

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: P155624

Luminaire Tested: **TLM-F06-LED-E1-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155624
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-F06-LED-E1-T3-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

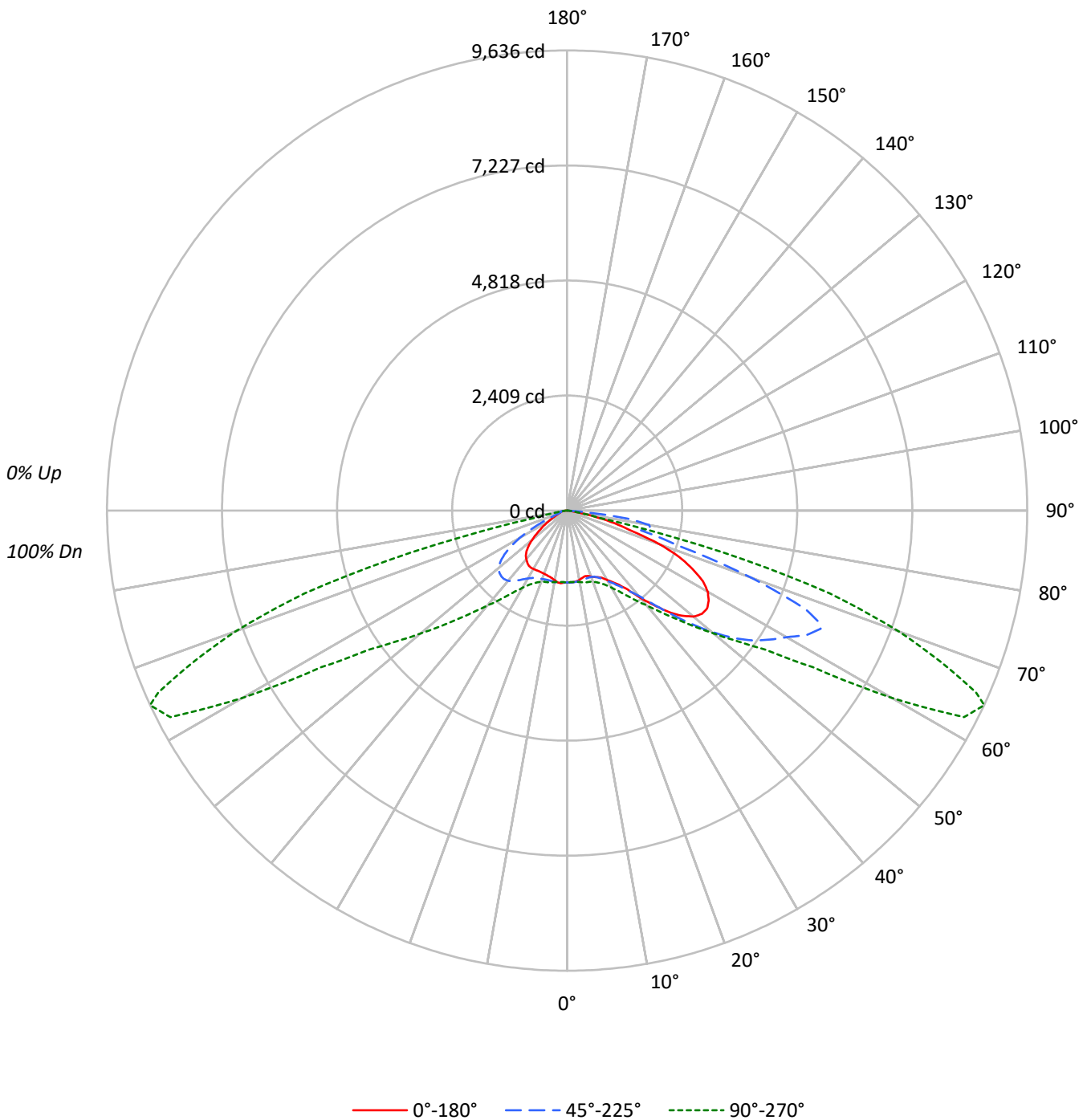
Lumens per Lamp: N/A
Luminaire Lumens: 13951.5 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 156.5
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°	16184	16184	16184
5°	16245	16229	16490
10°	16103	16597	16203
15°	15863	17325	15964
20°	16842	18189	16117
25°	18268	19952	16620
30°	20824	23204	17562
35°	24968	28455	18467
40°	33436	36424	18688
45°	45681	48505	18296
50°	57803	66969	16086
55°	67155	95340	12791
60°	73173	168617	9707
65°	73859	245425	7335
70°	64734	232452	6121
75°	42770	140669	6272
80°	15608	14300	7383
85°	2606	9497	8201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	1.0
10°-20°	425.0	3.0
20°-30°	730.4	5.2
30°-40°	1186.0	8.5
40°-50°	1980.0	14.2
50°-60°	3117.7	22.3
60°-70°	4251.4	30.5
70°-80°	1840.4	13.2
80°-90°	276.7	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°	1299.4	9.3
0°-40°	2485.4	17.8
0°-60°	7583.0	54.4
0°-90°	13951.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13951.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1504	1504	1504	1504	1504	
5°	1504	1506	1502	1520	1526	143
15°	1424	1482	1555	1510	1433	409
25°	1538	1547	1680	1559	1399	721
35°	1900	1942	2166	1782	1405	1231
45°	3001	3040	3186	1950	1202	2307
55°	3578	4740	5080	1606	682	3156
65°	2900	5858	9636	564	288	2816
75°	1028	1602	3382	152	151	1099
85°	21	356	77	106	66	55
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°	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5
2.5°	1509.5	1515.5	1509.5	1511.0	1512.5	1511.0	1509.5	1509.5	1505.0	1508.0	1511.0
5°	1503.5	1508.0	1506.5	1508.0	1509.5	1508.0	1506.5	1508.0	1505.0	1506.5	1511.0
7.5°	1495.9	1494.4	1495.9	1498.9	1502.0	1502.0	1502.0	1503.5	1502.0	1502.0	1506.5
10°	1473.3	1474.8	1477.8	1482.4	1483.9	1488.4	1488.4	1492.9	1494.4	1497.4	1503.5
