

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: P152925

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P152925  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)  
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-SLL  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (7) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

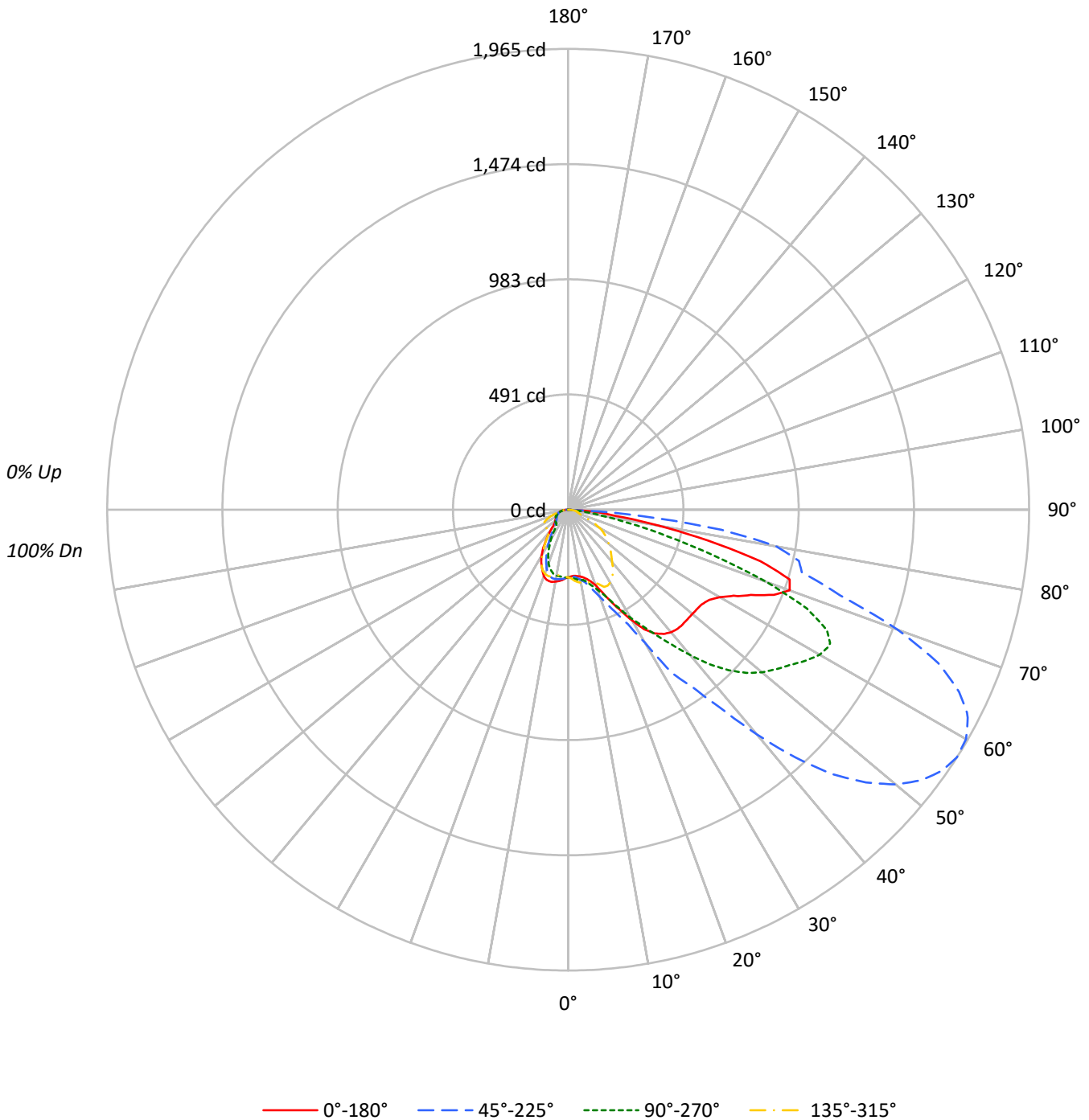
Lumens per Lamp: N/A  
Luminaire Lumens: 2297.0 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Spacing Criteria (0/90/45): 1.93 / 2.47 / 2.44  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

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	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	105	99	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77					77			
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58					58			
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45					45			
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35					35			
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29					29			
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24					24			
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20					20			
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17					17			
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15					15			
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13					13			

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

	0°	90°	180°	270°
0°	18280	18280	18280	18280
5°	17962	18750	19150	18280
10°	18575	19494	20008	18349
15°	20039	21068	20688	17856
20°	23159	24459	20396	16468
25°	30320	29950	18611	13903
30°	39956	38867	16597	10762
35°	49771	50304	13295	7359
40°	56404	66892	9737	6439
45°	61848	86634	7316	6752
50°	68086	106197	6994	6915
55°	77185	127434	7142	7076
60°	94393	156710	7775	7775
65°	128756	182347	8210	8075
70°	185942	165966	8664	8553
75°	207405	107445	9565	9027
80°	141768	52178	10939	9736
85°	91973	25354	13222	11987



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.1	1.2
10°-20°	87.5	3.8
20°-30°	155.5	6.8
30°-40°	244.8	10.7
40°-50°	360.3	15.7
50°-60°	478.6	20.8
60°-70°	527.2	23.0
70°-80°	330.8	14.4
80°-90°	84.2	3.7
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°	271.1	11.8
0°-40°	515.9	22.5
0°-60°	1354.8	59.0
0°-90°	2297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2297.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	289	289	289	289	289	
5°	283	295	301	288	283	27
15°	306	321	316	272	306	89
25°	434	429	266	199	434	205
