

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: P153524

Luminaire Tested: **TLM-F04-LED-E1-SLR-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P153524  
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-F04-LED-E1-SLR-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

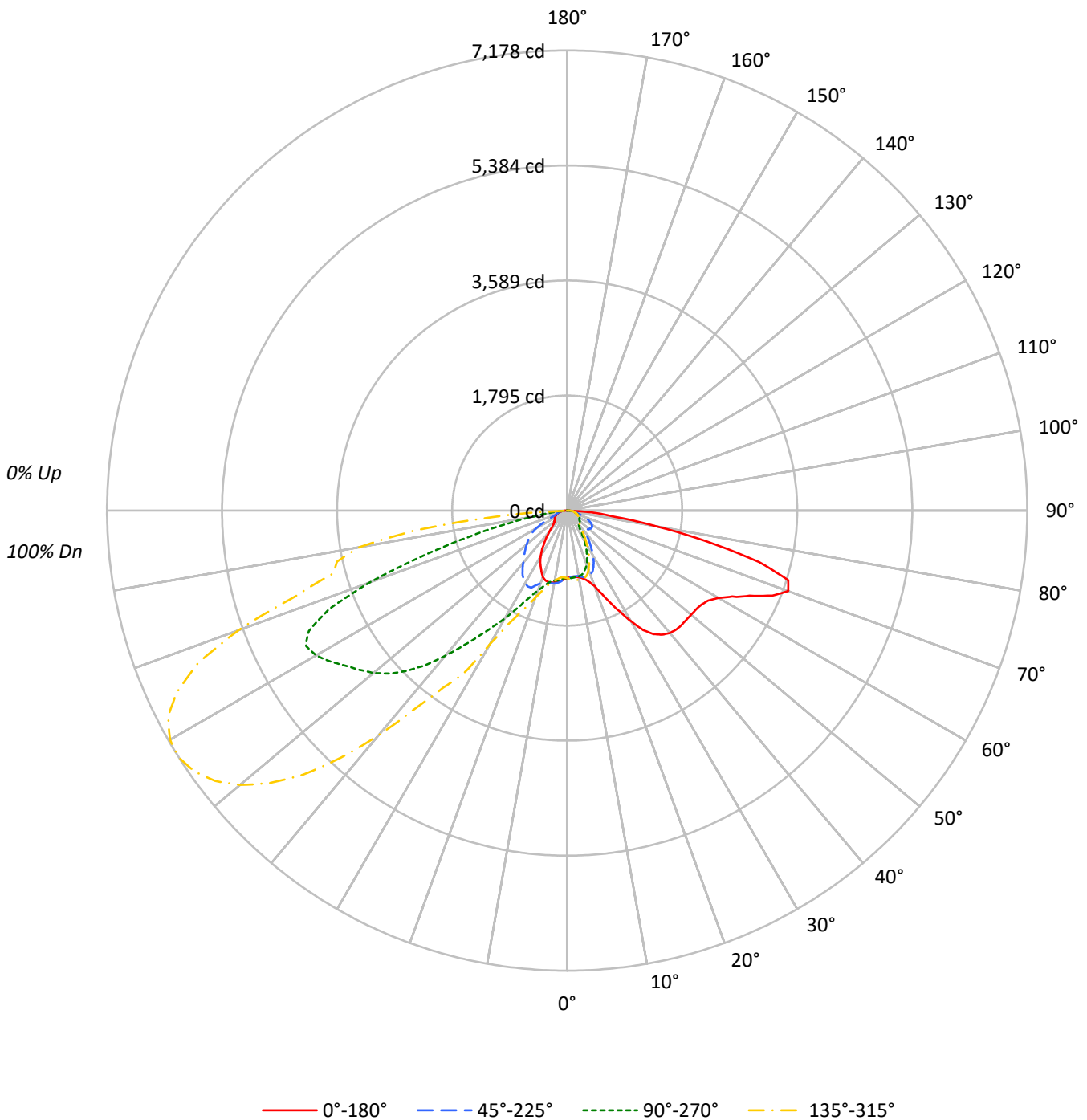
Lumens per Lamp: N/A  
Luminaire Lumens: 8391.8 lumens  
Efficiency: N/A  
Efficacy: 82.1 lumens/watt  
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): 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°	16943	16943	16943	16943
5°	16651	16943	17753	17380
10°	17220	17007	18548	18074
15°	18577	16554	19179	19530
20°	21468	15262	18907	22670
25°	28103	12884	17251	27765
30°	37039	9977	15386	36031
35°	46138	6821	12322	46630
40°	52288	5967	9024	62008
45°	57332	6259	6784	80309
50°	63119	6408	6483	98447
55°	71550	6560	6619	118124
60°	87506	7204	7204	145261
65°	119350	7489	7607	169034
70°	172361	7934	8028	153849
75°	192263	8361	8864	99595
80°	131422	9020	10140	48368
85°	85235	11115	12240	23539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.7	1.2
10°-20°	319.7	3.8
20°-30°	568.0	6.8
30°-40°	894.5	10.7
40°-50°	1316.4	15.7
50°-60°	1748.5	20.8
60°-70°	1926.0	23.0
70°-80°	1208.4	14.4
80°-90°	307.8	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°	990.4	11.8
0°-40°	1884.8	22.5
0°-60°	4949.7	59.0
0°-90°	8391.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8391.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1055	1055	1055	1055	1055	
5°	1032	1051	1101	1078	1032	100
15°	1117	995	1153	1174	1117	324
25°	1585	727	973	1566	1585	748
35°	2352	348	628	2378	2352	1458
45°	2523	276	299	3535	2523	1951
55°	2554	234	236	4217	2554	2317
65°	3140	197	200	4447	3140	3161
75°	3097	135	143	1604	3097	3029
85°	462	60	66	128	462	535
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°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1040.5	1043.5	1042.5	1042.5	1044.5	1043.5	1043.5	1044.5	1044.5	1047.5	1051.6
5°	1032.5	1031.5	1029.5	1031.5	1031.5	1031.5	1027.4	1030.5	1031.5	1033.5	1033.5
7.5°	1042.5	1039.5	1035.5	1036.5	1036.5	1034.5	1031.5	1032.5	1031.5	1031.5	1030.5
10°	1055.6	1048.6	1043.5	1043.5	1043.5	1041.5	1036.5	1039.5	1039.5	1038.5	1039.5
12.5°	1078.7	1070.7	1064.6	1062.6	1062.6	1059.6	1055.6	1059.6	1057.6	1057.6	1055.6
15°	1116.9	1107.9	1100.8	1094.8	1095.8	1095.8	1090.8	1087.8	1083.7	1078.7	1068.7
17.5°	1174.2	1164.2	1155.1	1150.1	1151.1	1144.1	1130.0	1115.9	1096.8	1077.7	1056.6
20°	1255.7	1252.6	1240.6	1235.5	1223.5	1206.4	1167.2	1134.0	1096.8	1060.6	1024.4
22.5°	1396.4	1382.3	1370.3	1351.2	1310.9	1263.7	1198.3	1140.0	1081.7	1030.5	982.2
