

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: P148935

Luminaire Tested: **TLM-F01-LED-E1-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P148935  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)  
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-RW  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (7) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2578.9 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

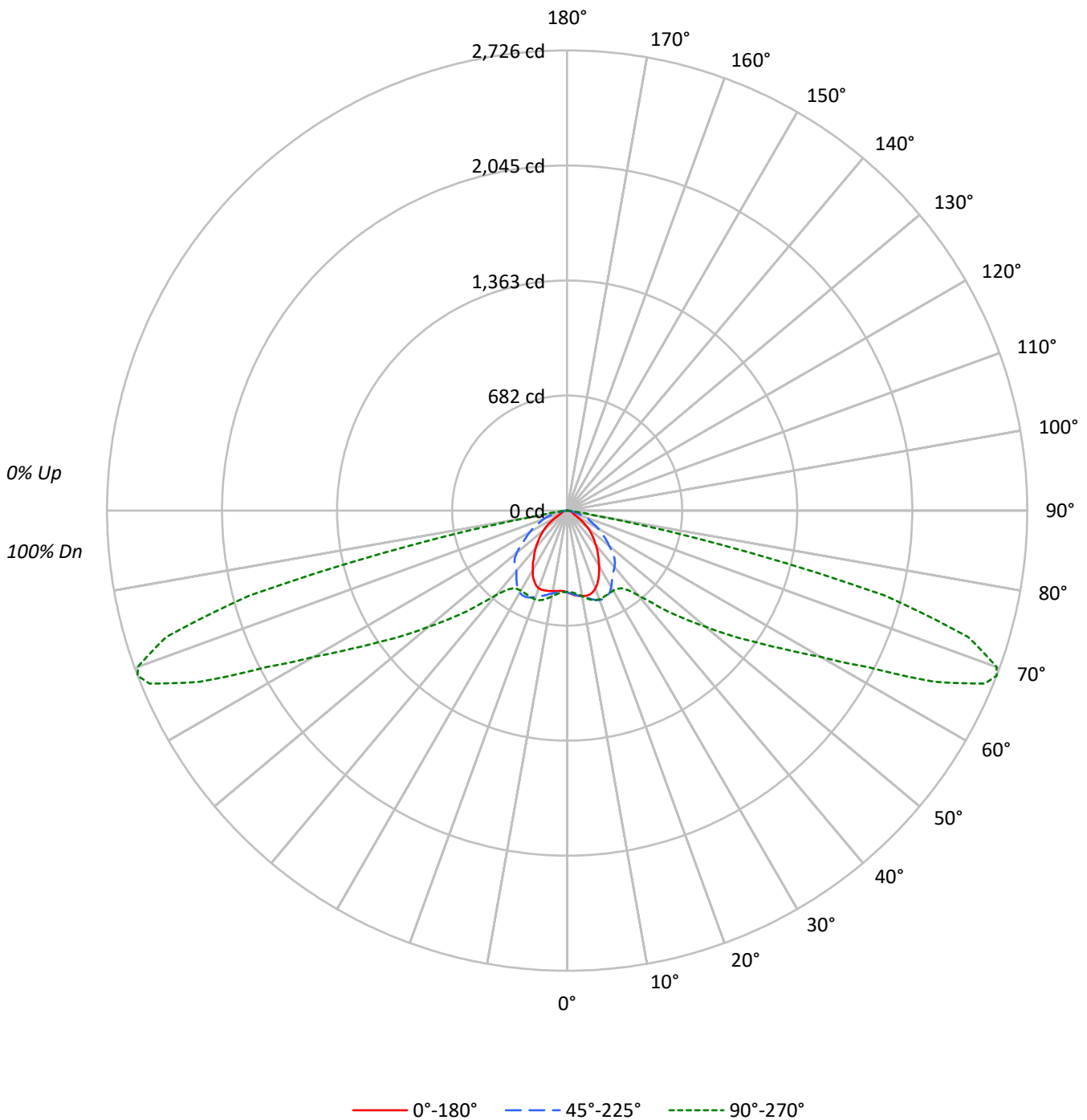
Input Watts (W): 25.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F01-LED-E1-RW

