

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: P148963

Luminaire Tested: **TLM-F04-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148963
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F04-LED-E1-RW-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

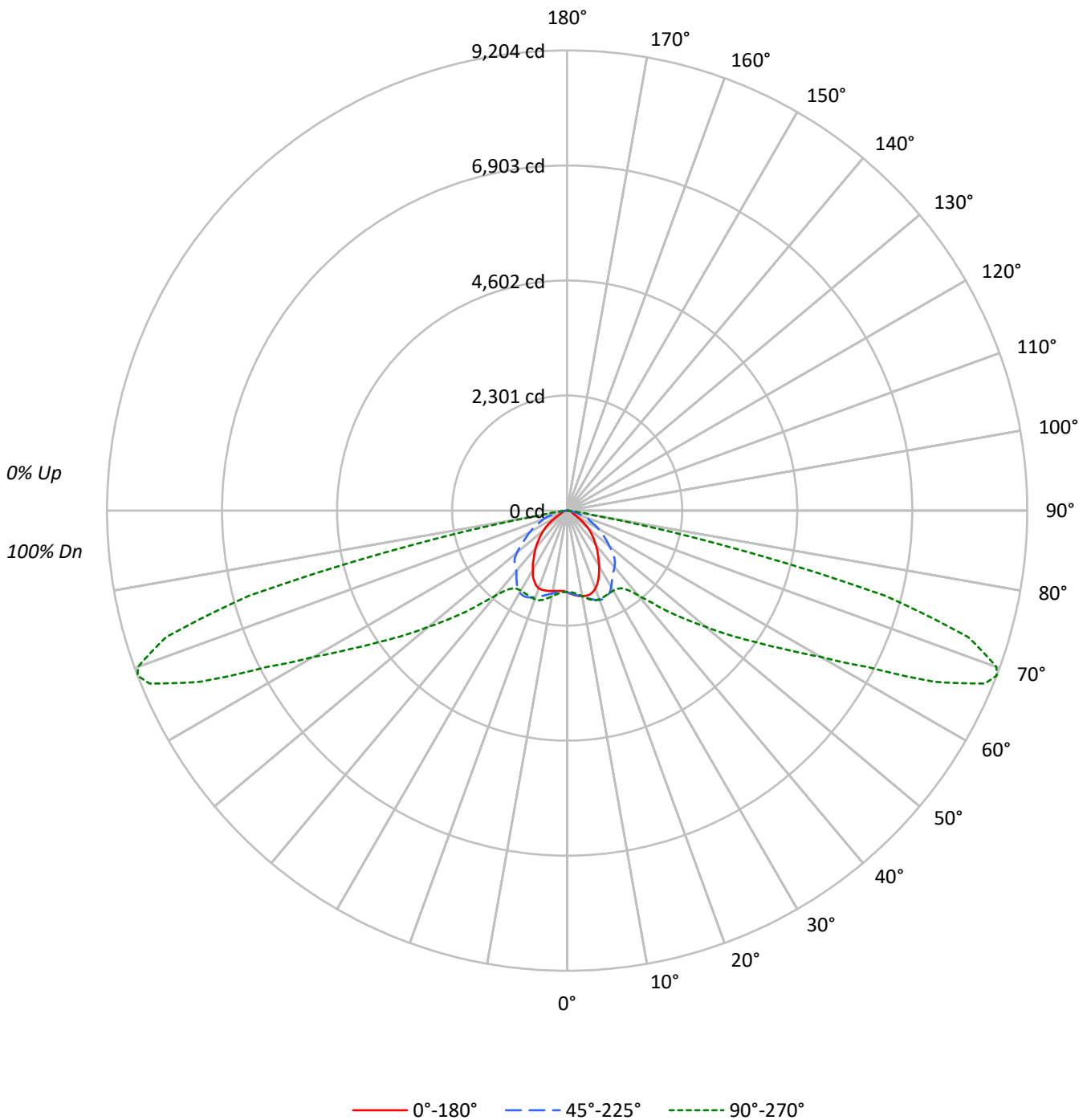
Lumens per Lamp: N/A
Luminaire Lumens: 8706.2 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 102.2
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-F04-LED-E1-RW-8030

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	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	100	100	100	100	100		
	1	106	101	95	91	104	98	93	89	94	90	86	90	87	84	86	84	81	79	79	79	79	79	79		
	2	94	84	76	69	91	82	75	68	79	72	66	75	70	65	72	67	63	61	61	61	61	61	61		
	3	84	72	62	54	81	70	61	54	67	59	52	64	57	51	61	55	51	48	48	48	48	48	48		
	4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39	39	39	39	39	39		
	5	69	54	44	36	67	53	43	36	51	42	35	49	41	35	47	40	35	32	32	32	32	32	32		
	6	63	48	38	31	61	47	37	30	45	36	30	43	36	30	42	35	29	27	27	27	27	27	27		
	7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	38	31	25	23	23	23	23	23	23		
	8	54	39	29	23	52	38	29	23	37	29	23	35	28	23	34	27	22	20	20	20	20	20	20		
	9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18	18	18	18	18	18		
	10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16	16	16	16	16	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	26208	26208	26208
5°	27371	26682	25993
10°	28309	28400	26687
15°	28955	30731	27533
20°	28256	32258	28319
25°	26364	33051	27550
30°	23730	34312	25489
35°	21079	37185	22794
40°	18585	46271	20534
45°	16252	64839	17940
50°	13676	90389	15394
55°	9862	128280	12100
60°	5880	187842	7223
65°	5295	307768	5295
70°	5411	429211	5500
75°	5767	408493	6052
80°	5847	52596	6356
85°	3760	13180	5309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	1.8
10°-20°	504.8	5.8
20°-30°	817.8	9.4
30°-40°	1019.2	11.7
40°-50°	1273.6	14.6
50°-60°	1572.6	18.1
60°-70°	1954.0	22.4
70°-80°	1297.2	14.9
80°-90°	107.1	1.2
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°	1482.6	17.0
0°-40°	2501.7	28.7
0°-60°	5347.9	61.4
0°-90°	8706.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8706.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1631	1631	1631	1631	1631	
