

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: P152942

Luminaire Tested: **TLM-E03-LED-E1-SLL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152942
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-E03-LED-E1-SLL-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (63) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8565.3 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
CIE Type: Direct

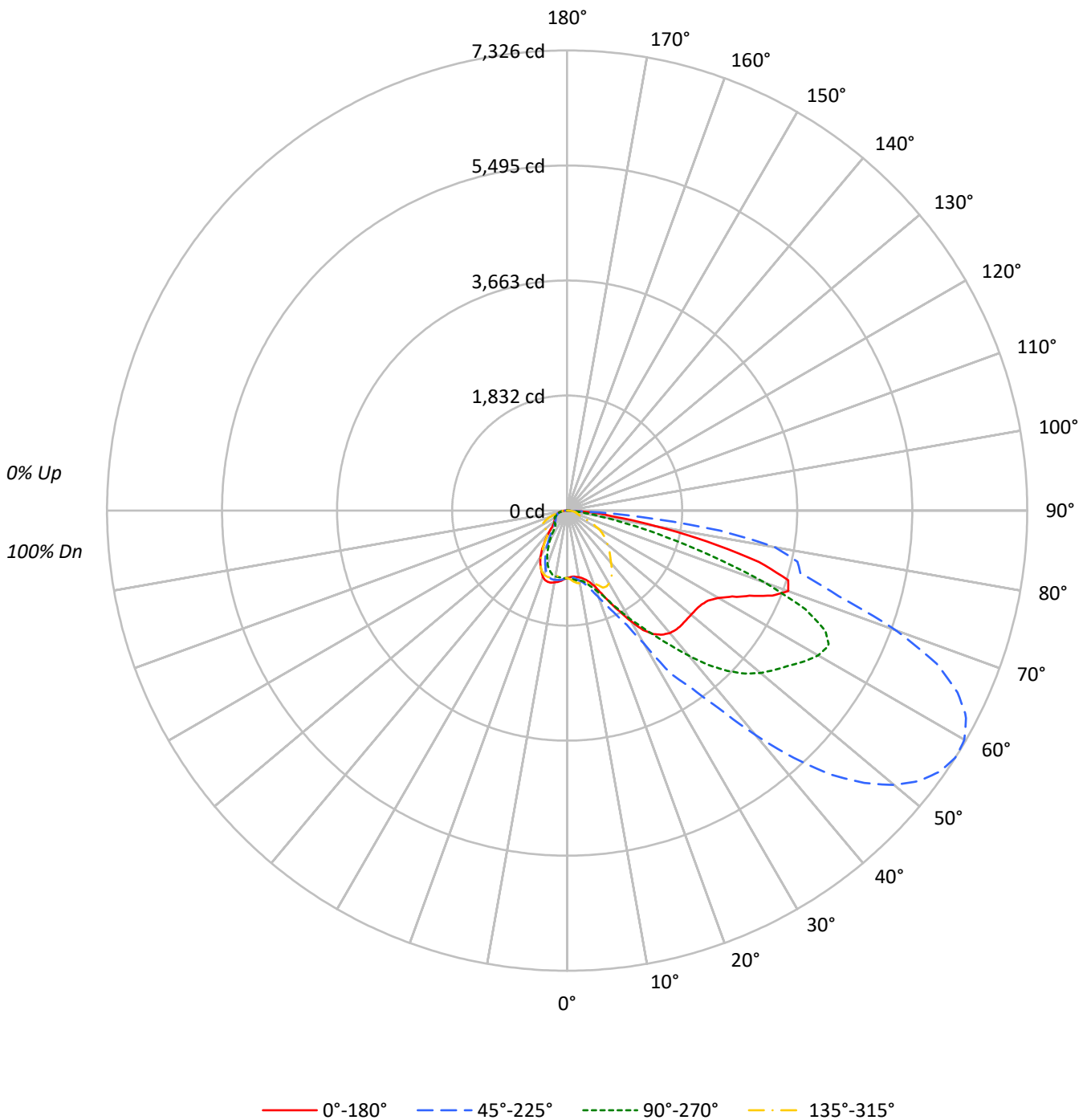
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-E03-LED-E1-SLL-7060

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	105	99	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	23173	23173	23173	23173
5°	22773	23771	24281	23172
10°	23552	24719	25368	23261
15°	25407	26711	26230	22639
20°	29361	31006	25858	20875
25°	38438	37974	23594	17623
30°	50656	49279	21042	13647
35°	63102	63775	16854	9330
40°	71513	84808	12343	8161
45°	78411	109839	9280	8561
50°	86327	134645	8865	8765
55°	97859	161559	9049	8974
60°	119682	198676	9851	9851
65°	163235	231187	10402	10244
70°	235741	210425	10977	10851
75°	262956	136219	12119	11437
80°	179750	66152	13860	12335
85°	116586	32185	16722	15215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	1.2
10°-20°	326.3	3.8
20°-30°	579.7	6.8
30°-40°	912.9	10.7
40°-50°	1343.6	15.7
50°-60°	1784.6	20.8
60°-70°	1965.8	23.0
70°-80°	1233.3	14.4
80°-90°	314.1	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°	1010.9	11.8
0°-40°	1923.8	22.5
0°-60°	5052.0	59.0
0°-90°	8565.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8565.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1076	1076	1076	1076	1076	
5°	1054	1100	1124	1072	1054	102
15°	1140	1198	1177	1016	1140	330
25°	1618	1599	993	742	1618	764
35°	2401	2427	641	355	2401	1488
45°	2576	3608	305	281	2576	1991
55°	2607	4304	241	239	2607	2365
65°	3204	4538	204	201	3204	3226
75°	3161	1638	146	138	3161	3092
85°	472	130	68	62	472	546
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°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1062.0	1064.1	1064.1	1063.0	1063.0	1065.1	1064.1	1063.0	1060.0	1064.1	1064.1
5°	1053.8	1055.9	1055.9	1057.9	1060.0	1062.0	1062.0	1064.1	1063.0	1067.1	1070.2
7.5°	1064.1	1066.1	1070.2	1075.4	1078.4	1085.6	1085.6	1090.8	1092.8	1095.9	1094.9
10°	1077.4	1082.5	1091.8	1100.0	1106.1	1114.4	1120.5	1127.7	1127.7	1130.8	1132.8
12.5°	1101.0	1106.1	1116.4	1126.7	1135.9	1146.2	1155.4	1162.6	1169.8	1171.8	1175.9
15°	1140.0	1146.2	1161.6	1175.9	1187.2	1200.5	1212.9	1227.2	1240.6	1243.6	1245.7
17.5°	1198.5	1210.8	1222.1	1247.7	1264.2	1281.6	1301.1	1321.6	1325.7	1347.3	1352.4
20°	1281.6	1297.0	1307.3	1339.1	1366.8	1389.3	1418.1	1441.7	1450.9	1471.4	1492.0