35°	644	651	172	95	644	399
45°	691	968	82	75	691	534
55°	699	1154	65	64	699	634
65°	859	1217	55	54	859	865
75°	848	439	39	37	848	829
85°	127	35	18	16	127	146
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°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	284.8	285.4	285.4	285.1	285.1	285.6	285.4	285.1	284.3	285.4	285.4
5°	282.6	283.2	283.2	283.7	284.3	284.8	284.8	285.4	285.1	286.2	287.0
7.5°	285.4	285.9	287.0	288.4	289.2	291.1	291.1	292.5	293.1	293.9	293.6
10°	288.9	290.3	292.8	295.0	296.6	298.8	300.5	302.4	302.4	303.2	303.8
12.5°	295.3	296.6	299.4	302.1	304.6	307.4	309.8	311.8	313.7	314.2	315.4
15°	305.7	307.4	311.5	315.4	318.4	322.0	325.3	329.1	332.7	333.5	334.1
17.5°	321.4	324.7	327.7	334.6	339.0	343.7	348.9	354.4	355.5	361.3	362.7
20°	343.7	347.8	350.6	359.1	366.5	372.6	380.3	386.6	389.1	394.6	400.1
22.5°	382.2	381.4	385.5	394.1	399.6	411.7	418.3	424.9	428.2	436.4	440.8
25°	434.0	438.4	447.4	448.3	453.5	467.5	476.1	482.7	482.9	485.4	490.1
27.5°	484.9	503.0	517.3	525.0	539.1	552.0	551.5	560.8	546.2	549.2	553.7
30°	546.5	576.8	603.7	621.9	636.2	651.3	658.8	664.0	657.7	654.9	649.7
32.5°	604.3	646.7	688.2	720.4	747.1	772.1	788.7	796.1	804.9	827.2	835.2
35°	643.9	703.9	755.6	802.1	846.7	886.6	915.5	932.0	925.7	922.7	921.0
37.5°	667.6	740.8	805.4	871.2	922.4	982.1	1027.0	1070.4	1080.3	1063.0	1054.5
40°	682.4	769.1	852.2	929.8	996.1	1073.2	1128.8	1194.0	1243.5	1250.1	1229.8
42.5°	689.6	788.1	885.0	972.7	1062.5	1156.8	1227.3	1306.3	1380.3	1431.2	1418.5
45°	690.7	800.5	908.9	1011.5	1118.3	1230.3	1321.1	1408.6	1507.7	1594.9	1597.4
47.5°	690.7	809.8	925.4	1039.6	1168.4	1294.1	1393.2	1496.7	1618.0	1721.2	1752.9
50°	691.2	816.2	940.8	1061.6	1206.6	1348.1	1460.1	1582.3	1709.9	1822.2	1883.3
52.5°	693.7	820.8	952.9	1077.3	1231.4	1386.1	1512.1	1653.0	1780.1	1895.4	1974.4
55°	699.2	827.5	961.7	1086.9	1247.9	1410.8	1549.8	1701.4	1825.5	1942.5	2052.8
57.5°	714.6	839.0	972.5	1095.5	1257.0	1427.1	1576.2	1722.3	1842.8	1964.7	2094.4
60°	745.4	863.5	990.9	1112.5	1272.1	1457.1	1588.9	1708.3	1830.2	1958.1	2103.7
62.5°	794.7	901.7	1016.5	1141.4	1315.3	1503.6	1579.2	1666.5	1780.4	1919.9	2070.4
63°	811.8	910.0	1022.3	1147.8	1327.2	1512.1	1575.1	1654.1	1770.2	1907.8	2058.6
65°	859.4	946.6	1049.8	1179.7	1375.9	1520.6	1542.9	1589.7	1699.8	1838.7	1988.7
67.5°	948.3	1035.5	1109.0	1233.6	1416.9	1487.0	1443.0	1448.8	1563.8	1707.7	1842.6
70°	1004.4	1108.4	1146.7	1240.5	1409.4	1437.2	1313.7	1237.2	1329.4	1493.4	1611.4
72.5°	989.8	1109.2	1105.1	1148.9	1260.9	1286.7	1158.8	1038.2	1093.0	1215.4	1291.9
