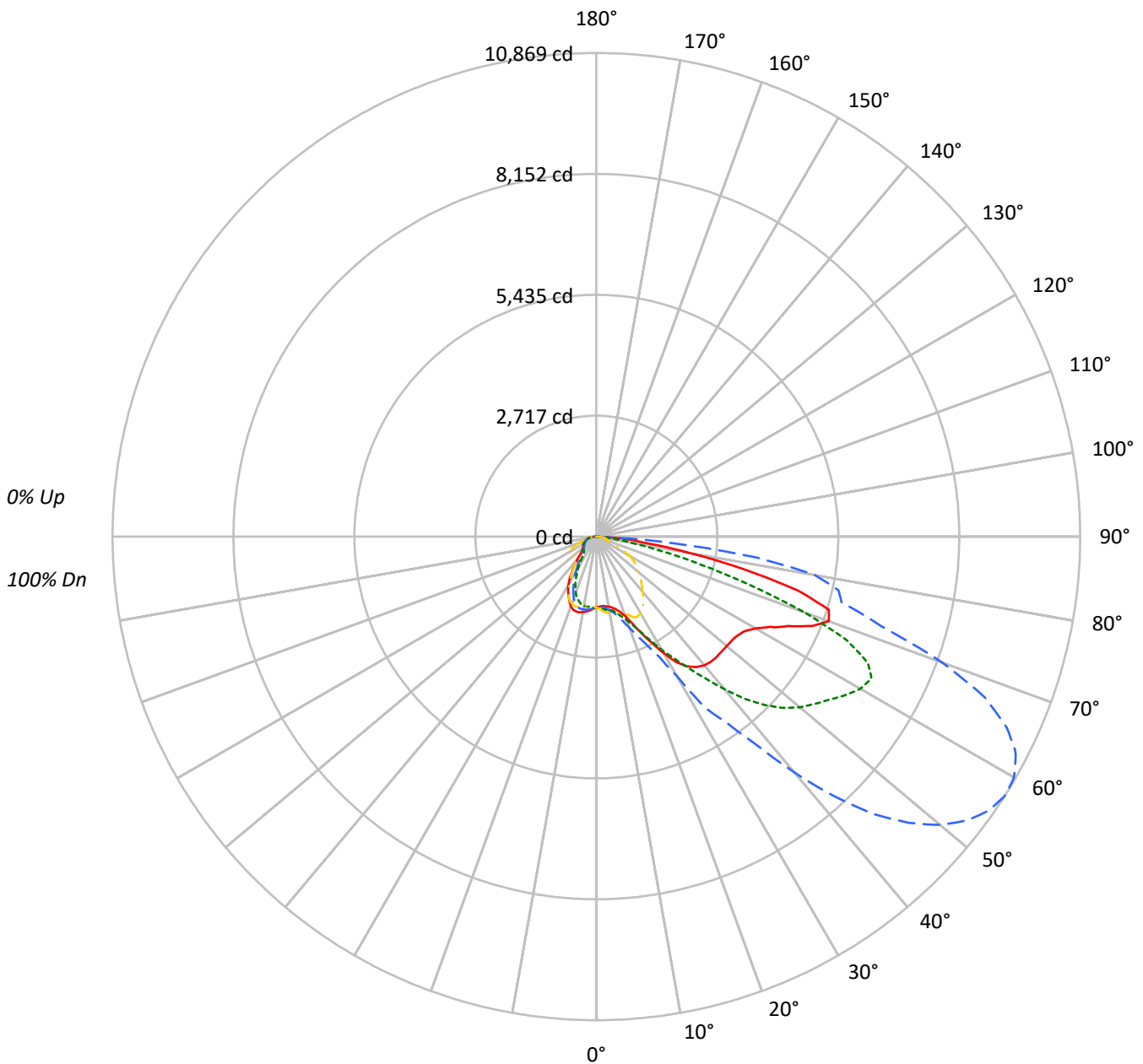
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



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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°	20708	20708	20708	20708
5°	20353	21244	21700	20709
10°	21049	22090	22672	20788
15°	22706	23872	23442	20233
20°	26240	27709	23110	18656
25°	34351	33937	21085	15749
30°	45272	44041	18807	12195
35°	56394	56996	15062	8339
40°	63911	75791	11029	7293
45°	70075	98161	8292	7650
50°	77149	120331	7923	7832
55°	87456	144383	8088	8020
60°	106960	177555	8806	8806
65°	145882	206607	9295	9157
70°	210678	188052	9813	9696
75°	235006	121734	10833	10222
80°	160636	59119	12390	11031
85°	104188	28763	14954	13585



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.2
10°-20°	484.1	3.8
20°-30°	860.1	6.8
30°-40°	1354.4	10.7
40°-50°	1993.2	15.7
50°-60°	2647.6	20.8
60°-70°	2916.3	23.0
70°-80°	1829.7	14.4
80°-90°	466.0	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°	1499.6	11.8
0°-40°	2854.0	22.5
0°-60°	7494.8	59.0
0°-90°	12706.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12706.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1597	1597	1597	1597	1597	
5°	1563	1632	1667	1591	1563	151
15°	1691	1778	1746	1507	1691	490
25°	2401	2372	1474	1101	2401	1133
35°	3562	3600	951	527	3562	2207
45°	3821	5352	452	417	3821	2954
55°	3868	6386	358	355	3868	3509
65°	4754	6733	303	298	4754	4786
75°	4690	2430	216	204	4690	4587
85°	700	193	100	91	700	809
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°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1575.5	1578.6	1578.6	1577.1	1577.1	1580.1	1578.6	1577.1	1572.5	1578.6	1578.6
5°	1563.4	1566.4	1566.4	1569.4	1572.5	1575.5	1575.5	1578.6	1577.1	1583.1	1587.7
7.5°	1578.6	1581.6	1587.7	1595.3	1599.9	1610.5	1610.5	1618.2	1621.2	1625.8	1624.2
10°	1598.4	1606.0	1619.7	1631.9	1641.0	1653.2	1662.3	1673.0	1673.0	1677.5	1680.6
12.5°	1633.4	1641.0	1656.2	1671.4	1685.1	1700.4	1714.1	1724.7	1735.4	1738.4	1744.5
15°	1691.2	1700.4	1723.2	1744.5	1761.2	1781.0	1799.3	1820.6	1840.4	1845.0	1848.0
17.5°	1778.0	1796.3	1813.0	1851.1	1875.4	1901.3	1930.2	1960.7	1966.7	1998.7	2006.3
20°	1901.3	1924.1	1939.3	1986.5	2027.6	2061.1	2103.8	2138.8	2152.5	2182.9	2213.4
22.5°	2114.4	2109.8	2132.7	2179.9	2210.3	2277.3	2313.8	2350.4	2368.6	2414.3	2438.6
25°	2400.6	2424.9	2475.2	2479.7	2508.7	2586.3	2633.5	2670.0	2671.5	2685.2	2711.1
27.5°	2682.2	2782.7	2861.8	2904.5	2982.1	3053.6	3050.6	3102.3	3021.7	3038.4	3062.8
30°	3023.2	3190.6	3339.8	3440.3	3519.4	3603.2	3644.3	3673.2	3638.2	3623.0	3594.0
32.5°	3342.9	3577.3	3807.1	3985.3	4132.9	4271.4	4362.8	4403.9	4452.6	4575.9	4620.0