### 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	106	101	95	91	104	98	93	89	94	90	86	90	87	84	86	84	81	79
2	94	84	76	69	91	82	75	68	79	72	66	75	70	65	72	67	63	61
3	84	72	62	54	81	70	61	54	67	59	52	64	57	51	61	55	51	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39
5	69	54	44	36	67	53	43	36	51	42	35	49	41	35	47	40	35	32
6	63	48	38	31	61	47	37	30	45	36	30	43	36	30	42	35	29	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	38	31	25	23
8	54	39	29	23	52	38	29	23	37	29	23	35	28	23	34	27	22	20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16

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

	0°	90°	180°
0°	30595	30595	30595
5°	31951	31150	30343
10°	33047	33156	31157
15°	33805	35876	32146
20°	32983	37659	33057
25°	30782	38585	32165
30°	27702	40058	29757
35°	24611	43409	26605
40°	21697	54015	23970
45°	18974	75692	20944
50°	15967	105527	17967
55°	11514	149755	14130
60°	6864	219293	8434
65°	6188	359286	6188
70°	6313	501065	6424
75°	6728	476874	7070
80°	6819	61404	7438
85°	4432	15401	6175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	1.8
10°-20°	149.5	5.8
20°-30°	242.2	9.4
30°-40°	301.9	11.7
40°-50°	377.2	14.6
50°-60°	465.8	18.1
60°-70°	578.8	22.4
70°-80°	384.3	14.9
80°-90°	31.7	1.2
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°	439.2	17.0
0°-40°	741.0	28.7
0°-60°	1584.1	61.4
0°-90°	2578.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2578.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	483	483	483	483	483	
5°	503	500	490	482	477	48
15°	516	542	547	520	490	144
25°	441	561	552	566	460	201
35°	318	469	562	522	344	199
45°	212	395	845	441	234	163
55°	104	267	1357	313	128	93
65°	41	155	2398	197	41	42
75°	28	61	1949	80	29	29
85°	6	12	21	15	8	8
90°	0	0	0	0	0	



TEST NUMBER: P148935

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	494.2	495.9	494.2	494.2	492.8	491.5	490.6	488.7	487.6	487.1	487.1
5°	502.7	502.5	502.7	502.7	501.4	499.7	498.6	497.0	495.3	495.0	494.8
7.5°	509.1	508.8	509.6	511.3	510.4	509.1	509.1	507.4	506.3	506.3	505.8
10°	514.0	514.3	516.0	518.4	519.0	518.7	520.6	520.1	519.5	520.1	519.5
12.5°	517.3	517.6	519.8	524.5	527.5	529.4	534.4	534.7	534.9	534.9	534.9
15°	515.7	515.7	520.1	528.9	536.3	542.1	548.4	549.5	548.4	549.2	548.7
17.5°	506.0	506.6	513.8	527.2	542.4	555.0	561.9	560.0	558.1	558.1	557.2
20°	489.5	490.6	500.3	519.3	543.2	563.3	574.0	567.7	562.5	561.6	560.8
22.5°	469.2	468.3	479.9	503.8	536.9	566.9	581.4	573.7	564.4	562.5	561.1
25°	440.6	441.1	453.2	479.9	520.9	561.1	583.6	579.8	568.8	566.3	563.3
27.5°	409.2	410.6	423.5	450.7	496.1	546.8	581.2	585.8	577.3	574.6	571.8
30°	378.9	379.7	394.3	423.5	465.6	521.5	574.6	592.5	588.0	585.8	583.4
32.5°	346.7	349.5	362.1	395.2	441.4	493.7	564.4	599.3	601.0	599.6	598.2
35°	318.4	320.6	334.9	369.6	418.0	468.9	552.0	606.8	618.0	617.8	617.5
37.5°	292.8	293.3	308.5	343.7	394.9	451.6	539.1	618.9	639.0	641.7	645.0
40°	262.5	265.3	281.0	318.9	372.0	436.7	528.1	635.1	668.1	674.2	678.9
42.5°	238.3	238.3	252.3	290.0	345.1	419.6	524.2	655.5	702.8	711.1	719.3
45°	211.9	212.7	226.2	260.6	314.2	394.9	523.7	678.0	741.6	753.4	763.6
47.5°	186.8	187.4	201.7	235.0	282.3	360.8	516.8	703.1	782.3	799.4	810.7
50°	162.1	161.3	175.0	208.9	254.0	325.5	494.8	735.5	833.0	850.0	862.9
52.5°	131.5	133.7	148.6	180.8	226.2	295.5	449.9	767.5	885.2	904.5	922.1
55°	104.3	104.0	120.8	150.0	196.2	267.2	396.8	790.0	936.1	958.4	978.0
57.5°	74.8	75.7	90.0	118.9	165.1	241.9	356.6	786.2	975.5	1001.9	1026.7
60°	54.2	55.9	66.6	87.8	131.8	212.7	328.6	741.6	1002.5	1038.5	1068.5
62.5°	45.7	47.1	56.4	68.0	101.8	182.2	301.3	670.1	1037.4	1085.0	1128.5
65°	41.3	42.4	51.7	58.3	78.1	154.9	284.3	619.4	1083.4	1155.7	1215.2
67.5°	37.1	38.8	47.1	52.0	66.3	138.4	279.3	611.7	1092.2	1187.9	1272.4
69°	35.2	36.9	44.3	48.7	62.5	133.2	269.9	583.9	1034.7	1137.6	1232.2
70°	34.1	35.5	42.1	46.8	61.4	128.2	256.7	543.2	973.6	1077.3	1179.1
72.5°	31.4	32.2	37.7	42.4	56.4	98.5	194.5	392.4	726.7	829.4	929.3
75°	27.5	28.3	33.3	38.0	43.8	61.1	118.1	232.8	446.1	515.1	615.3
77.5°	23.7	24.5	28.6	35.8	34.7	39.9	72.1	139.2	233.9	268.3	332.4
80°	18.7	19.8	23.9	34.4	28.9	31.6	52.8	102.9	142.3	156.6	173.4
82.5°	13.2	13.8	18.2	27.5	21.7	23.9	39.6	85.6	114.2	124.7	129.6
85°	6.1	6.3	10.7	16.2	12.9	11.6	21.2	54.8	75.7	78.7	83.1
87.5°	0.0	0.0	1.1	1.1	2.2	1.4	2.5	6.9	11.6	11.6	14.0
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):**

