

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: P151216

Luminaire Tested: **TLM-F01-LED-E1-SL3-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P151216  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33679)  
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-SL3-7050  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (7) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

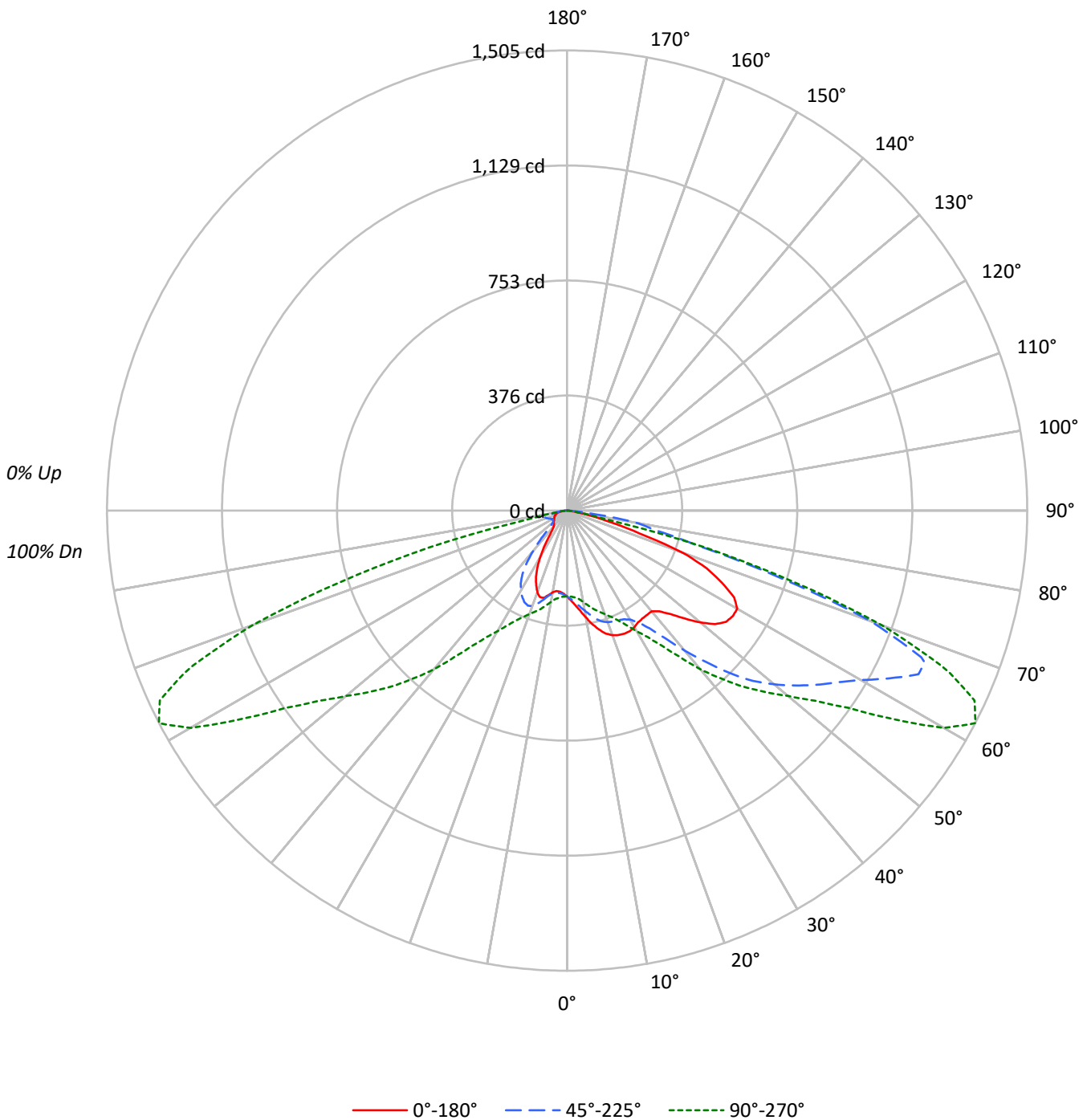
Lumens per Lamp: N/A  
Luminaire Lumens: 2571.9 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 3.92 / 2.51  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

