

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: P155618

Luminaire Tested: **TLM-E06-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155618
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-T3-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (126) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15616.8 lumens
Efficiency: N/A
Efficacy: 103.8 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

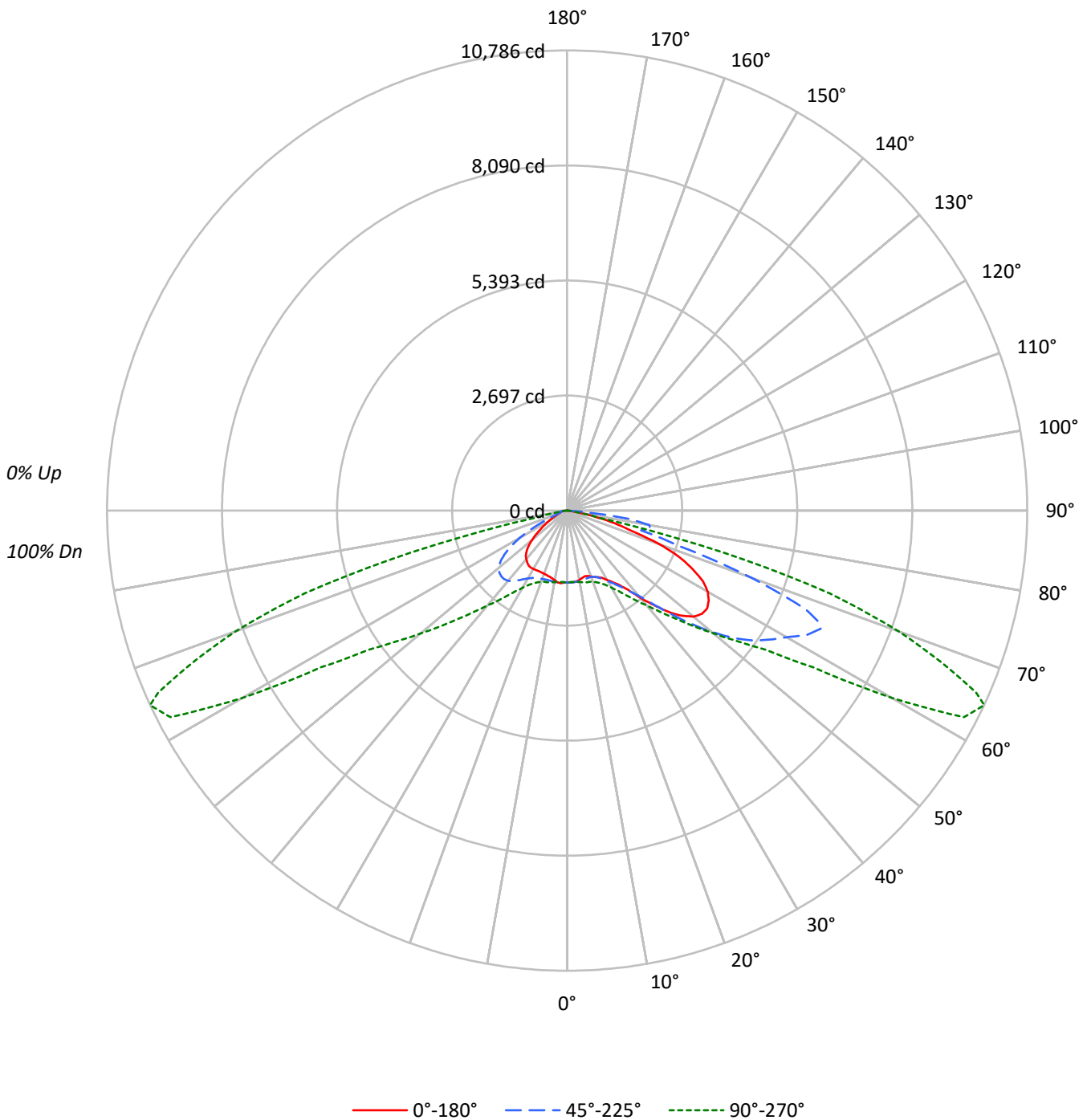
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79
2	92	82	73	65	89	80	71	64	76	69	63	72	66	61	69	64	60
3	81	68	57	49	79	66	56	49	63	55	48	60	53	47	57	51	46
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36
5	65	49	38	30	63	48	38	30	46	37	29	44	35	29	42	34	29
6	59	43	32	24	57	42	32	24	40	31	24	38	30	24	36	29	23
7	54	38	28	20	52	37	27	20	35	27	20	34	26	20	32	25	20
8	50	34	24	17	48	33	24	17	32	23	17	30	23	17	29	22	17
9	46	31	21	15	45	30	21	15	29	20	15	28	20	15	27	20	14
10	43	28	19	13	42	27	19	13	26	18	13	25	18	13	24	18	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	18115	18115	18115
5°	18184	18165	18457
10°	18026	18579	18136
15°	17757	19393	17870
20°	18852	20360	18040
25°	20448	22333	18604
30°	23308	25973	19658
35°	27948	31851	20672
40°	37427	40771	20920
45°	51134	54294	20479
50°	64702	74962	18005
55°	75170	106720	14319
60°	81907	188743	10865
65°	82674	274720	8211
70°	72460	260198	6851
75°	47877	157459	7020
80°	17474	16011	8269
85°	2915	10634	9176



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	1.0
10°-20°	475.7	3.0
20°-30°	817.6	5.2
30°-40°	1327.5	8.5
40°-50°	2216.3	14.2
50°-60°	3489.9	22.3
60°-70°	4758.8	30.5
70°-80°	2060.1	13.2
80°-90°	309.8	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°	1454.5	9.3
0°-40°	2782.0	17.8
0°-60°	8488.2	54.4
0°-90°	15616.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15616.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1683	1683	1683	1683	1683	
5°	1683	1686	1681	1702	1708	160
15°	1594	1659	1740	1690	1604	458
25°	1722	1732	1880	1745	1566	807
35°	2127	2174	2424	1995	1573	1378
45°	3359	3403	3567	2183	1345	2582
55°	4006	5305	5687	1798	763	3533