25°	1585.4	1560.3	1500.9	1442.6	1360.2	1275.8	1187.3	1111.9	1039.5	972.1	912.8
27.5°	1771.4	1695.0	1589.4	1483.9	1363.2	1252.6	1142.0	1052.6	968.1	894.7	829.4
30°	1996.6	1867.9	1706.0	1539.2	1368.2	1219.5	1086.8	982.2	884.7	807.3	738.9
32.5°	2207.7	2021.7	1809.6	1590.4	1379.3	1188.3	1023.4	904.8	804.3	706.7	639.4
35°	2352.5	2111.2	1853.8	1595.5	1352.2	1129.0	944.0	804.3	703.7	613.2	533.8
37.5°	2438.9	2150.4	1855.8	1559.3	1288.8	1048.6	843.5	704.7	612.2	525.8	463.5
40°	2493.2	2159.4	1829.7	1507.0	1208.4	947.0	742.9	618.3	533.8	464.5	416.2
42.5°	2519.3	2145.4	1787.5	1440.6	1127.0	856.5	672.6	554.9	481.6	432.3	396.1
45°	2523.4	2120.2	1742.2	1380.3	1054.6	791.2	624.3	528.8	468.5	427.3	391.1
47.5°	2523.4	2098.1	1706.0	1336.1	1007.3	763.0	620.3	539.9	480.5	434.3	391.1
50°	2525.4	2091.1	1691.0	1314.0	991.3	778.1	654.5	574.0	506.7	446.4	390.1
52.5°	2534.4	2100.1	1703.0	1331.0	1020.4	838.4	718.8	625.3	540.9	460.4	390.1
55°	2554.5	2130.3	1754.3	1390.4	1098.8	929.9	796.2	680.6	568.0	466.5	384.0
57.5°	2610.8	2206.7	1847.8	1505.0	1232.5	1035.5	866.6	719.8	578.1	461.4	372.0
60°	2723.4	2358.5	2007.6	1665.8	1374.3	1126.0	907.8	725.8	569.0	445.4	352.9
62.5°	2903.4	2532.4	2201.7	1840.7	1499.9	1176.2	912.8	710.8	544.9	416.2	324.7
63°	2965.7	2575.6	2242.9	1873.9	1516.0	1180.3	908.8	704.7	538.9	408.2	320.7
65°	3139.6	2757.6	2385.6	1990.5	1561.3	1181.3	886.7	674.6	510.7	377.0	292.5
67.5°	3464.3	2996.9	2565.6	2082.0	1577.4	1149.1	830.4	618.3	451.4	328.7	257.4
70°	3669.4	3130.6	2635.0	2084.0	1530.1	1057.6	732.9	526.8	376.0	272.4	221.2
72.5°	3616.2	2998.9	2452.0	1896.0	1326.0	883.7	589.1	414.2	293.6	218.2	184.0
75°	3097.4	2496.2	2000.6	1468.8	1002.3	649.4	431.3	295.6	217.2	170.9	153.8
77.5°	2229.8	1796.5	1434.6	1046.5	675.6	420.2	286.5	211.1	164.9	140.7	126.7
80°	1420.5	1053.6	877.6	629.3	395.1	260.4	197.0	159.8	135.7	117.6	108.6
82.5°	741.9	519.8	422.2	321.7	219.2	171.9	144.8	130.7	111.6	97.5	92.5
85°	462.4	306.6	227.2	158.8	109.6	98.5	90.5	88.5	79.4	70.4	67.4
87.5°	52.3	47.3	49.3	31.2	23.1	25.1	24.1	32.2	31.2	23.1	24.1
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°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1047.5	1049.6	1049.6	1052.6	1052.6	1054.6	1056.6	1056.6	1058.6	1059.6	1061.6
5°	1035.5	1035.5	1035.5	1039.5	1040.5	1046.5	1048.6	1050.6	1052.6	1059.6	1063.6
7.5°	1032.5	1028.4	1030.5	1030.5	1033.5	1038.5	1043.5	1046.5	1049.6	1058.6	1064.6
10°	1038.5	1035.5	1032.5	1032.5	1033.5	1035.5	1039.5	1042.5	1044.5	1053.6	1058.6
12.5°	1054.6	1047.5	1041.5	1036.5	1032.5	1031.5	1029.5	1030.5	1032.5	1037.5	1044.5
15°	1057.6	1044.5	1031.5	1018.4	1008.3	1002.3	997.3	995.3	995.3	998.3	1006.3