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	487.3	487.1	487.3	487.3	487.6	486.5	486.2	486.0	485.7	486.0	485.4
5°	494.8	494.5	494.5	494.8	494.5	493.7	493.4	493.4	492.6	492.3	492.3
7.5°	506.0	505.5	504.7	505.2	505.5	505.2	505.5	504.7	504.7	503.8	504.1
10°	520.1	519.5	519.3	519.8	520.1	519.8	520.1	519.0	518.7	518.4	517.9
12.5°	535.5	534.4	535.2	535.2	535.5	536.6	535.2	535.8	534.7	534.7	534.4
15°	549.0	548.7	549.2	549.2	549.0	549.8	549.5	549.8	548.4	547.9	549.2
17.5°	557.5	556.7	557.0	556.7	556.7	556.7	557.2	557.2	556.4	556.1	556.7
20°	559.7	558.3	558.1	557.8	557.2	557.2	557.5	557.0	556.4	555.9	556.4
22.5°	559.2	557.5	555.9	555.0	554.2	553.1	552.8	552.3	551.5	551.5	551.7
25°	561.1	558.1	555.6	553.9	551.7	550.3	549.2	547.9	546.5	545.7	545.9
27.5°	567.7	564.4	561.1	557.8	554.5	551.7	549.5	547.0	544.8	543.2	542.4
30°	580.1	575.7	571.8	568.0	563.8	560.0	556.4	552.6	548.4	545.9	543.7
32.5°	594.4	591.4	588.9	584.5	580.1	575.4	571.0	567.7	561.6	557.0	553.1
35°	616.1	615.0	613.6	610.3	605.4	602.9	599.3	594.1	586.9	582.8	577.0
37.5°	646.1	646.4	645.3	643.9	644.5	639.8	637.6	637.0	629.9	627.1	618.6
40°	683.0	687.1	690.7	690.7	693.4	693.7	693.2	697.8	692.6	693.7	684.6
42.5°	724.0	733.9	739.4	743.5	752.6	756.7	763.6	773.8	774.3	779.6	780.1
45°	772.4	783.4	793.9	804.6	816.7	831.0	845.3	855.8	872.3	875.9	887.7
47.5°	822.8	838.7	850.8	864.6	885.2	903.7	924.9	946.3	965.3	978.8	986.5
50°	878.4	894.6	912.2	927.6	949.6	975.5	1004.9	1034.4	1058.9	1082.8	1102.1
52.5°	940.0	957.9	974.4	994.5	1016.8	1047.6	1079.8	1120.2	1153.0	1185.7	1209.4
55°	999.2	1019.2	1034.4	1060.0	1083.1	1114.7	1154.6	1202.5	1247.9	1287.5	1319.7
57.5°	1050.6	1070.4	1091.6	1113.6	1141.7	1173.3	1222.3	1276.8	1328.5	1380.6	1428.2
60°	1098.8	1125.5	1148.6	1177.7	1205.8	1242.4	1300.8	1368.2	1438.9	1503.6	1551.2
62.5°	1171.4	1205.5	1232.8	1268.8	1307.9	1351.1	1415.5	1489.8	1582.0	1665.4	1739.4
65°	1273.0	1325.2	1369.3	1413.6	1461.2	1520.6	1590.2	1684.6	1786.4	1909.7	2007.4
67.5°	1345.3	1410.8	1467.8	1523.4	1578.1	1643.9	1730.0	1840.6	1972.5	2102.1	2226.2
69°	1316.2	1385.5	1448.8	1504.1	1561.9	1627.7	1711.6	1832.9	1967.2	2109.8	2232.8
70°	1254.8	1329.6	1397.3	1450.2	1509.3	1574.6	1667.3	1783.1	1920.2	2067.7	2188.2
72.5°	1009.1	1088.0	1154.9	1213.5	1275.4	1351.9	1434.5	1545.7	1697.6	1842.0	1949.3
75°	695.1	768.8	844.5	888.3	959.3	1013.7	1092.2	1206.1	1332.9	1439.2	1538.5
77.5°	393.2	432.9	490.1	508.0	558.9	595.2	636.8	706.9	773.0	834.6	852.5
80°	178.9	167.0	172.8	164.0	173.6	167.6	160.7	164.6	163.7	176.1	164.6
82.5°	128.8	111.2	92.5	79.8	70.2	59.4	50.6	45.4	44.9	47.1	46.2
85°	82.3	75.1	58.9	47.3	36.3	28.1	23.4	21.2	21.2	22.6	22.3
87.5°	14.3	12.4	7.7	6.6	5.8	3.9	2.5	2.5	2.2	2.8	3.6
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):**