5°	1697	1687	1654	1628	1612	163
15°	1741	1830	1848	1757	1655	487
25°	1487	1894	1864	1912	1554	680
35°	1075	1583	1896	1761	1162	673
45°	715	1333	2854	1488	790	552
55°	352	902	4580	1057	432	314
65°	139	523	8096	665	139	140
75°	93	206	6581	268	98	97
85°	20	39	72	51	29	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3
2.5°	1668.4	1674.0	1668.4	1668.4	1663.8	1659.2	1656.4	1649.9	1646.2	1644.3	1644.3
5°	1697.2	1696.3	1697.2	1697.2	1692.6	1687.0	1683.3	1677.7	1672.2	1671.2	1670.3
7.5°	1718.6	1717.7	1720.5	1726.0	1723.3	1718.6	1718.6	1713.0	1709.3	1709.3	1707.5
10°	1735.3	1736.3	1741.8	1750.2	1752.1	1751.1	1757.6	1755.8	1753.9	1755.8	1753.9
12.5°	1746.5	1747.4	1754.8	1770.6	1780.9	1787.4	1804.1	1805.0	1805.9	1805.9	1805.9
15°	1740.9	1740.9	1755.8	1785.5	1810.6	1830.1	1851.5	1855.2	1851.5	1854.2	1852.4
17.5°	1708.4	1710.3	1734.4	1779.9	1831.0	1873.8	1897.0	1890.5	1884.0	1884.0	1881.2
20°	1652.7	1656.4	1688.9	1753.0	1833.8	1901.6	1937.9	1916.5	1898.8	1896.0	1893.3
22.5°	1583.9	1581.1	1620.1	1701.0	1812.4	1913.7	1962.9	1936.9	1905.3	1898.8	1894.2
25°	1487.3	1489.2	1530.0	1620.1	1758.6	1894.2	1970.4	1957.4	1920.2	1911.8	1901.6
27.5°	1381.4	1386.0	1429.7	1521.7	1675.0	1845.9	1962.0	1977.8	1949.0	1939.7	1930.4
30°	1279.2	1282.0	1331.2	1429.7	1571.8	1760.4	1939.7	2000.1	1985.2	1977.8	1969.4
32.5°	1170.5	1179.8	1222.5	1334.0	1490.1	1666.6	1905.3	2023.3	2028.9	2024.2	2019.6
35°	1074.8	1082.3	1130.6	1247.6	1411.1	1583.0	1863.5	2048.4	2086.5	2085.6	2084.6
37.5°	988.4	990.3	1041.4	1160.3	1333.1	1524.5	1819.9	2089.3	2157.1	2166.4	2177.5
40°	886.2	895.5	948.5	1076.7	1256.0	1474.3	1782.7	2144.1	2255.6	2276.0	2291.8
42.5°	804.5	804.5	851.9	979.1	1164.9	1416.7	1769.7	2212.8	2372.6	2400.5	2428.4
45°	715.3	718.1	763.6	879.7	1060.9	1333.1	1767.9	2289.0	2503.6	2543.5	2577.9
47.5°	630.8	632.6	680.9	793.3	953.1	1217.9	1744.6	2373.5	2641.1	2698.7	2736.8
50°	547.2	544.4	590.8	705.1	857.4	1099.0	1670.3	2483.2	2812.0	2869.6	2913.3
52.5°	444.1	451.5	501.6	610.3	763.6	997.7	1518.9	2590.9	2988.5	3053.6	3113.0
55°	352.1	351.2	407.8	506.3	662.4	902.0	1339.6	2667.1	3160.4	3235.6	3301.6
57.5°	252.7	255.5	303.8	401.3	557.4	816.6	1204.0	2654.1	3293.2	3382.4	3466.0