17.5°	1037.5	1015.4	996.3	979.2	968.1	957.1	952.0	948.0	946.0	950.0	951.0
20°	994.3	968.1	942.0	921.9	901.8	898.8	890.7	892.7	894.7	900.8	903.8
22.5°	935.0	903.8	871.6	850.5	834.4	820.3	811.3	815.3	818.3	824.4	827.4
25°	862.6	817.3	783.1	762.0	744.9	732.9	722.8	726.8	722.8	729.9	740.9
27.5°	777.1	723.8	687.6	663.5	651.5	641.4	631.3	631.3	641.4	641.4	650.4
30°	673.6	634.4	587.1	562.0	546.9	540.9	539.9	537.8	544.9	548.9	559.0
32.5°	576.1	527.8	482.6	458.4	445.4	438.3	439.3	440.3	443.3	449.4	465.5
35°	477.5	435.3	403.1	376.0	362.9	349.9	349.9	347.8	350.9	357.9	377.0
37.5°	414.2	377.0	351.9	330.8	317.7	309.6	302.6	299.6	299.6	302.6	309.6
40°	379.0	351.9	328.7	310.6	298.6	291.5	287.5	284.5	282.5	282.5	283.5
42.5°	362.9	334.8	311.7	295.6	286.5	282.5	281.5	280.5	277.5	276.5	275.5
45°	354.9	322.7	296.6	283.5	276.5	274.5	275.5	275.5	274.5	272.4	268.4
47.5°	348.8	311.7	285.5	273.4	270.4	270.4	270.4	270.4	269.4	268.4	265.4
50°	338.8	294.6	266.4	257.4	255.4	255.4	256.4	256.4	258.4	256.4	254.3
52.5°	327.7	278.5	250.3	242.3	241.3	240.3	240.3	240.3	241.3	241.3	240.3
55°	315.7	266.4	242.3	236.3	237.3	236.3	235.2	234.2	234.2	233.2	231.2
57.5°	303.6	256.4	236.3	232.2	233.2	233.2	231.2	229.2	228.2	225.2	223.2
60°	285.5	242.3	224.2	222.2	225.2	225.2	225.2	224.2	224.2	223.2	218.2
62.5°	261.4	222.2	208.1	209.1	210.1	212.1	212.1	212.1	212.1	210.1	205.1
63°	256.4	218.2	205.1	205.1	208.1	208.1	209.1	208.1	209.1	207.1	201.1
65°	236.3	205.1	195.0	196.0	198.0	198.0	198.0	197.0	197.0	194.0	191.0
67.5°	213.1	189.0	183.0	184.0	185.0	187.0	186.0	186.0	187.0	185.0	182.0
70°	187.0	171.9	167.9	168.9	169.9	169.9	168.9	168.9	169.9	167.9	164.9
72.5°	166.9	160.9	157.8	157.8	155.8	155.8	153.8	152.8	151.8	151.8	148.8
75°	140.7	139.7	140.7	142.8	140.7	138.7	137.7	134.7	132.7	132.7	131.7
77.5°	120.6	120.6	122.6	125.7	126.7	126.7	123.7	118.6	117.6	117.6	117.6
80°	104.6	102.5	102.5	105.6	108.6	107.6	102.5	97.5	97.5	102.5	103.5
82.5°	91.5	91.5	88.5	89.5	88.5	87.5	82.4	79.4	78.4	82.4	86.5
85°	72.4	73.4	72.4	71.4	70.4	67.4	63.3	60.3	59.3	63.3	69.4
87.5°	29.2	28.1	27.1	28.1	27.1	29.2	28.1	26.1	25.1	28.1	34.2
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1062.6	1064.6	1066.6	1066.6	1068.7	1067.7	1068.7	1069.7	1069.7	1070.7	1070.7
5°	1068.7	1071.7	1075.7	1079.7	1080.7	1083.7	1086.8	1084.7	1087.8	1091.8	1091.8
7.5°	1070.7	1077.7	1080.7	1086.8	1087.8	1091.8	1098.8	1093.8	1099.8	1102.8	1103.8
10°	1067.7	1074.7	1079.7	1086.8	1089.8	1096.8	1103.8	1101.8	1108.9	1113.9	1114.9
12.5°	1049.6	1056.6	1067.7	1077.7	1085.8	1096.8	1109.9	1105.9	1115.9	1121.9	1125.0
