

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: P155593

Luminaire Tested: **TLM-F03-LED-E1-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155593
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-F03-LED-E1-T3-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

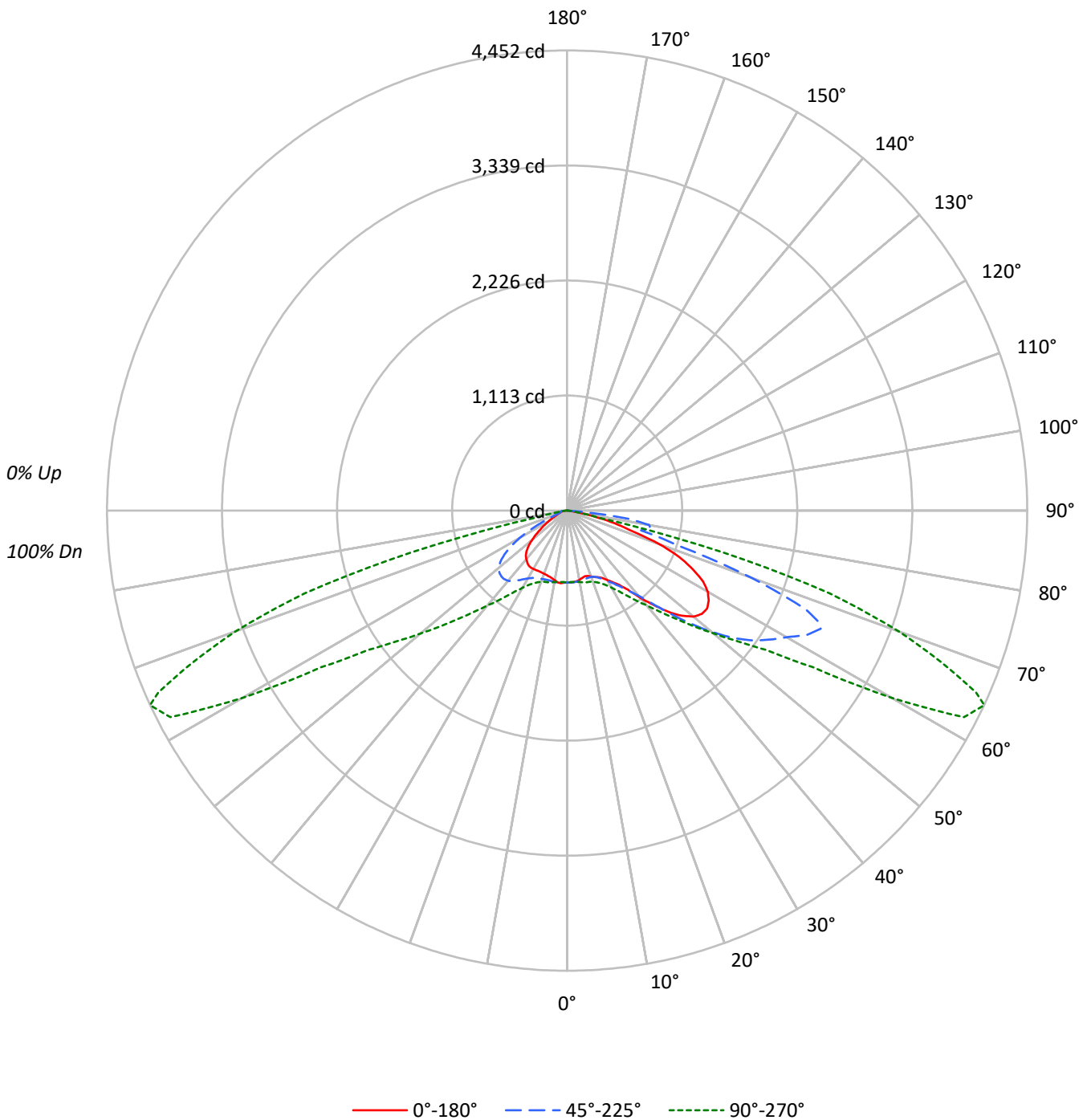
Lumens per Lamp: N/A
Luminaire Lumens: 6446.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 78.3
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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CATALOG NUMBER: TLM-F03-LED-E1-T3-8030

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	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°	14953	14953	14953
5°	15010	14995	15237
10°	14880	15337	14972
15°	14658	16009	14752
20°	15562	16809	14893
25°	16881	18437	15359
30°	19243	21443	16227
35°	23072	26294	17067
40°	30896	33658	17269
45°	42212	44821	16906
50°	53412	61882	14863
55°	62056	88100	11819
60°	67615	155810	8968
65°	68248	226786	6780
70°	59815	214800	5659
75°	39526	129989	5797
80°	14431	13216	6819
85°	2421	8769	7583



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	1.0
10°-20°	196.4	3.0
20°-30°	337.5	5.2
30°-40°	548.0	8.5
40°-50°	914.8	14.2
50°-60°	1440.5	22.3
60°-70°	1964.3	30.5
70°-80°	850.3	13.2
80°-90°	127.9	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°	600.4	9.3
0°-40°	1148.3	17.8
0°-60°	3503.6	54.4
0°-90°	6446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6446.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	695	695	695	695	695	
5°	695	696	694	702	705	66
15°	658	685	718	697	662	189
25°	711	715	776	720	647	333
35°	878	897	1000	824	649	569
45°	1386	1405	1472	901	555	1066
55°	1653	2190	2347	742	315	1458
65°	1340	2707	4452	261	133	1301
75°	475	740	1563	70	70	508
85°	10	164	36	49	31	26
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°	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6
2.5°	697.4	700.2	697.4	698.1	698.8	698.1	697.4	697.4	695.3	696.7	698.1
5°	694.6	696.7	696.0	696.7	697.4	696.7	696.0	696.7	695.3	696.0	698.1
7.5°	691.2	690.5	691.2	692.6	693.9	693.9	693.9	694.6	693.9	693.9	696.0
10°	680.7	681.4	682.8	684.9	685.6	687.7	687.7	689.8	690.5	691.9	694.6
12.5°	667.5	668.2	669.6	671.0	674.4	677.9	677.9	682.8	684.9	688.4	693.3
15°	657.7	658.4	659.8	661.2	664.0	667.5	669.6	675.1	678.6	684.9	691.9