22.5°	1425.3	1422.2	1437.6	1469.4	1489.9	1535.1	1559.7	1584.3	1596.6	1627.4	1643.8
25°	1618.2	1634.6	1668.4	1671.5	1691.0	1743.4	1775.2	1799.8	1800.8	1810.0	1827.5
27.5°	1808.0	1875.7	1929.1	1957.8	2010.1	2058.4	2056.3	2091.2	2036.8	2048.1	2064.5
30°	2037.8	2150.7	2251.3	2319.0	2372.4	2428.8	2456.5	2476.0	2452.4	2442.1	2422.6
32.5°	2253.3	2411.3	2566.3	2686.3	2785.9	2879.3	2940.8	2968.5	3001.4	3084.5	3114.2
35°	2401.1	2624.8	2817.7	2991.1	3157.3	3306.1	3413.9	3475.4	3451.8	3440.5	3434.4
37.5°	2489.3	2762.3	3003.4	3248.6	3439.5	3662.2	3829.4	3991.6	4028.5	3963.8	3932.0
40°	2544.7	2868.0	3177.8	3467.2	3714.5	4001.8	4209.1	4452.3	4637.0	4661.6	4585.7
42.5°	2571.4	2938.8	3300.0	3627.3	3961.8	4313.7	4576.4	4870.9	5146.9	5336.8	5289.6
45°	2575.5	2984.9	3389.2	3772.0	4170.1	4587.7	4926.3	5252.6	5622.0	5947.3	5956.5
47.5°	2575.5	3019.8	3450.8	3876.6	4356.8	4825.8	5195.2	5581.0	6033.5	6418.3	6536.3
50°	2577.6	3043.4	3508.3	3958.7	4499.5	5026.9	5444.5	5900.1	6376.2	6794.9	7022.7
52.5°	2586.8	3060.9	3553.4	4017.2	4591.8	5168.5	5638.4	6163.8	6637.9	7067.8	7362.3
55°	2607.3	3085.5	3586.2	4053.1	4653.4	5260.8	5779.0	6344.4	6807.2	7243.3	7654.7
57.5°	2664.8	3128.6	3626.3	4084.9	4687.2	5321.4	5877.5	6422.4	6871.8	7326.4	7809.7
60°	2779.7	3219.9	3695.0	4148.5	4743.7	5433.2	5924.7	6370.1	6824.6	7301.8	7844.6
62.5°	2963.4	3362.5	3790.4	4256.3	4904.8	5606.6	5888.8	6214.1	6638.9	7159.1	7720.4
63°	3027.0	3393.3	3812.0	4279.9	4948.9	5638.4	5873.4	6167.9	6600.9	7114.0	7676.3
65°	3204.5	3529.8	3914.6	4398.9	5130.5	5670.3	5753.4	5927.8	6338.3	6856.4	7415.7
67.5°	3536.0	3861.2	4135.2	4600.0	5283.4	5545.1	5380.9	5402.4	5831.4	6368.0	6870.8
70°	3745.3	4133.2	4275.8	4625.7	5255.7	5359.3	4898.6	4613.4	4957.1	5568.7	6008.9
72.5°	3690.9	4136.2	4120.8	4284.0	4701.6	4798.1	4320.9	3871.5	4075.7	4532.3	4817.6
75°	3161.4	3694.0	3581.1	3548.3	3695.0	3758.6	3400.5	3331.8	3589.3	3842.8	3846.9
77.5°	2275.9	2861.8	2729.4	2539.6	2529.3	2676.1	2724.3	3174.8	3555.5	3755.5	3667.3
80°	1449.9	2085.0	1947.5	1616.1	1611.0	1801.8	2225.6	2838.2	3241.5	3353.3	3123.5
82.5°	757.3	1364.7	1417.1	1212.9	1388.3	1704.4	2117.9	2287.2	2440.1	2455.5	2184.6
85°	472.0	839.4	987.1	1018.9	1253.9	1511.5	1508.4	1448.9	1381.1	1182.1	1069.2
87.5°	53.4	105.7	160.1	151.9	204.2	286.3	357.1	209.3	146.7	53.4	73.9
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°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1066.1	1067.1	1068.2	1068.2	1073.3	1072.3	1073.3	1075.4	1078.4	1080.5	1082.5
5°	1074.3	1074.3	1078.4	1081.5	1087.7	1091.8	1093.8	1100.0	1107.2	1105.1	1111.3