15°	1014.4	1021.4	1033.5	1049.6	1064.6	1081.7	1098.8	1101.8	1111.9	1118.9	1121.9
17.5°	959.1	968.1	981.2	998.3	1017.4	1046.5	1068.7	1079.7	1093.8	1097.8	1102.8
20°	907.8	916.9	924.9	935.0	949.0	977.2	1006.3	1028.4	1046.5	1061.6	1065.6
22.5°	839.4	847.5	857.5	865.6	875.6	895.7	919.9	945.0	973.2	982.2	992.3
25°	757.0	762.0	776.1	781.1	788.2	805.3	824.4	842.5	869.6	888.7	893.7
27.5°	668.5	673.6	686.6	689.7	698.7	714.8	728.9	735.9	761.0	781.1	797.2
30°	566.0	579.1	595.2	597.2	607.2	617.3	630.3	637.4	660.5	681.6	701.7
32.5°	477.5	490.6	503.7	511.7	516.7	524.8	537.8	544.9	567.0	586.1	606.2
35°	387.0	403.1	417.2	428.3	432.3	442.3	452.4	459.4	482.6	499.6	513.7
37.5°	318.7	330.8	345.8	356.9	367.9	375.0	387.0	397.1	411.2	420.2	435.3
40°	285.5	291.5	299.6	308.6	317.7	325.7	334.8	342.8	351.9	363.9	374.0
42.5°	274.5	275.5	275.5	278.5	283.5	287.5	295.6	301.6	307.6	316.7	321.7
45°	266.4	265.4	263.4	261.4	262.4	264.4	269.4	273.4	280.5	284.5	285.5
47.5°	262.4	258.4	254.3	251.3	250.3	251.3	255.4	259.4	263.4	266.4	267.4
50°	249.3	246.3	240.3	236.3	234.2	236.3	241.3	243.3	247.3	250.3	251.3
52.5°	236.3	232.2	228.2	224.2	224.2	225.2	229.2	233.2	237.3	238.3	240.3
55°	228.2	222.2	218.2	215.1	213.1	216.1	219.2	224.2	229.2	230.2	232.2
57.5°	220.2	214.1	210.1	207.1	205.1	208.1	211.1	218.2	224.2	224.2	224.2
60°	215.1	210.1	204.1	201.1	198.0	201.1	205.1	212.1	218.2	217.2	216.1
62.5°	201.1	196.0	193.0	193.0	190.0	195.0	199.1	207.1	208.1	206.1	204.1
63°	197.0	193.0	191.0	191.0	189.0	194.0	198.0	205.1	205.1	203.1	201.1
65°	187.0	184.0	182.0	184.0	184.0	189.0	190.0	195.0	194.0	191.0	190.0
67.5°	178.9	176.9	174.9	174.9	174.9	175.9	176.9	178.9	177.9	176.9	177.9
70°	165.9	164.9	162.9	162.9	161.9	161.9	161.9	162.9	162.9	163.9	164.9
72.5°	149.8	147.8	147.8	148.8	146.8	147.8	148.8	147.8	149.8	149.8	150.8
75°	131.7	130.7	132.7	134.7	133.7	133.7	134.7	134.7	135.7	135.7	136.7
77.5°	117.6	118.6	119.6	121.6	122.6	122.6	122.6	121.6	122.6	122.6	123.7
80°	104.6	106.6	108.6	110.6	111.6	111.6	111.6	110.6	110.6	110.6	110.6
82.5°	94.5	97.5	99.5	100.5	100.5	100.5	100.5	100.5	100.5	98.5	96.5
85°	79.4	85.5	85.5	86.5	83.4	81.4	79.4	80.4	81.4	77.4	76.4
87.5°	40.2	40.2	42.2	44.2	45.2	45.2	51.3	48.3	47.3	46.2	44.2
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: P153524

CATALOG NUMBER: TLM-F04-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1071.7	1070.7	1072.7	1070.7	1071.7	1072.7	1070.7	1073.7	1075.7	1072.7	1069.7
5°	1093.8	1093.8	1098.8	1100.8	1101.8	1107.9	1104.9	1106.9	1108.9	1107.9	1108.9
7.5°	1107.9	1111.9	1116.9	1121.9	1122.9	1128.0	1127.0	1130.0	1132.0	1137.0	1137.0
10°	1119.9	1125.0	1132.0	1137.0	1142.0	1146.1	1148.1	1154.1	1155.1	1159.1	1159.1
