

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: P155571

Luminaire Tested: **TLM-E01-LED-E1-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P155571
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-E01-LED-E1-T3-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

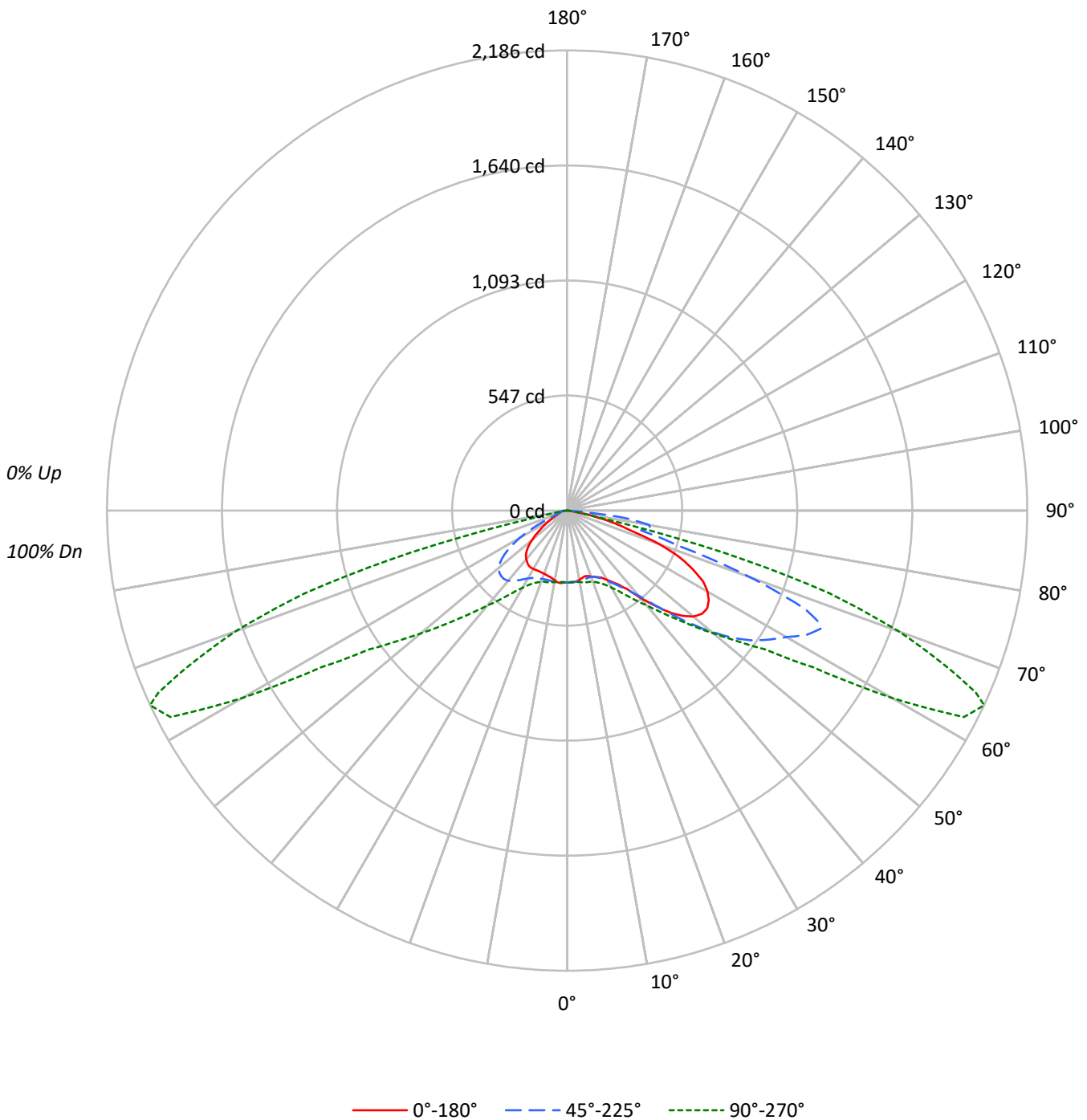
Lumens per Lamp: N/A
Luminaire Lumens: 3164.4 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.97 / 4.22 / 2.62
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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-E01-LED-E1-T3-7050

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	105	99	94	89	102	97	92	87	92	88	84	88	85	82	85	82	79
2	92	82	73	65	89	80	71	64	76	69	63	72	66	61	69	64	60
3	81	68	57	49	79	66	56	49	63	55	48	60	53	47	57	51	46
4	73	57	46	38	70	56	46	38	53	44	37	51	43	36	48	41	36
5	65	49	38	30	63	48	38	30	46	37	29	44	35	29	42	34	29
6	59	43	32	24	57	42	32	24	40	31	24	38	30	24	36	29	23
7	54	38	28	20	52	37	27	20	35	27	20	34	26	20	32	25	20
8	50	34	24	17	48	33	24	17	32	23	17	30	23	17	29	22	17
9	46	31	21	15	45	30	21	15	29	20	15	28	20	15	27	20	14
10	43	28	19	13	42	27	19	13	26	18	13	25	18	13	24	18	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	21591	21591	21591
5°	21674	21655	21998
10°	21487	22143	21616
15°	21166	23113	21297
20°	22471	24271	21501
25°	24375	26618	22174
30°	27783	30956	23433
35°	33315	37968	24642
40°	44609	48601	24937
45°	60944	64713	24410
50°	77119	89353	21464
55°	89593	127202	17066
60°	97622	224966	12955
65°	98537	327449	9783
70°	86362	310143	8164
75°	57074	187687	8367
80°	20820	19070	9845
85°	3487	12641	10897



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.7	1.0
10°-20°	96.4	3.0
20°-30°	165.7	5.2
30°-40°	269.0	8.5
40°-50°	449.1	14.2
50°-60°	707.2	22.3
60°-70°	964.3	30.5
70°-80°	417.4	13.2
80°-90°	62.8	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°	294.7	9.3
0°-40°	563.7	17.8
0°-60°	1720.0	54.4
0°-90°	3164.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3164.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	341	341	341	341	341	
5°	341	342	341	345	346	32
15°	323	336	353	342	325	93
25°	349	351	381	354	317	163
35°	431	440	491	404	319	279
45°	681	690	723	442	273	523
55°	812	1075	1152	364	155	716
65°	658	1329	2186	128	65	639
75°	233	363	767	34	34	249
85°	5	81	17	24	15	13
