

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: P152966

Luminaire Tested: **TLM-F05-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152966
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-F05-LED-E1-SLL-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11784.7 lumens
Efficiency: N/A
Efficacy: 88.4 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

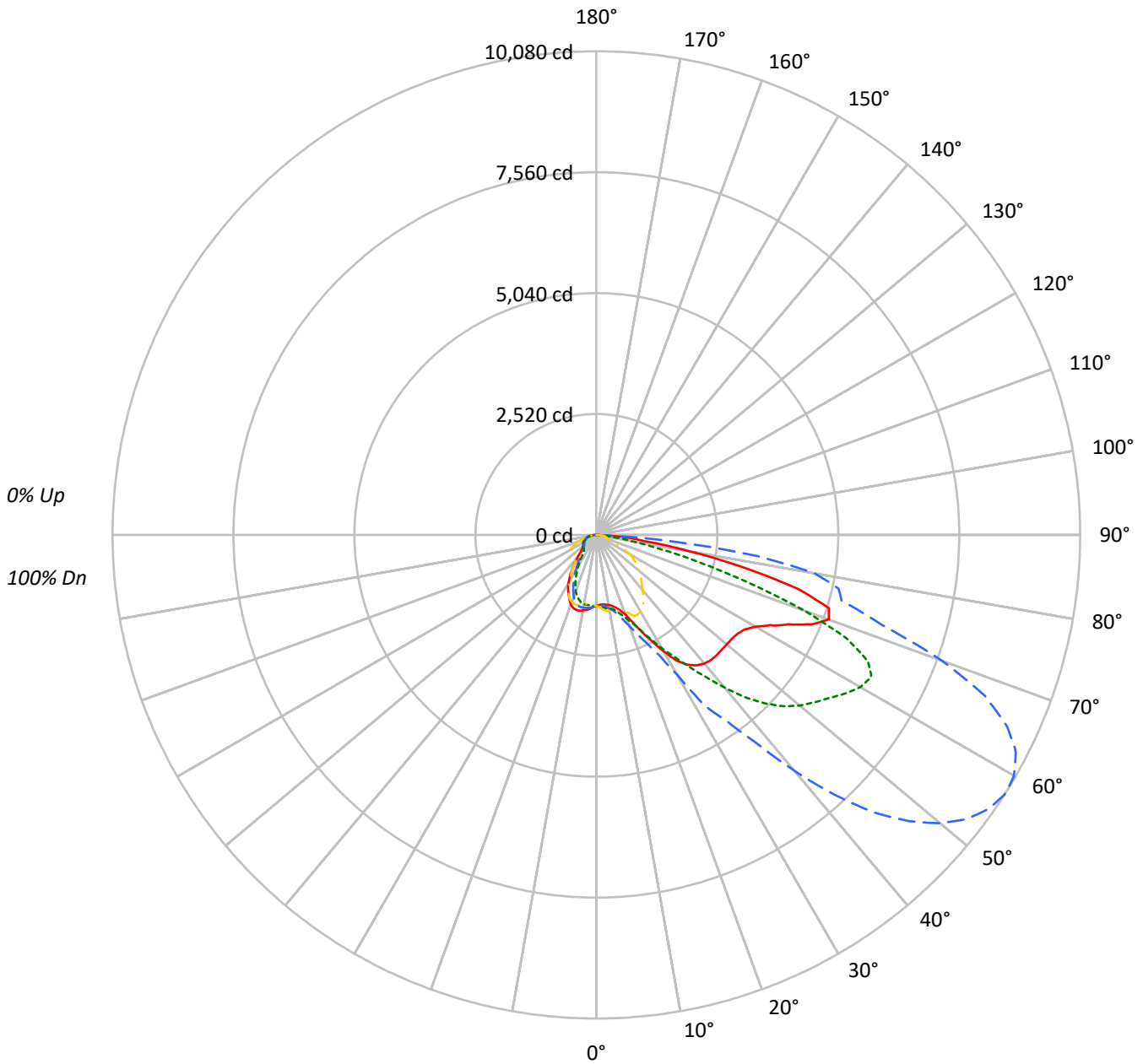
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P152966

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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					
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			
1	105	99	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77					77			
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58					58			
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45					45			
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35					35			
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29					29			
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24					24			
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20					20			
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17					17			
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15					15			
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13					13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19206	19206	19206	19206
5°	18875	19702	20125	19206
10°	19521	20488	21026	19279
15°	21059	22140	21741	18766
20°	24335	25700	21433	17302
25°	31858	31475	19555	14605
30°	41986	40845	17441	11310
35°	52302	52860	13970	7734
40°	59273	70292	10229	6763
45°	64991	91040	7690	7094
50°	71550	111599	7348	7263
55°	81111	133908	7502	7436
60°	99197	164670	8165	8165
65°	135296	191617	8620	8491
70°	195389	174406	9100	8994
75°	217949	112900	10046	9480
80°	148985	54825	11494	10224
85°	96629	26679	13868	12603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.2	1.2
10°-20°	449.0	3.8
20°-30°	797.7	6.8
30°-40°	1256.1	10.7
40°-50°	1848.6	15.7
50°-60°	2455.5	20.8
60°-70°	2704.7	23.0
70°-80°	1696.9	14.4
80°-90°	432.2	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°	1390.8	11.8
0°-40°	2646.9	22.5
0°-60°	6950.9	59.0
0°-90°	11784.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11784.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1481	1481	1481	1481	1481	
5°	1450	1513	1546	1475	1450	140
15°	1568	1649	1619	1398	1568	454
25°	2226	2200	1367	1021	2226	1051
35°	3304	3339	882	488	3304	2047
45°	3544	4964	419	387	3544	2740
55°	3587	5922	332	329	3587	3254
65°	4409	6244	281	277	4409	4439
75°	4350	2253	200	189	4350	4254
85°	649	179	93	85	649	751
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°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1461.2	1464.0	1464.0	1462.6	1462.6	1465.4	1464.0	1462.6	1458.4	1464.0	1464.0
