

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: P153527

Luminaire Tested: **TLM-F04-LED-E1-SLR-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153527
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-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (28) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9427.8 lumens
Efficiency: N/A
Efficacy: 92.2 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

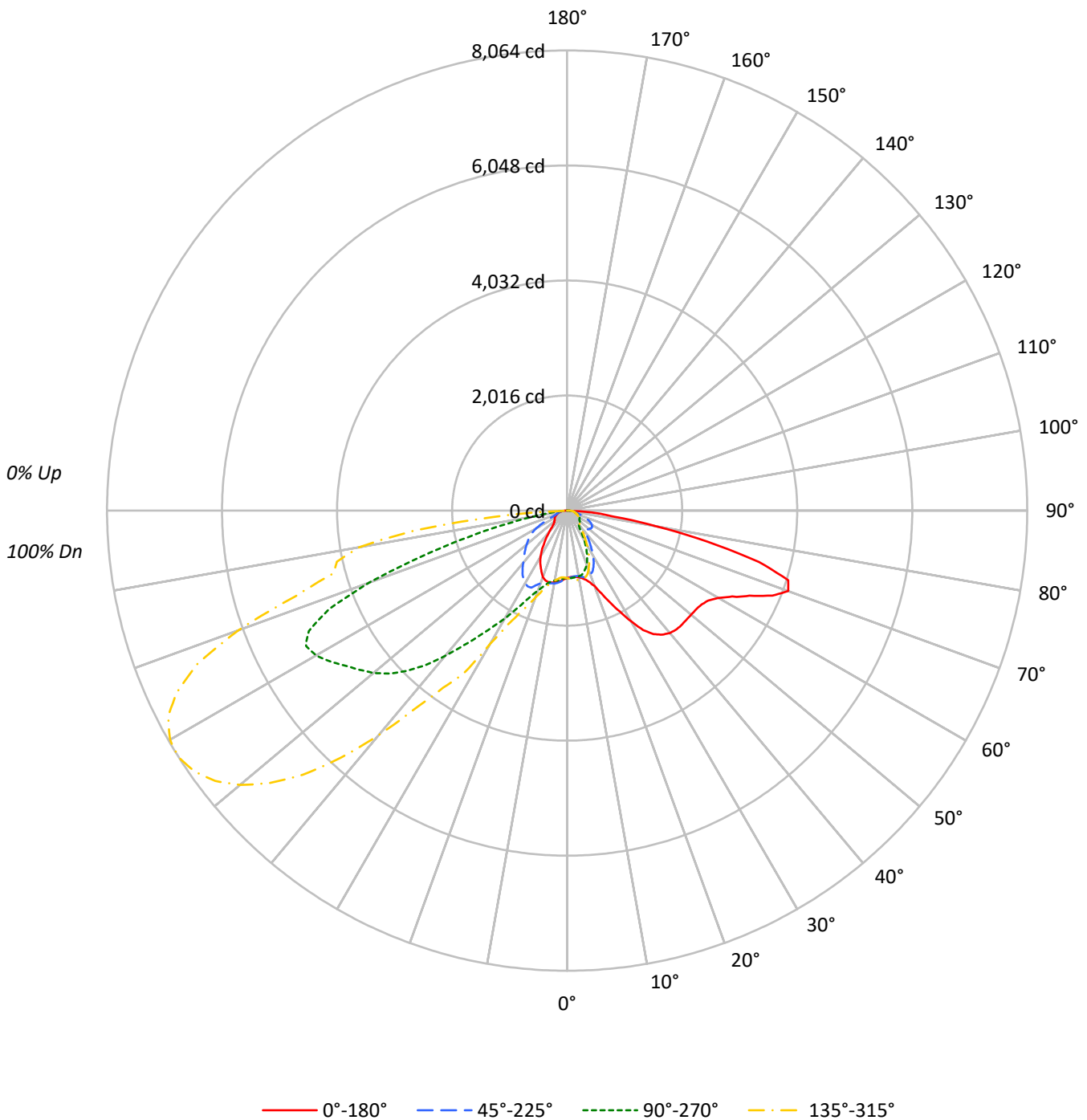
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	19034	19034	19034	19034
5°	18706	19035	19944	19526
10°	19346	19106	20839	20304
15°	20870	18597	21547	21941
20°	24118	17146	21241	25469
25°	31572	14475	19380	31193
30°	41612	11208	17286	40480
35°	51834	7665	13844	52387
40°	58743	6703	10138	69663
45°	64409	7032	7620	90224
50°	70909	7198	7283	110599
55°	80384	7372	7434	132709
60°	98308	8094	8094	163197
65°	134084	8416	8546	189901
70°	193639	8911	9019	172845
75°	216000	9392	9956	111892
80°	147649	10140	11389	54336
85°	95760	12498	13733	26433



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	1.2
10°-20°	359.2	3.8
20°-30°	638.1	6.8
30°-40°	1004.9	10.7
40°-50°	1478.9	15.7
50°-60°	1964.4	20.8
60°-70°	2163.8	23.0
70°-80°	1357.5	14.4
80°-90°	345.8	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°	1112.6	11.8
0°-40°	2117.5	22.5
0°-60°	5560.8	59.0
0°-90°	9427.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9427.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1185	1185	1185	1185	1185	
5°	1160	1180	1237	1211	1160	112
15°	1255	1118	1296	1319	1255	363
25°	1781	817	1093	1760	1781	841
35°	2643	391	706	2671	2643	1638
45°	2835	310	335	3971	2835	2192
55°	2870	263	265	4738	2870	2603
65°	3527	221	225	4996	3527	3551
75°	3480	151	160	1803	3480	3403
85°	520	68	74	143	520	601
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°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1169.0	1172.4	1171.2	1171.2	1173.5	1172.4	1172.4	1173.5	1173.5	1176.9	1181.4
5°	1159.9	1158.8	1156.5	1158.8	1158.8	1158.8	1154.3	1157.7	1158.8	1161.1	1161.1
7.5°	1171.2	1167.8	1163.3	1164.4	1164.4	1162.2	1158.8	1159.9	1158.8	1158.8	1157.7
10°	1185.9	1178.0	1172.4	1172.4	1172.4	1170.1	1164.4	1167.8	1167.8	1166.7	1167.8
12.5°	1211.9	1202.8	1196.1	1193.8	1193.8	1190.4	1185.9	1190.4	1188.2	1188.2	1185.9
15°	1254.8	1244.6	1236.7	1230.0	1231.1	1231.1	1225.4	1222.0	1217.5	1211.9	1200.6
17.5°	1319.2	1307.9	1297.7	1292.1	1293.2	1285.3	1269.5	1253.7	1232.2	1210.8	1187.0
20°	1410.7	1407.3	1393.7	1388.1	1374.5	1355.3	1311.3	1274.0	1232.2	1191.6	1150.9
22.5°	1568.8	1553.0	1539.4	1518.0	1472.8	1419.7	1346.3	1280.8	1215.3	1157.7	1103.5