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°	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0
2.5°	342.4	343.7	342.4	342.7	343.1	342.7	342.4	342.4	341.4	342.0	342.7
5°	341.0	342.0	341.7	342.0	342.4	342.0	341.7	342.0	341.4	341.7	342.7
7.5°	339.3	339.0	339.3	340.0	340.7	340.7	340.7	341.0	340.7	340.7	341.7
10°	334.2	334.5	335.2	336.2	336.6	337.6	337.6	338.6	339.0	339.6	341.0
12.5°	327.7	328.0	328.7	329.4	331.1	332.8	332.8	335.2	336.2	337.9	340.3
15°	322.9	323.2	323.9	324.6	326.0	327.7	328.7	331.4	333.1	336.2	339.6
17.5°	325.6	325.3	326.0	326.3	326.3	327.7	327.7	329.7	331.8	334.5	339.0
20°	333.5	333.5	334.2	334.2	333.8	334.5	333.1	333.1	333.5	334.9	337.9
22.5°	341.4	341.0	342.4	343.1	343.4	344.4	343.1	342.7	341.0	340.0	341.0
25°	348.9	348.5	350.2	351.3	353.0	354.0	354.0	354.0	352.6	350.9	349.9
27.5°	360.5	360.5	362.2	363.2	364.6	366.7	367.7	367.7	368.0	365.6	363.9
30°	380.0	380.3	380.7	382.1	383.4	384.1	385.5	386.5	387.5	386.2	383.4
32.5°	403.3	401.2	401.2	403.3	405.0	407.0	407.7	409.1	411.1	410.1	409.8
35°	431.0	430.3	429.6	430.3	432.3	434.7	437.5	439.9	438.5	440.5	439.5
37.5°	472.0	472.7	473.0	473.0	472.7	473.4	474.7	477.1	476.5	477.1	478.5
40°	539.7	537.3	534.9	535.3	531.9	532.5	527.1	529.5	529.8	527.4	528.4
42.5°	607.5	608.8	609.8	612.6	610.2	608.8	603.7	603.7	601.0	598.6	597.9
45°	680.6	683.4	683.7	689.2	687.1	691.6	695.4	694.3	689.9	689.5	684.8
47.5°	739.1	743.6	748.4	754.9	760.0	769.9	781.6	787.4	790.8	793.5	788.0
50°	782.9	785.0	797.3	807.5	818.8	835.2	851.3	872.2	888.9	896.8	904.3
52.5°	806.5	811.6	825.0	841.1	860.9	885.5	911.5	944.7	973.4	992.6	1009.7
55°	811.6	816.8	831.8	852.4	879.4	912.5	949.8	995.0	1038.1	1075.0	1110.9
57.5°	797.3	803.1	819.2	842.8	874.6	914.9	961.8	1021.0	1080.5	1140.3	1193.4
60°	770.9	778.1	792.8	816.1	851.3	896.8	952.9	1027.1	1110.6	1202.3	1303.8
62.5°	727.5	735.0	748.7	774.4	810.6	860.9	925.9	1018.2	1136.2	1280.6	1460.8
65°	657.7	661.2	677.9	703.9	736.1	791.5	863.0	974.5	1128.0	1328.8	1577.1
66°	626.3	632.1	642.3	663.2	694.0	746.0	817.8	931.0	1096.9	1312.0	1574.0
67.5°	577.0	581.5	588.3	602.3	621.1	659.4	727.5	834.6	1001.8	1227.2	1508.7
70°	466.5	468.6	477.8	482.6	489.1	501.8	526.4	588.0	718.3	930.0	1217.6
72.5°	318.1	323.9	333.8	347.5	365.3	382.4	394.0	401.9	429.9	554.8	811.3
75°	233.3	239.4	252.1	270.2	301.3	336.9	373.8	390.9	379.3	363.2	451.8