60°	183.0	188.6	224.8	296.3	445.0	718.1	1109.2	2503.6	3384.3	3506.0	3607.2
62.5°	154.2	158.9	190.4	229.5	343.7	615.0	1017.2	2262.1	3502.3	3663.0	3809.7
65°	139.3	143.1	174.6	196.9	263.8	523.0	959.6	2091.1	3657.4	3901.7	4102.4
67.5°	125.4	131.0	158.9	175.6	223.9	467.3	942.9	2065.1	3687.1	4010.4	4295.6
69°	118.9	124.5	149.6	164.4	210.9	449.6	911.3	1971.3	3493.0	3840.4	4160.0
70°	115.2	119.8	142.1	157.9	207.2	432.9	866.7	1833.8	3286.7	3637.0	3980.7
72.5°	105.9	108.7	127.3	143.1	190.4	332.6	656.8	1324.7	2453.4	2799.9	3137.2
75°	92.9	95.7	112.4	128.2	147.7	206.2	398.5	785.9	1505.9	1739.1	2077.2
77.5°	79.9	82.7	96.6	120.8	117.1	134.7	243.4	470.1	789.6	905.8	1122.2
80°	63.2	66.9	80.8	116.1	97.5	106.8	178.4	347.4	480.3	528.6	585.3
82.5°	44.6	46.4	61.3	92.9	73.4	80.8	133.8	288.9	385.5	420.8	437.5
85°	20.4	21.4	36.2	54.8	43.7	39.0	71.5	184.9	255.5	265.7	280.6
87.5°	0.0	0.0	3.7	3.7	7.4	4.6	8.4	23.2	39.0	39.0	47.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3
2.5°	1645.2	1644.3	1645.2	1645.2	1646.2	1642.4	1641.5	1640.6	1639.7	1640.6	1638.7
5°	1670.3	1669.4	1669.4	1670.3	1669.4	1666.6	1665.7	1665.7	1662.9	1661.9	1661.9
7.5°	1708.4	1706.5	1703.8	1705.6	1706.5	1705.6	1706.5	1703.8	1703.8	1701.0	1701.9
10°	1755.8	1753.9	1753.0	1754.8	1755.8	1754.8	1755.8	1752.1	1751.1	1750.2	1748.3
12.5°	1807.8	1804.1	1806.9	1806.9	1807.8	1811.5	1806.9	1808.7	1805.0	1805.0	1804.1
15°	1853.3	1852.4	1854.2	1854.2	1853.3	1856.1	1855.2	1856.1	1851.5	1849.6	1854.2
17.5°	1882.1	1879.3	1880.3	1879.3	1879.3	1879.3	1881.2	1881.2	1878.4	1877.5	1879.3
20°	1889.5	1884.9	1884.0	1883.0	1881.2	1881.2	1882.1	1880.3	1878.4	1876.5	1878.4
22.5°	1887.7	1882.1	1876.5	1873.8	1871.0	1867.3	1866.3	1864.5	1861.7	1861.7	1862.6
25°	1894.2	1884.0	1875.6	1870.0	1862.6	1858.0	1854.2	1849.6	1845.0	1842.2	1843.1
27.5°	1916.5	1905.3	1894.2	1883.0	1871.9	1862.6	1855.2	1846.8	1839.4	1833.8	1831.0
30°	1958.3	1943.4	1930.4	1917.4	1903.5	1890.5	1878.4	1865.4	1851.5	1843.1	1835.7
32.5°	2006.6	1996.4	1988.0	1973.2	1958.3	1942.5	1927.6	1916.5	1896.0	1880.3	1867.3
35°	2080.0	2076.3	2071.6	2060.5	2043.8	2035.4	2023.3	2005.7	1981.5	1967.6	1948.1
37.5°	2181.2	2182.2	2178.5	2173.8	2175.7	2159.9	2152.4	2150.6	2126.4	2117.1	2088.3