25°	1781.1	1752.9	1686.2	1620.7	1528.1	1433.3	1333.9	1249.2	1167.8	1092.2	1025.5
27.5°	1990.1	1904.2	1785.6	1667.0	1531.5	1407.3	1283.0	1182.5	1087.6	1005.2	931.8
30°	2243.1	2098.5	1916.6	1729.2	1537.2	1370.0	1220.9	1103.5	993.9	906.9	830.1
32.5°	2480.2	2271.3	2033.0	1786.8	1549.6	1335.0	1149.8	1016.5	903.5	794.0	718.3
35°	2642.9	2371.8	2082.7	1792.4	1519.1	1268.4	1060.5	903.5	790.6	689.0	599.7
37.5°	2740.0	2415.9	2084.9	1751.8	1447.9	1178.0	947.6	791.7	687.8	590.7	520.7
40°	2801.0	2426.0	2055.6	1693.0	1357.6	1063.9	834.7	694.6	599.7	521.8	467.6
42.5°	2830.4	2410.2	2008.1	1618.5	1266.1	962.3	755.6	623.4	541.0	485.7	445.0
45°	2834.9	2382.0	1957.3	1550.7	1184.8	888.9	701.4	594.1	526.3	480.0	439.3
47.5°	2834.9	2357.1	1916.6	1501.0	1131.7	857.2	696.9	606.5	539.9	487.9	439.3
50°	2837.1	2349.2	1899.7	1476.2	1113.6	874.2	735.3	644.9	569.2	501.5	438.2
52.5°	2847.3	2359.4	1913.3	1495.4	1146.4	941.9	807.5	702.5	607.6	517.3	438.2
55°	2869.9	2393.3	1970.9	1562.0	1234.5	1044.7	894.5	764.6	638.1	524.1	431.4
57.5°	2933.1	2479.1	2075.9	1690.8	1384.7	1163.3	973.6	808.7	649.4	518.4	417.9
60°	3059.6	2649.7	2255.5	1871.5	1543.9	1265.0	1019.9	815.5	639.3	500.3	396.4
62.5°	3261.8	2845.0	2473.5	2068.0	1685.1	1321.4	1025.5	798.5	612.2	467.6	364.8
63°	3331.8	2893.6	2519.8	2105.3	1703.2	1326.0	1021.0	791.7	605.4	458.6	360.3
65°	3527.2	3098.0	2680.1	2236.3	1754.0	1327.1	996.2	757.9	573.8	423.5	328.7
67.5°	3892.0	3366.8	2882.3	2339.1	1772.1	1290.9	932.9	694.6	507.1	369.3	289.1
70°	4122.4	3517.1	2960.2	2341.3	1719.0	1188.2	823.4	591.8	422.4	306.1	248.5
72.5°	4062.6	3369.1	2754.7	2130.1	1489.7	992.8	661.8	465.3	329.8	245.1	206.7
75°	3479.8	2804.4	2247.6	1650.1	1126.0	729.6	484.5	332.1	244.0	192.0	172.8
77.5°	2505.1	2018.3	1611.7	1175.7	759.0	472.1	321.9	237.2	185.2	158.1	142.3
80°	1595.9	1183.6	986.0	707.0	443.9	292.5	221.4	179.6	152.5	132.1	122.0
82.5°	833.5	583.9	474.4	361.4	246.2	193.1	162.6	146.8	125.4	109.6	103.9
85°	519.5	344.5	255.3	178.5	123.1	110.7	101.6	99.4	89.2	79.1	75.7
87.5°	58.7	53.1	55.3	35.0	26.0	28.2	27.1	36.1	35.0	26.0	27.1
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°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1176.9	1179.1	1179.1	1182.5	1182.5	1184.8	1187.0	1187.0	1189.3	1190.4	1192.7
5°	1163.3	1163.3	1163.3	1167.8	1169.0	1175.7	1178.0	1180.3	1182.5	1190.4	1194.9
7.5°	1159.9	1155.4	1157.7	1157.7	1161.1	1166.7	1172.4	1175.7	1179.1	1189.3	1196.1
10°	1166.7	1163.3	1159.9	1159.9	1161.1	1163.3	1167.8	1171.2	1173.5	1183.6	1189.3
12.5°	1184.8	1176.9	1170.1	1164.4	1159.9	1158.8	1156.5	1157.7	1159.9	1165.6	1173.5
15°	1188.2	1173.5	1158.8	1144.1	1132.8	1126.0	1120.4	1118.1	1118.1	1121.5	1130.6