12.5°	1444.7	1446.2	1449.2	1452.2	1459.7	1467.3	1467.3	1477.8	1482.4	1489.9	1500.4
15°	1423.5	1425.0	1428.1	1431.1	1437.1	1444.7	1449.2	1461.2	1468.8	1482.4	1497.4
17.5°	1435.6	1434.1	1437.1	1438.6	1438.6	1444.7	1444.7	1453.7	1462.7	1474.8	1494.4
20°	1470.3	1470.3	1473.3	1473.3	1471.8	1474.8	1468.8	1468.8	1470.3	1476.3	1489.9
22.5°	1505.0	1503.5	1509.5	1512.5	1514.0	1518.5	1512.5	1511.0	1503.5	1498.9	1503.5
25°	1538.1	1536.6	1544.2	1548.7	1556.2	1560.8	1560.8	1560.8	1554.7	1547.2	1542.7
27.5°	1589.4	1589.4	1597.0	1601.5	1607.5	1616.6	1621.1	1621.1	1622.6	1612.0	1604.5
30°	1675.4	1676.9	1678.4	1684.4	1690.5	1693.5	1699.5	1704.0	1708.5	1702.5	1690.5
32.5°	1777.9	1768.9	1768.9	1777.9	1785.5	1794.5	1797.5	1803.6	1812.6	1808.1	1806.6
35°	1900.1	1897.0	1894.0	1897.0	1906.1	1916.7	1928.7	1939.3	1933.2	1942.3	1937.8
37.5°	2081.0	2084.0	2085.5	2085.5	2084.0	2087.1	2093.1	2103.6	2100.6	2103.6	2109.7
40°	2379.6	2369.0	2358.5	2360.0	2344.9	2347.9	2323.8	2334.4	2335.9	2325.3	2329.8
42.5°	2678.2	2684.2	2688.7	2700.8	2690.2	2684.2	2661.6	2661.6	2649.5	2639.0	2636.0
45°	3000.9	3013.0	3014.5	3038.6	3029.5	3049.1	3065.7	3061.2	3041.6	3040.1	3019.0
47.5°	3258.8	3278.4	3299.5	3328.1	3350.7	3394.5	3445.8	3471.4	3486.5	3498.5	3474.4
50°	3451.8	3460.8	3515.1	3560.4	3610.1	3682.5	3753.4	3845.4	3919.3	3953.9	3987.1
52.5°	3555.8	3578.5	3637.3	3708.1	3795.6	3904.2	4018.8	4165.1	4291.7	4376.2	4451.6
55°	3578.5	3601.1	3667.4	3757.9	3877.0	4023.3	4187.7	4386.7	4576.7	4739.6	4897.9
57.5°	3515.1	3540.8	3611.6	3715.7	3855.9	4033.9	4240.5	4501.3	4763.7	5027.6	5261.4
60°	3399.0	3430.7	3495.5	3598.1	3753.4	3953.9	4201.3	4528.5	4896.4	5300.6	5748.4
62.5°	3207.5	3240.7	3301.0	3414.1	3573.9	3795.6	4082.1	4489.3	5009.5	5645.9	6440.6
65°	2899.9	2914.9	2988.8	3103.4	3245.2	3489.5	3804.7	4296.3	4973.3	5858.5	6953.3
66°	2761.1	2786.8	2832.0	2924.0	3059.7	3288.9	3605.6	4104.7	4836.1	5784.6	6939.8
67.5°	2544.0	2563.6	2593.7	2655.6	2738.5	2907.4	3207.5	3679.5	4416.9	5410.7	6651.7