35°	3562.1	3893.9	4180.1	4437.4	4684.0	4904.7	5064.5	5155.9	5120.9	5104.1	5095.0
37.5°	3693.0	4097.9	4455.6	4819.4	5102.6	5432.9	5681.0	5921.6	5976.4	5880.5	5833.3
40°	3775.2	4254.7	4714.4	5143.7	5510.5	5936.8	6244.3	6605.0	6879.1	6915.6	6802.9
42.5°	3814.8	4359.7	4895.6	5381.2	5877.4	6399.5	6789.2	7226.1	7635.6	7917.2	7847.2
45°	3820.8	4428.2	5028.0	5595.8	6186.4	6806.0	7308.3	7792.4	8340.4	8823.0	8836.7
47.5°	3820.8	4480.0	5119.3	5751.1	6463.5	7159.1	7707.2	8279.5	8950.8	9521.7	9696.7
50°	3823.9	4515.0	5204.6	5872.8	6675.1	7457.5	8077.1	8752.9	9459.3	10080.3	10418.3
52.5°	3837.6	4540.9	5271.6	5959.6	6812.1	7667.6	8364.8	9144.2	9847.4	10485.3	10922.1
55°	3868.0	4577.4	5320.3	6012.9	6903.4	7804.6	8573.3	9412.1	10098.6	10745.6	11356.0
57.5°	3953.3	4641.3	5379.6	6060.1	6953.6	7894.4	8719.5	9527.8	10194.5	10868.9	11585.8
60°	4123.8	4776.8	5481.6	6154.5	7037.4	8060.3	8789.5	9450.1	10124.5	10832.3	11637.6
62.5°	4396.3	4988.4	5623.2	6314.3	7276.4	8317.6	8736.2	9218.7	9849.0	10620.7	11453.4
63°	4490.6	5034.1	5655.2	6349.3	7341.8	8364.8	8713.4	9150.2	9792.6	10553.8	11388.0
65°	4754.0	5236.5	5807.4	6525.9	7611.3	8412.0	8535.3	8794.0	9402.9	10171.7	11001.3
67.5°	5245.7	5728.2	6134.7	6824.2	7838.1	8226.2	7982.7	8014.6	8650.9	9447.1	10193.0
70°	5556.2	6131.6	6343.2	6862.3	7797.0	7950.7	7267.2	6844.0	7354.0	8261.3	8914.3
72.5°	5475.5	6136.2	6113.4	6355.4	6975.0	7118.0	6410.2	5743.5	6046.4	6723.8	7147.0
75°	4690.1	5480.1	5312.7	5263.9	5481.6	5576.0	5044.7	4942.7	5324.8	5700.8	5706.9
77.5°	3376.4	4245.6	4049.2	3767.6	3752.3	3970.0	4041.6	4709.8	5274.6	5571.4	5440.5
80°	2150.9	3093.2	2889.2	2397.5	2389.9	2673.1	3301.8	4210.5	4808.8	4974.7	4633.7
82.5°	1123.4	2024.6	2102.2	1799.3	2059.6	2528.5	3141.9	3393.1	3619.9	3642.7	3240.9
85°	700.2	1245.2	1464.4	1511.6	1860.2	2242.3	2237.7	2149.4	2048.9	1753.6	1586.2
87.5°	79.2	156.8	237.5	225.3	302.9	424.7	529.7	310.5	217.7	79.2	109.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1581.6	1583.1	1584.7	1584.7	1592.3	1590.8	1592.3	1595.3	1599.9	1602.9	1606.0
5°	1593.8	1593.8	1599.9	1604.5	1613.6	1619.7	1622.7	1631.9	1642.5	1639.5	1648.6
7.5°	1633.4	1631.9	1637.9	1641.0	1648.6	1659.3	1657.7	1665.3	1674.5	1677.5	1685.1
10°	1686.7	1682.1	1682.1	1679.0	1680.6	1677.5	1677.5	1677.5	1683.6	1682.1	1688.2
12.5°	1741.5	1739.9	1736.9	1727.8	1727.8	1715.6	1709.5	1701.9	1700.4	1689.7	1691.2
15°	1854.1	1854.1	1848.0	1829.7	1814.5	1803.9	1788.6	1778.0	1762.8	1743.0	1732.3
17.5°	2018.5	1997.2	1989.6	1986.5	1962.2	1953.0	1919.6	1884.5	1867.8	1840.4	1825.2
20°	2219.4	2214.9	2184.4	2169.2	2138.8	2096.1	2053.5	2007.8	1980.4	1947.0	1928.7
