

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: P155577

Luminaire Tested: **TLM-F01-LED-E1-T3-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155577
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-F01-LED-E1-T3-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2612.3 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

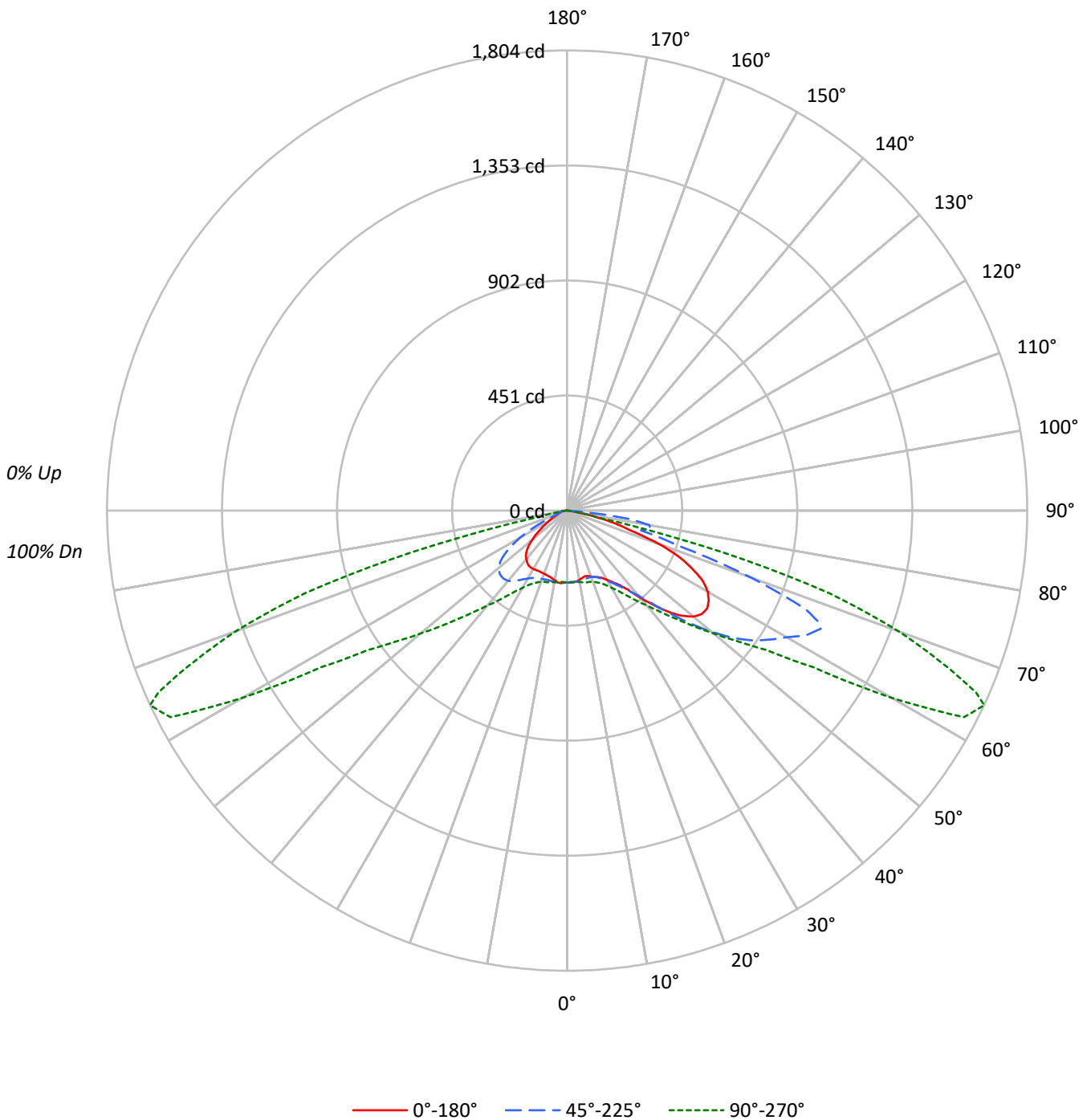
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	17824	17824	17824
5°	17892	17873	18159
10°	17739	18279	17848
15°	17469	19082	17581
20°	18550	20032	17748
25°	20120	21972	18304
30°	22935	25560	19346
35°	27502	31344	20344
40°	36831	40121	20581
45°	50315	53422	20147
50°	63663	73760	17721
55°	73961	105014	14086
60°	80590	185722	10688
65°	81353	270322	8075
70°	71292	256031	6739
75°	47117	154930	6899
80°	17210	15752	8131
85°	2906	10461	9008



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.0	1.0
10°-20°	79.6	3.0
20°-30°	136.8	5.2
30°-40°	222.1	8.5
40°-50°	370.7	14.2
50°-60°	583.8	22.3
60°-70°	796.0	30.5
70°-80°	344.6	13.2
80°-90°	51.8	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°	243.3	9.3
0°-40°	465.4	17.8
0°-60°	1419.9	54.4
0°-90°	2612.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2612.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	282	282	282	282	282	
5°	282	282	281	285	286	27
15°	266	278	291	283	268	77
25°	288	290	314	292	262	135
35°	356	364	406	334	263	231
45°	562	569	597	365	225	432
55°	670	888	951	301	128	591
65°	543	1097	1804	106	54	527
75°	193	300	633	28	28	206
85°	4	67	14	20	12	10
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°	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5
2.5°	282.6	283.8	282.6	282.9	283.2	282.9	282.6	282.6	281.8	282.4	282.9
5°	281.5	282.4	282.1	282.4	282.6	282.4	282.1	282.4	281.8	282.1	282.9
7.5°	280.1	279.8	280.1	280.7	281.2	281.2	281.2	281.5	281.2	281.2	282.1
10°	275.9	276.1	276.7	277.6	277.8	278.7	278.7	279.5	279.8	280.4	281.5
12.5°	270.5	270.8	271.3	271.9	273.3	274.7	274.7	276.7	277.6	279.0	280.9
15°	266.5	266.8	267.4	268.0	269.1	270.5	271.3	273.6	275.0	277.6	280.4
17.5°	268.8	268.5	269.1	269.4	269.4	270.5	270.5	272.2	273.9	276.1	279.8
