

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: P151783

Luminaire Tested: **TLM-F01-LED-E1-SL4-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P151783  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)  
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-SL4-HSS-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (7) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1417.7 lumens  
Efficiency: N/A  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 4.24 / 0.98 / 4.1  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

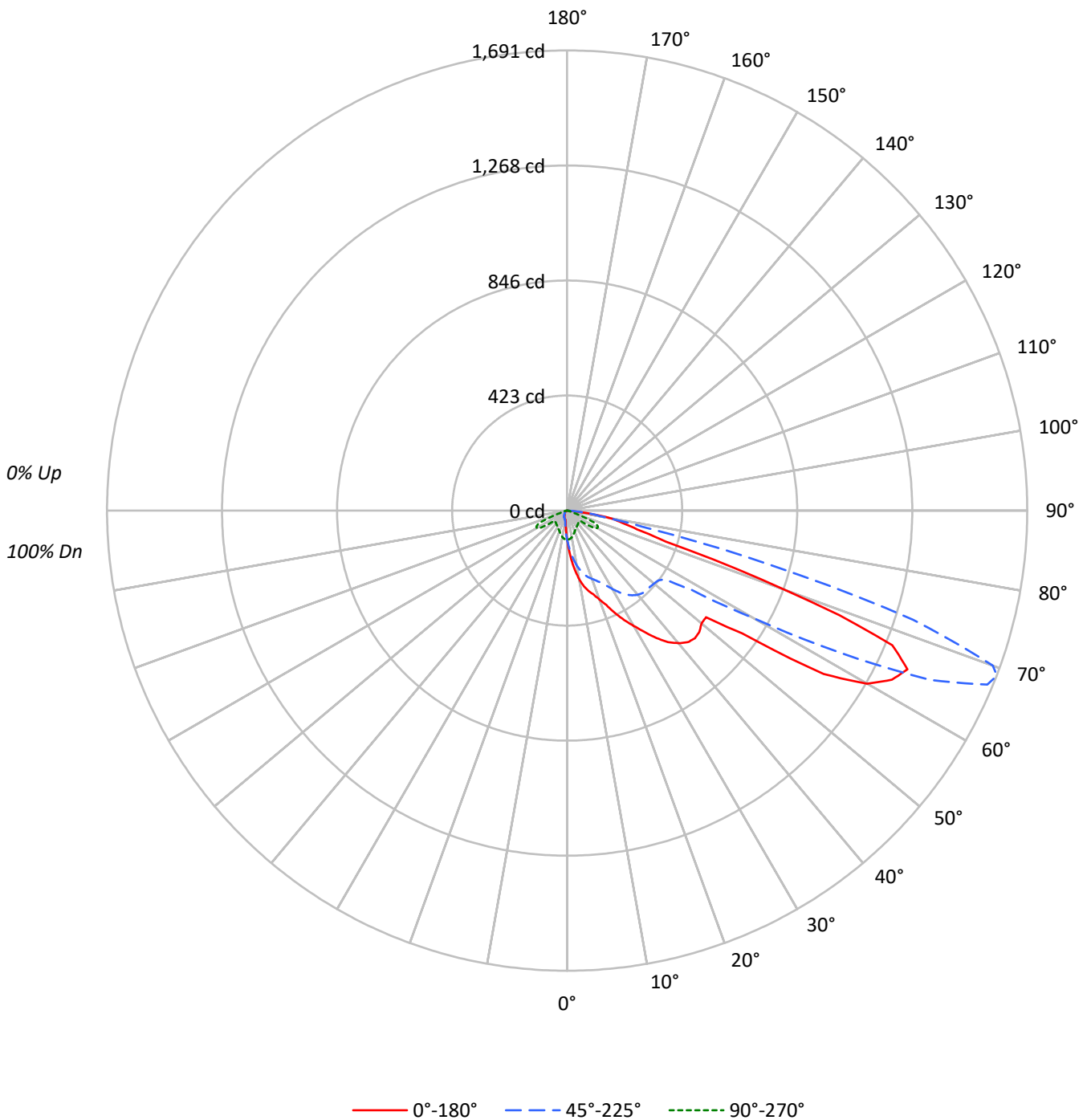
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F01-LED-E1-SL4-HSS-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
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	93	88	102	96	91	86	92	87	83	88	84	81	84	81	78
2	91	80	71	63	88	78	70	62	74	67	61	71	65	59	68	62	58
3	80	66	55	47	77	64	54	46	61	52	45	58	51	44	55	49	43
4	71	56	44	36	68	54	44	35	51	42	35	49	41	34	46	39	33
5	64	48	36	28	61	46	36	28	44	35	27	42	33	27	40	32	27
6	58	42	31	23	56	40	30	22	38	29	22	37	28	22	35	27	22
7	53	37	26	19	51	36	26	19	34	25	18	32	24	18	31	24	18
8	49	33	23	16	47	32	22	16	31	22	16	29	21	15	28	21	15
9	45	30	20	14	44	29	20	14	28	19	13	27	19	13	25	18	13
10	42	27	18	12	41	27	18	12	25	17	12	24	17	12	23	17	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	6781	6781	6781
5°	11587	6686	3559
10°	16498	6391	2282
15°	20065	5873	2071
20°	23408	5478	1880
25°	28979	5240	1656
30°	35759	5125	1411
35°	44198	5078	1183
40°	52577	5166	1091
45°	59439	5391	1119
50°	63506	5930	1034
55°	86778	10255	618
60°	161142	16260	443
65°	206753	17574	419
70°	156118	7257	481
75°	65000	2789	563
80°	59362	2625	766
85°	5231	2397	1380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.0	0.8
10°-20°	37.9	2.7
20°-30°	72.6	5.1
30°-40°	120.8	8.5
40°-50°	163.4	11.5
50°-60°	255.6	18.0
60°-70°	525.4	37.1
70°-80°	211.4	14.9
80°-90°	19.6	1.4
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°	121.6	8.6
0°-40°	242.3	17.1
0°-60°	661.3	46.6
0°-90°	1417.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.7	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	107	107	107	107	107	
