

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: P150075

Luminaire Tested: **TLM-F01-LED-E1-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P150075  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)  
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-SL2  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL  
Light Source: (7) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

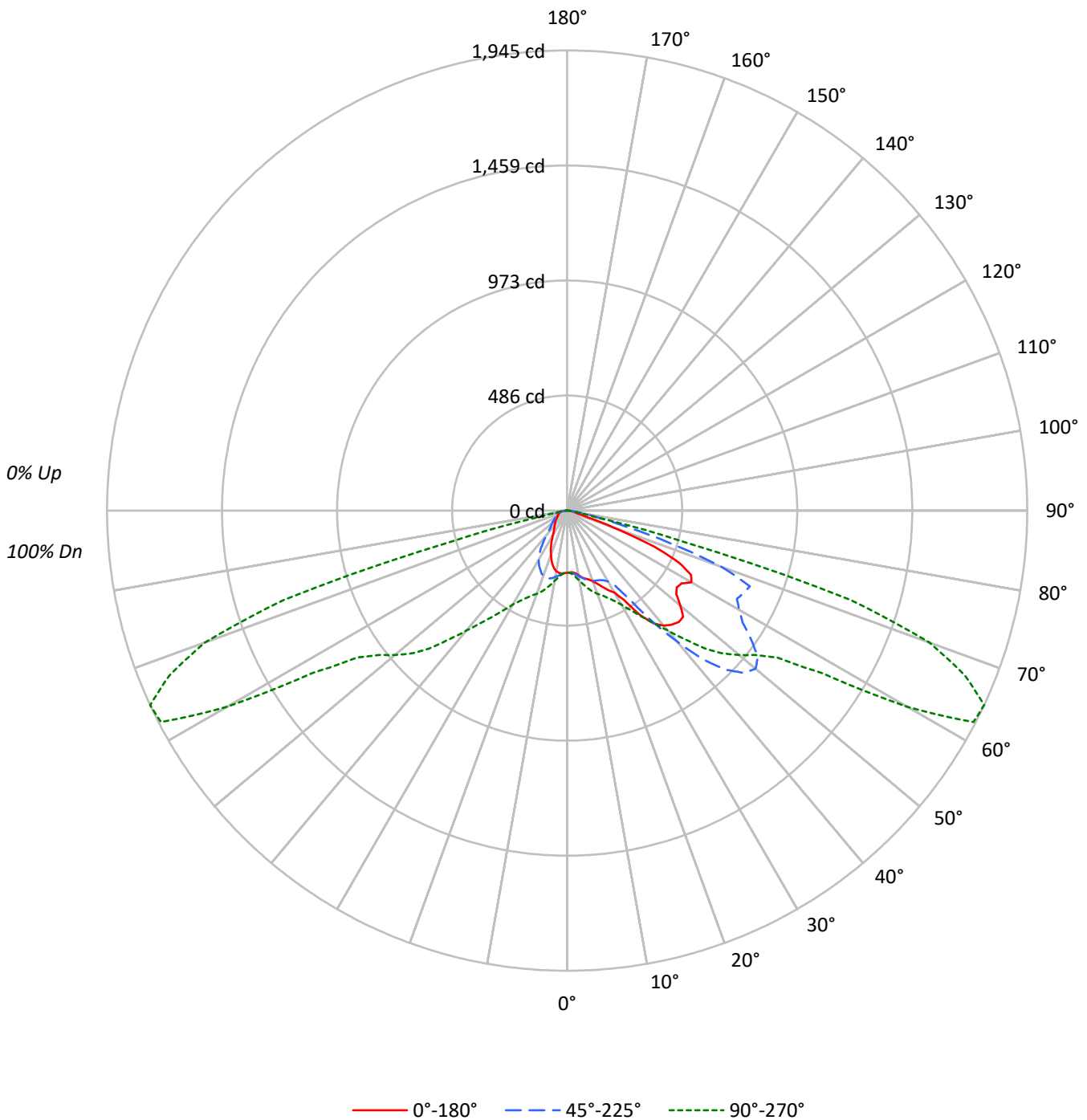
Lumens per Lamp: N/A  
Luminaire Lumens: 2522.1 lumens  
Efficiency: N/A  
Efficacy: 97.4 lumens/watt  
Spacing Criteria (0/90/45): 1.99 / 4.45 / 2.31  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P150075  
CATALOG NUMBER: TLM-F01-LED-E1-SL2