20°	275.3	275.3	275.9	275.9	275.6	276.1	275.0	275.0	275.3	276.4	279.0
22.5°	281.8	281.5	282.6	283.2	283.5	284.3	283.2	282.9	281.5	280.7	281.5
25°	288.0	287.7	289.1	290.0	291.4	292.2	292.2	292.2	291.1	289.7	288.9
27.5°	297.6	297.6	299.0	299.9	301.0	302.7	303.5	303.5	303.8	301.8	300.4
30°	313.7	314.0	314.3	315.4	316.5	317.1	318.2	319.1	319.9	318.8	316.5
32.5°	332.9	331.2	331.2	332.9	334.3	336.0	336.6	337.7	339.4	338.5	338.3
35°	355.8	355.2	354.6	355.2	356.9	358.9	361.1	363.1	362.0	363.7	362.8
37.5°	389.7	390.2	390.5	390.5	390.2	390.8	391.9	393.9	393.3	393.9	395.0
40°	445.6	443.6	441.6	441.9	439.1	439.6	435.1	437.1	437.4	435.4	436.2
42.5°	501.5	502.6	503.4	505.7	503.7	502.6	498.4	498.4	496.1	494.1	493.6
45°	561.9	564.2	564.4	569.0	567.3	570.9	574.0	573.2	569.5	569.2	565.3
47.5°	610.2	613.8	617.8	623.2	627.4	635.6	645.2	650.0	652.8	655.1	650.6
50°	646.3	648.0	658.2	666.6	676.0	689.5	702.8	720.0	733.8	740.3	746.6
52.5°	665.8	670.0	681.0	694.3	710.7	731.0	752.5	779.9	803.6	819.4	833.5
55°	670.0	674.3	686.7	703.6	725.9	753.3	784.1	821.4	857.0	887.5	917.1
57.5°	658.2	663.0	676.2	695.7	722.0	755.3	794.0	842.8	892.0	941.4	985.1
60°	636.4	642.4	654.5	673.7	702.8	740.3	786.7	847.9	916.8	992.5	1076.4
62.5°	600.6	606.8	618.1	639.3	669.2	710.7	764.3	840.6	938.0	1057.2	1206.0
65°	543.0	545.8	559.6	581.1	607.6	653.4	712.4	804.4	931.2	1097.0	1302.0
66°	517.0	521.8	530.3	547.5	572.9	615.8	675.1	768.6	905.5	1083.1	1299.4
67.5°	476.3	480.0	485.7	497.2	512.8	544.4	600.6	689.0	827.0	1013.1	1245.5
70°	385.1	386.8	394.5	398.4	403.8	414.2	434.5	485.4	593.0	767.7	1005.2
72.5°	262.6	267.4	275.6	286.9	301.6	315.7	325.3	331.8	354.9	458.0	669.8
75°	192.6	197.7	208.1	223.1	248.8	278.1	308.6	322.7	313.1	299.9	373.0
77.5°	111.8	118.6	127.3	141.7	165.5	204.4	256.7	303.0	334.3	336.3	319.3
80°	47.2	48.0	53.4	60.7	75.4	102.8	143.4	210.1	279.5	326.4	337.4
82.5°	10.7	13.3	16.9	20.0	24.6	33.9	50.3	83.6	151.1	236.9	308.9
85°	4.0	4.0	5.4	7.9	9.0	10.2	13.3	21.2	36.1	66.6	138.9
87.5°	0.0	0.3	0.6	0.6	1.1	1.4	2.3	3.1	2.8	2.5	8.5
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5
2.5°	282.4	282.1	281.5	281.5	281.5	281.5	280.9	281.2	280.7	280.9	280.9
5°	282.1	282.1	281.8	281.2	281.5	281.5	281.8	281.2	281.2	281.5	281.2