65°	3246	6558	10786	631	322	3152
75°	1151	1793	3786	170	169	1231
85°	24	398	86	118	74	62
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°	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9
2.5°	1689.7	1696.4	1689.7	1691.4	1693.0	1691.4	1689.7	1689.7	1684.6	1688.0	1691.4
5°	1682.9	1688.0	1686.3	1688.0	1689.7	1688.0	1686.3	1688.0	1684.6	1686.3	1691.4
7.5°	1674.5	1672.8	1674.5	1677.9	1681.2	1681.2	1681.2	1682.9	1681.2	1681.2	1686.3
10°	1649.2	1650.8	1654.2	1659.3	1661.0	1666.0	1666.0	1671.1	1672.8	1676.2	1682.9
12.5°	1617.1	1618.8	1622.2	1625.5	1634.0	1642.4	1642.4	1654.2	1659.3	1667.7	1679.5
15°	1593.5	1595.1	1598.5	1601.9	1608.6	1617.1	1622.2	1635.7	1644.1	1659.3	1676.2
17.5°	1607.0	1605.3	1608.6	1610.3	1610.3	1617.1	1617.1	1627.2	1637.3	1650.8	1672.8
20°	1645.8	1645.8	1649.2	1649.2	1647.5	1650.8	1644.1	1644.1	1645.8	1652.5	1667.7
22.5°	1684.6	1682.9	1689.7	1693.0	1694.7	1699.8	1693.0	1691.4	1682.9	1677.9	1682.9
25°	1721.7	1720.1	1728.5	1733.6	1742.0	1747.1	1747.1	1747.1	1740.3	1731.9	1726.8
27.5°	1779.1	1779.1	1787.6	1792.6	1799.4	1809.5	1814.6	1814.6	1816.3	1804.5	1796.0
30°	1875.3	1877.0	1878.7	1885.5	1892.2	1895.6	1902.4	1907.4	1912.5	1905.7	1892.2
32.5°	1990.1	1980.0	1980.0	1990.1	1998.6	2008.7	2012.1	2018.8	2029.0	2023.9	2022.2
35°	2126.9	2123.5	2120.1	2123.5	2133.6	2145.4	2158.9	2170.7	2164.0	2174.1	2169.1
37.5°	2329.4	2332.8	2334.5	2334.5	2332.8	2336.2	2342.9	2354.7	2351.4	2354.7	2361.5
40°	2663.6	2651.8	2640.0	2641.7	2624.8	2628.2	2601.2	2613.0	2614.7	2602.9	2607.9
42.5°	2997.9	3004.6	3009.7	3023.2	3011.4	3004.6	2979.3	2979.3	2965.8	2954.0	2950.6
45°	3359.1	3372.6	3374.3	3401.3	3391.2	3413.1	3431.7	3426.6	3404.7	3403.0	3379.3
47.5°	3647.7	3669.7	3693.3	3725.4	3750.7	3799.6	3857.0	3885.7	3902.6	3916.1	3889.1
50°	3863.8	3873.9	3934.7	3985.3	4041.0	4122.1	4201.4	4304.4	4387.1	4425.9	4463.0
52.5°	3980.3	4005.6	4071.4	4150.7	4248.7	4370.2	4498.5	4662.2	4804.0	4898.5	4982.9
55°	4005.6	4030.9	4105.2	4206.5	4339.8	4503.5	4687.5	4910.3	5123.0	5305.3	5482.6
57.5°	3934.7	3963.4	4042.7	4159.2	4316.2	4515.4	4746.6	5038.6	5332.3	5627.7	5889.4
60°	3804.7	3840.2	3912.7	4027.5	4201.4	4425.9	4702.7	5069.0	5480.9	5933.3	6434.6