5°	1449.9	1452.7	1452.7	1455.6	1458.4	1461.2	1461.2	1464.0	1462.6	1468.3	1472.5
7.5°	1464.0	1466.9	1472.5	1479.6	1483.8	1493.7	1493.7	1500.7	1503.6	1507.8	1506.4
10°	1482.4	1489.4	1502.1	1513.4	1521.9	1533.2	1541.7	1551.6	1551.6	1555.8	1558.6
12.5°	1514.9	1521.9	1536.0	1550.1	1562.9	1577.0	1589.7	1599.6	1609.4	1612.3	1617.9
15°	1568.5	1577.0	1598.1	1617.9	1633.4	1651.8	1668.7	1688.5	1706.9	1711.1	1713.9
17.5°	1649.0	1665.9	1681.4	1716.7	1739.3	1763.3	1790.2	1818.4	1824.0	1853.7	1860.7
20°	1763.3	1784.5	1798.6	1842.4	1880.5	1911.6	1951.1	1983.6	1996.3	2024.5	2052.7
22.5°	1961.0	1956.7	1977.9	2021.7	2049.9	2112.0	2145.9	2179.8	2196.7	2239.1	2261.7
25°	2226.4	2249.0	2295.6	2299.8	2326.6	2398.6	2442.4	2476.3	2477.7	2490.4	2514.4
27.5°	2487.6	2580.8	2654.2	2693.7	2765.7	2832.1	2829.2	2877.2	2802.4	2817.9	2840.5
30°	2803.8	2959.1	3097.5	3190.7	3264.1	3341.7	3379.8	3406.7	3374.2	3360.1	3333.2
32.5°	3100.3	3317.7	3530.9	3696.1	3833.0	3961.5	4046.2	4084.3	4129.5	4243.8	4284.8
35°	3303.6	3611.4	3876.8	4115.4	4344.1	4548.8	4697.0	4781.7	4749.3	4733.7	4725.3
37.5°	3425.0	3800.5	4132.3	4469.7	4732.3	5038.7	5268.8	5491.9	5542.7	5453.8	5410.0
40°	3501.2	3946.0	4372.3	4770.4	5110.7	5506.0	5791.2	6125.8	6379.9	6413.8	6309.3
42.5°	3538.0	4043.4	4540.3	4990.7	5450.9	5935.2	6296.6	6701.8	7081.6	7342.7	7277.8
45°	3543.6	4106.9	4663.2	5189.7	5737.5	6312.1	6778.0	7227.0	7735.2	8182.8	8195.5
47.5°	3543.6	4154.9	4747.9	5333.8	5994.5	6639.7	7147.9	7678.7	8301.3	8830.8	8993.1
50°	3546.4	4187.4	4826.9	5446.7	6190.7	6916.4	7491.0	8117.8	8772.9	9348.9	9662.3
52.5°	3559.1	4211.4	4889.0	5527.2	6317.8	7111.2	7757.8	8480.6	9132.9	9724.4	10129.6
55°	3587.4	4245.3	4934.2	5576.6	6402.5	7238.3	7951.2	8729.1	9365.8	9965.8	10532.0
57.5°	3666.4	4304.6	4989.3	5620.3	6449.1	7321.6	8086.7	8836.4	9454.8	10080.2	10745.2
60°	3824.5	4430.2	5083.9	5707.9	6526.7	7475.4	8151.7	8764.4	9389.8	10046.3	10793.2
62.5°	4077.3	4626.4	5215.2	5856.1	6748.4	7714.0	8102.3	8549.8	9134.3	9850.1	10622.3
63°	4164.8	4668.8	5244.8	5888.6	6809.1	7757.8	8081.1	8486.3	9082.1	9788.0	10561.6
65°	4409.0	4856.6	5386.0	6052.4	7059.0	7801.6	7915.9	8155.9	8720.6	9433.6	10203.0
67.5°	4865.0	5312.6	5689.5	6329.1	7269.3	7629.3	7403.4	7433.1	8023.2	8761.6	9453.4
70°	5153.0	5686.7	5882.9	6364.4	7231.2	7373.8	6739.9	6347.4	6820.4	7661.8	8267.5
72.5°	5078.2	5690.9	5669.8	5894.2	6468.8	6601.5	5945.1	5326.7	5607.6	6235.9	6628.4
75°	4349.7	5082.5	4927.2	4882.0	5083.9	5171.4	4678.7	4584.1	4938.5	5287.2	5292.8
77.5°	3131.4	3937.5	3755.4	3494.2	3480.1	3682.0	3748.3	4368.1	4891.9	5167.2	5045.7
80°	1994.9	2868.8	2679.6	2223.6	2216.5	2479.1	3062.2	3905.0	4459.9	4613.7	4297.5
82.5°	1041.9	1877.7	1949.7	1668.7	1910.2	2345.0	2913.9	3146.9	3357.2	3378.4	3005.7