12.5°	1131.0	1137.0	1144.1	1152.1	1157.1	1165.2	1166.2	1175.2	1178.2	1179.2	1176.2
15°	1129.0	1136.0	1144.1	1153.1	1162.2	1172.2	1178.2	1187.3	1192.3	1194.3	1189.3
17.5°	1109.9	1115.9	1126.0	1138.0	1149.1	1162.2	1173.2	1186.3	1194.3	1196.3	1195.3
20°	1072.7	1076.7	1089.8	1105.9	1118.9	1139.0	1155.1	1175.2	1188.3	1198.3	1201.4
22.5°	999.3	1009.3	1022.4	1040.5	1059.6	1084.7	1107.9	1137.0	1165.2	1189.3	1213.4
25°	910.8	928.9	949.0	973.2	996.3	1022.4	1048.6	1081.7	1122.9	1173.2	1230.5
27.5°	821.4	852.5	877.6	908.8	936.0	962.1	991.3	1027.4	1072.7	1133.0	1206.4
30°	730.9	766.1	793.2	829.4	865.6	900.8	929.9	968.1	1012.4	1073.7	1154.1
32.5°	634.4	669.5	701.7	734.9	775.1	817.3	852.5	899.8	947.0	1010.4	1091.8
35°	534.8	566.0	593.1	628.3	672.6	717.8	764.0	818.3	869.6	936.0	1022.4
37.5°	448.4	470.5	496.6	527.8	562.0	610.2	662.5	726.8	785.2	857.5	946.0
40°	377.0	389.1	404.1	430.3	461.4	508.7	560.0	628.3	698.7	778.1	863.6
42.5°	321.7	327.7	331.8	348.8	374.0	420.2	469.5	535.8	613.2	699.7	786.2
45°	285.5	288.5	289.5	298.6	316.7	356.9	408.2	464.5	538.9	623.3	713.8
47.5°	268.4	271.4	273.4	275.5	286.5	317.7	363.9	417.2	485.6	563.0	655.5
50°	254.3	257.4	260.4	259.4	264.4	284.5	323.7	373.0	437.3	508.7	600.2
52.5°	240.3	242.3	242.3	242.3	245.3	258.4	286.5	331.8	391.1	458.4	548.9
55°	232.2	234.2	235.2	236.3	237.3	244.3	265.4	301.6	352.9	415.2	496.6
57.5°	224.2	225.2	227.2	228.2	230.2	234.2	247.3	273.4	316.7	369.0	437.3
60°	217.2	219.2	223.2	224.2	226.2	227.2	233.2	249.3	277.5	317.7	373.0
62.5°	206.1	209.1	213.1	214.1	216.1	217.2	218.2	227.2	240.3	264.4	305.6
63°	203.1	206.1	211.1	212.1	213.1	213.1	214.1	220.2	232.2	253.3	283.5
65°	192.0	196.0	199.1	200.1	201.1	201.1	200.1	202.1	203.1	212.1	230.2
67.5°	180.0	183.0	185.0	186.0	185.0	186.0	185.0	183.0	181.0	183.0	191.0
70°	167.9	169.9	169.9	170.9	171.9	172.9	170.9	168.9	166.9	165.9	170.9
72.5°	153.8	155.8	155.8	156.8	156.8	158.8	158.8	157.8	157.8	158.8	159.8
75°	139.7	141.8	140.7	142.8	142.8	145.8	145.8	146.8	148.8	147.8	146.8
77.5°	126.7	127.7	127.7	128.7	129.7	134.7	137.7	138.7	138.7	136.7	134.7
80°	112.6	112.6	110.6	109.6	110.6	115.6	121.6	122.6	125.7	124.7	125.7
82.5°	94.5	90.5	87.5	87.5	89.5	92.5	94.5	96.5	98.5	98.5	100.5
85°	72.4	68.4	65.3	66.4	69.4	70.4	69.4	69.4	73.4	76.4	73.4
87.5°	43.2	39.2	37.2	34.2	35.2	38.2	37.2	34.2	35.2	28.1	26.1
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: P153524

CATALOG NUMBER: TLM-F04-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1071.7	1070.7	1068.7	1065.6	1064.6	1062.6	1063.6	1060.6	1058.6	1056.6	1053.6
5°	1108.9	1108.9	1102.8	1102.8	1099.8	1098.8	1091.8	1088.8	1082.7	1084.7	1077.7