17.5°	1165.6	1140.7	1119.3	1100.1	1087.6	1075.2	1069.6	1065.1	1062.8	1067.3	1068.4
20°	1117.0	1087.6	1058.3	1035.7	1013.1	1009.7	1000.7	1002.9	1005.2	1012.0	1015.4
22.5°	1050.4	1015.4	979.2	955.5	937.4	921.6	911.5	916.0	919.4	926.1	929.5
25°	969.1	918.2	879.8	856.1	836.9	823.4	812.1	816.6	812.1	820.0	832.4
27.5°	873.1	813.2	772.5	745.4	731.9	720.6	709.3	709.3	720.6	720.6	730.7
30°	756.7	712.7	659.6	631.4	614.4	607.6	606.5	604.2	612.2	616.7	628.0
32.5°	647.2	593.0	542.1	515.0	500.3	492.4	493.6	494.7	498.1	504.9	522.9
35°	536.5	489.0	452.9	422.4	407.7	393.0	393.0	390.8	394.2	402.1	423.5
37.5°	465.3	423.5	395.3	371.6	356.9	347.9	340.0	336.6	336.6	340.0	347.9
40°	425.8	395.3	369.3	349.0	335.4	327.5	323.0	319.6	317.4	317.4	318.5
42.5°	407.7	376.1	350.1	332.1	321.9	317.4	316.2	315.1	311.7	310.6	309.5
45°	398.7	362.5	333.2	318.5	310.6	308.3	309.5	309.5	308.3	306.1	301.6
47.5°	391.9	350.1	320.8	307.2	303.8	303.8	303.8	303.8	302.7	301.6	298.2
50°	380.6	330.9	299.3	289.1	286.9	286.9	288.0	288.0	290.3	288.0	285.7
52.5°	368.2	312.9	281.2	272.2	271.1	269.9	269.9	269.9	271.1	271.1	269.9
55°	354.6	299.3	272.2	265.4	266.5	265.4	264.3	263.2	263.2	262.0	259.8
57.5°	341.1	288.0	265.4	260.9	262.0	262.0	259.8	257.5	256.4	253.0	250.7
60°	320.8	272.2	251.9	249.6	253.0	253.0	253.0	251.9	251.9	250.7	245.1
62.5°	293.7	249.6	233.8	234.9	236.1	238.3	238.3	238.3	238.3	236.1	230.4
63°	288.0	245.1	230.4	230.4	233.8	233.8	234.9	233.8	234.9	232.7	225.9
65°	265.4	230.4	219.1	220.2	222.5	222.5	222.5	221.4	221.4	218.0	214.6
67.5°	239.4	212.3	205.6	206.7	207.8	210.1	208.9	208.9	210.1	207.8	204.4
70°	210.1	193.1	188.6	189.7	190.9	190.9	189.7	189.7	190.9	188.6	185.2
72.5°	187.5	180.7	177.3	177.3	175.1	175.1	172.8	171.7	170.5	170.5	167.2
75°	158.1	157.0	158.1	160.4	158.1	155.9	154.7	151.3	149.1	149.1	148.0
77.5°	135.5	135.5	137.8	141.2	142.3	142.3	138.9	133.3	132.1	132.1	132.1
80°	117.5	115.2	115.2	118.6	122.0	120.8	115.2	109.6	109.6	115.2	116.3
82.5°	102.8	102.8	99.4	100.5	99.4	98.3	92.6	89.2	88.1	92.6	97.1
85°	81.3	82.4	81.3	80.2	79.1	75.7	71.2	67.8	66.6	71.2	77.9
87.5°	32.8	31.6	30.5	31.6	30.5	32.8	31.6	29.4	28.2	31.6	38.4
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°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1193.8	1196.1	1198.3	1198.3	1200.6	1199.5	1200.6	1201.7	1201.7	1202.8	1202.8
5°	1200.6	1204.0	1208.5	1213.0	1214.1	1217.5	1220.9	1218.7	1222.0	1226.6	1226.6
7.5°	1202.8	1210.8	1214.1	1220.9	1222.0	1226.6	1234.5	1228.8	1235.6	1239.0	1240.1
10°	1199.5	1207.4	1213.0	1220.9	1224.3	1232.2	1240.1	1237.9	1245.8	1251.4	1252.5
12.5°	1179.1	1187.0	1199.5	1210.8	1219.8	1232.2	1246.9	1242.4	1253.7	1260.4	1263.8