### Luminous Intensity Polar Plot





TEST NUMBER: P150075

CATALOG NUMBER: TLM-F01-LED-E1-SL2

**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	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					100			
1	106	100	94	90	103	98	93	88	93	89	85	89	86	83	85	83	80	78					78			
2	93	83	74	67	90	81	73	66	77	70	64	74	68	63	70	66	61	59					59			
3	82	69	59	51	80	68	58	51	64	56	50	61	54	49	59	53	48	45					45			
4	74	59	48	40	71	57	47	40	55	46	39	52	45	38	50	43	38	35					35			
5	66	51	40	32	64	50	39	32	47	38	31	45	37	31	43	36	30	28					28			
6	60	44	34	26	58	43	33	26	41	32	26	40	32	25	38	31	25	23					23			
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19					19			
8	51	35	25	19	49	34	25	19	33	24	18	32	24	18	30	23	18	16					16			
9	47	32	22	16	46	31	22	16	30	22	16	29	21	16	28	21	16	14					14			
10	44	29	20	14	42	28	20	14	27	19	14	26	19	14	25	19	14	12					12			

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

	0°	90°	180°
0°	16621	16621	16621
5°	16633	17244	16964
10°	17797	19340	16755
15°	19501	22333	15588
20°	21380	25200	13463
25°	24934	28434	11129
30°	29252	33500	8795
35°	41709	42242	7335
40°	52469	54651	6827
45°	59699	73892	6483
50°	61506	93569	6127
55°	62392	119321	5950
60°	76766	209922	5926
65°	78416	291387	6233
70°	37599	301627	7072
75°	10373	124203	8611
80°	8715	17356	8532
85°	5812	10825	9226



TEST NUMBER: P150075

CATALOG NUMBER: TLM-F01-LED-E1-SL2

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.1	1.0
10°-20°	85.3	3.4
20°-30°	147.4	5.8
30°-40°	244.0	9.7
40°-50°	413.8	16.4
50°-60°	549.7	21.8
60°-70°	710.1	28.2
70°-80°	297.8	11.8
80°-90°	47.8	1.9
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°	258.8	10.3
0°-40°	502.8	19.9
0°-60°	1466.3	58.1
0°-90°	2522.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	262	262	262	262	262	
5°	262	266	271	270	267	25
15°	298	301	341	297	238	85
25°	357	324	407	272	159	167
35°	540	450	546	193	95	334
45°	667	952	825	99	72	506
55°	565	948	1081	67	54	524
65°	523	822	1945	53	42	473
75°	42	236	508	56	35	68
85°	8	20	15	17	13	11
90°	0	0	0	0	0	