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	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	100	94	89	103	97	92	88	93	89	85	89	85	82	85	82	80	77				
2	93	82	74	66	90	80	72	65	77	70	64	73	67	62	70	65	61	58				
3	82	69	59	50	79	67	58	50	64	56	49	61	54	48	58	52	47	44				
4	73	59	48	39	71	57	47	39	54	46	38	52	44	38	49	43	37	35				
5	66	51	40	32	64	49	39	31	47	38	31	45	37	31	43	36	30	28				
6	60	44	34	26	58	43	33	26	41	32	26	39	31	25	38	31	25	23				
7	55	39	29	22	53	38	29	22	37	28	22	35	27	21	34	27	21	19				
8	51	35	25	19	49	35	25	19	33	25	18	32	24	18	30	23	18	16				
9	47	32	23	16	46	31	22	16	30	22	16	29	21	16	28	21	16	14				
10	44	29	20	14	43	29	20	14	28	20	14	27	19	14	26	19	14	12				

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

	0°	90°	180°
0°	17786	17786	17786
5°	19760	18127	16938
10°	22837	19462	17462
15°	26410	21822	19377
20°	29223	24297	19177
25°	31012	27694	16809
30°	32184	33259	12817
35°	33260	41663	7815
40°	35517	55965	5695
45°	42909	72943	5489
50°	56049	92899	5536
55°	70009	124145	5740
60°	81350	179998	6116
65°	83675	220192	6817
70°	74495	202658	7535
75°	35791	114540	8783
80°	12361	15861	8970
85°	5521	9880	9008