77.5°	135.4	143.7	154.3	171.7	200.4	247.6	310.9	367.0	405.0	407.4	386.8
80°	57.1	58.1	64.6	73.5	91.3	124.5	173.8	254.5	338.6	395.4	408.7
82.5°	13.0	16.1	20.5	24.3	29.8	41.0	60.9	101.2	183.0	287.0	374.2
85°	4.8	4.8	6.5	9.6	10.9	12.3	16.1	25.7	43.8	80.7	168.3
87.5°	0.0	0.3	0.7	0.7	1.4	1.7	2.7	3.8	3.4	3.1	10.3
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°	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0
2.5°	342.0	341.7	341.0	341.0	341.0	341.0	340.3	340.7	340.0	340.3	340.3
5°	341.7	341.7	341.4	340.7	341.0	341.0	341.4	340.7	340.7	341.0	340.7
7.5°	341.7	341.4	341.4	341.4	341.7	341.4	341.7	341.7	341.7	342.0	342.0
10°	341.7	341.7	342.4	342.7	342.7	343.1	344.1	344.1	344.4	344.8	345.5
12.5°	342.0	343.4	344.4	345.5	345.8	346.5	348.2	348.2	348.9	349.9	350.2
15°	342.4	344.4	346.5	347.2	347.8	349.2	350.9	351.6	352.6	353.7	354.3
17.5°	342.0	344.8	347.2	348.2	349.2	350.9	353.0	353.7	355.0	356.4	357.8
20°	341.7	345.5	349.2	350.6	352.0	354.3	357.1	358.8	360.2	362.2	363.6
22.5°	343.7	348.2	353.3	355.4	357.8	360.8	364.6	366.7	368.4	370.4	371.5
25°	350.2	353.7	359.8	363.2	366.3	371.5	376.6	379.0	381.0	382.7	383.1
27.5°	361.2	362.2	369.7	374.2	378.6	386.8	393.0	394.7	398.5	399.8	399.5
30°	379.0	377.3	383.4	390.3	396.8	408.0	415.6	420.0	423.4	423.4	420.7
32.5°	404.6	401.9	403.6	411.5	419.0	435.4	444.3	450.1	452.5	451.8	446.0
35°	438.1	436.4	435.4	441.6	453.5	472.7	484.3	487.4	491.2	490.5	483.0
37.5°	477.8	476.5	476.5	483.6	495.3	523.7	536.3	538.4	538.0	532.5	518.5
40°	524.7	524.0	520.9	525.0	534.9	571.9	589.0	591.7	588.0	579.1	562.6
42.5°	592.1	588.0	578.4	580.8	588.3	624.2	646.4	654.0	650.2	641.3	614.6
45°	680.0	675.5	659.4	657.4	661.5	693.0	721.7	723.4	722.7	711.4	680.0
47.5°	783.3	776.4	759.3	753.8	752.5	781.6	809.3	812.0	810.3	793.5	751.5
50°	895.1	885.2	873.9	870.1	864.7	885.5	913.6	913.9	907.1	883.8	844.5
52.5°	1014.5	1011.1	1009.0	1005.2	1002.8	1021.0	1038.1	1027.8	1017.6	993.3	959.1
55°	1134.9	1148.9	1163.3	1164.6	1168.7	1188.2	1187.9	1159.8	1152.3	1139.0	1105.1
57.5°	1262.8	1314.8	1359.9	1374.0	1387.6	1423.9	1420.5	1392.8	1383.2	1366.8	1338.7
60°	1436.9	1577.1	1707.4	1738.6	1760.1	1803.6	1799.4	1756.7	1776.5	1775.2	1738.9
62.5°	1680.8	1914.0	2109.3	2157.2	2172.3	2177.1	2151.1	2104.9	2124.4	2146.3	2034.8
65°	1846.0	2120.3	2320.7	2357.6	2359.7	2302.6	2244.8	2190.4	2185.6	2166.8	2007.4