75°	847.8	990.6	960.4	951.6	990.9	1008.0	911.9	893.5	962.6	1030.5	1031.6
77.5°	610.3	767.5	732.0	681.1	678.3	717.7	730.6	851.4	953.5	1007.1	983.5
80°	388.8	559.2	522.3	433.4	432.0	483.2	596.9	761.1	869.3	899.3	837.6
82.5°	203.1	366.0	380.0	325.3	372.3	457.1	568.0	613.4	654.4	658.5	585.8
85°	126.6	225.1	264.7	273.2	336.3	405.3	404.5	388.5	370.4	317.0	286.7
87.5°	14.3	28.3	42.9	40.7	54.8	76.8	95.8	56.1	39.4	14.3	19.8
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°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	285.9	286.2	286.5	286.5	287.8	287.6	287.8	288.4	289.2	289.8	290.3
5°	288.1	288.1	289.2	290.0	291.7	292.8	293.3	295.0	296.9	296.4	298.0
7.5°	295.3	295.0	296.1	296.6	298.0	299.9	299.7	301.0	302.7	303.2	304.6
10°	304.9	304.1	304.1	303.5	303.8	303.2	303.2	303.2	304.3	304.1	305.2
12.5°	314.8	314.5	314.0	312.3	312.3	310.1	309.0	307.6	307.4	305.4	305.7
15°	335.2	335.2	334.1	330.8	328.0	326.1	323.3	321.4	318.7	315.1	313.1
17.5°	364.9	361.0	359.7	359.1	354.7	353.0	347.0	340.7	337.6	332.7	329.9
20°	401.2	400.4	394.9	392.1	386.6	378.9	371.2	363.0	358.0	351.9	348.6
22.5°	442.2	436.2	433.4	429.3	420.7	411.9	400.4	389.4	381.7	377.5	375.1
25°	490.1	484.0	481.3	475.8	465.3	456.0	441.7	428.7	421.8	415.0	411.1
27.5°	553.7	547.9	544.6	530.3	526.7	511.3	493.7	476.1	467.0	456.8	450.2
30°	648.6	648.9	631.8	614.5	596.6	569.9	551.5	531.6	516.8	502.2	487.6
32.5°	809.0	768.0	736.4	699.2	660.4	632.1	609.2	585.6	564.9	543.7	519.5
35°	907.0	887.2	846.2	778.2	739.1	704.7	679.4	650.8	625.5	588.0	551.2
37.5°	1017.6	971.6	921.8	884.1	839.8	799.9	757.6	725.1	681.3	631.0	578.7
40°	1179.1	1113.4	1053.4	1002.7	945.5	903.7	856.3	809.3	751.2	678.3	606.5
42.5°	1347.8	1279.8	1200.6	1134.8	1067.4	1018.4	959.8	893.8	808.5	718.2	630.4
45°	1524.7	1433.9	1339.0	1258.7	1188.5	1127.7	1055.0	967.5	863.5	754.0	652.7
47.5°	1699.2	1594.9	1481.8	1395.4	1304.1	1229.8	1140.6	1030.0	906.4	787.8	675.0
50°	1853.0	1752.6	1616.4	1506.6	1414.1	1322.5	1211.3	1078.1	940.3	817.0	695.1
52.5°	1985.7	1899.3	1755.9	1617.2	1510.7	1407.8	1268.3	1116.9	974.4	844.0	711.6
55°	2083.1	2025.6	1893.5	1721.5	1595.7	1473.0	1316.4	1154.4	1006.6	865.4	722.3
57.5°	2156.5	2124.6	2011.3	1819.7	1673.9	1536.3	1366.2	1199.2	1038.5	883.9	727.3
60°	2196.7	2205.5	2100.4	1905.6	1743.0	1589.1	1416.1	1237.5	1062.2	894.6	724.5
62.5°	2192.9	2246.8	2167.3	1958.4	1783.1	1620.5	1449.6	1255.3	1058.9	877.5	699.5
63°	2185.4	2248.2	2174.7	1962.0	1785.6	1621.6	1450.4	1252.9	1052.0	869.3	689.6