TEST NUMBER: P150075

CATALOG NUMBER: TLM-F01-LED-E1-SL2

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5
2.5°	261.7	262.5	262.0	262.5	263.1	263.3	263.9	263.6	263.6	263.9	263.3
5°	261.7	261.7	262.5	263.9	264.4	266.1	268.0	267.7	268.0	267.7	268.3
7.5°	267.2	266.9	267.7	269.4	269.9	272.4	275.7	276.3	276.8	276.8	277.7
10°	276.8	276.6	277.4	278.2	279.0	281.0	285.6	287.6	287.8	288.1	289.2
12.5°	288.9	288.7	287.6	287.6	287.3	290.9	297.2	300.8	301.3	302.4	303.2
15°	297.5	296.6	295.0	293.9	295.3	301.0	310.4	314.5	315.1	315.9	318.1
17.5°	305.7	304.9	301.3	298.6	300.5	309.8	322.5	326.9	328.0	328.8	331.3
20°	317.3	316.7	311.5	304.9	304.3	316.5	331.9	337.6	338.5	339.6	342.0
22.5°	334.9	332.4	326.4	314.0	307.9	320.3	338.5	346.4	347.5	348.6	351.9
25°	356.9	355.8	345.3	326.4	313.7	324.2	345.6	355.5	357.2	358.6	363.0
27.5°	379.7	378.1	366.8	342.0	323.9	331.9	356.9	368.2	370.4	372.6	376.7
30°	400.1	399.6	390.2	363.2	340.4	346.4	375.1	388.8	391.3	394.1	397.9
32.5°	448.0	448.3	438.6	411.1	380.3	372.9	401.2	421.8	422.9	426.2	433.1
35°	539.6	540.7	537.1	515.4	480.7	450.2	452.9	473.3	474.4	477.2	483.8
37.5°	601.0	603.2	614.2	621.1	603.5	589.4	554.5	546.5	547.3	545.7	544.3
40°	634.8	638.1	667.0	702.8	722.1	722.3	707.2	672.0	658.5	654.6	638.1
42.5°	654.1	659.6	700.6	761.7	817.0	855.0	864.3	825.2	815.3	797.7	766.1
45°	666.7	673.4	721.8	805.4	886.9	951.6	1000.3	982.9	976.3	965.6	936.4
47.5°	664.5	669.8	720.1	820.3	923.5	1015.4	1101.8	1119.7	1111.7	1109.0	1089.1
50°	624.4	629.0	680.2	783.4	903.4	1039.6	1166.2	1216.8	1216.8	1222.1	1216.0
52.5°	581.4	585.3	631.8	724.5	838.5	1015.9	1202.0	1285.9	1296.9	1306.0	1320.3
55°	565.2	569.9	605.1	684.4	783.1	948.3	1214.1	1337.6	1358.0	1373.4	1405.9
57.5°	572.9	577.6	602.6	662.6	750.7	879.2	1214.6	1407.2	1446.6	1478.2	1544.0
60°	606.2	610.6	631.5	682.7	742.1	839.3	1191.2	1518.1	1580.9	1640.3	1749.8
62.5°	590.8	596.3	626.8	716.0	805.7	809.0	1106.8	1604.0	1705.0	1792.8	1967.0
65°	523.4	529.2	553.1	636.5	809.6	822.2	981.5	1605.6	1731.1	1849.7	2037.7
67.5°	397.4	399.6	418.5	485.4	647.5	836.8	852.8	1415.5	1534.9	1667.3	1861.3
70°	203.1	206.9	212.4	268.0	416.9	691.5	732.8	1043.2	1195.4	1332.1	1565.2
72.5°	70.4	71.8	77.3	102.4	203.1	453.8	641.4	714.9	806.8	934.8	1204.7
75°	42.4	42.4	44.3	51.7	92.7	236.4	570.7	583.9	596.3	639.2	815.9
77.5°	33.6	34.1	34.1	35.5	51.5	121.4	433.4	542.9	544.6	548.7	578.4
80°	23.9	25.0	27.2	28.3	33.3	66.6	243.3	476.6	509.1	524.8	546.5
82.5°	17.9	19.0	23.1	24.5	25.9	37.1	109.2	328.8	388.0	419.4	495.9
85°	8.0	9.4	15.7	17.3	18.2	19.8	51.2	93.6	107.6	120.8	159.3
87.5°	1.4	1.4	2.5	3.6	5.2	5.0	11.3	16.0	16.2	19.0	21.2
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: P150075