85°	649.4	1154.8	1358.1	1401.9	1725.2	2079.6	2075.3	1993.5	1900.3	1626.4	1471.1
87.5°	73.4	145.4	220.2	208.9	280.9	393.9	491.3	288.0	201.9	73.4	101.6
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°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1466.9	1468.3	1469.7	1469.7	1476.7	1475.3	1476.7	1479.6	1483.8	1486.6	1489.4
5°	1478.1	1478.1	1483.8	1488.0	1496.5	1502.1	1505.0	1513.4	1523.3	1520.5	1529.0
7.5°	1514.9	1513.4	1519.1	1521.9	1529.0	1538.9	1537.4	1544.5	1553.0	1555.8	1562.9
10°	1564.3	1560.0	1560.0	1557.2	1558.6	1555.8	1555.8	1555.8	1561.4	1560.0	1565.7
12.5°	1615.1	1613.7	1610.9	1602.4	1602.4	1591.1	1585.4	1578.4	1577.0	1567.1	1568.5
15°	1719.6	1719.6	1713.9	1697.0	1682.9	1673.0	1658.9	1649.0	1634.9	1616.5	1606.6
17.5°	1872.0	1852.3	1845.2	1842.4	1819.8	1811.3	1780.3	1747.8	1732.3	1706.9	1692.7
20°	2058.4	2054.2	2025.9	2011.8	1983.6	1944.0	1904.5	1862.2	1836.7	1805.7	1788.7
22.5°	2268.8	2237.7	2223.6	2202.4	2158.6	2113.5	2054.2	1997.7	1958.2	1937.0	1924.3
25°	2514.4	2483.3	2469.2	2441.0	2387.3	2339.3	2265.9	2199.6	2164.3	2129.0	2109.2
27.5°	2840.5	2810.9	2793.9	2720.5	2702.2	2623.1	2532.8	2442.4	2395.8	2343.6	2309.7
30°	3327.6	3329.0	3241.5	3152.5	3060.8	2923.8	2829.2	2727.6	2651.3	2576.5	2501.7
32.5°	4150.7	3940.3	3778.0	3587.4	3388.3	3242.9	3125.7	3004.3	2898.4	2789.7	2665.5
35°	4653.3	4551.6	4341.3	3992.5	3792.1	3615.6	3485.7	3338.9	3209.0	3017.0	2827.8
37.5°	5220.8	4985.0	4729.5	4536.1	4308.8	4104.1	3886.7	3720.1	3495.6	3237.2	2969.0
40°	6049.5	5712.1	5404.3	5144.6	4850.9	4636.3	4393.5	4152.1	3854.2	3480.1	3111.6
42.5°	6915.0	6566.2	6159.7	5822.2	5476.3	5225.0	4924.3	4585.5	4147.8	3684.8	3234.4
45°	7822.7	7356.9	6869.8	6457.5	6097.5	5785.5	5412.8	4963.9	4430.2	3868.3	3348.8
47.5°	8717.8	8182.8	7602.5	7159.2	6690.5	6309.3	5851.9	5284.3	4650.4	4042.0	3463.1
50°	9507.0	8991.7	8292.9	7729.6	7255.2	6785.1	6214.7	5531.4	4824.1	4191.6	3566.2
52.5°	10187.5	9744.2	9008.6	8297.1	7750.7	7222.7	6507.0	5730.5	4999.2	4330.0	3650.9
55°	10687.3	10392.2	9714.5	8832.2	8187.0	7557.3	6754.0	5922.5	5164.3	4440.1	3706.0
57.5°	11064.2	10900.5	10318.8	9336.2	8587.9	7882.0	7009.6	6152.6	5328.1	4534.7	3731.4
60°	11270.3	11315.5	10776.2	9776.7	8942.3	8153.1	7265.1	6348.8	5449.5	4589.7	3717.3
62.5°	11250.6	11527.3	11119.3	10047.7	9148.4	8314.0	7437.3	6440.6	5432.6	4502.2	3588.8
63°	11212.5	11534.3	11157.4	10066.1	9161.1	8319.7	7441.6	6427.9	5397.3	4459.9	3538.0
65°	10883.5	11372.0	11124.9	9982.8	9048.2	8213.8	7352.6	6244.4	5148.8	4232.6	3276.8
67.5°	10002.6	10613.9	10543.3	9394.1	8513.1	7776.2	6898.0	5652.8	4534.7	3673.5	2777.0
70°	8547.0	9121.6	9134.3	8170.0	7434.5	6711.7	5981.8	4599.6	3594.4	2847.6	2071.1
72.5°	6550.7	6920.6	7049.1	6413.8	5921.1	5412.8	4757.7	3338.9	2562.4	1937.0	1348.3