40°	2305.7	2319.7	2331.7	2331.7	2341.0	2342.0	2340.1	2355.9	2338.2	2342.0	2311.3
42.5°	2444.1	2477.6	2496.2	2510.1	2540.8	2554.7	2577.9	2612.3	2614.2	2631.8	2633.7
45°	2607.6	2644.8	2680.1	2716.3	2757.2	2805.5	2853.8	2889.1	2944.9	2956.9	2996.9
47.5°	2777.7	2831.5	2872.4	2918.9	2988.5	3050.8	3122.3	3194.8	3258.9	3304.4	3330.4
50°	2965.3	3020.1	3079.6	3131.6	3205.9	3293.2	3392.6	3492.0	3574.7	3655.5	3720.6
52.5°	3173.4	3233.8	3289.5	3357.3	3432.6	3536.6	3645.3	3781.9	3892.4	4003.0	4082.9
55°	3373.1	3440.9	3492.0	3578.4	3656.5	3763.3	3898.0	4059.6	4212.9	4346.7	4455.4
57.5°	3546.8	3613.7	3685.3	3759.6	3854.3	3961.2	4126.5	4310.5	4485.1	4660.7	4821.4
60°	3709.4	3799.5	3877.6	3976.0	4070.8	4194.3	4391.3	4618.9	4857.6	5076.0	5236.7
62.5°	3954.7	4069.9	4161.8	4283.5	4415.4	4561.3	4778.7	5029.5	5340.7	5622.2	5872.1
65°	4297.5	4474.0	4622.6	4772.2	4932.9	5133.5	5368.6	5687.2	6030.9	6447.1	6776.9
67.5°	4541.8	4762.9	4955.2	5142.8	5327.7	5549.7	5840.5	6214.0	6658.9	7096.5	7515.5
69°	4443.3	4677.4	4891.1	5077.8	5272.9	5494.9	5778.3	6187.9	6641.3	7122.5	7537.7
70°	4236.2	4488.8	4717.4	4895.7	5095.5	5315.6	5628.7	6019.8	6482.4	6980.4	7387.3
72.5°	3406.6	3673.2	3898.9	4096.8	4305.8	4564.1	4842.8	5218.1	5730.9	6218.6	6580.9
75°	2346.6	2595.6	2851.0	2998.7	3238.4	3422.4	3687.1	4071.7	4500.0	4858.6	5193.9
77.5°	1327.5	1461.3	1654.5	1714.9	1886.8	2009.4	2149.7	2386.6	2609.5	2817.6	2878.0
80°	603.8	563.9	583.4	553.7	586.2	565.7	542.5	555.5	552.7	594.5	555.5
82.5°	434.8	375.3	312.1	269.4	236.9	200.7	170.9	153.3	151.4	158.9	156.1
85°	277.8	253.6	198.8	159.8	122.6	94.8	79.0	71.5	71.5	76.2	75.2
87.5°	48.3	41.8	26.0	22.3	19.5	13.0	8.4	8.4	7.4	9.3	12.1
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3
2.5°	1638.7	1637.8	1635.9	1635.0	1635.0	1633.1	1632.2	1634.1	1635.0	1635.9	1633.1
5°	1661.9	1659.2	1658.2	1659.2	1654.5	1655.4	1654.5	1655.4	1655.4	1655.4	1653.6
7.5°	1699.1	1696.3	1698.2	1696.3	1693.5	1692.6	1692.6	1689.8	1686.1	1685.2	1686.1
10°	1750.2	1746.5	1747.4	1748.3	1745.6	1743.7	1740.9	1737.2	1737.2	1736.3	1734.4
12.5°	1805.0	1803.2	1803.2	1804.1	1803.2	1799.4	1795.7	1793.9	1792.9	1792.9	1792.9
15°	1852.4	1851.5	1852.4	1851.5	1851.5	1849.6	1847.7	1845.0	1844.0	1845.0	1845.9