22.5°	2446.3	2412.8	2397.5	2374.7	2327.5	2278.8	2214.9	2154.0	2111.4	2088.5	2074.8
25°	2711.1	2677.6	2662.4	2632.0	2574.1	2522.4	2443.2	2371.7	2333.6	2295.6	2274.2
27.5°	3062.8	3030.8	3012.5	2933.4	2913.6	2828.3	2730.9	2633.5	2583.3	2526.9	2490.4
30°	3587.9	3589.5	3495.1	3399.2	3300.2	3152.6	3050.6	2941.0	2858.8	2778.1	2697.4
32.5°	4475.4	4248.6	4073.5	3868.0	3653.4	3496.6	3370.3	3239.3	3125.2	3008.0	2874.0
35°	5017.3	4907.7	4680.9	4304.9	4088.8	3898.5	3758.4	3600.1	3460.1	3253.0	3049.1
37.5°	5629.3	5375.1	5099.5	4891.0	4645.9	4425.2	4190.8	4011.1	3769.1	3490.5	3201.3
40°	6522.8	6159.0	5827.2	5547.1	5230.5	4999.1	4737.2	4476.9	4155.7	3752.3	3355.0
42.5°	7456.0	7080.0	6641.6	6277.8	5904.8	5633.8	5309.6	4944.3	4472.4	3973.1	3487.5
45°	8434.8	7932.4	7407.3	6962.8	6574.6	6238.2	5836.3	5352.2	4776.8	4171.0	3610.8
47.5°	9399.9	8823.0	8197.3	7719.3	7213.9	6802.9	6309.7	5697.8	5014.3	4358.2	3734.1
50°	10250.8	9695.2	8941.7	8334.3	7822.8	7315.9	6700.9	5964.2	5201.5	4519.6	3845.2
52.5°	10984.6	10506.6	9713.5	8946.3	8357.2	7787.8	7016.1	6178.8	5390.3	4668.7	3936.5
55°	11523.4	11205.3	10474.6	9523.2	8827.5	8148.6	7282.4	6385.8	5568.4	4787.5	3995.9
57.5°	11929.9	11753.3	11126.1	10066.6	9259.9	8498.7	7558.0	6634.0	5745.0	4889.5	4023.3
60°	12152.1	12200.8	11619.3	10541.6	9641.9	8791.0	7833.5	6845.6	5875.9	4948.8	4008.1
62.5°	12130.8	12429.2	11989.2	10833.9	9864.2	8964.5	8019.2	6944.5	5857.6	4854.5	3869.6
63°	12089.7	12436.8	12030.3	10853.6	9877.9	8970.6	8023.8	6930.8	5819.6	4808.8	3814.8
65°	11735.0	12261.7	11995.3	10763.8	9756.1	8856.5	7927.9	6732.9	5551.6	4563.7	3533.1
67.5°	10785.1	11444.3	11368.2	10129.1	9179.2	8384.6	7437.7	6095.1	4889.5	3960.9	2994.3
70°	9215.7	9835.3	9849.0	8809.3	8016.2	7236.8	6449.8	4959.5	3875.6	3070.4	2233.1
72.5°	7063.2	7462.1	7600.6	6915.6	6384.3	5836.3	5130.0	3600.1	2762.9	2088.5	1453.7
75°	5469.4	5359.8	5358.3	5069.1	4852.9	4585.0	3808.7	2429.5	1814.5	1357.8	889.0
77.5°	4916.9	4429.7	3957.9	3610.8	3437.2	3347.4	2498.0	1464.4	1070.1	780.9	511.5
80°	4055.3	3336.8	2695.9	2321.4	2172.3	2275.8	1392.9	791.6	586.1	444.5	331.9
82.5°	2796.4	2321.4	1764.3	1461.4	1254.3	1312.2	712.4	404.9	271.0	248.1	205.5
85°	1456.8	1277.2	1077.8	925.5	817.4	718.5	369.9	193.3	112.6	98.9	89.8
87.5°	0.0	1.5	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°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1610.5	1609.0	1612.1	1613.6	1618.2	1621.2	1622.7	1619.7	1624.2	1628.8	1625.8
5°	1653.2	1663.8	1665.3	1669.9	1669.9	1679.0	1679.0	1679.0	1677.5	1679.0	1676.0
7.5°	1689.7	1703.4	1704.9	1711.0	1712.5	1723.2	1718.6	1721.7	1721.7	1714.1	1711.0
10°	1694.3	1708.0	1715.6	1723.2	1733.8	1747.5	1747.5	1755.2	1755.2	1749.1	1747.5