65°	2121.3	2216.5	2168.4	1945.8	1763.6	1601.0	1433.1	1217.1	1003.6	825.0	638.7
67.5°	1949.6	2068.8	2055.0	1831.0	1659.3	1515.7	1344.5	1101.8	883.9	716.0	541.3
70°	1665.9	1777.9	1780.4	1592.4	1449.1	1308.2	1165.9	896.5	700.6	555.0	403.7
72.5°	1276.8	1348.9	1373.9	1250.1	1154.1	1055.0	927.3	650.8	499.4	377.5	262.8
75°	988.7	968.9	968.6	916.3	877.3	828.8	688.5	439.2	328.0	245.5	160.7
77.5°	888.8	800.8	715.5	652.7	621.3	605.1	451.6	264.7	193.4	141.2	92.5
80°	733.1	603.2	487.3	419.6	392.7	411.4	251.8	143.1	105.9	80.4	60.0
82.5°	505.5	419.6	318.9	264.2	226.7	237.2	128.8	73.2	49.0	44.9	37.1
85°	263.3	230.9	194.8	167.3	147.8	129.9	66.9	34.9	20.4	17.9	16.2
87.5°	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	291.1	290.9	291.4	291.7	292.5	293.1	293.3	292.8	293.6	294.4	293.9
5°	298.8	300.8	301.0	301.9	301.9	303.5	303.5	303.5	303.2	303.5	303.0
7.5°	305.4	307.9	308.2	309.3	309.6	311.5	310.7	311.2	311.2	309.8	309.3
10°	306.3	308.7	310.1	311.5	313.4	315.9	315.9	317.3	317.3	316.2	315.9
12.5°	306.5	308.5	309.8	311.8	314.5	318.1	320.0	322.0	322.8	322.5	321.7
15°	312.3	312.3	312.6	314.2	316.2	320.6	323.3	325.5	326.9	326.4	325.0
17.5°	327.5	325.3	323.6	320.9	321.4	323.6	325.3	327.2	327.5	326.9	324.7
20°	345.1	342.3	338.2	333.8	331.6	329.9	328.8	328.8	328.0	325.3	321.7
22.5°	370.1	366.5	360.8	354.2	349.7	344.5	338.2	332.1	325.5	318.9	311.2
25°	404.8	399.8	393.8	383.6	374.2	363.2	350.3	336.8	321.1	307.4	296.1
27.5°	439.7	428.7	413.0	399.0	381.7	365.2	346.7	330.2	310.1	293.6	281.2
30°	468.6	447.7	425.1	402.9	380.0	357.7	335.7	315.9	293.9	277.1	265.0
32.5°	490.9	462.0	430.6	401.5	373.4	346.2	320.9	298.8	276.6	259.2	246.3
35°	511.6	471.4	431.5	395.4	360.8	332.4	303.8	279.9	256.2	238.0	224.0
37.5°	527.0	475.8	426.5	384.1	344.2	312.6	283.4	258.9	234.7	214.9	199.0
40°	536.9	473.0	415.8	367.9	324.7	291.4	261.7	236.4	213.0	191.2	172.0
42.5°	544.8	469.4	405.1	353.0	309.3	273.0	242.4	215.2	191.5	167.9	146.7
45°	556.7	472.2	400.4	342.6	295.5	257.3	223.7	195.4	170.6	147.5	127.1
47.5°	568.2	473.6	393.5	329.7	278.2	241.1	206.9	179.4	154.1	132.9	114.2
50°	578.7	472.8	382.8	313.1	261.4	224.8	191.8	164.3	139.2	119.7	102.1
52.5°	583.6	468.1	369.6	297.2	247.9	210.5	176.9	150.2	125.5	107.0	90.8
55°	583.1	456.0	352.2	282.1	233.1	195.4	162.4	135.9	113.6	96.6	82.6
57.5°	574.8	437.3	333.8	265.3	213.5	176.7	145.3	119.7	101.0	86.7	74.8
60°	557.5	413.3	309.6	240.8	189.0	153.5	124.1	102.1	87.0	75.9	68.2
62.5°	525.0	378.9	279.3	206.7	156.0	123.6	98.0	83.7	72.4	65.8	62.2