CATALOG NUMBER: TLM-F01-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5
2.5°	263.3	263.3	263.3	263.1	263.3	263.3	263.3	263.3	263.6	263.6	263.6
5°	269.1	268.6	268.8	268.8	268.8	268.6	269.1	268.8	269.1	269.9	269.7
7.5°	277.7	278.2	278.5	278.8	278.8	278.8	279.0	279.6	279.6	280.4	280.1
10°	290.3	290.0	290.3	291.1	292.0	292.2	293.1	292.8	293.3	294.4	295.5
12.5°	303.8	304.3	305.2	306.0	307.4	307.6	308.5	308.7	310.4	310.4	311.5
15°	318.9	319.2	320.9	321.1	322.8	323.3	324.7	325.3	327.2	327.5	328.6
17.5°	332.7	333.2	334.1	334.9	336.8	337.6	338.7	339.8	341.5	342.0	344.0
20°	343.7	344.8	345.1	346.7	348.4	349.5	350.6	351.7	353.3	354.2	356.1
22.5°	353.6	354.7	355.5	356.9	358.0	359.7	360.2	362.1	363.8	365.2	366.8
25°	364.3	366.0	366.8	369.3	370.1	371.8	373.1	375.1	377.3	378.9	381.1
27.5°	379.5	381.9	383.0	385.8	387.7	388.5	390.7	393.5	395.4	397.4	399.6
30°	400.4	405.1	405.9	407.8	411.4	411.9	414.7	416.9	419.9	421.8	423.8
32.5°	432.9	438.6	439.2	441.4	444.4	445.5	447.7	450.2	454.9	455.7	458.7
35°	482.7	485.1	487.3	488.2	490.6	492.0	493.7	496.4	501.1	500.5	503.8
37.5°	542.4	543.2	543.5	540.7	541.3	538.8	541.8	542.4	544.0	545.4	548.7
40°	627.7	619.1	618.0	611.4	604.8	601.3	599.9	594.4	595.8	596.3	599.1
42.5°	752.3	735.8	722.1	712.7	696.5	688.5	677.8	669.2	662.6	665.1	666.2
45°	910.3	886.6	864.6	836.0	814.8	799.7	780.7	763.6	755.9	752.3	756.7
47.5°	1068.0	1047.0	1021.2	991.7	958.2	933.1	901.5	873.7	854.4	847.3	851.1
50°	1204.2	1184.9	1165.4	1148.0	1109.0	1081.7	1038.5	1002.5	972.2	956.8	952.7
52.5°	1317.3	1307.1	1296.6	1282.0	1250.7	1223.4	1189.0	1153.5	1113.4	1082.0	1071.3
55°	1418.3	1424.3	1419.1	1419.4	1407.0	1389.6	1360.5	1334.0	1306.0	1270.5	1255.6
57.5°	1565.5	1601.2	1608.4	1626.3	1635.1	1644.4	1652.7	1637.0	1629.9	1603.4	1603.7
60°	1797.4	1849.7	1895.1	1936.4	1970.3	2003.3	2037.9	2053.4	2070.4	2078.4	2105.6
62.5°	2044.3	2094.1	2161.8	2217.1	2248.2	2291.1	2328.8	2353.3	2383.3	2415.2	2456.8
65°	2105.4	2165.4	2208.0	2244.9	2275.7	2298.5	2319.2	2348.3	2373.4	2424.0	2473.0
67.5°	1948.8	1996.7	2035.7	2072.1	2096.0	2115.3	2133.7	2153.0	2195.9	2241.9	2291.1
70°	1672.8	1730.6	1795.2	1842.3	1854.1	1870.6	1888.3	1913.3	1934.8	1982.9	2020.3
72.5°	1344.0	1427.1	1481.8	1547.0	1561.1	1586.1	1596.0	1615.6	1619.4	1645.5	1655.5
75°	936.7	1031.9	1086.9	1134.8	1144.2	1130.4	1135.9	1066.9	1049.2	1034.9	1023.4
77.5°	618.3	643.9	652.7	645.0	608.1	579.2	548.4	518.2	521.5	497.0	454.0
80°	549.8	555.6	547.6	539.9	518.7	488.4	460.6	432.3	418.3	403.4	381.4
82.5°	534.9	557.2	559.7	550.3	533.6	500.5	467.0	424.9	389.1	356.1	322.5
85°	178.9	217.7	235.0	251.2	256.2	262.0	242.2	215.2	182.7	161.0	126.0
87.5°	22.8	28.3	32.7	28.1	32.7	38.5	27.8	31.1	31.4	19.5	14.6
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: P150075