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.0	1.1
10°-20°	95.9	3.7
20°-30°	169.4	6.6
30°-40°	243.1	9.5
40°-50°	369.2	14.4
50°-60°	543.6	21.1
60°-70°	722.4	28.1
70°-80°	353.4	13.7
80°-90°	46.9	1.8
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°	293.2	11.4
0°-40°	536.3	20.9
0°-60°	1449.1	56.3
0°-90°	2571.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	281	281	281	281	281	
5°	311	302	285	271	266	31
15°	403	367	333	302	296	114
25°	444	396	396	331	241	204
35°	430	470	539	255	101	271
45°	479	751	815	92	61	379
55°	634	994	1125	56	52	560
65°	558	1268	1470	62	46	542
75°	146	436	468	72	36	182
85°	8	24	14	17	12	11
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	294.2	294.5	293.9	293.7	292.0	290.3	289.1	287.7	287.7	287.7	287.2
5°	310.9	309.7	310.6	308.6	305.2	302.1	299.0	296.5	295.9	295.9	294.8
7.5°	330.9	329.5	328.9	326.1	321.0	316.5	310.3	307.8	306.4	305.8	305.2
10°	355.2	355.2	351.5	346.7	340.0	332.1	325.3	320.8	320.5	320.5	317.9
12.5°	380.1	380.6	375.8	371.0	360.0	349.6	341.7	336.6	336.3	335.2	333.7
15°	402.9	401.5	398.4	391.3	379.2	366.8	356.9	351.8	350.7	349.6	348.7
17.5°	421.8	420.4	416.5	407.4	394.7	380.1	367.9	362.5	362.0	361.4	360.3
20°	433.7	432.6	426.9	416.5	403.2	388.2	375.3	371.6	370.5	370.5	369.9
22.5°	440.5	438.8	430.6	416.8	403.8	392.8	382.0	379.8	378.9	379.2	379.2
25°	443.9	442.5	430.9	411.1	398.7	395.6	391.1	389.7	389.9	390.2	390.8
27.5°	444.4	442.5	428.9	403.8	392.2	400.9	404.1	406.3	406.3	407.4	409.4
30°	440.2	437.9	424.9	398.1	389.4	411.7	424.1	430.0	432.3	431.7	436.2
32.5°	432.9	431.4	421.0	398.1	397.3	432.9	454.9	463.4	464.5	465.0	470.1
35°	430.3	430.0	425.5	411.7	421.8	470.1	503.7	510.2	511.6	511.6	515.3
37.5°	429.7	431.2	436.2	437.1	465.0	525.5	569.5	579.4	579.4	582.2	582.2
40°	429.7	432.9	452.1	474.9	517.8	597.5	658.5	669.8	669.8	672.9	671.2
42.5°	446.4	450.9	482.6	526.0	584.5	671.7	741.8	754.5	755.3	754.5	757.0
45°	479.2	483.1	521.5	583.9	653.1	751.4	821.4	836.6	833.5	835.5	836.3
47.5°	522.6	528.9	572.6	647.2	720.0	825.1	910.6	924.4	923.3	924.2	920.5
50°	569.0	575.4	624.3	709.8	786.7	884.3	982.3	1002.9	1001.0	1002.4	1004.3
52.5°	609.9	613.8	661.0	757.0	837.2	939.7	1037.4	1063.1	1067.6	1068.2	1069.6
55°	634.2	639.0	682.2	780.4	873.9	993.9	1100.4	1139.3	1148.1	1150.3	1156.5
57.5°	642.6	647.7	687.0	783.8	893.9	1044.7	1188.2	1256.8	1264.1	1276.3	1296.0
60°	642.4	647.7	681.9	776.2	914.3	1107.7	1324.8	1439.7	1477.0	1489.4	1517.7
62.5°	616.1	622.3	657.0	753.1	940.3	1188.2	1528.1	1704.9	1752.9	1775.5	1806.0
65°	558.5	563.0	595.5	694.3	932.9	1267.5	1698.1	1918.6	1962.4	1995.4	2049.9
67°	507.4	510.2	535.6	624.9	861.2	1270.3	1751.8	1971.7	2009.8	2044.8	2101.0
67.5°	494.4	500.3	520.1	603.7	834.4	1254.2	1748.1	1963.5	2002.5	2038.9	2098.2
70°	402.4	410.8	420.7	476.9	655.9	1055.2	1618.5	1821.8	1855.9	1889.8	1972.6
72.5°	248.2	263.4	265.4	301.0	426.9	729.3	1309.6	1536.3	1562.0	1586.3	1671.0