66°	1849.7	2130.5	2331.7	2367.6	2354.9	2276.9	2203.7	2149.0	2125.4	2084.0	1918.8
67.5°	1783.4	2066.6	2283.1	2321.1	2293.3	2182.9	2082.0	2011.5	1965.3	1898.3	1752.6
70°	1497.8	1778.6	2045.4	2116.2	2125.1	1960.2	1820.3	1737.5	1675.3	1583.3	1457.8
72.5°	1113.7	1367.5	1602.8	1670.5	1705.0	1573.4	1455.4	1392.4	1307.3	1210.5	1121.2
75°	698.1	877.3	1035.0	1082.5	1050.0	948.1	877.3	851.0	767.2	709.4	668.7
77.5°	399.2	455.2	467.9	449.8	411.5	315.0	224.0	165.9	144.0	159.4	175.8
80°	389.6	357.1	284.6	250.4	226.8	156.0	91.7	62.9	52.3	53.7	58.1
82.5°	422.1	452.9	372.8	304.1	255.2	172.4	95.1	50.6	34.2	40.4	45.5
85°	274.3	381.7	343.7	289.7	234.6	147.4	78.3	26.3	17.4	22.9	31.5
87.5°	27.7	30.4	26.0	35.2	26.3	12.3	6.2	3.8	3.4	4.1	6.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0	341.0
2.5°	340.7	340.7	341.0	341.4	341.7	342.0	342.0	342.0	342.0	342.7	342.4
5°	341.4	342.0	342.7	343.1	343.7	343.7	344.8	344.4	344.4	345.5	345.8
7.5°	342.7	343.7	345.1	344.8	346.1	345.8	346.5	346.5	345.5	345.8	345.1
10°	345.8	347.2	347.8	346.8	347.2	345.8	345.5	343.7	341.7	340.7	339.3
12.5°	350.9	352.3	352.3	350.6	348.5	345.5	343.1	339.3	336.2	334.5	332.8
15°	355.4	356.7	356.4	353.7	350.6	345.8	342.4	337.9	333.5	330.7	329.0
17.5°	358.8	359.5	358.5	354.7	351.3	346.8	343.4	338.6	333.5	330.1	327.0
20°	363.9	363.2	360.8	356.1	352.3	348.2	345.5	341.4	335.5	331.1	326.6
22.5°	371.5	368.7	364.3	359.1	355.4	351.6	348.9	344.4	338.6	333.1	328.0
25°	381.4	375.9	369.7	364.3	360.8	356.7	353.7	348.9	342.7	336.6	330.4
27.5°	395.7	386.2	378.3	373.5	369.7	364.6	360.8	354.7	348.2	341.0	334.2
30°	411.8	398.8	391.3	387.5	383.4	377.9	372.1	364.3	356.7	348.9	340.7
32.5°	432.7	416.9	409.8	406.0	400.5	393.7	386.8	377.9	367.3	357.1	347.2
35°	460.0	444.0	436.4	430.6	423.1	414.2	404.3	392.3	377.9	364.3	351.6
37.5°	489.5	472.0	464.8	458.7	447.4	435.8	421.7	404.3	384.8	366.7	350.9
40°	526.7	510.7	501.4	490.8	477.5	457.3	435.4	410.1	385.1	362.9	344.4
42.5°	573.9	557.9	544.2	527.4	504.2	473.0	441.9	409.1	379.0	353.7	333.8
45°	636.5	617.0	593.4	564.0	526.4	483.0	442.3	402.6	367.3	339.3	318.1
47.5°	713.1	683.4	644.7	595.1	541.1	485.7	436.8	389.6	349.2	318.8	295.2
50°	804.1	757.3	693.6	620.8	548.6	481.6	423.1	370.1	323.6	291.1	263.0
52.5°	908.1	831.5	737.8	639.3	548.3	467.9	399.8	340.7	290.0	253.8	227.1
55°	1030.2	916.3	783.3	652.9	538.7	442.6	364.3	299.3	248.7	215.1	190.5