63°	515.4	369.6	266.4	198.4	148.3	116.7	92.5	77.6	69.3	63.6	60.3
65°	467.5	323.6	222.9	160.2	115.3	90.0	74.3	63.0	58.1	55.6	55.3
67.5°	378.6	254.5	157.7	109.8	78.4	64.9	57.0	52.3	50.1	49.5	50.1
70°	265.8	160.7	100.2	72.9	58.1	52.3	48.7	46.8	45.4	45.7	46.2
72.5°	169.5	96.3	68.8	55.3	49.0	46.0	44.3	43.8	43.5	43.2	43.2
75°	96.6	64.1	52.8	47.9	44.6	42.1	40.7	40.2	40.5	40.7	40.2
77.5°	63.8	52.8	47.1	43.8	40.7	38.0	37.1	36.9	37.4	38.0	38.0
80°	50.4	47.1	43.8	40.5	35.5	33.6	34.1	34.4	34.1	34.4	33.6
82.5°	35.5	34.9	35.8	34.4	29.4	27.8	27.2	27.5	27.0	27.0	26.4
85°	16.5	16.5	17.3	17.3	16.8	17.1	18.4	20.1	20.9	20.1	19.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	5.0	7.2	7.7	9.6	9.4
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: P152925

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	293.1	293.6	293.3	293.1	293.6	293.1	293.3	293.1	293.1	292.8	292.8
5°	302.4	303.2	301.6	301.3	300.8	299.4	299.4	298.8	298.8	297.7	296.9
7.5°	308.5	308.7	307.4	307.1	305.7	304.3	303.2	302.1	301.9	301.0	299.4
10°	314.2	313.7	312.6	311.2	309.8	307.9	306.5	305.2	304.9	303.5	301.6
12.5°	319.2	318.9	316.7	315.4	313.1	311.2	309.6	307.9	307.1	305.4	302.7
15°	322.5	320.9	318.1	315.6	313.1	310.9	309.0	307.1	306.3	304.3	301.6
17.5°	321.1	318.1	314.5	311.5	308.2	305.4	303.8	301.9	300.5	299.4	295.5
20°	316.2	311.8	306.3	302.7	298.3	294.7	293.6	291.7	290.6	286.5	281.5
22.5°	303.2	296.9	290.0	284.8	279.9	276.3	273.5	271.6	268.8	266.4	258.7
25°	287.0	279.9	272.7	266.4	259.8	254.3	249.3	244.6	243.3	238.0	230.6
27.5°	271.3	263.3	256.2	248.8	240.2	233.3	224.8	218.2	213.8	208.3	201.4
30°	254.5	246.6	236.9	227.0	217.1	209.7	200.1	192.1	186.6	180.8	174.5
32.5°	233.3	223.7	212.2	201.2	192.1	183.3	173.6	165.9	160.4	155.2	149.1
35°	209.1	196.5	184.1	172.0	162.4	154.9	146.4	140.6	136.8	132.1	125.8
37.5°	181.3	167.0	153.8	144.5	135.9	128.8	122.7	119.2	115.0	112.5	108.7
40°	153.3	139.2	126.3	117.8	110.6	106.5	103.2	102.4	99.6	96.3	93.8
42.5°	128.5	115.0	102.4	95.5	90.8	89.7	88.1	88.1	86.7	84.2	82.6
45°	111.7	97.7	86.7	81.7	79.3	79.0	78.1	78.1	77.9	76.8	74.8
47.5°	99.6	87.0	78.4	75.4	74.8	74.3	73.5	73.2	72.9	72.1	71.0
50°	88.6	77.9	72.4	71.0	71.3	70.4	69.6	68.8	68.5	67.7	66.6
52.5°	78.4	70.7	67.1	66.3	66.3	66.3	65.8	65.8	65.2	64.9	63.8
55°	72.6	66.9	64.9	64.7	64.4	64.1	63.6	63.6	63.0	62.7	61.4
57.5°	67.7	64.1	63.0	62.5	62.2	61.6	61.4	61.4	61.4	61.4	59.7
60°	63.8	62.2	61.9	61.4	61.1	60.0	59.4	59.2	59.4	59.7	58.1
62.5°	59.7	59.4	59.2	58.6	58.3	57.2	56.4	55.9	56.4	57.0	56.7