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	485.4	485.1	484.6	484.3	484.3	483.8	483.5	484.0	484.3	484.6	483.8
5°	492.3	491.5	491.2	491.5	490.1	490.4	490.1	490.4	490.4	490.4	489.8
7.5°	503.3	502.5	503.0	502.5	501.6	501.4	501.4	500.5	499.4	499.2	499.4
10°	518.4	517.3	517.6	517.9	517.1	516.5	515.7	514.6	514.6	514.3	513.8
12.5°	534.7	534.1	534.1	534.4	534.1	533.0	531.9	531.4	531.1	531.1	531.1
15°	548.7	548.4	548.7	548.4	548.4	547.9	547.3	546.5	546.2	546.5	546.8
17.5°	556.7	555.9	556.7	557.0	556.7	556.7	556.7	556.1	555.9	555.9	556.1
20°	557.2	556.7	557.2	558.1	558.1	558.3	558.9	559.2	558.9	559.4	559.7
22.5°	551.7	551.7	552.6	553.4	554.8	555.3	556.4	557.0	557.5	558.3	558.9
25°	546.2	545.9	546.8	548.4	549.5	550.9	552.3	553.4	554.5	555.6	556.7
27.5°	542.4	542.1	542.6	544.0	545.4	547.0	549.2	550.9	552.3	553.7	554.5
30°	542.6	541.5	541.3	542.4	543.7	545.7	547.9	549.8	551.7	552.8	553.7
32.5°	550.6	547.9	546.8	546.5	547.0	548.4	550.1	552.0	553.4	554.5	554.8
35°	571.3	566.0	564.9	561.4	561.9	561.6	561.6	562.7	563.8	563.8	561.9
37.5°	613.1	605.7	600.4	596.9	593.3	593.0	592.5	591.9	589.1	587.5	587.2
40°	678.3	675.3	665.4	662.6	656.6	652.4	653.5	651.3	644.7	642.3	641.2
42.5°	773.5	775.2	769.7	756.7	751.5	743.5	736.9	735.8	729.8	724.8	721.0
45°	885.2	888.3	884.1	874.8	865.4	853.3	845.3	829.9	823.9	816.2	810.9
47.5°	1000.0	1008.2	1001.6	993.4	988.2	969.2	952.7	934.8	925.7	914.7	909.7
50°	1113.9	1128.5	1124.6	1116.9	1111.2	1087.2	1071.3	1046.5	1041.3	1030.3	1024.2
52.5°	1227.8	1242.1	1250.7	1243.5	1239.4	1220.1	1209.1	1189.3	1174.4	1167.6	1167.3
55°	1342.9	1366.0	1379.5	1377.0	1370.1	1367.6	1356.6	1354.7	1343.1	1335.7	1325.8
57.5°	1455.4	1479.9	1503.3	1517.0	1522.8	1520.9	1526.1	1525.6	1527.2	1526.4	1510.2
60°	1598.5	1637.3	1671.4	1693.2	1713.8	1728.1	1731.7	1752.9	1746.8	1760.0	1734.7
62.5°	1800.5	1850.8	1902.6	1925.4	1950.7	1997.2	2008.2	2033.3	2037.1	2040.4	2026.9
65°	2082.0	2148.0	2226.2	2261.1	2300.7	2360.5	2398.1	2424.8	2424.0	2405.9	2388.5
67.5°	2322.2	2400.4	2472.2	2533.0	2592.1	2638.7	2678.3	2714.3	2716.3	2705.0	2675.3
69°	2342.8	2424.6	2502.7	2575.9	2634.5	2686.3	2726.4	2754.5	2760.6	2750.6	2723.1
70°	2304.6	2387.1	2472.2	2542.3	2608.7	2663.4	2706.6	2733.6	2741.8	2731.7	2705.8
72.5°	2069.3	2149.4	2213.0	2295.5	2389.9	2424.3	2490.9	2512.9	2533.3	2519.8	2504.4
75°	1621.1	1696.5	1762.2	1805.1	1848.4	1933.4	1949.3	1990.6	2004.6	1991.4	2008.5
77.5°	844.5	895.4	917.4	883.0	888.3	955.4	917.4	962.0	987.6	995.0	1005.8
80°	161.5	169.8	176.1	173.9	176.1	181.1	168.4	161.5	170.6	168.7	168.7
82.5°	47.6	46.8	46.8	49.3	49.0	50.1	50.1	48.2	49.5	49.5	49.8
85°	21.7	20.6	20.4	20.6	20.4	20.4	21.2	21.2	22.8	21.5	21.7
87.5°	2.8	2.5	2.8	2.8	2.2	2.2	2.5	2.8	2.8	2.5	2.5
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: P148935