75°	146.3	148.5	155.6	184.4	250.5	436.0	878.7	1141.3	1165.0	1176.9	1243.2
77.5°	81.6	83.9	89.8	114.6	192.6	293.7	511.6	670.6	685.0	700.0	689.2
80°	33.9	37.0	39.8	46.3	90.1	231.8	351.8	426.4	435.7	444.4	455.4
82.5°	16.4	17.5	21.5	24.6	32.8	95.2	275.9	369.6	380.6	393.3	419.0
85°	7.6	8.5	11.9	14.1	15.8	24.0	92.3	179.9	195.1	197.9	203.0
87.5°	0.6	0.6	1.4	2.0	2.8	3.1	9.6	13.6	15.2	13.8	17.5
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	286.9	286.6	286.0	286.0	285.7	285.7	285.7	285.2	285.2	285.2	284.9
5°	294.5	294.2	293.4	293.4	292.8	292.8	292.0	291.7	291.1	291.1	290.8
7.5°	304.4	304.1	303.0	303.0	302.1	301.8	301.3	300.4	300.4	299.9	299.3
10°	317.9	317.1	316.8	315.4	315.7	315.1	314.5	313.7	313.1	312.6	312.0
12.5°	333.2	333.2	331.8	330.9	331.5	330.9	329.8	329.5	328.7	328.7	327.8
15°	347.6	347.6	347.0	345.9	346.2	345.3	345.0	344.5	343.3	343.6	343.3
17.5°	360.0	360.0	359.2	358.6	358.6	357.7	358.0	357.5	356.9	356.6	355.8
20°	369.9	369.9	369.3	368.8	369.0	369.0	368.2	368.2	368.2	367.6	367.6
22.5°	379.5	379.8	379.8	379.8	380.1	380.3	380.1	380.6	380.3	380.9	380.9
25°	392.2	393.0	393.6	393.6	395.0	395.3	395.6	396.4	396.4	397.3	397.6
27.5°	411.1	411.7	413.9	414.5	414.8	417.0	417.3	418.5	419.6	419.9	420.1
30°	437.1	438.5	440.2	441.3	441.3	444.1	445.3	444.7	447.8	448.7	449.8
32.5°	471.8	473.0	474.6	475.8	476.9	478.3	478.6	480.0	482.6	484.8	483.4
35°	515.6	518.4	515.6	518.7	519.5	521.5	521.0	522.6	523.8	524.6	524.3
37.5°	579.1	577.7	577.1	576.0	574.0	580.8	577.4	577.1	575.4	580.2	577.1
40°	662.7	663.5	664.4	659.9	657.3	657.3	656.5	653.4	652.0	656.2	655.6
42.5°	749.9	750.8	746.8	744.0	737.5	736.7	732.7	731.9	730.5	732.7	730.5
45°	829.3	829.9	821.1	822.5	817.4	818.3	812.1	814.6	811.2	813.5	817.7
47.5°	917.9	919.1	911.5	914.6	909.5	906.4	906.1	907.8	904.1	906.4	907.5
50°	998.4	997.0	993.1	993.9	991.6	992.2	988.8	991.9	987.7	992.2	991.6
52.5°	1069.9	1068.2	1067.3	1070.1	1068.2	1068.2	1066.2	1067.6	1068.2	1074.9	1076.4
55°	1156.5	1158.0	1159.4	1164.4	1166.7	1163.0	1166.7	1173.8	1174.0	1190.1	1198.9
57.5°	1295.7	1305.6	1310.7	1313.8	1327.1	1325.7	1334.1	1351.1	1352.8	1390.1	1411.8
60°	1538.6	1556.1	1572.7	1563.7	1590.5	1598.7	1603.8	1635.4	1645.3	1680.6	1699.5
62.5°	1845.2	1847.2	1873.2	1865.0	1880.2	1876.6	1882.8	1897.2	1910.2	1939.2	1957.0
65°	2059.2	2068.6	2078.7	2068.3	2068.0	2055.6	2047.7	2047.4	2055.3	2061.5	2081.3
67°	2117.4	2126.7	2129.3	2121.6	2110.6	2094.8	2080.1	2072.5	2067.4	2070.3	2082.7
67.5°	2116.8	2125.6	2128.7	2121.4	2106.1	2092.8	2077.3	2068.6	2061.8	2063.2	2073.6
70°	1996.6	2015.5	2025.6	2027.9	2025.9	2002.8	1989.5	1981.6	1975.9	1962.1	1961.3
72.5°	1691.6	1714.5	1722.4	1735.1	1740.7	1706.6	1692.2	1700.9	1681.2	1637.4	1639.4
75°	1242.1	1243.8	1217.2	1212.2	1193.2	1115.9	1092.7	1071.6	1037.7	984.9	935.2
77.5°	647.4	647.2	616.7	601.1	578.6	532.0	529.7	491.9	465.3	417.0	399.5
80°	460.0	467.3	477.5	482.6	474.6	456.6	431.7	404.9	374.1	343.9	307.8