12.5°	1695.8	1706.4	1714.1	1724.7	1739.9	1759.7	1770.4	1781.0	1785.6	1784.1	1779.5
15°	1727.8	1727.8	1729.3	1738.4	1749.1	1773.4	1788.6	1800.8	1808.4	1805.4	1797.8
17.5°	1811.5	1799.3	1790.2	1774.9	1778.0	1790.2	1799.3	1810.0	1811.5	1808.4	1796.3
20°	1908.9	1893.7	1870.8	1846.5	1834.3	1825.2	1819.1	1819.1	1814.5	1799.3	1779.5
22.5°	2047.4	2027.6	1995.7	1959.1	1934.8	1905.9	1870.8	1837.4	1800.8	1764.3	1721.7
25°	2239.2	2211.8	2178.3	2122.0	2070.3	2009.4	1937.8	1863.2	1776.5	1700.4	1637.9
27.5°	2432.6	2371.7	2284.9	2207.3	2111.4	2020.0	1918.0	1826.7	1715.6	1624.2	1555.7
30°	2592.4	2476.7	2351.9	2228.6	2102.2	1978.9	1857.1	1747.5	1625.8	1532.9	1465.9
32.5°	2715.7	2555.9	2382.3	2221.0	2065.7	1915.0	1774.9	1653.2	1529.9	1434.0	1362.4
35°	2829.9	2607.6	2386.9	2187.5	1995.7	1838.9	1680.6	1548.1	1417.2	1316.7	1239.1
37.5°	2915.1	2632.0	2359.5	2125.1	1904.3	1729.3	1567.9	1432.4	1298.5	1188.9	1100.6
40°	2969.9	2616.7	2300.1	2035.2	1796.3	1612.1	1447.7	1307.6	1178.2	1058.0	951.4
42.5°	3014.1	2597.0	2240.8	1953.0	1711.0	1510.1	1341.1	1190.4	1059.5	928.6	811.4
45°	3079.5	2612.2	2214.9	1895.2	1634.9	1423.3	1237.6	1080.8	943.8	815.9	703.3
47.5°	3143.4	2619.8	2176.8	1823.7	1539.0	1333.5	1144.7	992.5	852.5	735.2	631.7
50°	3201.3	2615.2	2117.5	1732.3	1446.1	1243.7	1061.0	908.8	770.3	662.2	564.8
52.5°	3228.7	2589.3	2044.4	1644.0	1371.5	1164.5	978.8	831.1	694.1	592.2	502.3
55°	3225.6	2522.4	1948.5	1560.3	1289.3	1080.8	898.1	752.0	628.7	534.3	456.7
57.5°	3180.0	2418.9	1846.5	1467.4	1181.3	977.3	803.7	662.2	558.7	479.5	414.1
60°	3084.1	2286.4	1712.5	1332.0	1045.8	849.4	686.5	564.8	481.0	420.1	377.5
62.5°	2904.5	2096.1	1545.1	1143.2	863.1	683.5	541.9	462.8	400.4	363.8	344.0
63°	2851.2	2044.4	1473.5	1097.5	820.5	645.4	511.5	429.3	383.6	351.6	333.4
65°	2586.3	1790.2	1233.0	885.9	637.8	497.8	411.0	348.6	321.2	307.5	306.0
67.5°	2094.6	1408.1	872.2	607.4	433.8	359.3	315.1	289.2	277.0	274.0	277.0
70°	1470.5	889.0	554.1	403.4	321.2	289.2	269.4	258.8	251.2	252.7	255.7
72.5°	937.7	532.8	380.6	306.0	271.0	254.2	245.1	242.0	240.5	239.0	239.0
75°	534.3	354.7	292.3	264.9	246.6	232.9	225.3	222.2	223.8	225.3	222.2
77.5°	353.2	292.3	260.3	242.0	225.3	210.1	205.5	204.0	207.0	210.1	210.1
80°	278.6	260.3	242.0	223.8	196.4	185.7	188.8	190.3	188.8	190.3	185.7
82.5°	196.4	193.3	197.9	190.3	162.9	153.7	150.7	152.2	149.2	149.2	146.1
85°	91.3	91.3	95.9	95.9	92.9	94.4	102.0	111.1	115.7	111.1	105.0
87.5°	0.0	0.0	0.0	0.0	0.0	13.7	27.4	39.6	42.6	53.3	51.8
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: P152959