5°	182	155	105	67	56	20
15°	306	243	90	33	32	87
25°	415	292	75	26	24	194
35°	572	377	66	19	15	359
45°	664	413	60	12	12	507
55°	786	439	93	8	6	793
65°	1380	1472	117	4	3	1264
75°	266	775	11	2	2	356
85°	7	31	3	1	2	45
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°	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1
2.5°	142.8	141.2	139.3	139.3	137.0	137.0	135.6	131.9	131.5	129.4	127.3
5°	182.3	180.9	178.6	176.5	174.6	171.4	169.1	164.7	159.8	155.1	151.0
7.5°	220.9	220.2	216.0	215.3	212.3	206.9	202.3	195.8	187.4	180.9	173.3
10°	256.6	255.0	254.1	250.1	245.7	239.9	232.7	224.8	215.1	204.8	193.9
12.5°	285.0	284.0	279.9	278.2	273.6	267.8	258.7	248.5	238.7	225.5	212.7
15°	306.1	304.5	301.7	299.1	293.6	288.4	280.1	268.9	257.1	242.7	227.4
17.5°	323.7	320.7	320.0	316.1	310.3	304.2	295.0	284.7	270.8	256.4	239.7
20°	347.4	343.3	341.9	336.1	329.3	321.0	310.3	297.5	282.9	267.1	249.9
22.5°	375.3	372.3	369.3	364.2	355.6	343.7	328.2	314.2	295.6	278.2	259.7
25°	414.8	412.2	407.4	400.4	389.7	375.5	356.7	336.3	314.5	292.2	270.3
27.5°	453.1	450.8	447.3	442.0	429.9	414.3	391.1	365.1	337.5	310.5	286.4
30°	489.1	487.0	483.5	478.2	467.5	452.2	425.9	398.1	363.7	332.3	303.3
32.5°	527.9	527.2	523.2	515.6	506.3	485.6	457.1	427.1	392.3	356.0	322.1
35°	571.8	566.4	562.7	555.1	539.3	517.2	483.8	451.0	414.3	377.2	339.3
37.5°	608.9	603.8	599.2	589.4	570.2	542.1	504.2	468.2	430.4	392.5	353.9
40°	636.1	633.6	628.0	615.2	593.6	560.2	519.3	480.1	442.0	403.9	365.8
42.5°	656.3	652.4	646.1	632.9	607.3	569.2	525.3	484.9	447.3	410.8	373.5
45°	663.8	660.5	654.7	640.3	612.7	571.8	525.1	483.5	447.5	412.9	378.6
47.5°	659.3	656.1	651.0	637.5	610.3	568.8	520.9	479.6	445.2	413.6	383.2
50°	644.7	642.9	638.9	627.5	603.1	563.0	517.2	477.5	444.7	417.1	389.7
52.5°	643.3	642.2	637.3	625.9	601.1	561.1	516.7	478.7	448.7	421.5	394.4
55°	786.1	769.7	732.7	701.4	649.8	588.5	540.2	497.5	465.4	438.9	419.9
57.5°	1117.3	1092.7	1044.2	984.5	866.0	749.7	656.6	589.2	556.0	543.9	551.1
60°	1272.5	1268.1	1260.4	1232.1	1171.4	1071.3	959.9	839.3	791.0	786.8	801.5
62.5°	1346.1	1343.3	1345.6	1342.1	1323.3	1294.1	1262.0	1210.0	1162.2	1131.3	1065.8