75°	5072.6	4970.9	4969.5	4701.3	4500.8	4252.3	3532.3	2253.2	1682.9	1259.3	824.5
77.5°	4560.1	4108.3	3670.7	3348.8	3187.8	3104.5	2316.8	1358.1	992.5	724.2	474.4
80°	3761.0	3094.6	2500.3	2153.0	2014.6	2110.6	1291.8	734.1	543.5	412.2	307.8
82.5°	2593.5	2153.0	1636.3	1355.3	1163.3	1217.0	660.7	375.5	251.3	230.1	190.6
85°	1351.1	1184.5	999.5	858.4	758.1	666.4	343.1	179.3	104.5	91.8	83.3
87.5°	0.0	1.4	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°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1493.7	1492.3	1495.1	1496.5	1500.7	1503.6	1505.0	1502.1	1506.4	1510.6	1507.8
5°	1533.2	1543.1	1544.5	1548.7	1548.7	1557.2	1557.2	1557.2	1555.8	1557.2	1554.4
7.5°	1567.1	1579.8	1581.2	1586.9	1588.3	1598.1	1593.9	1596.7	1596.7	1589.7	1586.9
10°	1571.3	1584.0	1591.1	1598.1	1608.0	1620.7	1620.7	1627.8	1627.8	1622.1	1620.7
12.5°	1572.7	1582.6	1589.7	1599.6	1613.7	1632.0	1641.9	1651.8	1656.0	1654.6	1650.4
15°	1602.4	1602.4	1603.8	1612.3	1622.1	1644.7	1658.9	1670.2	1677.2	1674.4	1667.3
17.5°	1680.0	1668.7	1660.3	1646.2	1649.0	1660.3	1668.7	1678.6	1680.0	1677.2	1665.9
20°	1770.4	1756.3	1735.1	1712.5	1701.2	1692.7	1687.1	1687.1	1682.9	1668.7	1650.4
22.5°	1898.9	1880.5	1850.9	1817.0	1794.4	1767.6	1735.1	1704.0	1670.2	1636.3	1596.7
25°	2076.7	2051.3	2020.3	1968.0	1920.0	1863.6	1797.2	1728.0	1647.6	1577.0	1519.1
27.5°	2256.0	2199.6	2119.1	2047.1	1958.2	1873.4	1778.9	1694.2	1591.1	1506.4	1442.9
30°	2404.3	2297.0	2181.2	2066.9	1949.7	1835.3	1722.4	1620.7	1507.8	1421.7	1359.6
32.5°	2518.6	2370.4	2209.5	2059.8	1915.8	1776.0	1646.2	1533.2	1418.9	1329.9	1263.6
35°	2624.5	2418.4	2213.7	2028.7	1850.9	1705.4	1558.6	1435.8	1314.4	1221.2	1149.2
37.5°	2703.6	2441.0	2188.3	1970.9	1766.2	1603.8	1454.1	1328.5	1204.3	1102.6	1020.7
40°	2754.4	2426.9	2133.2	1887.6	1665.9	1495.1	1342.6	1212.7	1092.7	981.2	882.4
42.5°	2795.3	2408.5	2078.2	1811.3	1586.9	1400.5	1243.8	1104.0	982.6	861.2	752.5
45°	2856.1	2422.6	2054.2	1757.7	1516.3	1320.0	1147.8	1002.4	875.3	756.7	652.2
47.5°	2915.4	2429.7	2018.9	1691.3	1427.3	1236.7	1061.7	920.5	790.6	681.9	585.9
50°	2969.0	2425.5	1963.8	1606.6	1341.2	1153.4	984.0	842.8	714.4	614.1	523.8
52.5°	2994.4	2401.5	1896.0	1524.7	1272.0	1080.0	907.8	770.8	643.8	549.2	465.9
55°	2991.6	2339.3	1807.1	1447.1	1195.8	1002.4	833.0	697.4	583.1	495.5	423.5
57.5°	2949.2	2243.3	1712.5	1361.0	1095.6	906.4	745.4	614.1	518.1	444.7	384.0
60°	2860.3	2120.5	1588.3	1235.3	969.9	787.8	636.7	523.8	446.1	389.7	350.1
62.5°	2693.7	1944.0	1433.0	1060.3	800.5	633.9	502.6	429.2	371.3	337.4	319.1
63°	2644.3	1896.0	1366.6	1017.9	761.0	598.6	474.4	398.1	355.8	326.1	309.2
65°	2398.6	1660.3	1143.6	821.7	591.5	461.7	381.2	323.3	297.9	285.2	283.8
67.5°	1942.6	1305.9	809.0	563.3	402.4	333.2	292.2	268.2	256.9	254.1	256.9
70°	1363.8	824.5	513.9	374.1	297.9	268.2	249.9	240.0	232.9	234.4	237.2