15°	1139.6	1147.5	1161.1	1179.1	1196.1	1215.3	1234.5	1237.9	1249.2	1257.1	1260.4
17.5°	1077.5	1087.6	1102.3	1121.5	1143.0	1175.7	1200.6	1213.0	1228.8	1233.3	1239.0
20°	1019.9	1030.0	1039.1	1050.4	1066.2	1097.8	1130.6	1155.4	1175.7	1192.7	1197.2
22.5°	943.1	952.1	963.4	972.4	983.7	1006.3	1033.4	1061.7	1093.3	1103.5	1114.8
25°	850.5	856.1	871.9	877.6	885.5	904.7	926.1	946.5	977.0	998.4	1004.1
27.5°	751.1	756.7	771.4	774.8	785.0	803.0	818.8	826.7	855.0	877.6	895.6
30°	635.9	650.6	668.6	670.9	682.2	693.5	708.2	716.1	742.0	765.8	788.3
32.5°	536.5	551.2	565.8	574.9	580.5	589.6	604.2	612.2	637.0	658.5	681.0
35°	434.8	452.9	468.7	481.1	485.7	497.0	508.2	516.2	542.1	561.3	577.1
37.5°	358.0	371.6	388.5	400.9	413.4	421.3	434.8	446.1	461.9	472.1	489.0
40°	320.8	327.5	336.6	346.7	356.9	365.9	376.1	385.1	395.3	408.9	420.1
42.5°	308.3	309.5	309.5	312.9	318.5	323.0	332.1	338.8	345.6	355.8	361.4
45°	299.3	298.2	295.9	293.7	294.8	297.0	302.7	307.2	315.1	319.6	320.8
47.5°	294.8	290.3	285.7	282.4	281.2	282.4	286.9	291.4	295.9	299.3	300.4
50°	280.1	276.7	269.9	265.4	263.2	265.4	271.1	273.3	277.8	281.2	282.4
52.5°	265.4	260.9	256.4	251.9	251.9	253.0	257.5	262.0	266.5	267.7	269.9
55°	256.4	249.6	245.1	241.7	239.4	242.8	246.2	251.9	257.5	258.6	260.9
57.5°	247.3	240.6	236.1	232.7	230.4	233.8	237.2	245.1	251.9	251.9	251.9
60°	241.7	236.1	229.3	225.9	222.5	225.9	230.4	238.3	245.1	244.0	242.8
62.5°	225.9	220.2	216.9	216.9	213.5	219.1	223.6	232.7	233.8	231.5	229.3
63°	221.4	216.9	214.6	214.6	212.3	218.0	222.5	230.4	230.4	228.1	225.9
65°	210.1	206.7	204.4	206.7	206.7	212.3	213.5	219.1	218.0	214.6	213.5
67.5°	201.0	198.8	196.5	196.5	196.5	197.7	198.8	201.0	199.9	198.8	199.9
70°	186.4	185.2	183.0	183.0	181.8	181.8	181.8	183.0	183.0	184.1	185.2
72.5°	168.3	166.0	166.0	167.2	164.9	166.0	167.2	166.0	168.3	168.3	169.4
75°	148.0	146.8	149.1	151.3	150.2	150.2	151.3	151.3	152.5	152.5	153.6
77.5°	132.1	133.3	134.4	136.7	137.8	137.8	137.8	136.7	137.8	137.8	138.9
80°	117.5	119.7	122.0	124.2	125.4	125.4	125.4	124.2	124.2	124.2	124.2
82.5°	106.2	109.6	111.8	112.9	112.9	112.9	112.9	112.9	112.9	110.7	108.4
85°	89.2	96.0	96.0	97.1	93.7	91.5	89.2	90.4	91.5	87.0	85.8
87.5°	45.2	45.2	47.4	49.7	50.8	50.8	57.6	54.2	53.1	52.0	49.7
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: P153527

CATALOG NUMBER: TLM-F04-LED-E1-SLR-7060

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1204.0	1202.8	1205.1	1202.8	1204.0	1205.1	1202.8	1206.2	1208.5	1205.1	1201.7
5°	1228.8	1228.8	1234.5	1236.7	1237.9	1244.6	1241.2	1243.5	1245.8	1244.6	1245.8
7.5°	1244.6	1249.2	1254.8	1260.4	1261.6	1267.2	1266.1	1269.5	1271.7	1277.4	1277.4
10°	1258.2	1263.8	1271.7	1277.4	1283.0	1287.6	1289.8	1296.6	1297.7	1302.2	1302.2