7.5°	1101.0	1100.0	1104.1	1106.1	1111.3	1118.5	1117.4	1122.6	1128.7	1130.8	1135.9
10°	1136.9	1133.8	1133.8	1131.8	1132.8	1130.8	1130.8	1130.8	1134.9	1133.8	1138.0
12.5°	1173.9	1172.8	1170.8	1164.6	1164.6	1156.4	1152.3	1147.2	1146.2	1139.0	1140.0
15°	1249.8	1249.8	1245.7	1233.4	1223.1	1215.9	1205.7	1198.5	1188.2	1174.9	1167.7
17.5°	1360.6	1346.3	1341.1	1339.1	1322.6	1316.5	1293.9	1270.3	1259.0	1240.6	1230.3
20°	1496.1	1493.0	1472.5	1462.2	1441.7	1412.9	1384.2	1353.4	1335.0	1312.4	1300.1
22.5°	1649.0	1626.4	1616.1	1600.7	1568.9	1536.1	1493.0	1451.9	1423.2	1407.8	1398.6
25°	1827.5	1804.9	1794.7	1774.1	1735.1	1700.3	1646.9	1598.7	1573.0	1547.4	1533.0
27.5°	2064.5	2043.0	2030.7	1977.3	1964.0	1906.5	1840.8	1775.2	1741.3	1703.3	1678.7
30°	2418.5	2419.6	2355.9	2291.3	2224.6	2125.1	2056.3	1982.4	1927.0	1872.6	1818.3
32.5°	3016.8	2863.9	2745.9	2607.3	2462.7	2357.0	2271.8	2183.6	2106.6	2027.6	1937.3
35°	3382.0	3308.2	3155.3	2901.8	2756.1	2627.9	2533.5	2426.7	2332.3	2192.8	2055.3
37.5°	3794.5	3623.2	3437.5	3296.9	3131.7	2982.9	2824.9	2703.8	2540.6	2352.9	2157.9
40°	4396.9	4151.6	3927.9	3739.1	3525.7	3369.7	3193.2	3017.8	2801.3	2529.3	2261.5
42.5°	5025.9	4772.4	4476.9	4231.7	3980.3	3797.6	3579.1	3332.8	3014.7	2678.1	2350.8
45°	5685.7	5347.0	4993.0	4693.4	4431.7	4205.0	3934.1	3607.8	3219.9	2811.5	2433.9
47.5°	6336.2	5947.3	5525.6	5203.4	4862.7	4585.7	4253.2	3840.7	3380.0	2937.7	2517.0
50°	6909.8	6535.3	6027.3	5617.9	5273.2	4931.5	4516.9	4020.3	3506.2	3046.5	2591.9
52.5°	7404.4	7082.2	6547.6	6030.4	5633.3	5249.6	4729.3	4165.0	3633.4	3147.1	2653.5
55°	7767.6	7553.2	7060.6	6419.3	5950.4	5492.7	4908.9	4304.5	3753.5	3227.1	2693.5
57.5°	8041.6	7922.6	7499.8	6785.6	6241.8	5728.7	5094.6	4471.8	3872.5	3295.9	2712.0
60°	8191.4	8224.2	7832.3	7105.8	6499.4	5925.8	5280.3	4614.4	3960.8	3335.9	2701.7
62.5°	8177.0	8378.2	8081.6	7302.8	6649.2	6042.7	5405.5	4681.1	3948.5	3272.3	2608.4
63°	8149.3	8383.3	8109.3	7316.1	6658.4	6046.8	5408.6	4671.9	3922.8	3241.5	2571.4
65°	7910.2	8265.3	8085.7	7255.6	6576.3	5969.9	5344.0	4538.5	3742.2	3076.3	2381.6
67.5°	7270.0	7714.3	7663.0	6827.7	6187.4	5651.8	5013.6	4108.5	3295.9	2669.9	2018.3
70°	6212.0	6629.7	6638.9	5938.1	5403.5	4878.1	4347.6	3343.1	2612.5	2069.7	1505.3
72.5°	4761.1	5030.0	5123.3	4661.6	4303.5	3934.1	3458.0	2426.7	1862.4	1407.8	979.9
75°	3686.8	3612.9	3611.9	3416.9	3271.2	3090.6	2567.3	1637.7	1223.1	915.3	599.2
77.5°	3314.3	2986.0	2667.9	2433.9	2316.9	2256.4	1683.8	987.1	721.4	526.4	344.8
80°	2733.5	2249.2	1817.2	1564.8	1464.3	1534.0	938.9	533.6	395.1	299.6	223.7
82.5°	1885.0	1564.8	1189.3	985.1	845.5	884.5	480.2	272.9	182.6	167.3	138.5
85°	982.0	860.9	726.5	623.9	551.0	484.3	249.3	130.3	75.9	66.7	60.5