70°	2056.9	2065.9	2106.7	2127.8	2156.4	2212.2	2320.8	2592.2	3166.8	4100.2	5368.4
72.5°	1402.4	1428.1	1471.8	1532.1	1610.5	1685.9	1737.2	1771.9	1895.5	2446.0	3576.9
75°	1028.4	1055.6	1111.4	1191.3	1328.5	1485.4	1648.2	1723.6	1672.4	1601.5	1992.1
77.5°	597.2	633.4	680.1	757.0	883.7	1091.8	1370.8	1618.1	1785.5	1796.0	1705.5
80°	251.8	256.4	285.0	324.2	402.6	548.9	766.1	1121.9	1492.9	1743.2	1802.0
82.5°	57.3	70.9	90.5	107.1	131.2	181.0	268.4	446.4	806.8	1265.2	1649.7
85°	21.1	21.1	28.7	42.2	48.3	54.3	70.9	113.1	193.0	355.9	741.9
87.5°	0.0	1.5	3.0	3.0	6.0	7.5	12.1	16.6	15.1	13.6	45.2
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°	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5
2.5°	1508.0	1506.5	1503.5	1503.5	1503.5	1503.5	1500.4	1502.0	1498.9	1500.4	1500.4
5°	1506.5	1506.5	1505.0	1502.0	1503.5	1503.5	1505.0	1502.0	1502.0	1503.5	1502.0
7.5°	1506.5	1505.0	1505.0	1505.0	1506.5	1505.0	1506.5	1506.5	1506.5	1508.0	1508.0
10°	1506.5	1506.5	1509.5	1511.0	1511.0	1512.5	1517.0	1517.0	1518.5	1520.1	1523.1
12.5°	1508.0	1514.0	1518.5	1523.1	1524.6	1527.6	1535.1	1535.1	1538.1	1542.7	1544.2
15°	1509.5	1518.5	1527.6	1530.6	1533.6	1539.7	1547.2	1550.2	1554.7	1559.3	1562.3
17.5°	1508.0	1520.1	1530.6	1535.1	1539.7	1547.2	1556.2	1559.3	1565.3	1571.3	1577.4
20°	1506.5	1523.1	1539.7	1545.7	1551.7	1562.3	1574.3	1581.9	1587.9	1597.0	1603.0
22.5°	1515.5	1535.1	1557.8	1566.8	1577.4	1590.9	1607.5	1616.6	1624.1	1633.1	1637.7
25°	1544.2	1559.3	1586.4	1601.5	1615.1	1637.7	1660.3	1670.8	1679.9	1687.4	1688.9
27.5°	1592.4	1597.0	1630.1	1649.7	1669.3	1705.5	1732.7	1740.2	1756.8	1762.8	1761.3
30°	1670.8	1663.3	1690.5	1720.6	1749.3	1799.0	1832.2	1851.8	1866.9	1866.9	1854.8
32.5°	1783.9	1771.9	1779.4	1814.1	1847.3	1919.7	1958.9	1984.5	1995.1	1992.1	1966.4
35°	1931.7	1924.2	1919.7	1946.8	1999.6	2084.0	2135.3	2148.9	2165.5	2162.5	2129.3
37.5°	2106.7	2100.6	2100.6	2132.3	2183.6	2308.7	2364.5	2373.6	2372.1	2347.9	2286.1
40°	2313.3	2310.2	2296.7	2314.8	2358.5	2521.4	2596.8	2608.8	2592.2	2553.0	2480.6