72.5°	869.7	494.1	352.9	283.8	251.3	235.8	227.3	224.5	223.1	221.7	221.7
75°	495.5	328.9	271.1	245.7	228.7	216.0	208.9	206.1	207.5	208.9	206.1
77.5°	327.5	271.1	241.4	224.5	208.9	194.8	190.6	189.2	192.0	194.8	194.8
80°	258.4	241.4	224.5	207.5	182.1	172.2	175.1	176.5	175.1	176.5	172.2
82.5°	182.1	179.3	183.5	176.5	151.1	142.6	139.8	141.2	138.4	138.4	135.5
85°	84.7	84.7	88.9	88.9	86.1	87.5	94.6	103.1	107.3	103.1	97.4
87.5°	0.0	0.0	0.0	0.0	0.0	12.7	25.4	36.7	39.5	49.4	48.0
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: P152966

CATALOG NUMBER: TLM-F05-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1503.6	1506.4	1505.0	1503.6	1506.4	1503.6	1505.0	1503.6	1503.6	1502.1	1502.1
5°	1551.6	1555.8	1547.3	1545.9	1543.1	1536.0	1536.0	1533.2	1533.2	1527.6	1523.3
7.5°	1582.6	1584.0	1577.0	1575.6	1568.5	1561.4	1555.8	1550.1	1548.7	1544.5	1536.0
10°	1612.3	1609.4	1603.8	1596.7	1589.7	1579.8	1572.7	1565.7	1564.3	1557.2	1547.3
12.5°	1637.7	1636.3	1625.0	1617.9	1606.6	1596.7	1588.3	1579.8	1575.6	1567.1	1553.0
15°	1654.6	1646.2	1632.0	1619.3	1606.6	1595.3	1585.4	1575.6	1571.3	1561.4	1547.3
17.5°	1647.6	1632.0	1613.7	1598.1	1581.2	1567.1	1558.6	1548.7	1541.7	1536.0	1516.3
20°	1622.1	1599.6	1571.3	1553.0	1530.4	1512.0	1506.4	1496.5	1490.9	1469.7	1444.3
22.5°	1555.8	1523.3	1488.0	1461.2	1435.8	1417.4	1403.3	1393.4	1379.3	1366.6	1327.1
25°	1472.5	1435.8	1399.1	1366.6	1332.7	1304.5	1279.1	1255.1	1248.0	1221.2	1183.1
27.5°	1392.0	1351.1	1314.4	1276.3	1232.5	1197.2	1153.4	1119.6	1097.0	1068.7	1033.4
30°	1305.9	1265.0	1215.6	1164.7	1113.9	1075.8	1026.4	985.4	957.2	927.5	895.1
32.5°	1197.2	1147.8	1088.5	1032.0	985.4	940.3	890.8	851.3	823.1	796.3	765.2
35°	1073.0	1008.0	944.5	882.4	833.0	794.8	751.1	721.4	701.7	677.7	645.2
37.5°	930.4	857.0	789.2	741.2	697.4	660.7	629.7	611.3	590.1	577.4	557.7
40°	786.4	714.4	648.0	604.2	567.5	546.4	529.4	525.2	511.1	494.1	481.4
42.5°	659.3	590.1	525.2	489.9	465.9	460.2	451.8	451.8	444.7	432.0	423.5
45°	573.2	501.2	444.7	419.3	406.6	405.2	400.9	400.9	399.5	393.9	384.0
47.5°	511.1	446.1	402.4	386.8	384.0	381.2	376.9	375.5	374.1	369.9	364.2
50°	454.6	399.5	371.3	364.2	365.7	361.4	357.2	352.9	351.5	347.3	341.7
52.5°	402.4	362.8	344.5	340.2	340.2	340.2	337.4	337.4	334.6	333.2	327.5
55°	372.7	343.1	333.2	331.8	330.4	328.9	326.1	326.1	323.3	321.9	314.8
57.5°	347.3	328.9	323.3	320.5	319.1	316.2	314.8	314.8	314.8	314.8	306.4
60°	327.5	319.1	317.7	314.8	313.4	307.8	304.9	303.5	304.9	306.4	297.9
62.5°	306.4	304.9	303.5	300.7	299.3	293.7	289.4	286.6	289.4	292.2	290.8
63°	300.7	299.3	299.3	297.9	296.5	289.4	285.2	282.4	285.2	288.0	288.0
65°	280.9	282.4	282.4	280.9	279.5	275.3	269.7	266.8	268.2	272.5	273.9
67.5°	259.8	261.2	259.8	261.2	259.8	256.9	252.7	249.9	248.5	249.9	251.3