65°	1380.0	1381.9	1395.1	1405.5	1407.9	1415.5	1439.0	1503.8	1551.2	1471.5	1289.7
67.5°	1293.8	1304.8	1335.2	1373.3	1417.9	1461.1	1530.7	1667.3	1764.6	1671.0	1412.7
69°	1071.1	1076.5	1150.8	1222.5	1331.5	1407.6	1508.7	1687.7	1797.1	1691.4	1403.0
70°	843.3	848.2	927.8	1025.4	1209.5	1307.5	1439.7	1653.1	1766.7	1664.3	1352.8
72.5°	380.4	373.5	401.6	453.8	654.0	809.6	1040.7	1339.4	1457.6	1333.3	1012.1
75°	265.7	262.7	265.7	265.9	297.0	383.2	483.5	726.0	897.9	774.8	483.5
77.5°	205.8	203.7	201.6	199.3	203.0	227.4	237.1	257.6	334.4	316.3	184.4
80°	162.8	160.9	166.1	164.4	164.4	167.2	165.4	157.7	143.3	132.8	118.9
82.5°	75.7	76.2	76.2	82.7	99.6	116.4	121.7	114.0	101.3	86.2	69.4
85°	7.2	8.1	13.7	21.1	42.0	47.4	47.6	39.5	39.5	31.1	25.1
87.5°	0.0	0.2	0.2	0.2	2.1	5.8	4.9	1.4	0.7	0.7	1.2
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°	70°	75°	80°	85°	90°	95°	100°	105°
0°	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1
2.5°	123.6	122.9	120.1	117.3	114.7	111.9	109.4	106.8	104.0	102.0	99.4
5°	144.5	139.3	133.5	128.0	122.4	116.6	110.5	105.2	99.6	94.5	89.6
7.5°	165.6	155.6	147.7	137.7	128.7	119.6	111.2	102.7	94.8	87.3	80.4
10°	183.5	171.4	159.1	146.3	133.3	121.2	109.6	99.4	88.9	79.9	71.3
12.5°	198.1	182.8	167.7	151.7	137.0	121.7	107.3	95.0	82.7	72.5	63.6
15°	211.3	193.7	175.6	157.0	138.4	121.0	105.0	89.6	77.1	65.5	55.5
17.5°	222.0	201.8	181.4	160.5	140.5	120.1	102.0	85.9	71.3	59.2	49.5
20°	231.3	210.2	188.1	164.7	141.9	119.8	99.4	81.3	66.2	53.4	43.9
22.5°	239.9	218.8	195.1	170.0	144.0	119.6	97.1	77.8	61.8	49.0	39.5
25°	249.7	227.4	202.5	175.6	147.7	120.5	95.7	75.0	57.8	44.8	36.0
27.5°	260.6	237.1	211.3	182.5	152.6	122.4	95.2	72.0	54.3	40.9	33.2
30°	275.9	248.7	220.2	189.5	157.0	124.5	94.8	70.1	50.9	37.9	30.4
32.5°	289.4	260.1	229.9	196.7	161.9	126.6	94.5	67.6	47.6	34.8	28.3
35°	303.5	270.6	238.3	203.7	166.1	128.9	94.3	65.7	44.6	31.8	26.2
37.5°	315.9	279.4	244.8	209.7	170.7	131.0	94.5	64.1	41.8	29.3	24.4
40°	326.3	288.4	252.0	215.3	175.6	134.2	94.8	62.5	39.0	26.9	22.8
42.5°	335.6	297.0	259.7	221.6	181.2	138.0	96.1	61.1	36.7	24.9	21.1
45°	342.8	304.9	268.0	230.4	190.2	144.0	98.7	60.2	34.4	23.0	19.7