17.5°	663.3	662.6	664.0	664.7	664.7	667.5	667.5	671.7	675.8	681.4	690.5
20°	679.3	679.3	680.7	680.7	680.0	681.4	678.6	678.6	679.3	682.1	688.4
22.5°	695.3	694.6	697.4	698.8	699.5	701.6	698.8	698.1	694.6	692.6	694.6
25°	710.7	710.0	713.5	715.5	719.0	721.1	721.1	721.1	718.3	714.9	712.8
27.5°	734.4	734.4	737.8	739.9	742.7	746.9	749.0	749.0	749.7	744.8	741.3
30°	774.1	774.8	775.5	778.3	781.0	782.4	785.2	787.3	789.4	786.6	781.0
32.5°	821.5	817.3	817.3	821.5	824.9	829.1	830.5	833.3	837.5	835.4	834.7
35°	877.9	876.5	875.1	876.5	880.7	885.6	891.1	896.0	893.2	897.4	895.3
37.5°	961.5	962.9	963.6	963.6	962.9	964.3	967.1	971.9	970.6	971.9	974.7
40°	1099.4	1094.6	1089.7	1090.4	1083.4	1084.8	1073.7	1078.5	1079.2	1074.4	1076.5
42.5°	1237.4	1240.2	1242.3	1247.9	1243.0	1240.2	1229.7	1229.7	1224.2	1219.3	1217.9
45°	1386.5	1392.1	1392.8	1403.9	1399.7	1408.8	1416.5	1414.4	1405.3	1404.6	1394.9
47.5°	1505.6	1514.7	1524.5	1537.7	1548.1	1568.4	1592.0	1603.9	1610.9	1616.4	1605.3
50°	1594.8	1599.0	1624.1	1645.0	1668.0	1701.4	1734.2	1776.7	1810.8	1826.8	1842.2
52.5°	1642.9	1653.4	1680.5	1713.3	1753.7	1803.8	1856.8	1924.4	1982.9	2021.9	2056.8
55°	1653.4	1663.8	1694.5	1736.3	1791.3	1858.9	1934.8	2026.8	2114.6	2189.8	2263.0
57.5°	1624.1	1635.9	1668.7	1716.8	1781.6	1863.8	1959.2	2079.8	2201.0	2322.9	2430.9
60°	1570.4	1585.1	1615.0	1662.4	1734.2	1826.8	1941.1	2092.3	2262.3	2449.0	2656.0
62.5°	1482.0	1497.3	1525.2	1577.4	1651.3	1753.7	1886.1	2074.2	2314.6	2608.6	2975.8
65°	1339.8	1346.8	1380.9	1433.9	1499.4	1612.2	1757.9	1985.0	2297.8	2706.8	3212.6
66°	1275.7	1287.6	1308.5	1351.0	1413.7	1519.6	1665.9	1896.5	2234.4	2672.7	3206.4
67.5°	1175.4	1184.5	1198.4	1227.0	1265.3	1343.3	1482.0	1700.0	2040.7	2499.9	3073.3
70°	950.3	954.5	973.3	983.1	996.3	1022.1	1072.3	1197.7	1463.1	1894.4	2480.4
72.5°	648.0	659.8	680.0	707.9	744.1	779.0	802.6	818.7	875.8	1130.1	1652.7
75°	475.2	487.7	513.5	550.4	613.8	686.3	761.5	796.4	772.7	739.9	920.4
77.5°	275.9	292.6	314.2	349.8	408.3	504.4	633.3	747.6	824.9	829.8	788.0
80°	116.4	118.4	131.7	149.8	186.0	253.6	353.9	518.4	689.8	805.4	832.6
82.5°	26.5	32.7	41.8	49.5	60.6	83.6	124.0	206.2	372.8	584.6	762.2
85°	9.8	9.8	13.2	19.5	22.3	25.1	32.7	52.3	89.2	164.4	342.8
87.5°	0.0	0.7	1.4	1.4	2.8	3.5	5.6	7.7	7.0	6.3	20.9