70°	240.0	242.8	241.4	240.0	238.6	238.6	235.8	231.5	230.1	228.7	228.7
72.5°	223.1	223.1	220.2	220.2	218.8	218.8	216.0	211.8	210.4	210.4	207.5
75°	204.7	204.7	200.5	200.5	197.7	199.1	196.2	192.0	190.6	190.6	189.2
77.5°	193.4	189.2	182.1	180.7	179.3	179.3	177.9	173.7	172.2	172.2	170.8
80°	170.8	162.4	155.3	153.9	155.3	158.1	158.1	155.3	155.3	155.3	155.3
82.5°	132.7	129.9	125.6	122.8	122.8	127.1	132.7	135.5	138.4	141.2	141.2
85°	97.4	98.8	97.4	93.2	91.8	96.0	101.6	107.3	108.7	114.4	112.9
87.5°	52.2	53.6	49.4	48.0	52.2	55.1	60.7	62.1	64.9	66.4	67.8
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: P152966

CATALOG NUMBER: TLM-F05-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1500.7	1499.3	1500.7	1497.9	1497.9	1495.1	1492.3	1490.9	1488.0	1486.6	1483.8
5°	1526.1	1521.9	1517.7	1516.3	1510.6	1505.0	1500.7	1493.7	1488.0	1478.1	1475.3
7.5°	1543.1	1533.2	1527.6	1526.1	1517.7	1513.4	1503.6	1495.1	1486.6	1473.9	1469.7
10°	1550.1	1540.3	1530.4	1526.1	1516.3	1509.2	1499.3	1486.6	1479.6	1466.9	1464.0
12.5°	1558.6	1540.3	1524.7	1513.4	1499.3	1483.8	1473.9	1466.9	1457.0	1449.9	1447.1
15°	1543.1	1519.1	1495.1	1473.9	1451.3	1434.4	1424.5	1413.2	1401.9	1397.7	1397.7
17.5°	1500.7	1469.7	1428.7	1401.9	1377.9	1359.6	1346.9	1335.6	1334.1	1328.5	1331.3
20°	1413.2	1372.3	1332.7	1313.0	1298.8	1287.6	1274.8	1269.2	1265.0	1256.5	1253.7
22.5°	1291.8	1257.9	1229.7	1215.6	1204.3	1190.1	1178.8	1161.9	1157.7	1149.2	1145.0
25°	1157.7	1130.8	1106.8	1097.0	1089.9	1070.1	1063.1	1040.5	1025.0	1015.1	1020.7
27.5°	1023.5	1003.8	981.2	968.5	964.3	945.9	938.8	913.4	900.7	900.7	886.6
30°	885.2	866.8	852.7	838.6	835.8	813.2	794.8	785.0	770.8	765.2	755.3
32.5°	755.3	737.0	725.7	718.6	707.3	689.0	670.6	653.7	631.1	622.6	618.4
35°	635.3	621.2	607.1	601.4	585.9	566.1	543.5	529.4	502.6	492.7	488.5
37.5°	543.5	526.6	516.7	501.2	485.7	464.5	447.5	434.8	424.9	420.7	420.7
40°	470.1	457.4	446.1	433.4	420.7	409.4	400.9	398.1	396.7	396.7	399.5
42.5°	415.1	403.8	398.1	391.1	386.8	386.8	385.4	386.8	388.2	389.7	393.9
45°	378.4	371.3	368.5	367.1	369.9	372.7	374.1	376.9	382.6	385.4	386.8
47.5°	358.6	352.9	351.5	352.9	357.2	362.8	368.5	372.7	376.9	378.4	379.8
50°	338.8	331.8	328.9	331.8	337.4	345.9	350.1	357.2	360.0	362.8	360.0
52.5°	321.9	316.2	314.8	314.8	320.5	326.1	331.8	337.4	338.8	338.8	337.4
55°	307.8	303.5	299.3	302.1	306.4	312.0	320.5	324.7	327.5	328.9	328.9
57.5°	296.5	292.2	288.0	290.8	295.1	300.7	309.2	313.4	316.2	320.5	321.9
60°	288.0	282.4	278.1	282.4	286.6	295.1	302.1	306.4	313.4	314.8	314.8
62.5°	279.5	273.9	266.8	271.1	271.1	275.3	282.4	288.0	295.1	297.9	297.9
63°	278.1	272.5	265.4	268.2	268.2	271.1	276.7	282.4	290.8	293.7	292.2
65°	266.8	265.4	258.4	258.4	255.5	258.4	262.6	268.2	272.5	276.7	276.7
67.5°	248.5	247.1	245.7	245.7	245.7	248.5	251.3	255.5	259.8	262.6	261.2