63°	58.6	58.3	58.3	58.1	57.8	56.4	55.6	55.0	55.6	56.1	56.1
65°	54.8	55.0	55.0	54.8	54.5	53.7	52.6	52.0	52.3	53.1	53.4
67.5°	50.6	50.9	50.6	50.9	50.6	50.1	49.3	48.7	48.4	48.7	49.0
70°	46.8	47.3	47.1	46.8	46.5	46.5	46.0	45.1	44.9	44.6	44.6
72.5°	43.5	43.5	42.9	42.9	42.7	42.7	42.1	41.3	41.0	41.0	40.5
75°	39.9	39.9	39.1	39.1	38.5	38.8	38.2	37.4	37.1	37.1	36.9
77.5°	37.7	36.9	35.5	35.2	34.9	34.9	34.7	33.8	33.6	33.6	33.3
80°	33.3	31.6	30.3	30.0	30.3	30.8	30.8	30.3	30.3	30.3	30.3
82.5°	25.9	25.3	24.5	23.9	23.9	24.8	25.9	26.4	27.0	27.5	27.5
85°	19.0	19.3	19.0	18.2	17.9	18.7	19.8	20.9	21.2	22.3	22.0
87.5°	10.2	10.5	9.6	9.4	10.2	10.7	11.8	12.1	12.7	12.9	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: P152925

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	292.5	292.2	292.5	292.0	292.0	291.4	290.9	290.6	290.0	289.8	289.2
5°	297.5	296.6	295.8	295.5	294.4	293.3	292.5	291.1	290.0	288.1	287.6
7.5°	300.8	298.8	297.7	297.5	295.8	295.0	293.1	291.4	289.8	287.3	286.5
10°	302.1	300.2	298.3	297.5	295.5	294.2	292.2	289.8	288.4	285.9	285.4
12.5°	303.8	300.2	297.2	295.0	292.2	289.2	287.3	285.9	284.0	282.6	282.1
15°	300.8	296.1	291.4	287.3	282.9	279.6	277.7	275.5	273.2	272.4	272.4
17.5°	292.5	286.5	278.5	273.2	268.6	265.0	262.5	260.3	260.0	258.9	259.5
20°	275.5	267.5	259.8	255.9	253.2	251.0	248.5	247.4	246.6	244.9	244.4
22.5°	251.8	245.2	239.7	236.9	234.7	232.0	229.8	226.5	225.6	224.0	223.2
25°	225.6	220.4	215.7	213.8	212.4	208.6	207.2	202.8	199.8	197.9	199.0
27.5°	199.5	195.6	191.2	188.8	187.9	184.4	183.0	178.0	175.6	175.6	172.8
30°	172.5	169.0	166.2	163.5	162.9	158.5	154.9	153.0	150.2	149.1	147.2
32.5°	147.2	143.6	141.4	140.1	137.9	134.3	130.7	127.4	123.0	121.4	120.5
35°	123.8	121.1	118.3	117.2	114.2	110.3	105.9	103.2	98.0	96.0	95.2
37.5°	105.9	102.6	100.7	97.7	94.7	90.5	87.2	84.8	82.8	82.0	82.0
40°	91.6	89.2	87.0	84.5	82.0	79.8	78.1	77.6	77.3	77.3	77.9
42.5°	80.9	78.7	77.6	76.2	75.4	75.4	75.1	75.4	75.7	75.9	76.8
45°	73.7	72.4	71.8	71.5	72.1	72.6	72.9	73.5	74.6	75.1	75.4
47.5°	69.9	68.8	68.5	68.8	69.6	70.7	71.8	72.6	73.5	73.7	74.0
50°	66.0	64.7	64.1	64.7	65.8	67.4	68.2	69.6	70.2	70.7	70.2
52.5°	62.7	61.6	61.4	61.4	62.5	63.6	64.7	65.8	66.0	66.0	65.8
55°	60.0	59.2	58.3	58.9	59.7	60.8	62.5	63.3	63.8	64.1	64.1
57.5°	57.8	57.0	56.1	56.7	57.5	58.6	60.3	61.1	61.6	62.5	62.7
60°	56.1	55.0	54.2	55.0	55.9	57.5	58.9	59.7	61.1	61.4	61.4
62.5°	54.5	53.4	52.0	52.8	52.8	53.7	55.0	56.1	57.5	58.1	58.1
63°	54.2	53.1	51.7	52.3	52.3	52.8	53.9	55.0	56.7	57.2	57.0