7.5°	282.1	281.8	281.8	281.8	282.1	281.8	282.1	282.1	282.1	282.4	282.4
10°	282.1	282.1	282.6	282.9	282.9	283.2	284.1	284.1	284.3	284.6	285.2
12.5°	282.4	283.5	284.3	285.2	285.5	286.0	287.4	287.4	288.0	288.9	289.1
15°	282.6	284.3	286.0	286.6	287.2	288.3	289.7	290.3	291.1	292.0	292.5
17.5°	282.4	284.6	286.6	287.4	288.3	289.7	291.4	292.0	293.1	294.2	295.3
20°	282.1	285.2	288.3	289.4	290.5	292.5	294.8	296.2	297.3	299.0	300.1
22.5°	283.8	287.4	291.7	293.4	295.3	297.9	301.0	302.7	304.1	305.8	306.6
25°	289.1	292.0	297.0	299.9	302.4	306.6	310.9	312.9	314.5	316.0	316.2
27.5°	298.2	299.0	305.2	308.9	312.6	319.3	324.4	325.8	328.9	330.1	329.8
30°	312.9	311.4	316.5	322.2	327.5	336.9	343.1	346.7	349.6	349.6	347.3
32.5°	334.0	331.8	333.2	339.7	345.9	359.4	366.8	371.6	373.6	373.0	368.2
35°	361.7	360.3	359.4	364.5	374.4	390.2	399.8	402.4	405.5	404.9	398.7
37.5°	394.5	393.3	393.3	399.3	408.9	432.3	442.7	444.4	444.1	439.6	428.1
40°	433.1	432.6	430.0	433.4	441.6	472.1	486.2	488.5	485.4	478.0	464.5
42.5°	488.8	485.4	477.5	479.4	485.7	515.3	533.7	539.9	536.8	529.4	507.4
45°	561.3	557.7	544.4	542.7	546.1	572.1	595.8	597.2	596.6	587.3	561.3
47.5°	646.6	641.0	626.8	622.3	621.2	645.2	668.1	670.3	668.9	655.1	620.3
50°	738.9	730.7	721.4	718.3	713.8	731.0	754.2	754.5	748.8	729.6	697.1
52.5°	837.5	834.7	833.0	829.9	827.9	842.8	857.0	848.5	840.0	820.0	791.7
55°	936.9	948.4	960.3	961.4	964.8	980.9	980.6	957.5	951.3	940.3	912.3
57.5°	1042.5	1085.4	1122.7	1134.2	1145.5	1175.5	1172.6	1149.8	1141.9	1128.3	1105.2
60°	1186.2	1302.0	1409.5	1435.2	1453.0	1488.9	1485.5	1450.2	1466.6	1465.4	1435.5
62.5°	1387.5	1580.1	1741.3	1780.8	1793.3	1797.2	1775.8	1737.6	1753.7	1771.8	1679.8
65°	1523.9	1750.3	1915.8	1946.3	1948.0	1900.8	1853.1	1808.2	1804.3	1788.7	1657.2
66°	1527.0	1758.8	1924.8	1954.5	1944.0	1879.7	1819.2	1774.1	1754.6	1720.4	1584.0
67.5°	1472.2	1706.0	1884.7	1916.1	1893.2	1802.0	1718.7	1660.6	1622.4	1567.1	1446.8
70°	1236.4	1468.3	1688.5	1747.0	1754.3	1618.2	1502.7	1434.4	1383.0	1307.0	1203.4
72.5°	919.4	1128.9	1323.1	1379.0	1407.6	1298.8	1201.4	1149.5	1079.2	999.3	925.6
75°	576.3	724.2	854.4	893.7	866.8	782.7	724.2	702.5	633.3	585.6	552.0