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°	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6
2.5°	696.7	696.0	694.6	694.6	694.6	694.6	693.3	693.9	692.6	693.3	693.3
5°	696.0	696.0	695.3	693.9	694.6	694.6	695.3	693.9	693.9	694.6	693.9
7.5°	696.0	695.3	695.3	695.3	696.0	695.3	696.0	696.0	696.0	696.7	696.7
10°	696.0	696.0	697.4	698.1	698.1	698.8	700.9	700.9	701.6	702.3	703.7
12.5°	696.7	699.5	701.6	703.7	704.4	705.8	709.3	709.3	710.7	712.8	713.5
15°	697.4	701.6	705.8	707.2	708.6	711.4	714.9	716.2	718.3	720.4	721.8
17.5°	696.7	702.3	707.2	709.3	711.4	714.9	719.0	720.4	723.2	726.0	728.8
20°	696.0	703.7	711.4	714.2	716.9	721.8	727.4	730.9	733.7	737.8	740.6
22.5°	700.2	709.3	719.7	723.9	728.8	735.1	742.7	746.9	750.4	754.6	756.7
25°	713.5	720.4	733.0	739.9	746.2	756.7	767.1	772.0	776.2	779.6	780.3
27.5°	735.8	737.8	753.2	762.2	771.3	788.0	800.5	804.0	811.7	814.5	813.8
30°	772.0	768.5	781.0	795.0	808.2	831.2	846.5	855.6	862.6	862.6	857.0
32.5°	824.2	818.7	822.1	838.2	853.5	886.9	905.1	916.9	921.8	920.4	908.5
35°	892.5	889.0	886.9	899.5	923.9	962.9	986.6	992.8	1000.5	999.1	983.8
37.5°	973.3	970.6	970.6	985.2	1008.9	1066.7	1092.5	1096.7	1096.0	1084.8	1056.3
40°	1068.8	1067.4	1061.1	1069.5	1089.7	1164.9	1199.8	1205.4	1197.7	1179.6	1146.1
42.5°	1206.0	1197.7	1178.2	1183.1	1198.4	1271.5	1316.8	1332.2	1324.5	1306.4	1252.0
45°	1385.1	1376.1	1343.3	1339.1	1347.5	1411.6	1470.1	1473.6	1472.2	1449.2	1385.1
47.5°	1595.5	1581.6	1546.8	1535.6	1532.8	1592.0	1648.5	1654.1	1650.6	1616.4	1530.7
50°	1823.4	1803.2	1780.2	1772.5	1761.3	1803.8	1861.0	1861.7	1847.7	1800.4	1720.2
52.5°	2066.5	2059.6	2055.4	2047.7	2042.8	2079.8	2114.6	2093.7	2072.8	2023.3	1953.6
55°	2311.8	2340.3	2369.6	2372.4	2380.7	2420.5	2419.8	2362.6	2347.3	2320.1	2251.2
57.5°	2572.3	2678.3	2770.2	2798.8	2826.7	2900.5	2893.5	2837.1	2817.6	2784.2	2727.0
60°	2927.0	3212.6	3478.1	3541.5	3585.4	3673.9	3665.5	3578.4	3618.8	3616.1	3542.2
62.5°	3423.8	3898.9	4296.8	4394.3	4425.0	4434.7	4381.8	4287.7	4327.4	4372.0	4144.9
65°	3760.3	4319.1	4727.4	4802.6	4806.8	4690.4	4572.7	4461.9	4452.1	4413.8	4089.1
66°	3767.9	4340.0	4749.6	4822.8	4797.0	4638.2	4489.1	4377.6	4329.5	4245.2	3908.7
67.5°	3632.8	4209.7	4650.7	4728.0	4671.6	4446.6	4241.0	4097.5	4003.4	3866.9	3570.1
70°	3051.0	3623.0	4166.5	4310.7	4328.8	3993.0	3708.0	3539.4	3412.6	3225.2	2969.5