CATALOG NUMBER: TLM-F01-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5
2.5°	263.9	263.6	263.6	263.6	263.3	263.6	263.6	263.6	263.6	263.6	263.3
5°	269.9	269.9	270.8	271.0	270.5	270.2	270.5	270.8	270.8	270.5	270.8
7.5°	281.2	281.5	282.1	282.9	282.3	282.6	282.9	282.6	283.4	283.7	283.4
10°	295.5	296.1	297.5	297.7	297.5	298.6	298.8	298.3	298.8	298.8	299.9
12.5°	312.0	312.6	314.2	314.8	315.4	315.6	316.5	316.7	317.6	318.1	318.9
15°	329.9	330.5	331.6	333.5	334.1	334.6	335.2	336.8	337.1	338.2	339.0
17.5°	345.1	345.9	347.5	348.9	349.7	351.1	351.7	353.6	354.2	355.8	357.2
20°	357.2	358.6	359.9	361.6	363.0	364.6	365.2	367.1	368.2	369.0	370.7
22.5°	368.2	369.8	371.8	373.7	374.8	377.0	377.8	378.6	381.1	382.2	383.9
25°	382.5	384.1	386.3	388.8	389.9	392.7	393.5	394.9	397.6	398.7	401.2
27.5°	402.0	404.2	405.9	408.4	409.7	411.7	413.6	415.2	417.7	419.4	422.1
30°	426.5	428.2	430.9	432.9	435.1	437.8	440.0	441.7	443.0	445.5	448.5
32.5°	462.6	462.8	463.7	468.3	470.5	472.8	475.8	477.2	479.4	481.8	485.1
35°	507.4	509.9	511.8	514.0	516.5	519.0	520.1	524.2	526.1	529.4	532.7
37.5°	552.0	552.3	556.7	558.1	560.3	562.7	566.6	570.7	575.7	579.0	584.2
40°	599.9	602.1	607.6	610.3	613.1	619.1	622.2	628.8	637.0	641.7	650.5
42.5°	669.2	672.5	682.4	686.8	693.4	703.3	709.7	718.8	722.1	733.3	737.5
45°	760.0	770.2	784.5	793.9	805.7	816.4	821.9	826.1	831.0	839.8	838.7
47.5°	858.3	871.5	887.4	906.7	914.4	927.1	934.2	942.2	937.8	935.6	933.4
50°	959.0	974.4	995.6	1012.9	1024.8	1032.5	1038.5	1037.4	1028.1	1023.1	1009.3
52.5°	1071.0	1080.1	1100.1	1115.0	1122.2	1123.8	1122.4	1114.2	1105.4	1089.7	1073.5
55°	1242.7	1238.6	1246.5	1253.4	1251.2	1258.9	1239.1	1231.4	1209.7	1189.3	1167.6
57.5°	1591.6	1597.1	1552.5	1532.4	1528.9	1536.0	1501.1	1496.7	1444.1	1437.5	1400.9
60°	2101.8	2128.8	2093.8	2074.3	2021.4	2004.1	1965.0	1948.8	1898.4	1857.7	1806.2
62.5°	2485.4	2509.9	2524.5	2496.7	2465.8	2420.4	2361.3	2295.8	2242.4	2179.9	2125.5
65°	2520.1	2569.6	2603.2	2616.1	2594.3	2544.5	2471.6	2389.1	2307.3	2228.9	2160.1
67.5°	2358.0	2402.3	2454.3	2500.8	2503.5	2471.1	2408.9	2325.0	2230.6	2133.7	2053.1
70°	2079.5	2135.1	2180.5	2229.5	2263.6	2244.9	2213.8	2136.7	2038.8	1963.4	1870.6
72.5°	1691.2	1714.6	1725.6	1773.8	1774.3	1740.2	1718.2	1675.5	1596.6	1543.2	1472.5
75°	987.6	936.1	881.4	833.8	795.0	778.7	706.6	694.5	646.1	616.1	572.1
77.5°	407.3	361.3	302.1	252.9	204.2	182.2	150.2	136.2	118.1	110.1	104.8
80°	349.2	305.7	261.1	218.5	180.5	142.5	110.9	86.1	67.7	57.5	53.4
82.5°	285.1	258.9	227.8	204.7	175.0	146.7	123.8	96.0	71.8	52.8	40.5
85°	102.9	84.5	68.0	62.5	49.8	41.0	34.4	29.4	24.2	19.3	17.1
87.5°	11.6	11.0	6.3	6.1	6.9	5.0	5.8	5.2	4.4	3.9	4.1
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: P150075