12.5°	1270.6	1277.4	1285.3	1294.3	1300.0	1309.0	1310.1	1320.3	1323.7	1324.8	1321.4
15°	1268.4	1276.3	1285.3	1295.5	1305.6	1316.9	1323.7	1333.9	1339.5	1341.8	1336.1
17.5°	1246.9	1253.7	1265.0	1278.5	1290.9	1305.6	1318.0	1332.7	1341.8	1344.0	1342.9
20°	1205.1	1209.6	1224.3	1242.4	1257.1	1279.6	1297.7	1320.3	1335.0	1346.3	1349.7
22.5°	1122.7	1134.0	1148.6	1169.0	1190.4	1218.7	1244.6	1277.4	1309.0	1336.1	1363.2
25°	1023.3	1043.6	1066.2	1093.3	1119.3	1148.6	1178.0	1215.3	1261.6	1318.0	1382.4
27.5°	922.7	957.8	986.0	1021.0	1051.5	1080.9	1113.6	1154.3	1205.1	1272.9	1355.3
30°	821.1	860.6	891.1	931.8	972.4	1012.0	1044.7	1087.6	1137.3	1206.2	1296.6
32.5°	712.7	752.2	788.3	825.6	870.8	918.2	957.8	1010.8	1063.9	1135.1	1226.6
35°	600.9	635.9	666.4	705.9	755.6	806.4	858.4	919.4	977.0	1051.5	1148.6
37.5°	503.7	528.6	557.9	593.0	631.4	685.6	744.3	816.6	882.1	963.4	1062.8
40°	423.5	437.1	454.0	483.4	518.4	571.5	629.1	705.9	785.0	874.2	970.2
42.5°	361.4	368.2	372.7	391.9	420.1	472.1	527.4	602.0	689.0	786.1	883.2
45°	320.8	324.1	325.3	335.4	355.8	400.9	458.6	521.8	605.4	700.2	801.9
47.5°	301.6	304.9	307.2	309.5	321.9	356.9	408.9	468.7	545.5	632.5	736.4
50°	285.7	289.1	292.5	291.4	297.0	319.6	363.7	419.0	491.3	571.5	674.3
52.5°	269.9	272.2	272.2	272.2	275.6	290.3	321.9	372.7	439.3	515.0	616.7
55°	260.9	263.2	264.3	265.4	266.5	274.5	298.2	338.8	396.4	466.5	557.9
57.5°	251.9	253.0	255.3	256.4	258.6	263.2	277.8	307.2	355.8	414.5	491.3
60°	244.0	246.2	250.7	251.9	254.1	255.3	262.0	280.1	311.7	356.9	419.0
62.5°	231.5	234.9	239.4	240.6	242.8	244.0	245.1	255.3	269.9	297.0	343.3
63°	228.1	231.5	237.2	238.3	239.4	239.4	240.6	247.3	260.9	284.6	318.5
65°	215.7	220.2	223.6	224.8	225.9	225.9	224.8	227.0	228.1	238.3	258.6
67.5°	202.2	205.6	207.8	208.9	207.8	208.9	207.8	205.6	203.3	205.6	214.6
70°	188.6	190.9	190.9	192.0	193.1	194.3	192.0	189.7	187.5	186.4	192.0
72.5°	172.8	175.1	175.1	176.2	176.2	178.5	178.5	177.3	177.3	178.5	179.6
75°	157.0	159.3	158.1	160.4	160.4	163.8	163.8	164.9	167.2	166.0	164.9
77.5°	142.3	143.4	143.4	144.6	145.7	151.3	154.7	155.9	155.9	153.6	151.3
80°	126.5	126.5	124.2	123.1	124.2	129.9	136.7	137.8	141.2	140.0	141.2
82.5°	106.2	101.6	98.3	98.3	100.5	103.9	106.2	108.4	110.7	110.7	112.9
85°	81.3	76.8	73.4	74.5	77.9	79.1	77.9	77.9	82.4	85.8	82.4
87.5°	48.6	44.0	41.8	38.4	39.5	42.9	41.8	38.4	39.5	31.6	29.4
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: P153527

CATALOG NUMBER: TLM-F04-LED-E1-SLR-7060

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1204.0	1202.8	1200.6	1197.2	1196.1	1193.8	1194.9	1191.6	1189.3	1187.0	1183.6
5°	1245.8	1245.8	1239.0	1239.0	1235.6	1234.5	1226.6	1223.2	1216.4	1218.7	1210.8