17.5°	1879.3	1876.5	1879.3	1880.3	1879.3	1879.3	1879.3	1877.5	1876.5	1876.5	1877.5
20°	1881.2	1879.3	1881.2	1884.0	1884.0	1884.9	1886.8	1887.7	1886.8	1888.6	1889.5
22.5°	1862.6	1862.6	1865.4	1868.2	1872.8	1874.7	1878.4	1880.3	1882.1	1884.9	1886.8
25°	1844.0	1843.1	1845.9	1851.5	1855.2	1859.8	1864.5	1868.2	1871.9	1875.6	1879.3
27.5°	1831.0	1830.1	1832.0	1836.6	1841.2	1846.8	1854.2	1859.8	1864.5	1869.1	1871.9
30°	1832.0	1828.2	1827.3	1831.0	1835.7	1842.2	1849.6	1856.1	1862.6	1866.3	1869.1
32.5°	1858.9	1849.6	1845.9	1845.0	1846.8	1851.5	1857.0	1863.5	1868.2	1871.9	1872.8
35°	1928.6	1910.9	1907.2	1895.1	1897.0	1896.0	1896.0	1899.8	1903.5	1903.5	1897.0
37.5°	2069.8	2044.7	2027.0	2015.0	2002.9	2002.0	2000.1	1998.2	1988.9	1983.4	1982.4
40°	2289.9	2279.7	2246.3	2237.0	2216.5	2202.6	2206.3	2198.9	2176.6	2168.2	2164.5
42.5°	2611.4	2616.9	2598.4	2554.7	2537.0	2510.1	2487.8	2484.1	2463.7	2446.9	2433.9
45°	2988.5	2998.7	2984.8	2953.2	2921.6	2880.8	2853.8	2801.8	2781.4	2755.4	2737.7
47.5°	3375.9	3403.8	3381.5	3353.6	3336.0	3271.9	3216.1	3155.7	3125.1	3087.9	3071.2
50°	3760.5	3809.7	3796.7	3770.7	3751.2	3670.4	3616.5	3532.9	3515.3	3478.1	3457.7
52.5°	4145.1	4193.4	4222.2	4198.1	4184.1	4119.1	4081.9	4015.1	3964.9	3941.7	3940.7
55°	4533.4	4611.5	4657.0	4648.6	4625.4	4617.0	4579.9	4573.4	4534.4	4509.3	4475.8
57.5°	4913.4	4996.1	5075.0	5121.5	5141.0	5134.5	5152.1	5150.3	5155.8	5153.1	5098.2
60°	5396.4	5527.4	5642.6	5716.0	5785.7	5834.0	5846.1	5917.6	5897.2	5941.8	5856.3
62.5°	6078.3	6248.3	6423.0	6500.1	6585.5	6742.5	6779.7	6864.2	6877.2	6888.4	6842.9
65°	7028.7	7251.6	7515.5	7633.4	7767.2	7968.8	8096.1	8186.2	8183.4	8122.1	8063.6
67.5°	7839.7	8103.5	8346.0	8551.3	8751.0	8908.0	9041.8	9163.5	9170.0	9131.9	9031.6
69°	7909.3	8185.2	8449.1	8696.2	8894.1	9068.7	9204.3	9299.1	9319.5	9286.1	9193.2
70°	7780.2	8058.9	8346.0	8582.9	8806.7	8991.6	9137.5	9228.5	9256.4	9222.0	9134.7
72.5°	6985.9	7256.3	7470.9	7749.6	8068.2	8184.3	8409.1	8483.5	8552.2	8506.7	8454.7
75°	5472.6	5727.2	5949.2	6094.1	6240.0	6527.0	6580.9	6720.2	6767.6	6723.0	6780.6
77.5°	2851.0	3022.9	3097.2	2981.1	2998.7	3225.4	3097.2	3247.7	3334.1	3359.2	3395.4
80°	545.3	573.2	594.5	587.1	594.5	611.3	568.5	545.3	576.0	569.5	569.5
82.5°	160.7	157.9	157.9	166.3	165.4	169.1	169.1	162.6	167.2	167.2	168.1