CATALOG NUMBER: TLM-F01-LED-E1-RW

**CANDELA DISTRIBUTION (continued):**

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	483.5	483.2	483.2	483.2	482.9	482.7	482.4	481.6	480.7	480.5	479.1
5°	488.7	489.0	488.4	487.9	487.9	487.9	487.1	484.9	483.2	482.4	480.5
7.5°	499.7	499.2	498.3	498.1	497.5	497.8	496.1	493.4	490.4	488.4	485.4
10°	514.3	513.8	513.2	512.7	511.8	511.8	509.9	505.8	501.1	497.8	492.3
12.5°	531.4	530.8	530.3	530.0	528.6	528.3	525.6	520.6	514.6	508.2	500.3
15°	547.0	546.2	545.9	545.1	544.3	544.0	541.5	534.9	527.5	520.4	509.9
17.5°	557.0	556.4	555.6	555.0	554.8	554.5	550.9	545.4	539.6	532.5	519.8
20°	560.3	560.5	560.0	559.4	558.6	558.1	554.8	549.5	548.4	544.6	531.6
22.5°	559.7	559.7	559.4	558.3	557.8	556.4	551.7	549.2	555.3	557.0	540.4
25°	557.5	557.2	556.4	555.6	553.9	552.0	544.8	546.2	563.3	566.3	542.4
27.5°	555.0	554.8	553.4	551.5	549.0	546.2	537.1	546.2	570.7	568.2	534.4
30°	553.7	552.6	550.6	547.9	544.6	541.5	531.6	553.4	575.9	561.6	512.4
32.5°	553.9	552.0	549.2	545.7	541.8	538.2	531.4	566.0	577.9	545.7	481.3
35°	560.5	557.5	553.9	550.3	546.5	543.2	543.7	583.6	577.6	521.7	451.3
37.5°	584.5	579.2	576.8	572.9	567.4	564.7	575.7	603.2	573.7	492.6	424.9
40°	637.3	632.9	629.3	619.4	621.3	619.1	629.6	629.9	568.8	468.1	402.9
42.5°	714.4	714.4	706.6	705.3	700.0	702.5	707.2	661.2	563.8	453.5	381.1
45°	805.2	812.0	809.0	808.2	812.3	817.3	795.8	698.4	564.1	440.8	355.8
47.5°	913.0	918.8	921.8	926.8	932.0	929.0	884.7	737.5	569.1	422.7	323.3
50°	1027.8	1041.8	1046.2	1052.5	1057.2	1058.0	968.9	777.6	574.3	389.4	288.1
52.5°	1170.0	1183.3	1187.9	1192.3	1188.8	1185.7	1051.4	825.2	570.2	349.7	258.1
55°	1337.4	1339.8	1339.0	1333.5	1330.5	1314.0	1127.9	875.9	538.0	313.1	229.5
57.5°	1511.5	1512.6	1502.7	1483.5	1461.2	1445.5	1201.4	917.7	469.7	283.7	201.2
60°	1735.8	1713.2	1696.5	1667.0	1630.7	1597.1	1280.1	941.1	404.5	255.4	169.2
62.5°	2006.6	1961.4	1925.1	1895.4	1841.7	1782.6	1380.6	944.1	364.9	228.4	132.9