7.5°	1275.1	1278.5	1270.6	1269.5	1265.0	1263.8	1253.7	1250.3	1244.6	1242.4	1235.6
10°	1296.6	1296.6	1286.4	1278.5	1272.9	1267.2	1257.1	1252.5	1248.0	1249.2	1244.6
12.5°	1313.5	1305.6	1290.9	1279.6	1271.7	1266.1	1258.2	1254.8	1253.7	1261.6	1262.7
15°	1327.1	1315.8	1297.7	1289.8	1283.0	1281.9	1281.9	1285.3	1293.2	1307.9	1319.2
17.5°	1335.0	1328.2	1319.2	1316.9	1328.2	1335.0	1344.0	1354.2	1365.5	1385.8	1398.2
20°	1349.7	1354.2	1361.0	1370.0	1388.1	1405.0	1416.3	1431.0	1444.5	1469.4	1489.7
22.5°	1388.1	1414.1	1435.5	1453.6	1480.7	1504.4	1519.1	1539.4	1549.6	1566.5	1598.1
25°	1437.8	1490.9	1536.0	1574.4	1616.2	1641.1	1661.4	1687.4	1703.2	1731.4	1759.7
27.5°	1423.1	1498.8	1566.5	1637.7	1695.3	1759.7	1804.8	1847.8	1874.9	1916.6	1953.9
30°	1377.9	1468.3	1559.7	1653.5	1745.0	1837.6	1923.4	2001.4	2061.2	2121.1	2182.1
32.5°	1316.9	1420.8	1532.6	1647.8	1767.6	1896.3	2014.9	2132.4	2231.8	2318.7	2403.4
35°	1246.9	1364.4	1480.7	1623.0	1771.0	1934.7	2099.6	2262.3	2413.6	2567.2	2671.1
37.5°	1163.3	1283.0	1412.9	1576.7	1750.6	1952.8	2162.9	2375.2	2589.8	2796.5	2976.1
40°	1074.1	1196.1	1332.7	1510.1	1706.6	1941.5	2203.5	2489.3	2784.1	3083.4	3321.7
42.5°	995.0	1120.4	1269.5	1449.1	1662.5	1926.8	2236.3	2587.5	2947.8	3318.3	3668.4
45°	918.2	1056.0	1213.0	1406.1	1643.3	1938.1	2284.8	2679.0	3094.6	3544.2	3971.1
47.5°	849.3	989.4	1141.9	1353.1	1615.1	1943.8	2332.3	2770.5	3233.6	3720.4	4227.5
50°	787.2	922.7	1073.0	1285.3	1571.0	1940.4	2375.2	2853.0	3353.3	3859.3	4425.1
52.5°	726.2	864.0	1017.6	1219.8	1516.8	1921.2	2395.5	2920.7	3464.0	3999.3	4584.4
55°	666.4	801.9	956.6	1157.7	1445.7	1871.5	2393.3	2964.8	3552.1	4131.5	4738.0
57.5°	596.3	725.1	876.4	1088.8	1370.0	1794.7	2359.4	2985.1	3627.7	4262.5	4922.1
60°	509.4	630.2	775.9	988.3	1270.6	1696.4	2288.2	2973.8	3671.8	4359.6	5079.1
62.5°	402.1	507.1	640.4	848.2	1146.4	1555.2	2155.0	2871.0	3601.8	4346.1	5152.5
63°	379.5	478.9	608.8	814.3	1093.3	1516.8	2115.4	2830.4	3567.9	4317.8	5142.3
65°	304.9	369.3	473.2	657.3	914.8	1328.2	1918.9	2621.4	3386.0	4119.0	4995.5
67.5°	233.8	266.5	321.9	450.6	647.2	1044.7	1554.1	2221.6	2938.8	3627.7	4522.3
70°	199.9	214.6	238.3	299.3	411.1	659.6	1091.0	1656.9	2278.1	2875.5	3679.7
72.5°	181.8	188.6	201.0	227.0	282.4	395.3	695.7	1078.6	1549.6	2049.9	2671.1
75°	167.2	172.8	183.0	196.5	216.9	263.2	396.4	659.6	1007.5	1346.3	1802.6
77.5°	152.5	155.9	167.2	179.6	193.1	216.9	262.0	379.5	579.4	794.0	1086.5
80°	140.0	137.8	145.7	166.0	179.6	193.1	206.7	246.2	329.8	434.8	587.3
82.5°	111.8	114.1	120.8	141.2	146.8	143.4	145.7	152.5	184.1	201.0	300.4
85°	75.7	70.0	68.9	71.2	71.2	67.8	67.8	66.6	73.4	83.6	143.4