85°	73.4	69.7	68.7	69.7	68.7	68.7	71.5	71.5	77.1	72.5	73.4
87.5°	9.3	8.4	9.3	9.3	7.4	7.4	8.4	9.3	9.3	8.4	8.4
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: P148963

CATALOG NUMBER: TLM-F04-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3	1631.3
2.5°	1632.2	1631.3	1631.3	1631.3	1630.4	1629.4	1628.5	1625.7	1622.9	1622.0	1617.4
5°	1649.9	1650.8	1648.9	1647.1	1647.1	1647.1	1644.3	1636.9	1631.3	1628.5	1622.0
7.5°	1687.0	1685.2	1682.4	1681.5	1679.6	1680.5	1675.0	1665.7	1655.4	1648.9	1638.7
10°	1736.3	1734.4	1732.5	1730.7	1727.9	1727.9	1721.4	1707.5	1691.7	1680.5	1661.9
12.5°	1793.9	1792.0	1790.1	1789.2	1784.6	1783.6	1774.4	1757.6	1737.2	1715.8	1688.9
15°	1846.8	1844.0	1843.1	1840.3	1837.5	1836.6	1828.2	1805.9	1780.9	1756.7	1721.4
17.5°	1880.3	1878.4	1875.6	1873.8	1872.8	1871.9	1859.8	1841.2	1821.7	1797.6	1754.8
20°	1891.4	1892.3	1890.5	1888.6	1885.8	1884.0	1872.8	1855.2	1851.5	1838.5	1794.8
22.5°	1889.5	1889.5	1888.6	1884.9	1883.0	1878.4	1862.6	1854.2	1874.7	1880.3	1824.5
25°	1882.1	1881.2	1878.4	1875.6	1870.0	1863.5	1839.4	1844.0	1901.6	1911.8	1831.0
27.5°	1873.8	1872.8	1868.2	1861.7	1853.3	1844.0	1813.4	1844.0	1926.7	1918.3	1804.1
30°	1869.1	1865.4	1858.9	1849.6	1838.5	1828.2	1794.8	1868.2	1944.4	1896.0	1729.8
32.5°	1870.0	1863.5	1854.2	1842.2	1829.2	1817.1	1793.9	1910.9	1950.9	1842.2	1624.8
35°	1892.3	1882.1	1870.0	1858.0	1845.0	1833.8	1835.7	1970.4	1949.9	1761.3	1523.5
37.5°	1973.2	1955.5	1947.1	1934.1	1915.6	1906.3	1943.4	2036.3	1936.9	1662.9	1434.3
40°	2151.5	2136.7	2124.6	2091.1	2097.6	2090.2	2125.5	2126.4	1920.2	1580.2	1360.0
42.5°	2411.6	2411.6	2385.6	2381.0	2363.3	2371.7	2387.5	2232.3	1903.5	1531.0	1286.6
45°	2718.2	2741.4	2731.2	2728.4	2742.4	2759.1	2686.6	2357.8	1904.4	1488.2	1201.2
47.5°	3082.4	3101.9	3112.1	3128.8	3146.5	3136.2	2986.7	2489.7	1921.1	1426.9	1091.6
50°	3469.7	3517.1	3532.0	3553.4	3569.1	3571.9	3270.9	2625.3	1938.8	1314.5	972.6
52.5°	3950.0	3994.6	4010.4	4025.3	4013.2	4003.0	3549.6	2786.0	1924.8	1180.7	871.4
55°	4514.8	4523.2	4520.4	4501.8	4491.6	4435.9	3807.9	2956.9	1816.2	1057.2	774.8
57.5°	5102.9	5106.6	5073.2	5008.1	4932.9	4879.9	4055.9	3098.2	1585.8	957.8	679.1
60°	5860.0	5783.8	5727.2	5627.8	5505.1	5391.8	4321.6	3177.1	1365.6	862.1	571.3