7.5°	1135.0	1138.0	1131.0	1130.0	1126.0	1125.0	1115.9	1112.9	1107.9	1105.9	1099.8
10°	1154.1	1154.1	1145.1	1138.0	1133.0	1128.0	1118.9	1114.9	1110.9	1111.9	1107.9
12.5°	1169.2	1162.2	1149.1	1139.0	1132.0	1127.0	1119.9	1116.9	1115.9	1122.9	1124.0
15°	1181.3	1171.2	1155.1	1148.1	1142.0	1141.0	1141.0	1144.1	1151.1	1164.2	1174.2
17.5°	1188.3	1182.3	1174.2	1172.2	1182.3	1188.3	1196.3	1205.4	1215.4	1233.5	1244.6
20°	1201.4	1205.4	1211.4	1219.5	1235.5	1250.6	1260.7	1273.7	1285.8	1307.9	1326.0
22.5°	1235.5	1258.7	1277.8	1293.9	1318.0	1339.1	1352.2	1370.3	1379.3	1394.4	1422.5
25°	1279.8	1327.0	1367.2	1401.4	1438.6	1460.7	1478.8	1502.0	1516.0	1541.2	1566.3
27.5°	1266.7	1334.1	1394.4	1457.7	1509.0	1566.3	1606.5	1644.7	1668.8	1706.0	1739.2
30°	1226.5	1306.9	1388.4	1471.8	1553.2	1635.7	1712.1	1781.4	1834.7	1888.0	1942.3
32.5°	1172.2	1264.7	1364.2	1466.8	1573.3	1687.9	1793.5	1898.1	1986.5	2063.9	2139.3
35°	1109.9	1214.4	1318.0	1444.7	1576.3	1722.1	1868.9	2013.7	2148.4	2285.1	2377.6
37.5°	1035.5	1142.0	1257.7	1403.4	1558.3	1738.2	1925.2	2114.2	2305.2	2489.2	2649.0
40°	956.1	1064.6	1186.3	1344.1	1519.0	1728.2	1961.4	2215.7	2478.1	2744.5	2956.7
42.5°	885.7	997.3	1130.0	1289.8	1479.8	1715.1	1990.5	2303.2	2623.9	2953.6	3265.3
45°	817.3	940.0	1079.7	1251.6	1462.7	1725.1	2033.8	2384.6	2754.6	3154.7	3534.7
47.5°	756.0	880.7	1016.4	1204.4	1437.6	1730.2	2076.0	2466.1	2878.2	3311.5	3762.9
50°	700.7	821.4	955.1	1144.1	1398.4	1727.1	2114.2	2539.5	2984.8	3435.2	3938.9
52.5°	646.4	769.1	905.8	1085.8	1350.2	1710.1	2132.3	2599.8	3083.3	3559.9	4080.6
55°	593.1	713.8	851.5	1030.5	1286.8	1665.8	2130.3	2639.0	3161.7	3677.5	4217.3
57.5°	530.8	645.4	780.1	969.1	1219.5	1597.5	2100.1	2657.1	3229.1	3794.1	4381.2
60°	453.4	561.0	690.7	879.7	1131.0	1510.0	2036.8	2647.0	3268.3	3880.6	4520.9
62.5°	357.9	451.4	570.0	755.0	1020.4	1384.3	1918.2	2555.5	3206.0	3868.5	4586.3
63°	337.8	426.3	541.9	724.8	973.2	1350.2	1883.0	2519.3	3175.8	3843.4	4577.2
65°	271.4	328.7	421.2	585.1	814.3	1182.3	1708.0	2333.4	3014.0	3666.4	4446.6
67.5°	208.1	237.3	286.5	401.1	576.1	929.9	1383.3	1977.5	2615.9	3229.1	4025.3
70°	177.9	191.0	212.1	266.4	365.9	587.1	971.1	1474.8	2027.7	2559.6	3275.3
72.5°	161.9	167.9	178.9	202.1	251.3	351.9	619.3	960.1	1379.3	1824.7	2377.6
75°	148.8	153.8	162.9	174.9	193.0	234.2	352.9	587.1	896.7	1198.3	1604.5
77.5°	135.7	138.7	148.8	159.8	171.9	193.0	233.2	337.8	515.7	706.7	967.1
80°	124.7	122.6	129.7	147.8	159.8	171.9	184.0	219.2	293.6	387.0	522.8
82.5°	99.5	101.5	107.6	125.7	130.7	127.7	129.7	135.7	163.9	178.9	267.4
85°	67.4	62.3	61.3	63.3	63.3	60.3	60.3	59.3	65.3	74.4	127.7