87.5°	0.0	1.0	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1085.6	1084.6	1086.6	1087.7	1090.8	1092.8	1093.8	1091.8	1094.9	1097.9	1095.9
5°	1114.4	1121.5	1122.6	1125.6	1125.6	1131.8	1131.8	1131.8	1130.8	1131.8	1129.7
7.5°	1139.0	1148.2	1149.2	1153.3	1154.4	1161.6	1158.5	1160.5	1160.5	1155.4	1153.3
10°	1142.1	1151.3	1156.4	1161.6	1168.7	1178.0	1178.0	1183.1	1183.1	1179.0	1178.0
12.5°	1143.1	1150.3	1155.4	1162.6	1172.8	1186.2	1193.4	1200.5	1203.6	1202.6	1199.5
15°	1164.6	1164.6	1165.7	1171.8	1179.0	1195.4	1205.7	1213.9	1219.0	1217.0	1211.8
17.5°	1221.1	1212.9	1206.7	1196.4	1198.5	1206.7	1212.9	1220.0	1221.1	1219.0	1210.8
20°	1286.7	1276.5	1261.1	1244.7	1236.5	1230.3	1226.2	1226.2	1223.1	1212.9	1199.5
22.5°	1380.1	1366.8	1345.2	1320.6	1304.2	1284.7	1261.1	1238.5	1213.9	1189.3	1160.5
25°	1509.4	1490.9	1468.4	1430.4	1395.5	1354.5	1306.2	1256.0	1197.5	1146.2	1104.1
27.5°	1639.7	1598.7	1540.2	1487.9	1423.2	1361.6	1292.9	1231.3	1156.4	1094.9	1048.7
30°	1747.5	1669.5	1585.3	1502.2	1417.1	1333.9	1251.8	1178.0	1095.9	1033.3	988.1
32.5°	1830.6	1722.8	1605.9	1497.1	1392.4	1290.8	1196.4	1114.4	1031.2	966.6	918.4
35°	1907.5	1757.7	1608.9	1474.5	1345.2	1239.5	1132.8	1043.5	955.3	887.6	835.2
37.5°	1965.0	1774.1	1590.5	1432.4	1283.7	1165.7	1056.9	965.6	875.3	801.4	741.9
40°	2001.9	1763.9	1550.4	1371.9	1210.8	1086.6	975.8	881.4	794.2	713.1	641.3
42.5°	2031.7	1750.5	1510.4	1316.5	1153.3	1017.9	904.0	802.4	714.2	625.9	546.9
45°	2075.8	1760.8	1493.0	1277.5	1102.0	959.4	834.2	728.5	636.2	550.0	474.1
47.5°	2118.9	1765.9	1467.3	1229.3	1037.4	898.9	771.6	669.0	574.6	495.6	425.8
50°	2157.9	1762.8	1427.3	1167.7	974.8	838.3	715.2	612.6	519.2	446.4	380.7
52.5°	2176.4	1745.4	1378.1	1108.2	924.5	785.0	659.8	560.3	467.9	399.2	338.6
55°	2174.3	1700.3	1313.4	1051.8	869.1	728.5	605.4	506.9	423.8	360.2	307.8
57.5°	2143.5	1630.5	1244.7	989.2	796.3	658.8	541.8	446.4	376.6	323.2	279.1
60°	2078.9	1541.2	1154.4	897.8	704.9	572.6	462.8	380.7	324.2	283.2	254.5
62.5°	1957.8	1412.9	1041.5	770.6	581.8	460.7	365.3	311.9	269.9	245.2	231.9
63°	1921.9	1378.1	993.3	739.8	553.1	435.1	344.8	289.4	258.6	237.0	224.7
65°	1743.4	1206.7	831.1	597.2	429.9	335.5	277.0	235.0	216.5	207.3	206.2
67.5°	1411.9	949.1	588.0	409.4	292.4	242.2	212.4	195.0	186.8	184.7	186.8
70°	991.2	599.2	373.5	271.9	216.5	195.0	181.6	174.4	169.3	170.3	172.4
72.5°	632.1	359.1	256.5	206.2	182.6	171.4	165.2	163.2	162.1	161.1	161.1
75°	360.2	239.1	197.0	178.5	166.2	157.0	151.9	149.8	150.8	151.9	149.8
77.5°	238.1	197.0	175.5	163.2	151.9	141.6	138.5	137.5	139.6	141.6	141.6
80°	187.8	175.5	163.2	150.8	132.4	125.2	127.2	128.3	127.2	128.3	125.2