62.5°	3590.3	3627.5	3695.0	3821.6	4000.5	4248.7	4569.4	5025.1	5607.5	6319.8	7209.4
65°	3246.0	3262.9	3345.6	3473.9	3632.5	3906.0	4258.8	4809.1	5567.0	6557.8	7783.3
66°	3090.7	3119.4	3170.0	3273.0	3424.9	3681.5	4036.0	4594.7	5413.4	6475.1	7768.1
67.5°	2847.6	2869.6	2903.3	2972.5	3065.4	3254.4	3590.3	4118.7	4944.1	6056.5	7445.7
70°	2302.4	2312.5	2358.1	2381.7	2413.8	2476.3	2597.8	2901.6	3544.8	4589.6	6009.2
72.5°	1569.8	1598.5	1647.5	1715.0	1802.8	1887.2	1944.6	1983.4	2121.8	2737.9	4003.9
75°	1151.2	1181.6	1244.0	1333.5	1487.1	1662.7	1845.0	1929.4	1872.0	1792.6	2229.8
77.5°	668.4	709.0	761.3	847.4	989.2	1222.1	1534.4	1811.2	1998.6	2010.4	1909.1
80°	281.9	287.0	319.0	362.9	450.7	614.4	857.5	1255.9	1671.1	1951.3	2017.1
82.5°	64.1	79.3	101.3	119.8	146.9	202.6	300.5	499.6	903.1	1416.2	1846.7
85°	23.6	23.6	32.1	47.3	54.0	60.8	79.3	126.6	216.1	398.4	830.5
87.5°	0.0	1.7	3.4	3.4	6.8	8.4	13.5	18.6	16.9	15.2	50.6
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9
2.5°	1688.0	1686.3	1682.9	1682.9	1682.9	1682.9	1679.5	1681.2	1677.9	1679.5	1679.5
5°	1686.3	1686.3	1684.6	1681.2	1682.9	1682.9	1684.6	1681.2	1681.2	1682.9	1681.2
7.5°	1686.3	1684.6	1684.6	1684.6	1686.3	1684.6	1686.3	1686.3	1686.3	1688.0	1688.0
10°	1686.3	1686.3	1689.7	1691.4	1691.4	1693.0	1698.1	1698.1	1699.8	1701.5	1704.9
12.5°	1688.0	1694.7	1699.8	1704.9	1706.5	1709.9	1718.4	1718.4	1721.7	1726.8	1728.5
15°	1689.7	1699.8	1709.9	1713.3	1716.7	1723.4	1731.9	1735.2	1740.3	1745.4	1748.7
17.5°	1688.0	1701.5	1713.3	1718.4	1723.4	1731.9	1742.0	1745.4	1752.1	1758.9	1765.6
20°	1686.3	1704.9	1723.4	1730.2	1736.9	1748.7	1762.3	1770.7	1777.4	1787.6	1794.3
22.5°	1696.4	1718.4	1743.7	1753.8	1765.6	1780.8	1799.4	1809.5	1818.0	1828.1	1833.1
25°	1728.5	1745.4	1775.8	1792.6	1807.8	1833.1	1858.5	1870.3	1880.4	1888.9	1890.5
27.5°	1782.5	1787.6	1824.7	1846.7	1868.6	1909.1	1939.5	1947.9	1966.5	1973.3	1971.6
30°	1870.3	1861.8	1892.2	1926.0	1958.1	2013.8	2050.9	2072.8	2089.7	2089.7	2076.2
32.5°	1996.9	1983.4	1991.8	2030.6	2067.8	2148.8	2192.7	2221.4	2233.2	2229.8	2201.1
35°	2162.3	2153.9	2148.8	2179.2	2238.3	2332.8	2390.2	2405.4	2423.9	2420.6	2383.4