42.5°	2610.3	2592.2	2550.0	2560.6	2593.7	2752.1	2850.1	2883.3	2866.7	2827.5	2709.9
45°	2997.9	2978.3	2907.4	2898.4	2916.4	3055.2	3181.9	3189.4	3186.4	3136.6	2997.9
47.5°	3453.3	3423.1	3347.7	3323.6	3317.6	3445.8	3567.9	3580.0	3572.4	3498.5	3313.0
50°	3946.4	3902.7	3852.9	3836.3	3812.2	3904.2	4027.8	4029.3	3999.2	3896.6	3723.2
52.5°	4472.7	4457.6	4448.6	4432.0	4421.4	4501.3	4576.7	4531.5	4486.3	4379.2	4228.4
55°	5003.5	5065.3	5128.7	5134.7	5152.8	5238.7	5237.2	5113.6	5080.4	5021.6	4872.3
57.5°	5567.5	5796.7	5995.8	6057.6	6117.9	6277.7	6262.7	6140.5	6098.3	6025.9	5902.3
60°	6335.1	6953.3	7527.9	7665.1	7760.1	7951.6	7933.5	7745.0	7832.5	7826.5	7666.6
62.5°	7410.2	8438.7	9299.8	9510.9	9577.2	9598.3	9483.7	9280.2	9366.1	9462.6	8971.0
65°	8138.6	9348.0	10231.7	10394.6	10403.6	10151.8	9896.9	9657.1	9636.0	9553.1	8850.4
66°	8155.2	9393.3	10279.9	10438.3	10382.5	10038.7	9716.0	9474.7	9370.6	9188.2	8459.8
67.5°	7862.6	9111.3	10065.8	10233.2	10111.1	9624.0	9179.1	8868.5	8664.9	8369.3	7726.9
70°	6603.5	7841.5	9017.8	9329.9	9369.1	8642.3	8025.5	7660.6	7386.1	6980.5	6427.0
72.5°	4910.0	6028.9	7066.4	7365.0	7517.3	6936.7	6416.5	6139.0	5763.5	5336.8	4943.2
75°	3077.8	3868.0	4563.2	4772.8	4629.5	4180.1	3868.0	3751.9	3382.4	3127.6	2948.1
77.5°	1759.8	2007.1	2062.9	1983.0	1814.1	1388.9	987.7	731.4	634.9	702.7	775.1
80°	1717.6	1574.3	1254.6	1103.8	999.8	687.6	404.1	277.5	230.7	236.8	256.4
82.5°	1860.9	1996.6	1643.7	1340.6	1125.0	760.0	419.2	223.2	150.8	177.9	200.6
85°	1209.4	1682.9	1515.5	1277.3	1034.5	649.9	345.3	116.1	76.9	101.0	138.7
87.5°	122.1	134.2	114.6	155.3	116.1	54.3	27.1	16.6	15.1	18.1	27.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5	1503.5
2.5°	1502.0	1502.0	1503.5	1505.0	1506.5	1508.0	1508.0	1508.0	1508.0	1511.0	1509.5
5°	1505.0	1508.0	1511.0	1512.5	1515.5	1515.5	1520.1	1518.5	1518.5	1523.1	1524.6
7.5°	1511.0	1515.5	1521.6	1520.1	1526.1	1524.6	1527.6	1527.6	1523.1	1524.6	1521.6
10°	1524.6	1530.6	1533.6	1529.1	1530.6	1524.6	1523.1	1515.5	1506.5	1502.0	1495.9
12.5°	1547.2	1553.2	1553.2	1545.7	1536.6	1523.1	1512.5	1495.9	1482.4	1474.8	1467.3