CATALOG NUMBER: TLM-E05-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1621.2	1624.2	1622.7	1621.2	1624.2	1621.2	1622.7	1621.2	1621.2	1619.7	1619.7
5°	1673.0	1677.5	1668.4	1666.9	1663.8	1656.2	1656.2	1653.2	1653.2	1647.1	1642.5
7.5°	1706.4	1708.0	1700.4	1698.8	1691.2	1683.6	1677.5	1671.4	1669.9	1665.3	1656.2
10°	1738.4	1735.4	1729.3	1721.7	1714.1	1703.4	1695.8	1688.2	1686.7	1679.0	1668.4
12.5°	1765.8	1764.3	1752.1	1744.5	1732.3	1721.7	1712.5	1703.4	1698.8	1689.7	1674.5
15°	1784.1	1774.9	1759.7	1746.0	1732.3	1720.1	1709.5	1698.8	1694.3	1683.6	1668.4
17.5°	1776.5	1759.7	1739.9	1723.2	1704.9	1689.7	1680.6	1669.9	1662.3	1656.2	1634.9
20°	1749.1	1724.7	1694.3	1674.5	1650.1	1630.3	1624.2	1613.6	1607.5	1584.7	1557.3
22.5°	1677.5	1642.5	1604.5	1575.5	1548.1	1528.3	1513.1	1502.5	1487.2	1473.5	1430.9
25°	1587.7	1548.1	1508.6	1473.5	1437.0	1406.6	1379.2	1353.3	1345.7	1316.7	1275.6
27.5°	1500.9	1456.8	1417.2	1376.1	1328.9	1290.9	1243.7	1207.1	1182.8	1152.3	1114.3
30°	1408.1	1363.9	1310.7	1255.9	1201.1	1160.0	1106.7	1062.5	1032.1	1000.1	965.1
32.5°	1290.9	1237.6	1173.7	1112.8	1062.5	1013.8	960.5	917.9	887.5	858.5	825.1
35°	1156.9	1086.9	1018.4	951.4	898.1	857.0	809.8	777.9	756.6	730.7	695.7
37.5°	1003.2	924.0	850.9	799.2	752.0	712.4	678.9	659.1	636.3	622.6	601.3
40°	847.9	770.3	698.7	651.5	611.9	589.1	570.8	566.3	551.1	532.8	519.1
42.5°	710.9	636.3	566.3	528.2	502.3	496.3	487.1	487.1	479.5	465.8	456.7
45°	618.0	540.4	479.5	452.1	438.4	436.9	432.3	432.3	430.8	424.7	414.1
47.5°	551.1	481.0	433.8	417.1	414.1	411.0	406.4	404.9	403.4	398.8	392.7
50°	490.2	430.8	400.4	392.7	394.3	389.7	385.1	380.6	379.0	374.5	368.4
52.5°	433.8	391.2	371.4	366.9	366.9	366.9	363.8	363.8	360.8	359.3	353.2
55°	401.9	369.9	359.3	357.7	356.2	354.7	351.6	351.6	348.6	347.1	339.5
57.5°	374.5	354.7	348.6	345.6	344.0	341.0	339.5	339.5	339.5	339.5	330.3
60°	353.2	344.0	342.5	339.5	337.9	331.9	328.8	327.3	328.8	330.3	321.2
62.5°	330.3	328.8	327.3	324.2	322.7	316.6	312.1	309.0	312.1	315.1	313.6
63°	324.2	322.7	322.7	321.2	319.7	312.1	307.5	304.5	307.5	310.5	310.5
65°	302.9	304.5	304.5	302.9	301.4	296.8	290.7	287.7	289.2	293.8	295.3
67.5°	280.1	281.6	280.1	281.6	280.1	277.0	272.5	269.4	267.9	269.4	271.0
70°	258.8	261.8	260.3	258.8	257.3	257.3	254.2	249.6	248.1	246.6	246.6
72.5°	240.5	240.5	237.5	237.5	235.9	235.9	232.9	228.3	226.8	226.8	223.8
75°	220.7	220.7	216.2	216.2	213.1	214.6	211.6	207.0	205.5	205.5	204.0
77.5°	208.5	204.0	196.4	194.8	193.3	193.3	191.8	187.2	185.7	185.7	184.2
80°	184.2	175.1	167.4	165.9	167.4	170.5	170.5	167.4	167.4	167.4	167.4
82.5°	143.1	140.0	135.5	132.4	132.4	137.0	143.1	146.1	149.2	152.2	152.2
85°	105.0	106.6	105.0	100.5	98.9	103.5	109.6	115.7	117.2	123.3	121.8