57.5°	1209.1	1053.8	862.6	674.2	519.6	403.6	316.0	249.7	205.2	173.4	152.5
60°	1536.1	1283.3	1005.6	716.9	490.1	346.5	259.6	196.7	159.4	133.7	119.7
62.5°	1782.3	1460.8	1082.9	707.3	431.0	276.0	192.6	143.3	117.3	99.9	91.0
65°	1747.1	1405.8	1000.5	609.2	337.9	194.6	127.9	97.5	80.7	72.5	67.4
66°	1667.4	1333.9	929.0	548.3	292.1	161.8	105.3	81.7	69.4	63.6	60.2
67.5°	1516.2	1200.5	801.0	449.4	224.4	117.3	79.4	64.6	56.4	54.0	51.6
70°	1260.4	957.4	562.3	261.7	114.6	65.3	50.3	45.1	43.1	42.8	42.1
72.5°	965.9	677.6	331.1	123.8	59.5	43.4	39.0	37.3	36.6	36.6	36.9
75°	592.1	380.7	146.4	60.5	41.7	36.6	34.5	33.9	33.5	33.9	33.5
77.5°	197.7	121.1	62.6	45.8	38.0	33.9	32.5	31.8	31.8	31.8	31.8
80°	60.5	52.7	47.9	42.4	35.9	32.2	30.1	29.8	30.1	30.4	29.4
82.5°	45.5	43.1	40.4	37.6	32.5	28.7	28.0	28.0	28.0	27.0	25.7
85°	33.5	33.2	27.4	25.7	23.9	23.9	23.9	23.9	22.9	21.2	19.8
87.5°	6.2	5.8	6.2	6.5	9.6	10.3	10.3	10.9	12.0	11.3	11.3
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: P155571

CATALOG NUMBER: TLM-E01-LED-E1-T3-7050

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	341.0	341.0	341.0	341.0	341.0
2.5°	342.4	342.0	343.1	342.4	342.7
5°	345.5	345.1	345.8	345.1	346.1
7.5°	344.4	343.7	343.4	343.7	344.1
10°	337.2	336.6	336.2	335.9	336.2
12.5°	331.1	329.7	329.7	329.0	329.4
15°	326.6	325.6	325.3	324.6	324.9
17.5°	324.6	322.9	322.2	321.5	321.5
20°	323.2	321.2	320.1	319.5	319.1
22.5°	323.2	320.1	318.8	318.1	317.8
25°	324.6	320.8	318.8	317.8	317.4
27.5°	327.3	322.5	320.1	318.8	318.8
30°	332.1	326.0	322.5	320.8	320.5
32.5°	336.9	328.7	323.9	321.9	321.2
35°	339.3	328.7	322.9	319.5	318.8
37.5°	336.6	324.2	317.1	311.9	310.9
40°	328.0	315.0	307.1	302.4	301.7
42.5°	316.7	304.1	294.8	291.4	290.4
45°	301.3	286.3	277.0	272.3	272.6
47.5°	275.0	259.6	251.4	246.9	247.6
50°	243.9	228.8	221.6	216.9	217.9
52.5°	209.7	196.0	189.1	186.8	186.1
55°	173.8	163.2	158.4	155.6	154.6
57.5°	140.9	133.4	130.0	126.6	126.9
60°	111.2	107.4	106.4	102.6	102.3
62.5°	87.6	85.2	84.1	81.4	81.7
65°	66.4	65.7	66.4	64.6	65.3
66°	59.9	60.2	60.2	59.2	59.9
67.5°	51.6	52.3	53.4	52.3	53.0
70°	42.8	43.4	44.1	44.1	44.1
72.5°	37.3	38.0	38.3	38.3	38.3
75°	34.2	34.5	34.9	34.2	34.2
77.5°	32.2	32.2	31.5	31.1	30.8
80°	29.1	28.7	27.7	27.0	27.0
82.5°	24.3	23.6	22.9	21.9	21.9
85°	18.5	17.8	17.1	15.7	15.0
87.5°	9.6	9.9	9.6	7.9	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)