15°	1566.8	1572.8	1571.3	1559.3	1545.7	1524.6	1509.5	1489.9	1470.3	1458.2	1450.7
17.5°	1581.9	1584.9	1580.4	1563.8	1548.7	1529.1	1514.0	1492.9	1470.3	1455.2	1441.6
20°	1604.5	1601.5	1590.9	1569.8	1553.2	1535.1	1523.1	1505.0	1479.3	1459.7	1440.1
22.5°	1637.7	1625.6	1606.0	1583.4	1566.8	1550.2	1538.1	1518.5	1492.9	1468.8	1446.2
25°	1681.4	1657.3	1630.1	1606.0	1590.9	1572.8	1559.3	1538.1	1511.0	1483.9	1456.7
27.5°	1744.7	1702.5	1667.8	1646.7	1630.1	1607.5	1590.9	1563.8	1535.1	1503.5	1473.3
30°	1815.6	1758.3	1725.1	1708.5	1690.5	1666.3	1640.7	1606.0	1572.8	1538.1	1502.0
32.5°	1907.6	1838.2	1806.6	1790.0	1765.9	1735.7	1705.5	1666.3	1619.6	1574.3	1530.6
35°	2028.2	1957.4	1924.2	1898.6	1865.4	1826.2	1782.4	1729.7	1666.3	1606.0	1550.2
37.5°	2157.9	2081.0	2049.4	2022.2	1972.4	1921.2	1859.3	1782.4	1696.5	1616.6	1547.2
40°	2322.3	2251.4	2210.7	2164.0	2105.1	2016.2	1919.7	1808.1	1698.0	1600.0	1518.5
42.5°	2530.4	2459.5	2399.2	2325.3	2222.8	2085.5	1948.3	1803.6	1670.8	1559.3	1471.8
45°	2806.4	2720.4	2616.4	2486.7	2320.8	2129.3	1949.8	1774.9	1619.6	1495.9	1402.4
47.5°	3144.2	3013.0	2842.6	2623.9	2385.6	2141.3	1925.7	1717.6	1539.7	1405.4	1301.4
50°	3545.3	3338.7	3058.2	2737.0	2418.8	2123.2	1865.4	1631.6	1426.6	1283.3	1159.6
52.5°	4003.7	3665.9	3252.7	2818.4	2417.3	2062.9	1762.8	1502.0	1278.8	1118.9	1001.3
55°	4542.1	4039.9	3453.3	2878.7	2375.1	1951.3	1606.0	1319.5	1096.3	948.5	839.9
57.5°	5330.7	4646.1	3803.1	2972.2	2290.6	1779.4	1393.4	1100.8	904.8	764.5	672.6
60°	6772.4	5658.0	4433.5	3160.7	2160.9	1527.6	1144.6	867.1	702.7	589.6	527.8
62.5°	7858.1	6440.6	4774.3	3118.5	1900.1	1216.9	849.0	631.8	517.2	440.3	401.1
65°	7702.8	6197.8	4410.9	2685.7	1489.9	858.0	564.0	429.8	355.9	319.7	297.1
66°	7351.4	5881.1	4095.7	2417.3	1287.8	713.3	464.5	360.4	306.1	280.5	265.4
67.5°	6684.9	5293.0	3531.7	1981.5	989.2	517.2	349.9	285.0	248.8	238.3	227.7
70°	5556.9	4220.9	2479.1	1153.6	505.2	288.0	221.7	199.1	190.0	188.5	185.5
72.5°	4258.6	2987.3	1459.7	545.9	262.4	191.5	171.9	164.4	161.4	161.4	162.9