65°	2357.1	2309.5	2247.6	2196.7	2138.7	2058.9	1542.6	922.4	345.3	197.0	97.1
67.5°	2633.1	2585.0	2515.6	2458.7	2383.8	2290.8	1676.9	884.4	340.7	168.7	76.5
69°	2681.3	2628.7	2566.3	2495.0	2415.5	2316.1	1682.1	840.4	333.5	158.0	70.2
70°	2663.7	2608.9	2548.7	2473.0	2383.8	2281.8	1642.5	791.4	319.2	151.9	68.0
72.5°	2466.1	2382.7	2322.2	2257.5	2149.1	2045.7	1414.1	598.8	248.5	128.0	63.6
75°	1974.4	1903.1	1834.9	1802.7	1712.7	1624.9	1061.6	380.3	162.4	79.5	49.8
77.5°	1006.6	993.7	1013.2	998.6	933.7	933.7	655.2	202.0	95.5	47.9	38.0
80°	180.8	188.5	184.9	192.6	179.1	199.0	230.3	135.7	67.7	36.6	31.1
82.5°	50.6	51.2	50.6	50.9	52.6	55.3	119.7	116.7	52.3	27.5	24.2
85°	23.7	23.9	24.5	24.5	26.7	27.2	80.4	83.7	30.5	15.1	16.2
87.5°	2.8	3.6	3.6	3.3	3.9	3.9	14.9	16.8	4.1	3.0	5.0
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: P148935

CATALOG NUMBER: TLM-F01-LED-E1-RW

**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°	180°
0°	483.2	483.2	483.2	483.2
2.5°	478.0	476.9	475.8	476.6
5°	479.6	478.0	476.6	477.4
7.5°	484.0	481.3	481.0	481.0
10°	489.5	485.7	484.6	484.6
12.5°	495.3	490.1	488.2	488.2
15°	501.4	493.9	491.2	490.4
17.5°	508.2	497.8	492.8	492.8
20°	514.9	498.3	490.9	490.6
22.5°	516.0	492.0	481.3	480.7
25°	507.7	477.2	463.1	460.4
27.5°	488.2	454.0	439.2	438.6
30°	458.7	423.8	408.6	407.0
32.5°	429.8	392.7	378.6	378.6
35°	400.7	364.3	346.2	344.2
37.5°	373.7	334.3	318.1	317.8
40°	348.9	308.2	292.5	290.0
42.5°	324.2	280.7	262.8	262.2
45°	294.7	250.7	235.3	233.9
47.5°	263.3	223.7	207.5	207.2
50°	235.0	198.7	182.4	182.4
52.5°	209.1	174.2	158.0	156.3
55°	180.0	146.4	129.9	128.0
57.5°	148.3	115.3	100.4	96.3
60°	114.7	83.9	68.8	66.6
62.5°	83.7	61.4	50.1	48.4
65°	63.0	52.3	42.9	41.3
67.5°	54.2	47.1	39.1	37.4
69°	50.4	44.6	37.4	35.8
70°	48.7	42.9	36.0	34.7
72.5°	44.9	39.4	33.0	32.5
75°	41.0	35.8	29.7	28.9
77.5°	39.6	31.1	25.6	25.0
80°	40.5	25.3	20.9	20.4
82.5°	33.0	20.4	16.2	15.4
85°	20.6	13.8	8.5	8.5
87.5°	5.2	4.4	2.5	2.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)