CATALOG NUMBER: TLM-F01-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5	262.5
2.5°	263.3	263.3	263.6	263.6	263.9	264.2	264.7	264.4	264.4	264.7	264.7
5°	270.8	271.6	271.3	271.3	271.3	271.6	271.9	270.8	269.7	268.6	268.0
7.5°	283.7	284.3	284.8	284.3	284.8	284.5	284.0	281.0	277.4	273.0	269.9
10°	300.5	300.5	301.0	300.8	301.9	301.0	299.4	292.5	284.8	275.5	268.6
12.5°	318.7	320.6	319.8	320.0	322.2	320.0	316.2	306.0	292.2	277.1	265.0
15°	340.1	340.9	341.5	340.7	342.0	340.1	333.2	317.0	296.9	275.7	257.8
17.5°	357.7	358.0	358.3	358.8	360.8	358.6	346.7	324.7	298.0	269.4	245.7
20°	371.5	372.9	374.0	374.0	376.7	373.4	357.7	328.6	294.4	258.9	230.3
22.5°	385.8	386.9	388.3	388.5	392.1	388.8	366.8	327.7	285.1	244.1	212.4
25°	403.4	404.5	405.6	407.0	411.9	407.3	375.9	324.4	272.1	226.5	193.2
27.5°	423.8	426.2	427.1	429.3	435.1	427.9	383.6	319.5	257.8	206.1	172.8
30°	451.0	454.0	455.1	458.2	466.1	450.5	388.0	310.9	239.7	185.5	151.1
32.5°	487.6	491.7	495.0	498.3	507.4	473.0	388.5	298.6	218.5	162.4	130.2
35°	535.5	541.8	544.3	546.5	555.0	497.5	386.1	280.1	192.6	138.7	113.6
37.5°	589.1	595.5	597.1	598.2	599.9	518.4	380.0	252.1	163.5	118.1	100.4
40°	655.2	660.7	662.9	661.2	652.4	534.7	366.5	219.3	135.1	104.0	92.2
42.5°	735.8	744.1	744.9	737.5	708.3	543.7	339.6	180.8	112.8	93.8	85.9
45°	835.7	835.2	830.5	825.2	769.1	540.2	301.9	147.2	98.8	85.9	80.1
47.5°	925.4	916.1	908.9	893.5	822.8	519.3	253.2	121.9	90.3	79.8	75.1
50°	998.9	981.8	966.7	949.9	862.7	482.1	204.7	103.5	82.3	74.6	70.4
52.5°	1056.9	1036.3	1018.7	1002.2	901.2	440.8	167.9	90.0	74.6	69.3	65.2
55°	1147.8	1127.1	1099.0	1080.9	960.1	402.9	143.9	79.3	67.1	63.8	59.7
57.5°	1377.5	1359.4	1325.8	1278.7	1111.4	388.5	130.4	71.0	61.1	59.2	55.9
60°	1778.7	1749.3	1705.5	1657.7	1419.1	398.2	119.7	65.2	57.0	55.3	52.8
62.5°	2081.4	2029.7	1980.2	1935.9	1665.1	397.9	105.7	60.8	53.9	53.1	50.6
65°	2093.8	2041.2	1991.4	1944.9	1670.6	354.2	89.2	57.0	53.4	53.1	49.0
67.5°	1982.6	1925.7	1877.5	1818.9	1546.5	276.8	71.5	54.5	55.6	55.0	48.4
70°	1801.0	1726.7	1687.1	1629.3	1361.0	193.7	58.9	55.3	60.3	58.6	49.3
72.5°	1413.6	1357.4	1297.2	1257.0	1065.5	122.5	49.5	55.9	62.2	59.4	51.5
75°	526.1	541.3	516.5	507.7	541.3	71.8	44.0	52.0	55.6	51.5	46.8
77.5°	106.2	101.5	96.3	95.2	123.0	44.3	40.5	45.1	42.7	37.7	38.0
80°	50.9	49.5	47.9	47.6	45.7	36.9	37.4	38.5	32.2	29.2	31.1
82.5°	33.8	31.9	31.4	30.3	30.8	33.0	35.5	33.0	24.8	23.1	28.1
85°	15.7	15.1	14.9	14.9	16.5	29.7	29.4	24.2	17.1	16.5	28.1
87.5°	3.9	3.9	4.1	3.9	4.4	8.8	7.7	7.4	6.3	7.2	13.2
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: P150075

CATALOG NUMBER: TLM-F01-LED-E1-SL2

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	262.5	262.5	262.5
2.5°	264.4	264.7	264.4
5°	266.9	266.9	266.9
7.5°	266.9	266.1	265.8
10°	263.1	260.6	260.6
12.5°	256.5	252.3	251.8
15°	244.1	238.6	237.8
17.5°	228.4	221.0	219.6
20°	210.8	201.4	199.8
22.5°	191.5	180.8	180.0
25°	172.5	161.5	159.3
27.5°	151.3	140.6	139.5
30°	130.2	120.8	120.3
32.5°	112.3	106.5	105.4
35°	99.6	96.3	94.9
37.5°	91.4	88.9	88.6
40°	85.0	82.8	82.6
42.5°	79.8	77.9	77.6
45°	74.6	72.9	72.4
47.5°	69.3	67.7	67.4
50°	64.7	62.5	62.2
52.5°	60.3	58.1	57.5
55°	56.1	53.9	53.9
57.5°	52.6	50.4	50.1
60°	49.3	47.1	46.8
62.5°	46.8	44.0	43.8
65°	44.9	42.1	41.6
67.5°	43.8	40.5	39.6
70°	45.7	39.6	38.2
72.5°	46.0	38.8	36.9
75°	44.3	36.6	35.2
77.5°	38.8	32.7	31.4
80°	33.6	25.3	23.4
82.5°	31.9	20.6	17.9
85°	24.8	13.5	12.7
87.5°	14.0	7.4	6.1
90°	0.0	0.0	0.0

(END OF REPORT)