87.5°	56.3	57.8	53.3	51.8	56.3	59.4	65.5	67.0	70.0	71.5	73.1
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: P152959

CATALOG NUMBER: TLM-E05-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1618.2	1616.6	1618.2	1615.1	1615.1	1612.1	1609.0	1607.5	1604.5	1602.9	1599.9
5°	1645.6	1641.0	1636.4	1634.9	1628.8	1622.7	1618.2	1610.5	1604.5	1593.8	1590.8
7.5°	1663.8	1653.2	1647.1	1645.6	1636.4	1631.9	1621.2	1612.1	1602.9	1589.2	1584.7
10°	1671.4	1660.8	1650.1	1645.6	1634.9	1627.3	1616.6	1602.9	1595.3	1581.6	1578.6
12.5°	1680.6	1660.8	1644.0	1631.9	1616.6	1599.9	1589.2	1581.6	1571.0	1563.4	1560.3
15°	1663.8	1637.9	1612.1	1589.2	1564.9	1546.6	1536.0	1523.8	1511.6	1507.0	1507.0
17.5°	1618.2	1584.7	1540.5	1511.6	1485.7	1465.9	1452.2	1440.0	1438.5	1432.4	1435.5
20°	1523.8	1479.6	1437.0	1415.7	1400.5	1388.3	1374.6	1368.5	1363.9	1354.8	1351.8
22.5°	1392.9	1356.3	1325.9	1310.7	1298.5	1283.3	1271.1	1252.8	1248.2	1239.1	1234.5
25°	1248.2	1219.3	1193.4	1182.8	1175.2	1153.9	1146.3	1121.9	1105.2	1094.5	1100.6
27.5°	1103.6	1082.3	1058.0	1044.3	1039.7	1019.9	1012.3	984.9	971.2	971.2	956.0
30°	954.5	934.7	919.4	904.2	901.2	876.8	857.0	846.4	831.1	825.1	814.4
32.5°	814.4	794.6	782.4	774.8	762.6	742.9	723.1	704.8	680.4	671.3	666.7
35°	685.0	669.8	654.6	648.5	631.7	610.4	586.1	570.8	541.9	531.3	526.7
37.5°	586.1	567.8	557.1	540.4	523.7	500.8	482.6	468.9	458.2	453.6	453.6
40°	506.9	493.2	481.0	467.3	453.6	441.5	432.3	429.3	427.8	427.8	430.8
42.5°	447.5	435.4	429.3	421.7	417.1	417.1	415.6	417.1	418.6	420.1	424.7
45°	408.0	400.4	397.3	395.8	398.8	401.9	403.4	406.4	412.5	415.6	417.1
47.5°	386.7	380.6	379.0	380.6	385.1	391.2	397.3	401.9	406.4	408.0	409.5
50°	365.3	357.7	354.7	357.7	363.8	373.0	377.5	385.1	388.2	391.2	388.2
52.5°	347.1	341.0	339.5	339.5	345.6	351.6	357.7	363.8	365.3	365.3	363.8
55°	331.9	327.3	322.7	325.8	330.3	336.4	345.6	350.1	353.2	354.7	354.7
57.5°	319.7	315.1	310.5	313.6	318.2	324.2	333.4	337.9	341.0	345.6	347.1
60°	310.5	304.5	299.9	304.5	309.0	318.2	325.8	330.3	337.9	339.5	339.5
62.5°	301.4	295.3	287.7	292.3	292.3	296.8	304.5	310.5	318.2	321.2	321.2
63°	299.9	293.8	286.2	289.2	289.2	292.3	298.4	304.5	313.6	316.6	315.1
65°	287.7	286.2	278.6	278.6	275.5	278.6	283.1	289.2	293.8	298.4	298.4
67.5°	267.9	266.4	264.9	264.9	264.9	267.9	271.0	275.5	280.1	283.1	281.6
70°	245.1	245.1	245.1	246.6	246.6	249.6	251.2	249.6	254.2	257.3	255.7
72.5°	225.3	223.8	222.2	225.3	223.8	223.8	226.8	225.3	229.9	229.9	231.4
75°	204.0	202.5	202.5	204.0	200.9	197.9	199.4	199.4	200.9	200.9	204.0
77.5°	185.7	185.7	185.7	184.2	181.1	179.6	178.1	178.1	178.1	178.1	179.6