77.5°	329.5	375.8	386.3	371.3	339.7	260.1	184.9	136.9	118.9	131.6	145.1
80°	321.6	294.8	234.9	206.7	187.2	128.8	75.7	52.0	43.2	44.3	48.0
82.5°	348.4	373.8	307.8	251.0	210.6	142.3	78.5	41.8	28.2	33.3	37.6
85°	226.5	315.1	283.8	239.2	193.7	121.7	64.7	21.7	14.4	18.9	26.0
87.5°	22.9	25.1	21.5	29.1	21.7	10.2	5.1	3.1	2.8	3.4	5.1
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°	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5	281.5
2.5°	281.2	281.2	281.5	281.8	282.1	282.4	282.4	282.4	282.4	282.9	282.6
5°	281.8	282.4	282.9	283.2	283.8	283.8	284.6	284.3	284.3	285.2	285.5
7.5°	282.9	283.8	284.9	284.6	285.7	285.5	286.0	286.0	285.2	285.5	284.9
10°	285.5	286.6	287.2	286.3	286.6	285.5	285.2	283.8	282.1	281.2	280.1
12.5°	289.7	290.8	290.8	289.4	287.7	285.2	283.2	280.1	277.6	276.1	274.7
15°	293.4	294.5	294.2	292.0	289.4	285.5	282.6	279.0	275.3	273.0	271.6
17.5°	296.2	296.8	295.9	292.8	290.0	286.3	283.5	279.5	275.3	272.5	269.9
20°	300.4	299.9	297.9	293.9	290.8	287.4	285.2	281.8	277.0	273.3	269.7
22.5°	306.6	304.4	300.7	296.5	293.4	290.3	288.0	284.3	279.5	275.0	270.8
25°	314.8	310.3	305.2	300.7	297.9	294.5	292.0	288.0	282.9	277.8	272.8
27.5°	326.7	318.8	312.3	308.3	305.2	301.0	297.9	292.8	287.4	281.5	275.9
30°	340.0	329.2	323.0	319.9	316.5	312.0	307.2	300.7	294.5	288.0	281.2
32.5°	357.2	344.2	338.3	335.2	330.6	325.0	319.3	312.0	303.3	294.8	286.6
35°	379.8	366.5	360.3	355.5	349.3	341.9	333.7	323.9	312.0	300.7	290.3
37.5°	404.1	389.7	383.7	378.6	369.3	359.7	348.1	333.7	317.7	302.7	289.7
40°	434.8	421.6	413.9	405.2	394.2	377.5	359.4	338.5	317.9	299.6	284.3
42.5°	473.8	460.5	449.2	435.4	416.2	390.5	364.8	337.7	312.9	292.0	275.6
45°	525.5	509.4	489.9	465.6	434.5	398.7	365.1	332.3	303.3	280.1	262.6
47.5°	588.7	564.2	532.2	491.3	446.7	400.9	360.6	321.6	288.3	263.2	243.7
50°	663.8	625.1	572.6	512.5	452.9	397.6	349.3	305.5	267.1	240.3	217.1
52.5°	749.7	686.4	609.0	527.7	452.6	386.3	330.1	281.2	239.4	209.5	187.5
55°	850.5	756.4	646.6	539.0	444.7	365.4	300.7	247.1	205.3	177.6	157.3
57.5°	998.1	869.9	712.1	556.5	428.9	333.2	260.9	206.1	169.4	143.2	125.9
60°	1268.1	1059.4	830.1	591.8	404.6	286.0	214.3	162.4	131.6	110.4	98.8