82.5°	132.4	130.3	133.4	128.3	109.8	103.6	101.6	102.6	100.6	100.6	98.5
85°	61.6	61.6	64.6	64.6	62.6	63.6	68.7	74.9	78.0	74.9	70.8
87.5°	0.0	0.0	0.0	0.0	0.0	9.2	18.5	26.7	28.7	35.9	34.9
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: P152942

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1092.8	1094.9	1093.8	1092.8	1094.9	1092.8	1093.8	1092.8	1092.8	1091.8	1091.8
5°	1127.7	1130.8	1124.6	1123.6	1121.5	1116.4	1116.4	1114.4	1114.4	1110.2	1107.2
7.5°	1150.3	1151.3	1146.2	1145.1	1140.0	1134.9	1130.8	1126.7	1125.6	1122.6	1116.4
10°	1171.8	1169.8	1165.7	1160.5	1155.4	1148.2	1143.1	1138.0	1136.9	1131.8	1124.6
12.5°	1190.3	1189.3	1181.0	1175.9	1167.7	1160.5	1154.4	1148.2	1145.1	1139.0	1128.7
15°	1202.6	1196.4	1186.2	1176.9	1167.7	1159.5	1152.3	1145.1	1142.1	1134.9	1124.6
17.5°	1197.5	1186.2	1172.8	1161.6	1149.2	1139.0	1132.8	1125.6	1120.5	1116.4	1102.0
20°	1179.0	1162.6	1142.1	1128.7	1112.3	1099.0	1094.9	1087.7	1083.6	1068.2	1049.7
22.5°	1130.8	1107.2	1081.5	1062.0	1043.5	1030.2	1019.9	1012.8	1002.5	993.3	964.5
25°	1070.2	1043.5	1016.9	993.3	968.6	948.1	929.7	912.2	907.1	887.6	859.9
27.5°	1011.7	982.0	955.3	927.6	895.8	870.1	838.3	813.7	797.3	776.8	751.1
30°	949.1	919.4	883.5	846.5	809.6	781.9	746.0	716.2	695.7	674.2	650.6
32.5°	870.1	834.2	791.1	750.1	716.2	683.4	647.5	618.7	598.2	578.7	556.1
35°	779.8	732.6	686.5	641.3	605.4	577.7	545.9	524.3	510.0	492.5	468.9
37.5°	676.2	622.8	573.6	538.7	506.9	480.2	457.6	444.3	428.9	419.7	405.3
40°	571.5	519.2	471.0	439.2	412.5	397.1	384.8	381.7	371.5	359.1	349.9
42.5°	479.2	428.9	381.7	356.1	338.6	334.5	328.4	328.4	323.2	314.0	307.8
45°	416.6	364.3	323.2	304.8	295.5	294.5	291.4	291.4	290.4	286.3	279.1
47.5°	371.5	324.2	292.4	281.2	279.1	277.0	274.0	272.9	271.9	268.8	264.7
50°	330.4	290.4	269.9	264.7	265.8	262.7	259.6	256.5	255.5	252.4	248.3
52.5°	292.4	263.7	250.4	247.3	247.3	247.3	245.2	245.2	243.2	242.2	238.1
55°	270.9	249.3	242.2	241.1	240.1	239.1	237.0	237.0	235.0	234.0	228.8
57.5°	252.4	239.1	235.0	232.9	231.9	229.8	228.8	228.8	228.8	228.8	222.7
60°	238.1	231.9	230.9	228.8	227.8	223.7	221.6	220.6	221.6	222.7	216.5
62.5°	222.7	221.6	220.6	218.6	217.5	213.4	210.4	208.3	210.4	212.4	211.4
63°	218.6	217.5	217.5	216.5	215.5	210.4	207.3	205.2	207.3	209.3	209.3
65°	204.2	205.2	205.2	204.2	203.2	200.1	196.0	193.9	195.0	198.0	199.1
67.5°	188.8	189.8	188.8	189.8	188.8	186.8	183.7	181.6	180.6	181.6	182.6
70°	174.4	176.5	175.5	174.4	173.4	173.4	171.4	168.3	167.3	166.2	166.2
72.5°	162.1	162.1	160.1	160.1	159.0	159.0	157.0	153.9	152.9	152.9	150.8
75°	148.8	148.8	145.7	145.7	143.7	144.7	142.6	139.6	138.5	138.5	137.5