75°	2610.3	1678.4	645.4	266.9	184.0	161.4	152.3	149.3	147.8	149.3	147.8
77.5°	871.6	533.8	276.0	202.1	167.4	149.3	143.3	140.2	140.2	140.2	140.2
80°	266.9	232.2	211.1	187.0	158.3	141.8	132.7	131.2	132.7	134.2	129.7
82.5°	200.6	190.0	177.9	165.9	143.3	126.7	123.7	123.7	123.7	119.1	113.1
85°	147.8	146.3	120.6	113.1	105.6	105.6	105.6	105.6	101.0	93.5	87.5
87.5°	27.1	25.6	27.1	28.7	42.2	45.2	45.2	48.3	52.8	49.8	49.8
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: P155624

CATALOG NUMBER: TLM-F06-LED-E1-T3-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1503.5	1503.5	1503.5	1503.5	1503.5
2.5°	1509.5	1508.0	1512.5	1509.5	1511.0
5°	1523.1	1521.6	1524.6	1521.6	1526.1
7.5°	1518.5	1515.5	1514.0	1515.5	1517.0
10°	1486.9	1483.9	1482.4	1480.8	1482.4
12.5°	1459.7	1453.7	1453.7	1450.7	1452.2
15°	1440.1	1435.6	1434.1	1431.1	1432.6
17.5°	1431.1	1423.5	1420.5	1417.5	1417.5
20°	1425.0	1416.0	1411.5	1408.5	1407.0
22.5°	1425.0	1411.5	1405.4	1402.4	1400.9
25°	1431.1	1414.5	1405.4	1400.9	1399.4
27.5°	1443.1	1422.0	1411.5	1405.4	1405.4
30°	1464.3	1437.1	1422.0	1414.5	1413.0
32.5°	1485.4	1449.2	1428.1	1419.0	1416.0
35°	1495.9	1449.2	1423.5	1408.5	1405.4
37.5°	1483.9	1429.6	1397.9	1375.3	1370.8
40°	1446.2	1388.9	1354.2	1333.1	1330.0
42.5°	1396.4	1340.6	1299.9	1284.8	1280.3
45°	1328.5	1262.2	1221.5	1200.4	1201.9
47.5°	1212.4	1144.6	1108.4	1088.8	1091.8
50°	1075.2	1008.8	977.2	956.1	960.6
52.5°	924.4	864.1	833.9	823.4	820.3
55°	766.1	719.3	698.2	686.1	681.6
57.5°	621.3	588.1	573.0	558.0	559.5
60°	490.1	473.5	469.0	452.4	450.9
62.5°	386.0	375.5	371.0	358.9	360.4
65°	292.5	289.5	292.5	285.0	288.0
66°	263.9	265.4	265.4	260.9	263.9
67.5°	227.7	230.7	235.2	230.7	233.7
70°	188.5	191.5	194.5	194.5	194.5
72.5°	164.4	167.4	168.9	168.9	168.9
75°	150.8	152.3	153.8	150.8	150.8
77.5°	141.8	141.8	138.7	137.2	135.7
80°	128.2	126.7	122.1	119.1	119.1
82.5°	107.1	104.1	101.0	96.5	96.5
85°	81.4	78.4	75.4	69.4	66.4
87.5°	42.2	43.7	42.2	34.7	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)