82.5°	427.8	432.3	437.7	417.9	406.9	381.5	362.5	323.6	301.8	267.4	231.0
85°	208.1	221.9	211.2	198.8	194.5	152.2	147.1	122.8	111.5	91.8	85.6
87.5°	13.3	16.4	14.7	13.3	11.6	6.5	8.8	6.2	6.5	4.8	4.2
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	284.9	284.6	284.3	284.1	283.8	283.8	283.5	283.2	282.9	282.4	282.4
5°	290.3	290.3	290.0	289.4	289.4	288.9	288.0	287.7	287.7	287.2	286.6
7.5°	299.0	298.7	298.2	297.9	297.3	296.8	296.2	295.6	295.3	294.5	294.2
10°	312.3	311.7	310.3	309.7	309.5	308.9	308.3	307.8	306.9	306.4	306.1
12.5°	327.3	327.0	325.8	326.4	325.0	324.4	323.9	322.5	323.0	321.9	321.3
15°	342.2	342.5	341.9	341.9	340.8	340.0	339.4	338.3	338.0	337.4	336.9
17.5°	355.5	356.1	355.2	354.6	354.1	353.5	352.4	351.3	351.3	350.1	349.6
20°	367.6	368.2	367.9	367.3	366.5	366.2	365.7	364.8	364.8	364.2	363.4
22.5°	381.5	381.7	381.7	381.5	380.6	380.9	380.3	379.5	379.8	378.6	378.6
25°	398.1	398.7	399.3	399.5	399.0	399.3	398.7	398.1	397.8	398.1	397.8
27.5°	421.0	421.6	423.3	421.8	423.3	423.5	422.7	421.6	422.4	423.8	423.0
30°	451.2	450.6	452.9	453.2	452.9	453.2	452.6	451.8	452.3	454.9	453.5
32.5°	485.1	486.2	486.8	487.4	488.2	489.3	488.5	487.6	489.0	488.2	490.2
35°	526.0	528.6	529.4	528.6	529.1	531.1	530.8	531.1	533.9	531.1	534.8
37.5°	577.7	580.2	582.2	581.1	582.5	582.5	584.8	591.0	587.0	592.1	596.1
40°	652.8	656.8	657.0	656.8	658.2	659.9	662.1	668.9	664.4	669.8	673.4
42.5°	730.2	735.0	736.7	733.8	737.0	740.6	740.9	746.8	747.1	748.0	749.9
45°	817.4	821.7	825.1	823.6	823.9	828.7	827.6	833.2	829.0	829.0	830.1
47.5°	910.3	914.3	916.5	918.8	916.0	920.2	922.2	921.1	916.0	914.8	908.1
50°	995.0	998.4	1001.8	1008.0	1007.7	1009.7	1011.1	1006.0	1004.9	998.7	991.1
52.5°	1084.8	1093.6	1101.2	1114.2	1116.2	1122.9	1120.4	1111.9	1110.5	1100.4	1090.2
55°	1209.9	1235.0	1246.0	1266.1	1279.6	1279.4	1273.7	1272.3	1261.6	1241.2	1229.1
57.5°	1427.6	1466.9	1485.8	1511.7	1516.0	1513.4	1506.1	1493.1	1474.5	1440.3	1418.3
60°	1741.9	1766.2	1788.2	1794.4	1797.5	1792.7	1767.0	1738.2	1701.8	1654.6	1615.4
62.5°	1979.3	2004.2	2020.6	2018.0	1998.5	1974.0	1936.4	1888.1	1837.0	1784.2	1725.5
65°	2100.2	2110.6	2108.1	2088.3	2055.0	2012.1	1957.3	1897.7	1837.6	1775.2	1714.2
67°	2093.7	2094.0	2076.7	2038.3	1995.7	1941.8	1874.9	1809.9	1739.3	1673.8	1601.3
67.5°	2082.1	2081.0	2057.0	2014.9	1968.9	1913.3	1843.8	1776.6	1703.5	1637.4	1562.3
70°	1951.1	1935.3	1881.1	1813.9	1749.8	1674.7	1601.8	1524.7	1442.3	1385.5	1299.1
72.5°	1603.2	1549.9	1456.4	1386.1	1317.5	1219.2	1173.8	1078.0	1020.2	984.0	918.8
75°	928.4	883.8	811.5	745.7	712.4	654.2	626.6	556.2	541.6	541.0	518.4
77.5°	354.4	309.2	262.6	211.5	179.9	142.9	125.9	112.7	102.5	109.6	99.4
80°	265.7	218.5	170.8	124.2	88.7	65.5	56.2	52.0	49.4	47.4	46.0
82.5°	197.9	156.1	121.1	79.1	55.3	41.8	36.1	33.9	32.8	30.8	29.1
85°	66.9	53.6	42.4	29.4	23.2	18.9	17.5	16.9	16.1	14.7	13.8
87.5°	3.7	3.4	3.7	2.8	3.4	2.8	3.1	3.1	3.1	2.8	2.8
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: P151216