62.5°	6774.1	6621.8	6499.1	6398.8	6217.7	6017.9	4660.7	3187.3	1231.8	771.1	448.7
65°	7957.6	7796.9	7587.9	7416.1	7220.0	6950.6	5207.9	3113.9	1165.9	665.2	327.9
67.5°	8889.4	8726.8	8492.7	8300.4	8047.8	7733.8	5661.2	2985.7	1150.1	569.5	258.3
69°	9052.0	8874.6	8663.7	8423.1	8154.6	7819.2	5678.9	2837.1	1125.9	533.2	236.9
70°	8992.5	8807.7	8604.2	8348.7	8047.8	7703.1	5545.1	2671.7	1077.6	512.8	229.5
72.5°	8325.5	8044.0	7839.7	7621.4	7255.3	6906.0	4774.0	2021.5	838.9	432.0	214.6
75°	6665.4	6424.8	6194.4	6085.8	5782.0	5485.6	3584.0	1283.9	548.1	268.5	168.1
77.5°	3398.2	3354.5	3420.5	3371.3	3152.0	3152.0	2211.9	681.9	322.4	161.6	128.2
80°	610.3	636.4	624.3	650.3	604.8	671.7	777.6	458.0	228.5	123.6	105.0
82.5°	170.9	172.8	170.9	171.9	177.4	186.7	404.1	393.9	176.5	92.9	81.8
85°	79.9	80.8	82.7	82.7	90.1	92.0	271.3	282.4	103.1	51.1	54.8
87.5°	9.3	12.1	12.1	11.1	13.0	13.0	50.2	56.7	13.9	10.2	16.7
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: P148963

CATALOG NUMBER: TLM-F04-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	1631.3	1631.3	1631.3	1631.3
2.5°	1613.6	1609.9	1606.2	1609.0
5°	1619.2	1613.6	1609.0	1611.8
7.5°	1634.1	1624.8	1623.9	1623.9
10°	1652.7	1639.7	1635.9	1635.9
12.5°	1672.2	1654.5	1648.0	1648.0
15°	1692.6	1667.5	1658.2	1655.4
17.5°	1715.8	1680.5	1663.8	1663.8
20°	1738.1	1682.4	1657.3	1656.4
22.5°	1741.8	1661.0	1624.8	1622.9
25°	1714.0	1610.9	1563.5	1554.2
27.5°	1648.0	1532.8	1482.7	1480.8
30°	1548.6	1430.6	1379.5	1374.0
32.5°	1451.1	1325.7	1278.3	1278.3
35°	1352.6	1230.0	1168.7	1162.2
37.5°	1261.6	1128.7	1073.9	1073.0
40°	1177.9	1040.5	987.5	979.1
42.5°	1094.3	947.6	887.2	885.3
45°	994.9	846.3	794.3	789.6
47.5°	889.0	755.3	700.5	699.5
50°	793.3	670.7	615.9	615.9
52.5°	706.0	588.0	533.2	527.7
55°	607.6	494.2	438.5	432.0
57.5°	500.7	389.2	339.1	325.1
60°	387.4	283.3	232.2	224.8
62.5°	282.4	207.2	169.1	163.5
65°	212.7	176.5	144.9	139.3
67.5°	183.0	158.9	131.9	126.3
69°	170.0	150.5	126.3	120.8
70°	164.4	144.9	121.7	117.1
72.5°	151.4	132.8	111.5	109.6
75°	138.4	120.8	100.3	97.5
77.5°	133.8	105.0	86.4	84.5
80°	136.6	85.5	70.6	68.7
82.5°	111.5	68.7	54.8	52.0
85°	69.7	46.4	28.8	28.8
87.5°	17.7	14.9	8.4	8.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)