70°	227.3	227.3	227.3	228.7	228.7	231.5	232.9	231.5	235.8	238.6	237.2
72.5°	208.9	207.5	206.1	208.9	207.5	207.5	210.4	208.9	213.2	213.2	214.6
75°	189.2	187.8	187.8	189.2	186.4	183.5	184.9	184.9	186.4	186.4	189.2
77.5°	172.2	172.2	172.2	170.8	168.0	166.6	165.2	165.2	165.2	165.2	166.6
80°	156.7	156.7	156.7	155.3	152.5	149.7	146.8	145.4	144.0	136.9	136.9
82.5°	141.2	141.2	141.2	141.2	139.8	136.9	132.7	121.4	115.8	110.1	111.5
85°	111.5	114.4	117.2	121.4	120.0	120.0	111.5	97.4	88.9	83.3	84.7
87.5°	72.0	63.5	63.5	62.1	59.3	56.5	56.5	48.0	39.5	35.3	36.7
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: P152966

CATALOG NUMBER: TLM-F05-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1483.8	1481.0	1478.1	1478.1	1473.9	1473.9	1471.1	1476.7	1471.1	1466.9	1466.9
5°	1472.5	1469.7	1461.2	1459.8	1454.1	1454.1	1454.1	1451.3	1451.3	1448.5	1447.1
7.5°	1465.4	1458.4	1451.3	1447.1	1447.1	1444.3	1449.9	1447.1	1448.5	1448.5	1449.9
10°	1459.8	1454.1	1451.3	1449.9	1449.9	1454.1	1458.4	1459.8	1458.4	1459.8	1459.8
12.5°	1445.7	1448.5	1449.9	1455.6	1462.6	1471.1	1481.0	1482.4	1485.2	1485.2	1488.0
15°	1400.5	1407.6	1416.0	1430.1	1448.5	1466.9	1485.2	1500.7	1514.9	1521.9	1527.6
17.5°	1337.0	1344.0	1359.6	1375.1	1399.1	1425.9	1457.0	1483.8	1513.4	1540.3	1567.1
20°	1250.8	1262.1	1266.4	1294.6	1322.8	1359.6	1396.3	1438.6	1489.4	1540.3	1592.5
22.5°	1139.3	1152.0	1171.8	1194.4	1224.0	1269.2	1313.0	1379.3	1447.1	1519.1	1601.0
25°	1015.1	1029.2	1046.1	1070.1	1099.8	1147.8	1211.3	1281.9	1365.2	1459.8	1561.4
27.5°	886.6	900.7	914.8	931.8	965.7	1016.5	1091.3	1164.7	1256.5	1359.6	1478.1
30°	758.1	759.5	768.0	789.2	824.5	890.8	945.9	1037.7	1133.7	1242.4	1379.3
32.5°	617.0	615.5	625.4	643.8	677.7	741.2	809.0	897.9	992.5	1129.4	1270.6
35°	491.3	491.3	509.7	528.0	566.1	611.3	670.6	749.7	861.2	988.3	1129.4
37.5°	424.9	434.8	446.1	464.5	494.1	529.4	581.7	650.8	738.4	859.8	989.7
40°	403.8	409.4	419.3	436.2	461.7	494.1	532.2	584.5	652.2	749.7	868.3
42.5°	395.3	396.7	402.4	415.1	437.7	470.1	509.7	556.2	607.1	676.2	779.3
45°	386.8	385.4	388.2	398.1	416.5	453.2	498.4	549.2	600.0	657.9	742.6
47.5°	379.8	379.8	379.8	384.0	400.9	437.7	489.9	549.2	609.9	674.8	758.1
50°	360.0	358.6	358.6	361.4	374.1	413.7	475.8	547.8	626.8	711.5	806.1
52.5°	337.4	337.4	338.8	340.2	351.5	391.1	460.2	547.8	646.6	759.5	878.1
55°	330.4	331.8	333.2	331.8	340.2	374.1	443.3	539.3	655.1	797.7	955.8
57.5°	324.7	327.5	327.5	326.1	331.8	360.0	426.4	522.4	648.0	811.8	1010.8
60°	316.2	316.2	316.2	312.0	314.8	340.2	400.9	495.5	625.4	799.1	1019.3
62.5°	297.9	297.9	295.1	293.7	292.2	312.0	367.1	456.0	584.5	765.2	998.1
63°	293.7	292.2	292.2	288.0	288.0	306.4	360.0	450.4	573.2	756.7	989.7
65°	278.1	278.1	278.1	275.3	273.9	288.0	331.8	410.8	529.4	717.2	947.3