77.5°	140.6	137.5	132.4	131.3	130.3	130.3	129.3	126.2	125.2	125.2	124.2
80°	124.2	118.0	112.9	111.8	112.9	114.9	114.9	112.9	112.9	112.9	112.9
82.5°	96.5	94.4	91.3	89.3	89.3	92.3	96.5	98.5	100.6	102.6	102.6
85°	70.8	71.8	70.8	67.7	66.7	69.8	73.9	78.0	79.0	83.1	82.1
87.5°	38.0	39.0	35.9	34.9	38.0	40.0	44.1	45.1	47.2	48.2	49.3
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: P152942

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1090.8	1089.7	1090.8	1088.7	1088.7	1086.6	1084.6	1083.6	1081.5	1080.5	1078.4
5°	1109.2	1106.1	1103.1	1102.0	1097.9	1093.8	1090.8	1085.6	1081.5	1074.3	1072.3
7.5°	1121.5	1114.4	1110.2	1109.2	1103.1	1100.0	1092.8	1086.6	1080.5	1071.3	1068.2
10°	1126.7	1119.5	1112.3	1109.2	1102.0	1096.9	1089.7	1080.5	1075.4	1066.1	1064.1
12.5°	1132.8	1119.5	1108.2	1100.0	1089.7	1078.4	1071.3	1066.1	1058.9	1053.8	1051.8
15°	1121.5	1104.1	1086.6	1071.3	1054.8	1042.5	1035.3	1027.1	1018.9	1015.8	1015.8
17.5°	1090.8	1068.2	1038.4	1018.9	1001.5	988.1	978.9	970.7	969.7	965.6	967.6
20°	1027.1	997.4	968.6	954.3	944.0	935.8	926.6	922.5	919.4	913.2	911.2
22.5°	938.9	914.3	893.7	883.5	875.3	865.0	856.8	844.5	841.4	835.2	832.2
25°	841.4	821.9	804.5	797.3	792.2	777.8	772.7	756.2	745.0	737.8	741.9
27.5°	743.9	729.6	713.1	703.9	700.8	687.5	682.4	663.9	654.7	654.7	644.4
30°	643.4	630.0	619.8	609.5	607.5	591.0	577.7	570.5	560.3	556.1	549.0
32.5°	549.0	535.6	527.4	522.3	514.1	500.7	487.4	475.1	458.7	452.5	449.4
35°	461.7	451.5	441.2	437.1	425.8	411.5	395.1	384.8	365.3	358.1	355.0
37.5°	395.1	382.7	375.6	364.3	353.0	337.6	325.3	316.0	308.9	305.8	305.8
40°	341.7	332.5	324.2	315.0	305.8	297.6	291.4	289.4	288.3	288.3	290.4
42.5°	301.7	293.5	289.4	284.2	281.2	281.2	280.1	281.2	282.2	283.2	286.3
45°	275.0	269.9	267.8	266.8	268.8	270.9	271.9	274.0	278.1	280.1	281.2
47.5°	260.6	256.5	255.5	256.5	259.6	263.7	267.8	270.9	274.0	275.0	276.0
50°	246.3	241.1	239.1	241.1	245.2	251.4	254.5	259.6	261.7	263.7	261.7
52.5°	234.0	229.8	228.8	228.8	232.9	237.0	241.1	245.2	246.3	246.3	245.2
55°	223.7	220.6	217.5	219.6	222.7	226.8	232.9	236.0	238.1	239.1	239.1
57.5°	215.5	212.4	209.3	211.4	214.5	218.6	224.7	227.8	229.8	232.9	234.0
60°	209.3	205.2	202.1	205.2	208.3	214.5	219.6	222.7	227.8	228.8	228.8
62.5°	203.2	199.1	193.9	197.0	197.0	200.1	205.2	209.3	214.5	216.5	216.5
63°	202.1	198.0	192.9	195.0	195.0	197.0	201.1	205.2	211.4	213.4	212.4
65°	193.9	192.9	187.8	187.8	185.7	187.8	190.9	195.0	198.0	201.1	201.1
67.5°	180.6	179.6	178.5	178.5	178.5	180.6	182.6	185.7	188.8	190.9	189.8
70°	165.2	165.2	165.2	166.2	166.2	168.3	169.3	168.3	171.4	173.4	172.4
72.5°	151.9	150.8	149.8	151.9	150.8	150.8	152.9	151.9	154.9	154.9	156.0