47.5°	350.2	316.6	282.2	244.3	203.4	153.5	103.1	59.9	32.5	21.6	18.6
50°	360.4	328.2	294.7	258.5	215.5	163.3	108.5	60.2	30.2	20.2	17.4
52.5°	367.9	340.0	311.0	283.1	244.3	193.0	129.1	64.3	29.0	19.0	16.0
55°	411.8	406.9	407.6	412.2	382.3	328.4	216.0	92.9	34.1	21.6	15.8
57.5°	580.6	597.8	607.8	607.6	558.1	462.9	290.1	119.4	38.1	25.1	18.8
60°	802.6	789.6	771.3	726.0	660.3	528.4	324.4	128.4	33.0	20.0	17.2
62.5°	998.9	922.7	855.1	781.7	695.6	551.1	331.4	127.7	28.8	15.1	12.1
65°	1121.3	984.3	875.1	783.1	681.6	532.1	313.5	117.3	24.4	12.3	10.0
67.5°	1150.5	951.0	796.6	679.3	569.5	414.1	230.2	88.3	19.0	10.2	8.8
69°	1086.7	845.4	660.0	527.0	414.3	274.7	142.4	55.7	14.6	9.3	8.1
70°	999.6	735.3	537.6	422.9	306.8	193.0	99.6	39.2	11.8	8.6	7.4
72.5°	643.1	386.2	264.3	183.9	126.6	76.9	39.0	17.7	9.1	7.2	6.0
75°	249.4	142.8	103.6	78.7	61.5	42.7	23.7	11.4	7.7	6.0	4.6
77.5°	122.9	94.1	76.9	52.7	30.7	19.0	12.8	8.8	6.3	4.4	3.0
80°	97.1	64.6	38.6	23.9	18.1	13.7	9.8	7.2	4.6	2.8	2.1
82.5°	49.7	27.2	20.0	16.3	13.5	10.7	7.9	5.1	3.0	1.9	1.6
85°	15.6	11.4	10.2	10.0	9.3	7.7	5.6	3.3	1.9	1.2	1.2
87.5°	1.2	1.6	2.1	1.6	1.9	1.6	2.1	1.4	0.9	0.9	0.7
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°	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1	107.1
2.5°	97.5	94.8	92.2	90.6	87.6	86.4	85.2	84.8	82.7	83.1	81.3
5°	85.2	80.4	76.6	72.9	69.4	66.9	64.8	62.2	60.2	59.2	57.4
7.5°	74.1	67.8	62.9	59.0	54.8	51.6	48.8	46.9	45.1	43.2	42.3
10°	64.3	57.6	52.0	48.1	44.1	41.3	39.2	37.9	36.7	36.0	35.8
12.5°	55.3	48.8	43.7	40.2	37.2	35.8	34.8	34.1	33.9	33.7	33.7
15°	48.3	41.8	37.9	35.3	33.9	33.2	33.0	32.5	32.0	31.8	31.8
17.5°	41.8	36.9	34.1	32.7	32.0	31.6	31.1	30.7	30.2	30.0	30.0
20°	37.4	33.4	32.0	31.1	30.4	30.0	29.3	28.8	28.6	28.3	28.1
22.5°	33.9	31.4	30.4	29.7	28.8	28.1	27.6	27.2	26.7	26.5	26.2
25°	31.4	29.7	29.0	28.1	27.2	26.5	25.8	25.1	24.6	24.4	23.9
27.5°	29.5	28.3	27.4	26.2	25.3	24.6	23.9	23.2	22.8	22.3	22.1
30°	27.9	26.7	25.5	24.6	23.5	22.8	21.8	21.1	20.9	20.4	20.0
32.5°	26.2	25.1	23.9	22.8	21.6	20.7	20.2	19.3	18.8	18.6	18.1
35°	24.4	23.2	21.8	20.9	19.7	18.8	18.1	17.4	17.0	16.5	16.3
37.5°	22.8	21.4	20.0	18.8	17.9	17.0	16.3	15.6	15.1	14.6	14.4