72.5°	2268.6	2785.5	3264.9	3402.9	3473.2	3205.0	2964.6	2836.4	2662.9	2465.7	2283.9
75°	1422.0	1787.1	2108.3	2205.2	2139.0	1931.4	1787.1	1733.5	1562.8	1445.0	1362.1
77.5°	813.1	927.4	953.1	916.2	838.2	641.7	456.4	337.9	293.3	324.7	358.1
80°	793.6	727.4	579.7	510.0	461.9	317.7	186.7	128.2	106.6	109.4	118.4
82.5°	859.8	922.5	759.4	619.4	519.8	351.2	193.7	103.1	69.7	82.2	92.7
85°	558.8	777.6	700.2	590.1	478.0	300.3	159.6	53.6	35.5	46.7	64.1
87.5°	56.4	62.0	53.0	71.8	53.6	25.1	12.5	7.7	7.0	8.4	12.5
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°	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6	694.6
2.5°	693.9	693.9	694.6	695.3	696.0	696.7	696.7	696.7	696.7	698.1	697.4
5°	695.3	696.7	698.1	698.8	700.2	700.2	702.3	701.6	701.6	703.7	704.4
7.5°	698.1	700.2	703.0	702.3	705.1	704.4	705.8	705.8	703.7	704.4	703.0
10°	704.4	707.2	708.6	706.5	707.2	704.4	703.7	700.2	696.0	693.9	691.2
12.5°	714.9	717.6	717.6	714.2	710.0	703.7	698.8	691.2	684.9	681.4	677.9
15°	723.9	726.7	726.0	720.4	714.2	704.4	697.4	688.4	679.3	673.7	670.3
17.5°	730.9	732.3	730.2	722.5	715.5	706.5	699.5	689.8	679.3	672.3	666.1
20°	741.3	739.9	735.1	725.3	717.6	709.3	703.7	695.3	683.5	674.4	665.4
22.5°	756.7	751.1	742.0	731.6	723.9	716.2	710.7	701.6	689.8	678.6	668.2
25°	776.9	765.7	753.2	742.0	735.1	726.7	720.4	710.7	698.1	685.6	673.0
27.5°	806.1	786.6	770.6	760.8	753.2	742.7	735.1	722.5	709.3	694.6	680.7
30°	838.9	812.4	797.1	789.4	781.0	769.9	758.0	742.0	726.7	710.7	693.9
32.5°	881.4	849.3	834.7	827.0	815.9	801.9	788.0	769.9	748.3	727.4	707.2
35°	937.1	904.4	889.0	877.2	861.9	843.7	823.5	799.2	769.9	742.0	716.2
37.5°	997.0	961.5	946.9	934.3	911.3	887.6	859.1	823.5	783.8	746.9	714.9
40°	1073.0	1040.2	1021.4	999.8	972.6	931.5	886.9	835.4	784.5	739.2	701.6
42.5°	1169.1	1136.4	1108.5	1074.4	1027.0	963.6	900.2	833.3	772.0	720.4	680.0
45°	1296.6	1256.9	1208.8	1148.9	1072.3	983.8	900.9	820.1	748.3	691.2	648.0
47.5°	1452.7	1392.1	1313.3	1212.3	1102.2	989.4	889.7	793.6	711.4	649.4	601.3
50°	1638.0	1542.6	1413.0	1264.6	1117.6	981.0	861.9	753.9	659.1	592.9	535.8
52.5°	1849.8	1693.8	1502.9	1302.2	1116.9	953.1	814.5	693.9	590.8	517.0	462.6
55°	2098.6	1866.6	1595.5	1330.1	1097.4	901.6	742.0	609.6	506.5	438.2	388.1
57.5°	2463.0	2146.6	1757.2	1373.3	1058.3	822.1	643.8	508.6	418.0	353.2	310.7