37.5°	2358.1	2351.4	2351.4	2386.8	2444.2	2584.3	2646.8	2656.9	2655.2	2628.2	2559.0
40°	2589.4	2586.0	2570.8	2591.1	2640.0	2822.3	2906.7	2920.2	2901.6	2857.8	2776.7
42.5°	2921.9	2901.6	2854.4	2866.2	2903.3	3080.6	3190.3	3227.4	3208.9	3165.0	3033.3
45°	3355.7	3333.8	3254.4	3244.3	3264.6	3419.9	3561.6	3570.1	3566.7	3511.0	3355.7
47.5°	3865.5	3831.7	3747.3	3720.3	3713.6	3857.0	3993.8	4007.3	3998.8	3916.1	3708.5
50°	4417.4	4368.5	4312.8	4294.2	4267.2	4370.2	4508.6	4510.3	4476.5	4361.7	4167.6
52.5°	5006.6	4989.7	4979.5	4961.0	4949.2	5038.6	5123.0	5072.4	5021.7	4901.9	4733.1
55°	5600.7	5669.9	5740.8	5747.6	5767.8	5864.0	5862.4	5723.9	5686.8	5621.0	5453.9
57.5°	6232.0	6488.6	6711.4	6780.6	6848.1	7027.1	7010.2	6873.5	6826.2	6745.2	6606.8
60°	7091.2	7783.3	8426.4	8580.0	8686.4	8900.7	8880.5	8669.5	8767.4	8760.6	8581.7
62.5°	8294.7	9445.9	10409.8	10646.1	10720.4	10744.0	10615.7	10387.8	10484.1	10592.1	10041.8
65°	9110.0	10463.8	11453.0	11635.3	11645.4	11363.5	11078.2	10809.8	10786.2	10693.4	9906.8
66°	9128.6	10514.4	11507.0	11684.2	11621.8	11236.9	10875.7	10605.6	10489.1	10284.9	9469.6
67.5°	8801.1	10198.8	11267.3	11454.6	11317.9	10772.7	10274.7	9927.0	9699.1	9368.3	8649.2
70°	7391.7	8777.5	10094.1	10443.5	10487.4	9673.8	8983.4	8574.9	8267.7	7813.7	7194.2
72.5°	5496.1	6748.6	7909.9	8244.1	8414.6	7764.7	7182.4	6871.8	6451.5	5973.8	5533.2
75°	3445.2	4329.7	5107.8	5342.5	5182.1	4679.1	4329.7	4199.7	3786.1	3500.9	3300.0
77.5°	1969.9	2246.7	2309.2	2219.7	2030.6	1554.6	1105.6	818.7	710.6	786.6	867.6
80°	1922.6	1762.3	1404.4	1235.6	1119.1	769.7	452.4	310.6	258.3	265.0	287.0
82.5°	2083.0	2234.9	1839.9	1500.6	1259.2	850.7	469.3	249.8	168.8	199.2	224.5
85°	1353.8	1883.8	1696.4	1429.7	1158.0	727.5	386.5	130.0	86.1	113.1	155.3
87.5°	136.7	150.2	128.3	173.9	130.0	60.8	30.4	18.6	16.9	20.3	30.4
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°	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9	1682.9
2.5°	1681.2	1681.2	1682.9	1684.6	1686.3	1688.0	1688.0	1688.0	1688.0	1691.4	1689.7
5°	1684.6	1688.0	1691.4	1693.0	1696.4	1696.4	1701.5	1699.8	1699.8	1704.9	1706.5