75°	137.5	136.5	136.5	137.5	135.4	133.4	134.4	134.4	135.4	135.4	137.5
77.5°	125.2	125.2	125.2	124.2	122.1	121.1	120.1	120.1	120.1	120.1	121.1
80°	113.9	113.9	113.9	112.9	110.8	108.8	106.7	105.7	104.7	99.5	99.5
82.5°	102.6	102.6	102.6	102.6	101.6	99.5	96.5	88.2	84.1	80.0	81.1
85°	81.1	83.1	85.2	88.2	87.2	87.2	81.1	70.8	64.6	60.5	61.6
87.5°	52.3	46.2	46.2	45.1	43.1	41.0	41.0	34.9	28.7	25.7	26.7
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: P152942

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1078.4	1076.4	1074.3	1074.3	1071.3	1071.3	1069.2	1073.3	1069.2	1066.1	1066.1
5°	1070.2	1068.2	1062.0	1061.0	1056.9	1056.9	1056.9	1054.8	1054.8	1052.8	1051.8
7.5°	1065.1	1060.0	1054.8	1051.8	1051.8	1049.7	1053.8	1051.8	1052.8	1052.8	1053.8
10°	1061.0	1056.9	1054.8	1053.8	1053.8	1056.9	1060.0	1061.0	1060.0	1061.0	1061.0
12.5°	1050.7	1052.8	1053.8	1057.9	1063.0	1069.2	1076.4	1077.4	1079.5	1079.5	1081.5
15°	1017.9	1023.0	1029.2	1039.4	1052.8	1066.1	1079.5	1090.8	1101.0	1106.1	1110.2
17.5°	971.7	976.9	988.1	999.4	1016.9	1036.4	1058.9	1078.4	1100.0	1119.5	1139.0
20°	909.1	917.3	920.4	940.9	961.5	988.1	1014.8	1045.6	1082.5	1119.5	1157.4
22.5°	828.1	837.3	851.7	868.1	889.6	922.5	954.3	1002.5	1051.8	1104.1	1163.6
25°	737.8	748.0	760.3	777.8	799.3	834.2	880.4	931.7	992.2	1061.0	1134.9
27.5°	644.4	654.7	664.9	677.2	701.9	738.8	793.2	846.5	913.2	988.1	1074.3
30°	551.0	552.0	558.2	573.6	599.2	647.5	687.5	754.2	824.0	903.0	1002.5
32.5°	448.4	447.4	454.6	467.9	492.5	538.7	588.0	652.6	721.4	820.9	923.5
35°	357.1	357.1	370.4	383.8	411.5	444.3	487.4	544.9	625.9	718.3	820.9
37.5°	308.9	316.0	324.2	337.6	359.1	384.8	422.8	473.0	536.7	624.9	719.3
40°	293.5	297.6	304.8	317.1	335.5	359.1	386.8	424.8	474.1	544.9	631.1
42.5°	287.3	288.3	292.4	301.7	318.1	341.7	370.4	404.3	441.2	491.5	566.4
45°	281.2	280.1	282.2	289.4	302.7	329.4	362.2	399.2	436.1	478.2	539.7
47.5°	276.0	276.0	276.0	279.1	291.4	318.1	356.1	399.2	443.3	490.5	551.0
50°	261.7	260.6	260.6	262.7	271.9	300.6	345.8	398.1	455.6	517.2	585.9
52.5°	245.2	245.2	246.3	247.3	255.5	284.2	334.5	398.1	470.0	552.0	638.2
55°	240.1	241.1	242.2	241.1	247.3	271.9	322.2	392.0	476.1	579.7	694.7
57.5°	236.0	238.1	238.1	237.0	241.1	261.7	309.9	379.7	471.0	590.0	734.7
60°	229.8	229.8	229.8	226.8	228.8	247.3	291.4	360.2	454.6	580.8	740.8
62.5°	216.5	216.5	214.5	213.4	212.4	226.8	266.8	331.4	424.8	556.1	725.5
63°	213.4	212.4	212.4	209.3	209.3	222.7	261.7	327.3	416.6	550.0	719.3
65°	202.1	202.1	202.1	200.1	199.1	209.3	241.1	298.6	384.8	521.3	688.5
67.5°	189.8	190.9	188.8	187.8	186.8	192.9	217.5	262.7	335.5	460.7	631.1