CATALOG NUMBER: TLM-F01-LED-E1-SL3-7050

**CANDELA DISTRIBUTION (continued):**

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9	280.9
2.5°	282.1	282.1	282.1	281.5	280.7	279.0	277.3	275.9	274.5	273.6	273.0
5°	286.3	285.7	285.5	285.2	283.2	279.8	276.7	273.9	271.1	268.8	268.0
7.5°	293.9	292.8	292.5	291.7	289.1	284.1	279.5	275.0	271.1	268.0	266.5
10°	305.5	305.5	303.8	302.7	299.9	293.1	286.6	280.7	275.3	271.9	271.1
12.5°	320.2	320.2	318.8	317.9	314.5	305.8	297.9	290.8	285.7	282.4	282.1
15°	335.4	335.2	334.0	332.9	329.2	319.9	312.0	305.8	301.6	297.6	296.5
17.5°	349.0	349.0	347.6	346.5	342.8	334.9	327.8	323.3	318.5	310.3	304.1
20°	362.5	362.8	361.7	360.6	357.5	350.7	347.6	343.1	332.3	314.5	299.9
22.5°	377.5	378.6	377.2	376.1	373.6	370.7	369.6	358.9	336.3	307.8	286.3
25°	396.7	398.7	397.0	396.4	395.0	395.9	392.5	367.6	330.6	293.1	266.3
27.5°	423.0	423.0	423.3	423.3	422.7	425.8	413.4	367.9	318.2	274.2	242.3
30°	453.8	455.4	454.9	454.9	457.1	459.1	424.9	361.7	302.4	250.7	212.9
32.5°	490.7	492.2	492.7	490.2	499.2	489.0	429.2	350.4	282.9	221.7	177.9
35°	535.4	537.3	538.7	539.0	545.0	515.0	426.9	333.7	255.0	185.2	139.5
37.5°	593.5	597.5	600.6	602.0	602.3	537.0	420.7	311.7	218.5	144.6	103.9
40°	670.9	675.1	674.3	677.1	661.0	550.0	406.6	279.8	173.4	106.2	80.2
42.5°	745.4	746.0	747.1	744.6	711.8	556.8	386.8	240.9	129.9	79.3	68.6
45°	828.7	823.9	818.6	814.6	758.7	559.4	359.7	193.4	91.8	66.6	63.5
47.5°	906.9	900.4	889.4	878.1	800.5	555.4	325.0	144.8	69.7	61.0	60.1
50°	983.7	971.6	956.1	943.1	840.6	549.5	286.6	104.5	61.0	58.2	57.3
52.5°	1078.9	1058.6	1038.2	1021.3	892.8	540.2	246.2	79.3	57.3	55.9	54.8
55°	1209.3	1181.1	1148.4	1124.6	963.7	526.0	203.9	67.2	55.6	54.5	52.8
57.5°	1390.1	1347.7	1310.7	1272.0	1060.5	511.6	167.4	62.4	55.3	53.6	51.4
60°	1574.7	1523.9	1476.7	1421.4	1159.4	497.2	142.0	61.8	56.2	53.6	50.3
62.5°	1670.7	1618.2	1561.4	1505.3	1202.0	463.4	124.5	62.7	58.2	54.5	50.3
65°	1648.7	1584.6	1527.0	1469.7	1152.6	399.3	105.3	63.8	62.1	57.9	51.1
67°	1538.0	1471.1	1415.7	1361.0	1042.5	334.3	90.4	64.9	66.4	61.8	52.8
67.5°	1499.0	1432.1	1377.6	1324.3	1010.0	320.8	86.7	65.5	67.2	63.0	53.4
70°	1242.9	1193.8	1135.9	1094.7	817.7	237.5	71.2	66.6	72.3	69.5	55.9
72.5°	894.5	847.6	804.2	781.3	602.3	166.0	59.9	65.5	75.4	73.1	57.0
75°	475.5	472.7	456.9	468.2	372.7	108.4	52.8	61.3	72.0	66.9	53.1
77.5°	96.0	98.8	116.0	114.4	120.3	60.4	45.2	52.5	55.6	49.1	43.2
80°	44.6	43.8	42.9	43.5	42.6	38.7	36.7	41.2	38.7	31.6	28.8
82.5°	27.7	27.1	26.3	26.0	28.8	30.8	32.2	32.5	25.7	22.0	21.2
85°	13.3	13.3	13.0	13.6	16.9	25.1	27.1	24.0	17.2	15.8	15.0
87.5°	2.5	2.5	2.8	2.5	3.4	5.9	6.8	7.9	6.5	6.8	7.6
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: P151216

CATALOG NUMBER: TLM-F01-LED-E1-SL3-7050

**CANDELA DISTRIBUTION (continued):**

	165°	175°	180°
0°	280.9	280.9	280.9
2.5°	272.5	271.9	271.9
5°	266.8	266.5	266.5
7.5°	265.4	265.7	265.4
10°	270.8	270.5	271.6
12.5°	282.6	283.5	283.2
15°	295.1	295.6	295.6
17.5°	298.7	296.8	296.5
20°	289.1	285.5	284.6
22.5°	271.1	264.3	264.6
25°	248.2	240.0	240.6
27.5°	221.7	212.9	212.6
30°	189.7	180.1	175.3
32.5°	151.3	139.8	139.8
35°	113.8	104.5	101.1
37.5°	86.4	81.0	79.3
40°	72.0	69.5	68.9
42.5°	65.5	64.7	64.4
45°	62.1	61.6	61.3
47.5°	59.0	58.7	58.4
50°	56.8	56.5	56.2
52.5°	54.8	54.2	53.9
55°	52.0	52.0	52.0
57.5°	50.3	50.3	50.0
60°	48.6	48.3	48.3
62.5°	47.2	46.6	46.9
65°	46.3	45.5	45.5
67°	45.7	44.0	44.0
67.5°	45.7	43.5	43.5
70°	44.9	41.2	40.7
72.5°	44.0	38.7	37.8
75°	41.8	36.7	35.9
77.5°	35.9	32.8	32.2
80°	27.7	24.0	24.6
82.5°	20.0	17.2	16.9
85°	14.4	12.4	12.4
87.5°	7.6	6.5	6.8
90°	0.0	0.0	0.0

(END OF REPORT)