7.5°	1691.4	1696.4	1703.2	1701.5	1708.2	1706.5	1709.9	1709.9	1704.9	1706.5	1703.2
10°	1706.5	1713.3	1716.7	1711.6	1713.3	1706.5	1704.9	1696.4	1686.3	1681.2	1674.5
12.5°	1731.9	1738.6	1738.6	1730.2	1720.1	1704.9	1693.0	1674.5	1659.3	1650.8	1642.4
15°	1753.8	1760.6	1758.9	1745.4	1730.2	1706.5	1689.7	1667.7	1645.8	1632.3	1623.8
17.5°	1770.7	1774.1	1769.0	1750.4	1733.6	1711.6	1694.7	1671.1	1645.8	1628.9	1613.7
20°	1796.0	1792.6	1780.8	1757.2	1738.6	1718.4	1704.9	1684.6	1655.9	1634.0	1612.0
22.5°	1833.1	1819.6	1797.7	1772.4	1753.8	1735.2	1721.7	1699.8	1671.1	1644.1	1618.8
25°	1882.1	1855.1	1824.7	1797.7	1780.8	1760.6	1745.4	1721.7	1691.4	1661.0	1630.6
27.5°	1953.0	1905.7	1866.9	1843.3	1824.7	1799.4	1780.8	1750.4	1718.4	1682.9	1649.2
30°	2032.3	1968.2	1931.1	1912.5	1892.2	1865.2	1836.5	1797.7	1760.6	1721.7	1681.2
32.5°	2135.3	2057.6	2022.2	2003.6	1976.6	1942.9	1909.1	1865.2	1812.9	1762.3	1713.3
35°	2270.3	2191.0	2153.9	2125.2	2088.0	2044.1	1995.2	1936.1	1865.2	1797.7	1735.2
37.5°	2415.5	2329.4	2294.0	2263.6	2207.9	2150.5	2081.3	1995.2	1899.0	1809.5	1731.9
40°	2599.5	2520.2	2474.6	2422.3	2356.4	2256.8	2148.8	2023.9	1900.7	1790.9	1699.8
42.5°	2832.4	2753.1	2685.6	2602.9	2488.1	2334.5	2180.9	2018.8	1870.3	1745.4	1647.5
45°	3141.3	3045.1	2928.6	2783.5	2597.8	2383.4	2182.6	1986.8	1812.9	1674.5	1569.8
47.5°	3519.4	3372.6	3181.8	2937.1	2670.4	2396.9	2155.6	1922.6	1723.4	1573.2	1456.7
50°	3968.4	3737.2	3423.2	3063.7	2707.5	2376.7	2088.0	1826.4	1596.8	1436.5	1298.1
52.5°	4481.6	4103.5	3641.0	3154.8	2705.8	2309.2	1973.3	1681.2	1431.4	1252.5	1120.8
55°	5084.2	4522.1	3865.5	3222.4	2658.6	2184.2	1797.7	1477.0	1227.2	1061.7	940.2
57.5°	5967.0	5200.7	4257.1	3327.0	2564.0	1991.8	1559.7	1232.2	1012.8	855.8	752.8
60°	7580.7	6333.3	4962.7	3538.0	2418.9	1709.9	1281.2	970.6	786.6	660.0	590.8
62.5°	8796.1	7209.4	5344.2	3490.7	2126.9	1362.2	950.3	707.3	579.0	492.9	449.0
65°	8622.2	6937.6	4937.3	3006.3	1667.7	960.5	631.3	481.1	398.4	357.9	332.5
66°	8228.9	6583.1	4584.6	2705.8	1441.5	798.4	519.9	403.4	342.7	314.0	297.1
67.5°	7482.8	5924.8	3953.3	2218.0	1107.3	579.0	391.6	319.0	278.5	266.7	254.9