70°	172.4	173.4	173.4	172.4	171.4	175.5	190.9	225.7	278.1	383.8	537.7
72.5°	157.0	159.0	159.0	161.1	161.1	164.2	170.3	187.8	222.7	299.6	422.8
75°	140.6	141.6	143.7	145.7	143.7	142.6	143.7	157.0	174.4	221.6	301.7
77.5°	126.2	129.3	129.3	128.3	125.2	123.1	123.1	129.3	143.7	168.3	215.5
80°	104.7	109.8	110.8	107.7	104.7	104.7	106.7	110.8	120.1	138.5	163.2
82.5°	84.1	89.3	90.3	91.3	90.3	93.4	93.4	94.4	99.5	113.9	133.4
85°	64.6	68.7	71.8	72.9	73.9	74.9	73.9	68.7	71.8	81.1	90.3
87.5°	28.7	29.8	27.7	28.7	27.7	28.7	29.8	24.6	23.6	31.8	32.8
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: P152942

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4	1076.4
2.5°	1065.1	1065.1	1066.1	1064.1	1064.1	1065.1	1062.0
5°	1048.7	1052.8	1052.8	1052.8	1050.7	1052.8	1053.8
7.5°	1052.8	1055.9	1057.9	1057.9	1056.9	1061.0	1064.1
10°	1057.9	1063.0	1065.1	1065.1	1065.1	1070.2	1077.4
12.5°	1077.4	1081.5	1084.6	1084.6	1086.6	1092.8	1101.0
15°	1113.3	1118.5	1118.5	1117.4	1123.6	1130.8	1140.0
17.5°	1153.3	1167.7	1174.9	1173.9	1179.0	1188.2	1198.5
20°	1191.3	1231.3	1248.8	1261.1	1266.2	1278.5	1281.6
22.5°	1223.1	1289.8	1338.0	1379.1	1398.6	1410.9	1425.3
25°	1211.8	1302.1	1388.3	1472.5	1532.0	1592.5	1618.2
27.5°	1165.7	1278.5	1391.4	1514.5	1622.3	1730.0	1808.0
30°	1109.2	1244.7	1396.5	1571.0	1741.3	1906.5	2037.8
32.5°	1044.6	1212.9	1407.8	1623.3	1847.0	2063.5	2253.3
35°	963.5	1152.3	1380.1	1628.4	1892.1	2154.8	2401.1
37.5°	860.9	1070.2	1315.5	1591.5	1894.2	2194.8	2489.3
40°	758.3	966.6	1233.4	1538.1	1867.5	2204.1	2544.7
42.5°	686.5	874.2	1150.3	1470.4	1824.4	2189.7	2571.4
45°	637.2	807.5	1076.4	1408.8	1778.2	2164.1	2575.5
47.5°	633.1	778.8	1028.2	1363.7	1741.3	2141.5	2575.5
50°	668.0	794.2	1011.7	1341.1	1725.9	2134.3	2577.6
52.5°	733.7	855.8	1041.5	1358.6	1738.2	2143.5	2586.8
55°	812.7	949.1	1121.5	1419.1	1790.6	2174.3	2607.3
57.5°	884.5	1056.9	1258.0	1536.1	1886.0	2252.3	2664.8
60°	926.6	1149.2	1402.7	1700.3	2049.1	2407.2	2779.7
62.5°	931.7	1200.5	1530.9	1878.8	2247.2	2584.8	2963.4
63°	927.6	1204.6	1547.4	1912.7	2289.2	2628.9	3027.0
65°	905.0	1205.7	1593.5	2031.7	2434.9	2814.6	3204.5
67.5°	847.6	1172.8	1610.0	2125.1	2618.6	3058.8	3536.0
70°	748.0	1079.5	1561.7	2127.1	2689.4	3195.3	3745.3
72.5°	601.3	901.9	1353.4	1935.2	2502.7	3060.9	3690.9
75°	440.2	662.9	1023.0	1499.1	2041.9	2547.8	3161.4
77.5°	292.4	428.9	689.5	1068.2	1464.3	1833.7	2275.9
80°	201.1	265.8	403.3	642.3	895.8	1075.4	1449.9
82.5°	147.8	175.5	223.7	328.4	431.0	530.5	757.3
85°	92.3	100.6	111.8	162.1	231.9	313.0	472.0
87.5°	24.6	25.7	23.6	31.8	50.3	48.2	53.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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