62.5°	1471.4	1206.0	893.9	583.9	355.8	227.9	159.0	118.3	96.8	82.4	75.1
65°	1442.3	1160.5	825.9	502.9	279.0	160.7	105.6	80.5	66.6	59.9	55.6
66°	1376.5	1101.2	766.9	452.6	241.1	133.6	87.0	67.5	57.3	52.5	49.7
67.5°	1251.7	991.1	661.3	371.0	185.2	96.8	65.5	53.4	46.6	44.6	42.6
70°	1040.5	790.3	464.2	216.0	94.6	53.9	41.5	37.3	35.6	35.3	34.7
72.5°	797.4	559.4	273.3	102.2	49.1	35.9	32.2	30.8	30.2	30.2	30.5
75°	488.8	314.3	120.8	50.0	34.4	30.2	28.5	28.0	27.7	28.0	27.7
77.5°	163.2	100.0	51.7	37.8	31.3	28.0	26.8	26.3	26.3	26.3	26.3
80°	50.0	43.5	39.5	35.0	29.6	26.5	24.8	24.6	24.8	25.1	24.3
82.5°	37.6	35.6	33.3	31.1	26.8	23.7	23.2	23.2	23.2	22.3	21.2
85°	27.7	27.4	22.6	21.2	19.8	19.8	19.8	19.8	18.9	17.5	16.4
87.5°	5.1	4.8	5.1	5.4	7.9	8.5	8.5	9.0	9.9	9.3	9.3
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: P155577

CATALOG NUMBER: TLM-F01-LED-E1-T3-7060

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	281.5	281.5	281.5	281.5	281.5
2.5°	282.6	282.4	283.2	282.6	282.9
5°	285.2	284.9	285.5	284.9	285.7
7.5°	284.3	283.8	283.5	283.8	284.1
10°	278.4	277.8	277.6	277.3	277.6
12.5°	273.3	272.2	272.2	271.6	271.9
15°	269.7	268.8	268.5	268.0	268.2
17.5°	268.0	266.5	266.0	265.4	265.4
20°	266.8	265.1	264.3	263.7	263.4
22.5°	266.8	264.3	263.2	262.6	262.3
25°	268.0	264.9	263.2	262.3	262.0
27.5°	270.2	266.3	264.3	263.2	263.2
30°	274.2	269.1	266.3	264.9	264.6
32.5°	278.1	271.3	267.4	265.7	265.1
35°	280.1	271.3	266.5	263.7	263.2
37.5°	277.8	267.7	261.7	257.5	256.7
40°	270.8	260.1	253.6	249.6	249.0
42.5°	261.5	251.0	243.4	240.6	239.7
45°	248.8	236.3	228.7	224.8	225.0
47.5°	227.0	214.3	207.5	203.9	204.4
50°	201.3	188.9	183.0	179.0	179.9
52.5°	173.1	161.8	156.1	154.2	153.6
55°	143.4	134.7	130.7	128.5	127.6
57.5°	116.3	110.1	107.3	104.5	104.8
60°	91.8	88.7	87.8	84.7	84.4
62.5°	72.3	70.3	69.5	67.2	67.5
65°	54.8	54.2	54.8	53.4	53.9
66°	49.4	49.7	49.7	48.8	49.4
67.5°	42.6	43.2	44.0	43.2	43.8
70°	35.3	35.9	36.4	36.4	36.4
72.5°	30.8	31.3	31.6	31.6	31.6
75°	28.2	28.5	28.8	28.2	28.2
77.5°	26.5	26.5	26.0	25.7	25.4
80°	24.0	23.7	22.9	22.3	22.3
82.5°	20.0	19.5	18.9	18.1	18.1
85°	15.2	14.7	14.1	13.0	12.4
87.5°	7.9	8.2	7.9	6.5	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)