70°	6220.2	4724.7	2775.0	1291.3	565.5	322.4	248.1	222.8	212.7	211.0	207.6
72.5°	4766.9	3343.9	1634.0	611.0	293.7	214.4	192.4	184.0	180.6	180.6	182.3
75°	2921.9	1878.7	722.5	298.8	205.9	180.6	170.5	167.1	165.4	167.1	165.4
77.5°	975.7	597.5	308.9	226.2	187.4	167.1	160.4	157.0	157.0	157.0	157.0
80°	298.8	259.9	236.3	209.3	177.2	158.7	148.5	146.9	148.5	150.2	145.2
82.5°	224.5	212.7	199.2	185.7	160.4	141.8	138.4	138.4	138.4	133.4	126.6
85°	165.4	163.7	135.0	126.6	118.2	118.2	118.2	118.2	113.1	104.7	97.9
87.5°	30.4	28.7	30.4	32.1	47.3	50.6	50.6	54.0	59.1	55.7	55.7
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: P155618

CATALOG NUMBER: TLM-E06-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1682.9	1682.9	1682.9	1682.9	1682.9
2.5°	1689.7	1688.0	1693.0	1689.7	1691.4
5°	1704.9	1703.2	1706.5	1703.2	1708.2
7.5°	1699.8	1696.4	1694.7	1696.4	1698.1
10°	1664.4	1661.0	1659.3	1657.6	1659.3
12.5°	1634.0	1627.2	1627.2	1623.8	1625.5
15°	1612.0	1607.0	1605.3	1601.9	1603.6
17.5°	1601.9	1593.5	1590.1	1586.7	1586.7
20°	1595.1	1585.0	1580.0	1576.6	1574.9
22.5°	1595.1	1580.0	1573.2	1569.8	1568.1
25°	1601.9	1583.3	1573.2	1568.1	1566.4
27.5°	1615.4	1591.8	1580.0	1573.2	1573.2
30°	1639.0	1608.6	1591.8	1583.3	1581.6
32.5°	1662.7	1622.2	1598.5	1588.4	1585.0
35°	1674.5	1622.2	1593.5	1576.6	1573.2
37.5°	1661.0	1600.2	1564.8	1539.4	1534.4
40°	1618.8	1554.6	1515.8	1492.2	1488.8
42.5°	1563.1	1500.6	1455.0	1438.2	1433.1
45°	1487.1	1412.8	1367.3	1343.6	1345.3
47.5°	1357.1	1281.2	1240.7	1218.7	1222.1
50°	1203.5	1129.3	1093.8	1070.2	1075.2
52.5°	1034.7	967.2	933.5	921.6	918.3
55°	857.5	805.2	781.5	768.0	763.0
57.5°	695.4	658.3	641.4	624.6	626.2
60°	548.6	530.0	525.0	506.4	504.7
62.5°	432.1	420.3	415.2	401.7	403.4
65°	327.5	324.1	327.5	319.0	322.4
66°	295.4	297.1	297.1	292.0	295.4
67.5°	254.9	258.3	263.3	258.3	261.6
70°	211.0	214.4	217.7	217.7	217.7
72.5°	184.0	187.4	189.1	189.1	189.1
75°	168.8	170.5	172.2	168.8	168.8
77.5°	158.7	158.7	155.3	153.6	151.9
80°	143.5	141.8	136.7	133.4	133.4
82.5°	119.8	116.5	113.1	108.0	108.0
85°	91.2	87.8	84.4	77.6	74.3
87.5°	47.3	49.0	47.3	38.8	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)