65°	52.0	51.7	50.4	50.4	49.8	50.4	51.2	52.3	53.1	53.9	53.9
67.5°	48.4	48.2	47.9	47.9	47.9	48.4	49.0	49.8	50.6	51.2	50.9
70°	44.3	44.3	44.3	44.6	44.6	45.1	45.4	45.1	46.0	46.5	46.2
72.5°	40.7	40.5	40.2	40.7	40.5	40.5	41.0	40.7	41.6	41.6	41.8
75°	36.9	36.6	36.6	36.9	36.3	35.8	36.0	36.0	36.3	36.3	36.9
77.5°	33.6	33.6	33.6	33.3	32.7	32.5	32.2	32.2	32.2	32.2	32.5
80°	30.5	30.5	30.5	30.3	29.7	29.2	28.6	28.3	28.1	26.7	26.7
82.5°	27.5	27.5	27.5	27.5	27.2	26.7	25.9	23.7	22.6	21.5	21.7
85°	21.7	22.3	22.8	23.7	23.4	23.4	21.7	19.0	17.3	16.2	16.5
87.5°	14.0	12.4	12.4	12.1	11.6	11.0	11.0	9.4	7.7	6.9	7.2
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: P152925

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	289.2	288.7	288.1	288.1	287.3	287.3	286.7	287.8	286.7	285.9	285.9
5°	287.0	286.5	284.8	284.5	283.4	283.4	283.4	282.9	282.9	282.3	282.1
7.5°	285.6	284.3	282.9	282.1	282.1	281.5	282.6	282.1	282.3	282.3	282.6
10°	284.5	283.4	282.9	282.6	282.6	283.4	284.3	284.5	284.3	284.5	284.5
12.5°	281.8	282.3	282.6	283.7	285.1	286.7	288.7	288.9	289.5	289.5	290.0
15°	273.0	274.3	276.0	278.8	282.3	285.9	289.5	292.5	295.3	296.6	297.7
17.5°	260.6	262.0	265.0	268.0	272.7	277.9	284.0	289.2	295.0	300.2	305.4
20°	243.8	246.0	246.8	252.3	257.8	265.0	272.1	280.4	290.3	300.2	310.4
22.5°	222.1	224.5	228.4	232.8	238.6	247.4	255.9	268.8	282.1	296.1	312.0
25°	197.9	200.6	203.9	208.6	214.4	223.7	236.1	249.9	266.1	284.5	304.3
27.5°	172.8	175.6	178.3	181.6	188.2	198.1	212.7	227.0	244.9	265.0	288.1
30°	147.8	148.0	149.7	153.8	160.7	173.6	184.4	202.3	221.0	242.2	268.8
32.5°	120.3	120.0	121.9	125.5	132.1	144.5	157.7	175.0	193.4	220.1	247.7
35°	95.8	95.8	99.3	102.9	110.3	119.2	130.7	146.1	167.9	192.6	220.1
37.5°	82.8	84.8	87.0	90.5	96.3	103.2	113.4	126.9	143.9	167.6	192.9
40°	78.7	79.8	81.7	85.0	90.0	96.3	103.7	113.9	127.1	146.1	169.2
42.5°	77.0	77.3	78.4	80.9	85.3	91.6	99.3	108.4	118.3	131.8	151.9
45°	75.4	75.1	75.7	77.6	81.2	88.3	97.1	107.0	116.9	128.2	144.7
47.5°	74.0	74.0	74.0	74.8	78.1	85.3	95.5	107.0	118.9	131.5	147.8
50°	70.2	69.9	69.9	70.4	72.9	80.6	92.7	106.8	122.2	138.7	157.1
52.5°	65.8	65.8	66.0	66.3	68.5	76.2	89.7	106.8	126.0	148.0	171.2
55°	64.4	64.7	64.9	64.7	66.3	72.9	86.4	105.1	127.7	155.5	186.3
57.5°	63.3	63.8	63.8	63.6	64.7	70.2	83.1	101.8	126.3	158.2	197.0
60°	61.6	61.6	61.6	60.8	61.4	66.3	78.1	96.6	121.9	155.7	198.7
62.5°	58.1	58.1	57.5	57.2	57.0	60.8	71.5	88.9	113.9	149.1	194.5
63°	57.2	57.0	57.0	56.1	56.1	59.7	70.2	87.8	111.7	147.5	192.9
65°	54.2	54.2	54.2	53.7	53.4	56.1	64.7	80.1	103.2	139.8	184.6