67.5°	261.2	262.6	259.8	258.4	256.9	265.4	299.3	361.4	461.7	633.9	868.3
70°	237.2	238.6	238.6	237.2	235.8	241.4	262.6	310.6	382.6	528.0	739.8
72.5°	216.0	218.8	218.8	221.7	221.7	225.9	234.4	258.4	306.4	412.2	581.7
75°	193.4	194.8	197.7	200.5	197.7	196.2	197.7	216.0	240.0	304.9	415.1
77.5°	173.7	177.9	177.9	176.5	172.2	169.4	169.4	177.9	197.7	231.5	296.5
80°	144.0	151.1	152.5	148.2	144.0	144.0	146.8	152.5	165.2	190.6	224.5
82.5°	115.8	122.8	124.2	125.6	124.2	128.5	128.5	129.9	136.9	156.7	183.5
85°	88.9	94.6	98.8	100.2	101.6	103.1	101.6	94.6	98.8	111.5	124.2
87.5°	39.5	40.9	38.1	39.5	38.1	39.5	40.9	33.9	32.5	43.8	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



TEST NUMBER: P152966

CATALOG NUMBER: TLM-F05-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0	1481.0
2.5°	1465.4	1465.4	1466.9	1464.0	1464.0	1465.4	1461.2
5°	1442.9	1448.5	1448.5	1448.5	1445.7	1448.5	1449.9
7.5°	1448.5	1452.7	1455.6	1455.6	1454.1	1459.8	1464.0
10°	1455.6	1462.6	1465.4	1465.4	1465.4	1472.5	1482.4
12.5°	1482.4	1488.0	1492.3	1492.3	1495.1	1503.6	1514.9
15°	1531.8	1538.9	1538.9	1537.4	1545.9	1555.8	1568.5
17.5°	1586.9	1606.6	1616.5	1615.1	1622.1	1634.9	1649.0
20°	1639.1	1694.2	1718.2	1735.1	1742.2	1759.1	1763.3
22.5°	1682.9	1774.6	1841.0	1897.4	1924.3	1941.2	1961.0
25°	1667.3	1791.6	1910.2	2025.9	2107.8	2191.1	2226.4
27.5°	1603.8	1759.1	1914.4	2083.8	2232.0	2380.3	2487.6
30°	1526.1	1712.5	1921.4	2161.5	2395.8	2623.1	2803.8
32.5°	1437.2	1668.7	1937.0	2233.5	2541.2	2839.1	3100.3
35°	1325.7	1585.4	1898.9	2240.5	2603.3	2964.8	3303.6
37.5°	1184.5	1472.5	1809.9	2189.7	2606.2	3019.8	3425.0
40°	1043.3	1329.9	1697.0	2116.3	2569.5	3032.5	3501.2
42.5°	944.5	1202.8	1582.6	2023.1	2510.2	3012.8	3538.0
45°	876.7	1111.1	1481.0	1938.4	2446.6	2977.5	3543.6
47.5°	871.1	1071.6	1414.6	1876.3	2395.8	2946.4	3543.6
50°	919.1	1092.7	1392.0	1845.2	2374.6	2936.5	3546.4
52.5°	1009.4	1177.4	1433.0	1869.2	2391.6	2949.2	3559.1
55°	1118.1	1305.9	1543.1	1952.5	2463.6	2991.6	3587.4
57.5°	1217.0	1454.1	1730.9	2113.5	2594.9	3098.9	3666.4
60°	1274.8	1581.2	1929.9	2339.3	2819.4	3312.1	3824.5
62.5°	1281.9	1651.8	2106.4	2585.0	3091.8	3556.3	4077.3
63°	1276.3	1657.4	2129.0	2631.6	3149.7	3617.0	4164.8
65°	1245.2	1658.9	2192.5	2795.3	3350.2	3872.5	4409.0
67.5°	1166.1	1613.7	2215.1	2923.8	3602.9	4208.6	4865.0
70°	1029.2	1485.2	2148.7	2926.6	3700.3	4396.3	5153.0
72.5°	827.3	1241.0	1862.2	2662.6	3443.4	4211.4	5078.2
75°	605.7	912.0	1407.6	2062.6	2809.5	3505.5	4349.7
77.5°	402.4	590.1	948.7	1469.7	2014.6	2522.9	3131.4
80°	276.7	365.7	554.8	883.8	1232.5	1479.6	1994.9
82.5°	203.3	241.4	307.8	451.8	593.0	729.9	1041.9
85°	127.1	138.4	153.9	223.1	319.1	430.6	649.4
87.5°	33.9	35.3	32.5	43.8	69.2	66.4	73.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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