87.5°	20.3	10.2	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: P153527

CATALOG NUMBER: TLM-F04-LED-E1-SLR-7060

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1181.4	1180.3	1181.4	1175.7	1175.7	1174.6	1173.5	1171.2	1171.2	1166.7	1170.1
5°	1204.0	1201.7	1197.2	1190.4	1187.0	1182.5	1182.5	1178.0	1174.6	1170.1	1171.2
7.5°	1230.0	1231.1	1223.2	1217.5	1215.3	1210.8	1211.9	1205.1	1206.2	1202.8	1200.6
10°	1244.6	1244.6	1246.9	1245.8	1248.0	1248.0	1251.4	1246.9	1244.6	1241.2	1241.2
12.5°	1268.4	1272.9	1281.9	1281.9	1288.7	1290.9	1292.1	1294.3	1289.8	1287.6	1279.6
15°	1327.1	1338.4	1346.3	1357.6	1371.1	1375.7	1375.7	1371.1	1368.9	1365.5	1350.8
17.5°	1424.2	1449.1	1455.8	1473.9	1476.2	1481.8	1497.6	1488.6	1482.9	1459.2	1454.7
20°	1523.6	1555.2	1586.9	1609.4	1620.7	1643.3	1646.7	1642.2	1619.6	1597.0	1586.9
22.5°	1643.3	1690.8	1726.9	1761.9	1778.9	1790.2	1815.0	1809.4	1791.3	1757.4	1743.8
25°	1812.7	1871.5	1909.9	1952.8	1975.4	1986.7	2011.5	2011.5	1992.3	1982.2	1981.0
27.5°	2026.2	2098.5	2161.7	2176.4	2235.2	2248.7	2272.4	2272.4	2254.4	2241.9	2301.8
30°	2263.4	2339.1	2448.6	2522.0	2593.2	2663.2	2662.1	2666.6	2688.1	2699.3	2725.3
32.5°	2500.6	2594.3	2710.6	2869.9	3022.4	3152.3	3320.5	3427.8	3395.1	3303.6	3267.5
35°	2788.6	2892.5	3033.7	3194.0	3473.0	3641.3	3722.6	3780.2	3787.0	3799.4	3825.4
37.5°	3109.3	3283.3	3447.0	3628.9	3783.6	3988.0	4176.6	4328.0	4363.0	4434.2	4393.5
40°	3514.8	3709.1	3880.7	4115.7	4323.5	4569.7	4839.6	5047.4	5131.0	5103.9	4900.6
42.5°	3939.5	4180.0	4381.1	4657.8	4927.7	5253.0	5532.0	5822.2	5874.2	5665.2	5361.4
45°	4330.3	4628.4	4878.0	5166.0	5495.8	5885.5	6258.2	6556.4	6546.2	6188.2	5781.6
47.5°	4681.5	5047.4	5352.4	5727.4	6082.0	6546.2	6974.3	7194.5	7064.6	6641.1	6143.0
50°	4971.8	5428.1	5804.2	6183.7	6634.3	7193.4	7605.6	7729.8	7479.1	7018.3	6494.2
52.5°	5205.6	5778.2	6200.6	6637.7	7206.9	7795.4	8150.0	8103.7	7779.5	7306.3	6784.5
55°	5403.2	6045.9	6549.6	7065.7	7771.6	8313.8	8549.8	8425.6	7972.7	7492.7	6983.3
57.5°	5607.6	6305.6	6870.3	7468.9	8255.0	8720.4	8851.4	8596.1	8064.2	7563.8	7069.1
60°	5812.1	6522.5	7153.8	7821.3	8621.0	9052.4	9016.3	8634.5	8037.1	7511.9	7011.5
62.5°	5949.9	6651.2	7318.7	8038.2	8895.4	9221.8	9000.5	8497.9	7880.1	7307.4	6839.9
63°	5953.2	6655.8	7328.9	8052.9	8925.9	9227.5	8970.0	8449.3	7830.4	7265.6	6789.0
65°	5882.1	6571.0	7238.5	7986.2	8899.9	9097.6	8706.8	8162.4	7546.9	6976.5	6524.7
67.5°	5518.4	6220.9	6810.5	7515.3	8434.6	8491.1	8002.0	7562.7	7009.3	6418.6	5946.5
70°	4785.4	5369.3	5947.6	6536.0	7307.4	7297.3	6837.6	6614.0	6129.4	5456.3	5077.9
72.5°	3806.2	4330.3	4736.8	5131.0	5639.3	5536.5	5240.6	5302.7	4988.7	4486.1	4261.4