67.5°	50.9	51.2	50.6	50.4	50.1	51.7	58.3	70.4	90.0	123.6	169.2
70°	46.2	46.5	46.5	46.2	46.0	47.1	51.2	60.5	74.6	102.9	144.2
72.5°	42.1	42.7	42.7	43.2	43.2	44.0	45.7	50.4	59.7	80.4	113.4
75°	37.7	38.0	38.5	39.1	38.5	38.2	38.5	42.1	46.8	59.4	80.9
77.5°	33.8	34.7	34.7	34.4	33.6	33.0	33.0	34.7	38.5	45.1	57.8
80°	28.1	29.4	29.7	28.9	28.1	28.1	28.6	29.7	32.2	37.1	43.8
82.5°	22.6	23.9	24.2	24.5	24.2	25.0	25.0	25.3	26.7	30.5	35.8
85°	17.3	18.4	19.3	19.5	19.8	20.1	19.8	18.4	19.3	21.7	24.2
87.5°	7.7	8.0	7.4	7.7	7.4	7.7	8.0	6.6	6.3	8.5	8.8
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: P152925

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

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	288.7	288.7	288.7	288.7	288.7	288.7	288.7
2.5°	285.6	285.6	285.9	285.4	285.4	285.6	284.8
5°	281.2	282.3	282.3	282.3	281.8	282.3	282.6
7.5°	282.3	283.2	283.7	283.7	283.4	284.5	285.4
10°	283.7	285.1	285.6	285.6	285.6	287.0	288.9
12.5°	288.9	290.0	290.9	290.9	291.4	293.1	295.3
15°	298.6	299.9	299.9	299.7	301.3	303.2	305.7
17.5°	309.3	313.1	315.1	314.8	316.2	318.7	321.4
20°	319.5	330.2	334.9	338.2	339.6	342.9	343.7
22.5°	328.0	345.9	358.8	369.8	375.1	378.4	382.2
25°	325.0	349.2	372.3	394.9	410.8	427.1	434.0
27.5°	312.6	342.9	373.1	406.2	435.1	463.9	484.9
30°	297.5	333.8	374.5	421.3	467.0	511.3	546.5
32.5°	280.1	325.3	377.5	435.3	495.3	553.4	604.3
35°	258.4	309.0	370.1	436.7	507.4	577.9	643.9
37.5°	230.9	287.0	352.8	426.8	508.0	588.6	667.6
40°	203.4	259.2	330.8	412.5	500.8	591.1	682.4
42.5°	184.1	234.4	308.5	394.3	489.3	587.2	689.6
45°	170.9	216.6	288.7	377.8	476.9	580.3	690.7
47.5°	169.8	208.9	275.7	365.7	467.0	574.3	690.7
50°	179.1	213.0	271.3	359.7	462.8	572.4	691.2
52.5°	196.8	229.5	279.3	364.3	466.1	574.8	693.7
55°	217.9	254.5	300.8	380.6	480.2	583.1	699.2
57.5°	237.2	283.4	337.4	411.9	505.8	604.0	714.6
60°	248.5	308.2	376.2	456.0	549.5	645.6	745.4
62.5°	249.9	322.0	410.6	503.8	602.6	693.2	794.7
63°	248.8	323.1	415.0	512.9	613.9	705.0	811.8
65°	242.7	323.3	427.3	544.8	653.0	754.8	859.4
67.5°	227.3	314.5	431.7	569.9	702.2	820.3	948.3
70°	200.6	289.5	418.8	570.4	721.2	856.9	1004.4
72.5°	161.3	241.9	363.0	519.0	671.2	820.8	989.8
75°	118.1	177.8	274.3	402.0	547.6	683.3	847.8
77.5°	78.4	115.0	184.9	286.5	392.7	491.7	610.3
80°	53.9	71.3	108.1	172.3	240.2	288.4	388.8
82.5°	39.6	47.1	60.0	88.1	115.6	142.3	203.1
85°	24.8	27.0	30.0	43.5	62.2	83.9	126.6
87.5°	6.6	6.9	6.3	8.5	13.5	12.9	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)