60°	3129.0	2614.2	2048.4	1460.4	998.4	705.8	528.8	400.6	324.7	272.4	243.9
62.5°	3630.7	2975.8	2205.9	1440.8	877.9	562.3	392.3	291.9	239.0	203.4	185.3
65°	3558.9	2863.6	2038.0	1240.9	688.4	396.4	260.6	198.6	164.4	147.7	137.3
66°	3396.6	2717.3	1892.3	1116.9	595.0	329.6	214.6	166.5	141.4	129.6	122.6
67.5°	3088.6	2445.5	1631.8	915.5	457.1	239.0	161.6	131.7	115.0	110.1	105.2
70°	2567.5	1950.2	1145.4	533.0	233.4	133.1	102.4	92.0	87.8	87.1	85.7
72.5°	1967.6	1380.2	674.4	252.2	121.2	88.5	79.4	75.9	74.6	74.6	75.2
75°	1206.0	775.5	298.2	123.3	85.0	74.6	70.4	69.0	68.3	69.0	68.3
77.5°	402.7	246.6	127.5	93.4	77.3	69.0	66.2	64.8	64.8	64.8	64.8
80°	123.3	107.3	97.5	86.4	73.2	65.5	61.3	60.6	61.3	62.0	59.9
82.5°	92.7	87.8	82.2	76.6	66.2	58.5	57.1	57.1	57.1	55.0	52.3
85°	68.3	67.6	55.7	52.3	48.8	48.8	48.8	48.8	46.7	43.2	40.4
87.5°	12.5	11.8	12.5	13.2	19.5	20.9	20.9	22.3	24.4	23.0	23.0
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: P155593

CATALOG NUMBER: TLM-F03-LED-E1-T3-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	694.6	694.6	694.6	694.6	694.6
2.5°	697.4	696.7	698.8	697.4	698.1
5°	703.7	703.0	704.4	703.0	705.1
7.5°	701.6	700.2	699.5	700.2	700.9
10°	687.0	685.6	684.9	684.2	684.9
12.5°	674.4	671.7	671.7	670.3	671.0
15°	665.4	663.3	662.6	661.2	661.9
17.5°	661.2	657.7	656.3	654.9	654.9
20°	658.4	654.2	652.1	650.8	650.1
22.5°	658.4	652.1	649.4	648.0	647.3
25°	661.2	653.5	649.4	647.3	646.6
27.5°	666.8	657.0	652.1	649.4	649.4
30°	676.5	664.0	657.0	653.5	652.8
32.5°	686.3	669.6	659.8	655.6	654.2
35°	691.2	669.6	657.7	650.8	649.4
37.5°	685.6	660.5	645.9	635.4	633.3
40°	668.2	641.7	625.7	615.9	614.5
42.5°	645.2	619.4	600.6	593.6	591.5
45°	613.8	583.2	564.4	554.6	555.3
47.5°	560.2	528.8	512.1	503.0	504.4
50°	496.8	466.1	451.5	441.7	443.8
52.5°	427.1	399.2	385.3	380.4	379.0
55°	353.9	332.3	322.6	317.0	314.9
57.5°	287.1	271.7	264.8	257.8	258.5
60°	226.4	218.8	216.7	209.0	208.3
62.5°	178.4	173.5	171.4	165.8	166.5
65°	135.2	133.8	135.2	131.7	133.1
66°	121.9	122.6	122.6	120.5	121.9
67.5°	105.2	106.6	108.7	106.6	108.0
70°	87.1	88.5	89.9	89.9	89.9
72.5°	75.9	77.3	78.0	78.0	78.0
75°	69.7	70.4	71.1	69.7	69.7
77.5°	65.5	65.5	64.1	63.4	62.7
80°	59.2	58.5	56.4	55.0	55.0
82.5°	49.5	48.1	46.7	44.6	44.6
85°	37.6	36.2	34.8	32.0	30.7
87.5°	19.5	20.2	19.5	16.0	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)