87.5°	18.1	9.0	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



TEST NUMBER: P153524

CATALOG NUMBER: TLM-F04-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1051.6	1050.6	1051.6	1046.5	1046.5	1045.5	1044.5	1042.5	1042.5	1038.5	1041.5
5°	1071.7	1069.7	1065.6	1059.6	1056.6	1052.6	1052.6	1048.6	1045.5	1041.5	1042.5
7.5°	1094.8	1095.8	1088.8	1083.7	1081.7	1077.7	1078.7	1072.7	1073.7	1070.7	1068.7
10°	1107.9	1107.9	1109.9	1108.9	1110.9	1110.9	1113.9	1109.9	1107.9	1104.9	1104.9
12.5°	1129.0	1133.0	1141.0	1141.0	1147.1	1149.1	1150.1	1152.1	1148.1	1146.1	1139.0
15°	1181.3	1191.3	1198.3	1208.4	1220.5	1224.5	1224.5	1220.5	1218.5	1215.4	1202.4
17.5°	1267.7	1289.8	1295.9	1311.9	1314.0	1319.0	1333.1	1325.0	1320.0	1298.9	1294.9
20°	1356.2	1384.3	1412.5	1432.6	1442.6	1462.7	1465.8	1461.7	1441.6	1421.5	1412.5
22.5°	1462.7	1505.0	1537.1	1568.3	1583.4	1593.4	1615.6	1610.5	1594.4	1564.3	1552.2
25°	1613.5	1665.8	1700.0	1738.2	1758.3	1768.4	1790.5	1790.5	1773.4	1764.3	1763.3
27.5°	1803.6	1867.9	1924.2	1937.3	1989.5	2001.6	2022.7	2022.7	2006.6	1995.6	2048.9
30°	2014.7	2082.0	2179.5	2244.9	2308.2	2370.6	2369.6	2373.6	2392.7	2402.7	2425.8
32.5°	2225.8	2309.2	2412.8	2554.5	2690.2	2805.9	2955.7	3051.2	3022.0	2940.6	2908.4
35°	2482.1	2574.6	2700.3	2843.1	3091.4	3241.2	3313.5	3364.8	3370.9	3381.9	3405.0
37.5°	2767.7	2922.5	3068.3	3230.1	3367.8	3549.8	3717.7	3852.4	3883.6	3946.9	3910.7
40°	3128.6	3301.5	3454.3	3663.4	3848.4	4067.5	4307.8	4492.8	4567.2	4543.1	4362.1
42.5°	3506.6	3720.7	3899.7	4146.0	4386.2	4675.8	4924.1	5182.4	5228.7	5042.7	4772.3
45°	3854.4	4119.8	4342.0	4598.4	4891.9	5238.7	5570.5	5835.9	5826.9	5508.2	5146.3
47.5°	4167.1	4492.8	4764.2	5098.0	5413.7	5826.9	6207.9	6403.9	6288.3	5911.3	5468.0
50°	4425.4	4831.6	5166.4	5504.2	5905.3	6402.9	6769.9	6880.4	6657.3	6247.1	5780.6
52.5°	4633.5	5143.2	5519.2	5908.3	6415.0	6938.8	7254.4	7213.2	6924.7	6503.4	6039.0
55°	4809.5	5381.5	5829.9	6289.3	6917.6	7400.2	7610.3	7499.7	7096.6	6669.3	6215.9
57.5°	4991.4	5612.7	6115.4	6648.2	7347.9	7762.1	7878.7	7651.5	7178.0	6732.7	6292.3
60°	5173.4	5805.7	6367.7	6961.9	7673.6	8057.7	8025.5	7685.7	7153.9	6686.4	6241.1
62.5°	5296.1	5920.4	6514.5	7154.9	7917.9	8208.5	8011.4	7564.1	7014.1	6504.5	6088.2
63°	5299.1	5924.4	6523.6	7168.0	7945.1	8213.5	7984.3	7520.8	6969.9	6467.3	6043.0
65°	5235.7	5849.0	6443.1	7108.7	7922.0	8097.9	7750.0	7265.5	6717.6	6209.9	5807.8
67.5°	4912.0	5537.3	6062.1	6689.4	7507.8	7558.0	7122.7	6731.7	6239.0	5713.3	5293.0
70°	4259.6	4779.3	5294.0	5817.8	6504.5	6495.4	6086.2	5887.2	5455.9	4856.7	4519.9
72.5°	3387.9	3854.4	4216.3	4567.2	5019.6	4928.1	4664.7	4720.0	4440.5	3993.1	3793.1