80°	169.0	169.0	169.0	167.4	164.4	161.4	158.3	156.8	155.3	147.7	147.7
82.5°	152.2	152.2	152.2	152.2	150.7	147.7	143.1	130.9	124.8	118.7	120.3
85°	120.3	123.3	126.3	130.9	129.4	129.4	120.3	105.0	95.9	89.8	91.3
87.5°	77.6	68.5	68.5	67.0	63.9	60.9	60.9	51.8	42.6	38.1	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



TEST NUMBER: P152959

CATALOG NUMBER: TLM-E05-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1599.9	1596.8	1593.8	1593.8	1589.2	1589.2	1586.2	1592.3	1586.2	1581.6	1581.6
5°	1587.7	1584.7	1575.5	1574.0	1567.9	1567.9	1567.9	1564.9	1564.9	1561.8	1560.3
7.5°	1580.1	1572.5	1564.9	1560.3	1560.3	1557.3	1563.4	1560.3	1561.8	1561.8	1563.4
10°	1574.0	1567.9	1564.9	1563.4	1563.4	1567.9	1572.5	1574.0	1572.5	1574.0	1574.0
12.5°	1558.8	1561.8	1563.4	1569.4	1577.1	1586.2	1596.8	1598.4	1601.4	1601.4	1604.5
15°	1510.1	1517.7	1526.8	1542.0	1561.8	1581.6	1601.4	1618.2	1633.4	1641.0	1647.1
17.5°	1441.6	1449.2	1465.9	1482.7	1508.6	1537.5	1571.0	1599.9	1631.9	1660.8	1689.7
20°	1348.7	1360.9	1365.5	1395.9	1426.3	1465.9	1505.5	1551.2	1606.0	1660.8	1717.1
22.5°	1228.5	1242.2	1263.5	1287.8	1319.8	1368.5	1415.7	1487.2	1560.3	1637.9	1726.2
25°	1094.5	1109.7	1128.0	1153.9	1185.8	1237.6	1306.1	1382.2	1472.0	1574.0	1683.6
27.5°	956.0	971.2	986.4	1004.7	1041.2	1096.0	1176.7	1255.9	1354.8	1465.9	1593.8
30°	817.4	819.0	828.1	850.9	889.0	960.5	1019.9	1118.9	1222.4	1339.6	1487.2
32.5°	665.2	663.7	674.4	694.1	730.7	799.2	872.2	968.2	1070.1	1217.8	1370.0
35°	529.7	529.7	549.5	569.3	610.4	659.1	723.1	808.3	928.6	1065.6	1217.8
37.5°	458.2	468.9	481.0	500.8	532.8	570.8	627.2	701.8	796.1	927.1	1067.1
40°	435.4	441.5	452.1	470.4	497.8	532.8	573.9	630.2	703.3	808.3	936.2
42.5°	426.2	427.8	433.8	447.5	471.9	506.9	549.5	599.8	654.6	729.2	840.3
45°	417.1	415.6	418.6	429.3	449.1	488.6	537.4	592.2	647.0	709.4	800.7
47.5°	409.5	409.5	409.5	414.1	432.3	471.9	528.2	592.2	657.6	727.6	817.4
50°	388.2	386.7	386.7	389.7	403.4	446.0	513.0	590.6	675.9	767.2	869.2
52.5°	363.8	363.8	365.3	366.9	379.0	421.7	496.3	590.6	697.2	819.0	946.8
55°	356.2	357.7	359.3	357.7	366.9	403.4	478.0	581.5	706.3	860.1	1030.6
57.5°	350.1	353.2	353.2	351.6	357.7	388.2	459.7	563.2	698.7	875.3	1089.9
60°	341.0	341.0	341.0	336.4	339.5	366.9	432.3	534.3	674.4	861.6	1099.1
62.5°	321.2	321.2	318.2	316.6	315.1	336.4	395.8	491.7	630.2	825.1	1076.2
63°	316.6	315.1	315.1	310.5	310.5	330.3	388.2	485.6	618.0	815.9	1067.1
65°	299.9	299.9	299.9	296.8	295.3	310.5	357.7	443.0	570.8	773.3	1021.4
67.5°	281.6	283.1	280.1	278.6	277.0	286.2	322.7	389.7	497.8	683.5	936.2
70°	255.7	257.3	257.3	255.7	254.2	260.3	283.1	334.9	412.5	569.3	797.7