75°	2825.8	3401.9	3600.6	3761.0	3975.6	3976.7	4058.1	4234.2	4229.7	3950.8	3667.3
77.5°	1853.4	2483.6	2550.3	2679.0	2936.5	3286.7	3648.1	4036.6	4133.7	3913.5	3494.5
80°	1033.4	1688.5	1611.7	1722.4	2000.2	2475.7	3008.8	3438.0	3691.0	3567.9	3124.0
82.5°	528.6	973.6	930.7	1084.3	1309.0	1722.4	2074.8	2404.6	2702.7	2685.8	2517.5
85°	274.5	533.1	606.5	686.7	799.6	947.6	1080.9	1176.9	1301.1	1520.2	1594.8
87.5°	0.0	0.0	0.0	0.0	0.0	1.1	0.0	81.3	58.7	161.5	230.4
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: P153527

CATALOG NUMBER: TLM-F04-LED-E1-SLR-7060

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8	1184.8
2.5°	1171.2	1172.4	1170.1	1170.1	1171.2	1171.2	1169.0
5°	1169.0	1169.0	1166.7	1164.4	1162.2	1162.2	1159.9
7.5°	1194.9	1194.9	1187.0	1183.6	1178.0	1173.5	1171.2
10°	1233.3	1226.6	1217.5	1210.8	1201.7	1191.6	1185.9
12.5°	1271.7	1261.6	1250.3	1240.1	1228.8	1217.5	1211.9
15°	1335.0	1321.4	1306.8	1294.3	1278.5	1261.6	1254.8
17.5°	1432.1	1410.7	1391.5	1373.4	1345.2	1332.7	1319.2
20°	1560.9	1529.3	1504.4	1473.9	1438.9	1427.6	1410.7
22.5°	1716.7	1689.6	1639.9	1617.3	1582.3	1565.4	1568.8
25°	1953.9	1918.9	1861.3	1839.8	1836.5	1799.2	1781.1
27.5°	2263.4	2265.6	2212.6	2155.0	2123.3	2064.6	1990.1
30°	2703.9	2673.4	2611.3	2552.5	2478.0	2367.3	2243.1
32.5°	3237.0	3169.2	3066.4	2956.9	2824.7	2654.2	2480.2
35°	3757.6	3639.0	3475.3	3292.3	3101.4	2889.1	2642.9
37.5°	4215.0	4031.0	3785.9	3575.8	3305.9	3040.4	2740.0
40°	4632.9	4404.8	4088.6	3816.4	3497.9	3156.8	2801.0
42.5°	5037.3	4748.1	4360.7	3992.5	3632.3	3234.7	2830.4
45°	5422.4	5049.7	4590.0	4151.8	3730.5	3285.5	2834.9
47.5°	5718.3	5311.7	4795.6	4267.0	3798.3	3323.9	2834.9
50°	5992.8	5533.1	4952.6	4357.4	3861.5	3349.9	2837.1
52.5°	6206.2	5689.0	5054.2	4421.7	3911.2	3369.1	2847.3
55°	6361.0	5790.6	5122.0	4461.3	3947.4	3396.2	2869.9
57.5°	6469.4	5857.2	5159.3	4496.3	3991.4	3443.6	2933.1
60°	6521.4	5980.4	5221.4	4566.3	4067.1	3544.2	3059.6
62.5°	6481.8	6171.2	5398.7	4684.9	4172.1	3701.2	3261.8
63°	6464.9	6206.2	5447.3	4710.9	4195.8	3735.0	3331.8
65°	6332.7	6241.3	5647.2	4841.9	4308.8	3885.3	3527.2
67.5°	5922.8	6103.5	5815.5	5063.3	4551.6	4250.1	3892.0
70°	5391.9	5899.0	5785.0	5091.5	4706.4	4549.4	4122.4
72.5°	4756.0	5281.2	5175.1	4715.4	4535.8	4552.7	4062.6
75°	3742.9	4137.1	4067.1	3905.6	3941.7	4066.0	3479.8
77.5°	2998.6	2945.6	2784.1	2795.3	3004.3	3150.0	2505.1
80°	2449.7	1983.3	1773.2	1778.9	2143.7	2295.0	1595.9
82.5°	2331.2	1876.0	1528.1	1335.0	1559.7	1502.1	833.5
85°	1660.3	1663.7	1380.2	1121.5	1086.5	923.9	519.5
87.5°	393.0	315.1	224.8	167.2	176.2	116.3	58.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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