75°	2515.3	3028.0	3205.0	3347.7	3538.7	3539.7	3612.1	3769.0	3764.9	3516.6	3264.3
77.5°	1649.7	2210.7	2270.0	2384.6	2613.8	2925.5	3247.2	3593.0	3679.5	3483.4	3110.5
80°	919.9	1503.0	1434.6	1533.1	1780.4	2203.7	2678.2	3060.2	3285.4	3175.8	2780.7
82.5°	470.5	866.6	828.4	965.1	1165.2	1533.1	1846.8	2140.3	2405.7	2390.7	2240.9
85°	244.3	474.5	539.9	611.2	711.8	843.5	962.1	1047.5	1158.1	1353.2	1419.5
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	0.0	72.4	52.3	143.8	205.1
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: P153524

CATALOG NUMBER: TLM-F04-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6	1054.6
2.5°	1042.5	1043.5	1041.5	1041.5	1042.5	1042.5	1040.5
5°	1040.5	1040.5	1038.5	1036.5	1034.5	1034.5	1032.5
7.5°	1063.6	1063.6	1056.6	1053.6	1048.6	1044.5	1042.5
10°	1097.8	1091.8	1083.7	1077.7	1069.7	1060.6	1055.6
12.5°	1132.0	1122.9	1112.9	1103.8	1093.8	1083.7	1078.7
15°	1188.3	1176.2	1163.2	1152.1	1138.0	1122.9	1116.9
17.5°	1274.8	1255.7	1238.6	1222.5	1197.3	1186.3	1174.2
20°	1389.4	1361.2	1339.1	1311.9	1280.8	1270.7	1255.7
22.5°	1528.1	1504.0	1459.7	1439.6	1408.5	1393.4	1396.4
25°	1739.2	1708.0	1656.8	1637.7	1634.7	1601.5	1585.4
27.5°	2014.7	2016.7	1969.4	1918.2	1890.0	1837.7	1771.4
30°	2406.7	2379.6	2324.3	2272.0	2205.7	2107.2	1996.6
32.5°	2881.3	2820.9	2729.5	2631.9	2514.3	2362.5	2207.7
35°	3344.7	3239.2	3093.4	2930.5	2760.6	2571.6	2352.5
37.5°	3751.9	3588.0	3369.8	3182.9	2942.6	2706.3	2438.9
40°	4123.8	3920.8	3639.3	3397.0	3113.5	2809.9	2493.2
42.5°	4483.7	4226.4	3881.6	3553.8	3233.1	2879.2	2519.3
45°	4826.6	4494.8	4085.6	3695.6	3320.6	2924.5	2523.4
47.5°	5090.0	4728.0	4268.6	3798.1	3380.9	2958.7	2523.4
50°	5334.3	4925.1	4408.3	3878.5	3437.2	2981.8	2525.4
52.5°	5524.3	5063.8	4498.8	3935.8	3481.4	2998.9	2534.4
55°	5662.0	5154.3	4559.1	3971.0	3513.6	3023.0	2554.5
57.5°	5758.5	5213.6	4592.3	4002.2	3552.8	3065.2	2610.8
60°	5804.7	5323.2	4647.6	4064.5	3620.2	3154.7	2723.4
62.5°	5769.6	5493.1	4805.5	4170.1	3713.7	3294.4	2903.4
63°	5754.5	5524.3	4848.7	4193.2	3734.8	3324.6	2965.7
65°	5636.9	5555.4	5026.6	4309.8	3835.3	3458.3	3139.6
67.5°	5271.9	5432.8	5176.4	4506.9	4051.5	3783.0	3464.3
70°	4799.4	5250.8	5149.3	4532.0	4189.2	4049.4	3669.4
72.5°	4233.4	4700.9	4606.4	4197.2	4037.4	4052.5	3616.2
75°	3331.6	3682.5	3620.2	3476.4	3508.6	3619.2	3097.4
77.5°	2669.1	2621.9	2478.1	2488.2	2674.2	2803.9	2229.8
80°	2180.5	1765.4	1578.4	1583.4	1908.1	2042.8	1420.5
82.5°	2075.0	1669.8	1360.2	1188.3	1388.4	1337.1	741.9
85°	1477.8	1480.8	1228.5	998.3	967.1	822.4	462.4
87.5°	349.9	280.5	200.1	148.8	156.8	103.5	52.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)