72.5°	232.9	235.9	235.9	239.0	239.0	243.6	252.7	278.6	330.3	444.5	627.2
75°	208.5	210.1	213.1	216.2	213.1	211.6	213.1	232.9	258.8	328.8	447.5
77.5°	187.2	191.8	191.8	190.3	185.7	182.7	182.7	191.8	213.1	249.6	319.7
80°	155.3	162.9	164.4	159.8	155.3	155.3	158.3	164.4	178.1	205.5	242.0
82.5°	124.8	132.4	134.0	135.5	134.0	138.5	138.5	140.0	147.7	169.0	197.9
85°	95.9	102.0	106.6	108.1	109.6	111.1	109.6	102.0	106.6	120.3	134.0
87.5°	42.6	44.1	41.1	42.6	41.1	42.6	44.1	36.5	35.0	47.2	48.7
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: P152959

CATALOG NUMBER: TLM-E05-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1580.1	1580.1	1581.6	1578.6	1578.6	1580.1	1575.5
5°	1555.7	1561.8	1561.8	1561.8	1558.8	1561.8	1563.4
7.5°	1561.8	1566.4	1569.4	1569.4	1567.9	1574.0	1578.6
10°	1569.4	1577.1	1580.1	1580.1	1580.1	1587.7	1598.4
12.5°	1598.4	1604.5	1609.0	1609.0	1612.1	1621.2	1633.4
15°	1651.6	1659.3	1659.3	1657.7	1666.9	1677.5	1691.2
17.5°	1711.0	1732.3	1743.0	1741.5	1749.1	1762.8	1778.0
20°	1767.3	1826.7	1852.6	1870.8	1878.5	1896.7	1901.3
22.5°	1814.5	1913.5	1985.0	2045.9	2074.8	2093.1	2114.4
25°	1797.8	1931.7	2059.6	2184.4	2272.7	2362.5	2400.6
27.5°	1729.3	1896.7	2064.2	2246.8	2406.7	2566.5	2682.2
30°	1645.6	1846.5	2071.8	2330.6	2583.3	2828.3	3023.2
32.5°	1549.7	1799.3	2088.5	2408.2	2740.1	3061.2	3342.9
35°	1429.4	1709.5	2047.4	2415.8	2807.0	3196.7	3562.1
37.5°	1277.2	1587.7	1951.5	2361.0	2810.1	3256.1	3693.0
40°	1124.9	1434.0	1829.7	2281.9	2770.5	3269.8	3775.2
42.5°	1018.4	1297.0	1706.4	2181.4	2706.6	3248.5	3814.8
45°	945.3	1198.0	1596.8	2090.1	2638.1	3210.4	3820.8
47.5°	939.2	1155.4	1525.3	2023.1	2583.3	3176.9	3820.8
50°	991.0	1178.2	1500.9	1989.6	2560.4	3166.3	3823.9
52.5°	1088.4	1269.6	1545.1	2015.5	2578.7	3180.0	3837.6
55°	1205.6	1408.1	1663.8	2105.3	2656.3	3225.6	3868.0
57.5°	1312.2	1567.9	1866.3	2278.8	2797.9	3341.3	3953.3
60°	1374.6	1704.9	2080.9	2522.4	3039.9	3571.2	4123.8
62.5°	1382.2	1781.0	2271.2	2787.2	3333.7	3834.5	4396.3
63°	1376.1	1787.1	2295.6	2837.5	3396.1	3900.0	4490.6
65°	1342.6	1788.6	2364.1	3014.1	3612.3	4175.5	4754.0
67.5°	1257.4	1739.9	2388.4	3152.6	3884.8	4537.8	5245.7
70°	1109.7	1601.4	2316.9	3155.6	3989.8	4740.3	5556.2
72.5°	892.0	1338.1	2007.8	2871.0	3712.8	4540.9	5475.5
75°	653.0	983.4	1517.7	2224.0	3029.3	3779.7	4690.1
77.5°	433.8	636.3	1023.0	1584.7	2172.3	2720.3	3376.4
80°	298.4	394.3	598.2	952.9	1328.9	1595.3	2150.9
82.5°	219.2	260.3	331.9	487.1	639.3	787.0	1123.4
85°	137.0	149.2	165.9	240.5	344.0	464.3	700.2
87.5°	36.5	38.1	35.0	47.2	74.6	71.5	79.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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