40°	20.9	19.5	18.1	17.0	16.0	15.3	14.6	13.9	13.5	13.2	13.2
42.5°	19.3	17.7	16.3	15.3	14.6	13.7	13.0	12.3	12.1	11.8	12.1
45°	17.7	16.0	14.9	13.9	13.2	12.3	11.6	11.1	10.9	11.1	11.4
47.5°	16.3	14.6	13.5	12.8	12.1	11.4	10.7	10.2	10.2	10.7	11.1
50°	14.9	13.2	12.3	11.8	11.1	10.5	9.5	9.3	9.5	10.0	10.5
52.5°	13.5	11.6	10.9	10.7	10.0	9.3	8.6	8.4	8.6	9.1	8.8
55°	12.1	10.2	10.0	9.8	9.1	8.1	7.4	7.4	7.4	7.2	6.7
57.5°	11.6	9.1	8.8	8.6	7.9	7.0	6.5	6.0	5.8	5.1	4.9
60°	12.1	8.1	8.1	7.7	7.0	6.0	5.3	4.6	4.2	3.7	3.7
62.5°	9.8	7.4	7.2	6.7	5.8	4.9	4.2	3.5	3.3	3.0	3.0
65°	7.9	6.7	6.3	5.6	4.9	3.9	3.3	2.8	2.6	2.6	2.8
67.5°	7.2	6.0	5.3	4.6	3.9	3.0	2.6	2.3	2.3	2.6	2.6
69°	6.7	5.6	4.9	4.2	3.5	2.8	2.3	2.3	2.3	2.3	2.6
70°	6.3	5.3	4.6	3.9	3.0	2.3	2.1	2.1	2.3	2.3	2.6
72.5°	4.9	4.2	3.9	3.3	2.3	2.1	1.9	2.1	2.1	2.3	2.3
75°	3.7	3.0	3.0	2.6	1.9	1.6	1.6	1.9	1.9	2.1	2.1
77.5°	2.6	2.1	2.1	1.9	1.6	1.4	1.4	1.6	1.9	1.9	2.1
80°	1.9	1.6	1.4	1.6	1.4	1.2	1.4	1.6	1.6	1.9	1.9
82.5°	1.4	1.4	1.4	1.4	1.2	1.2	1.4	1.4	1.6	1.9	1.9
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	1.4	1.6	1.6
87.5°	0.7	0.7	0.7	0.9	0.9	1.2	1.2	1.2	1.2	1.4	1.4
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: P151783

CATALOG NUMBER: TLM-F01-LED-E1-SL4-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	107.1	107.1	107.1	107.1
2.5°	80.8	80.6	79.7	79.9
5°	56.7	55.3	56.2	56.0
7.5°	41.6	41.3	41.1	41.6
10°	35.5	35.5	35.3	35.5
12.5°	33.4	33.4	33.4	33.4
15°	31.8	31.8	31.6	31.6
17.5°	30.0	30.0	30.0	29.7
20°	28.1	27.9	27.9	27.9
22.5°	26.0	25.8	25.8	25.8
25°	23.9	23.7	23.7	23.7
27.5°	21.8	21.6	21.4	21.4
30°	19.7	19.5	19.3	19.3
32.5°	17.7	17.4	17.2	17.2
35°	15.8	15.8	15.6	15.3
37.5°	14.2	14.2	14.2	14.2
40°	13.0	13.2	13.2	13.2
42.5°	12.3	12.5	12.8	13.0
45°	11.8	12.3	12.5	12.5
47.5°	11.6	11.8	12.1	12.1
50°	10.7	10.5	10.5	10.5
52.5°	8.6	8.1	7.9	7.7
55°	6.3	6.0	5.6	5.6
57.5°	4.4	4.4	4.2	4.2
60°	3.5	3.5	3.3	3.5
62.5°	3.0	3.0	3.0	3.0
65°	2.8	2.8	2.8	2.8
67.5°	2.8	2.8	2.8	2.8
69°	2.6	2.6	2.6	2.6
70°	2.6	2.6	2.6	2.6
72.5°	2.3	2.3	2.3	2.3
75°	2.1	2.3	2.3	2.3
77.5°	2.1	2.1	2.1	2.1
80°	1.9	1.9	2.1	2.1
82.5°	1.9	1.9	1.9	1.9
85°	1.6	1.6	1.9	1.9
87.5°	1.4	1.4	1.6	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)