

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: P152939

Luminaire Tested: **TLM-E03-LED-E1-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152939
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-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7624.1 lumens
Efficiency: N/A
Efficacy: 101.4 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

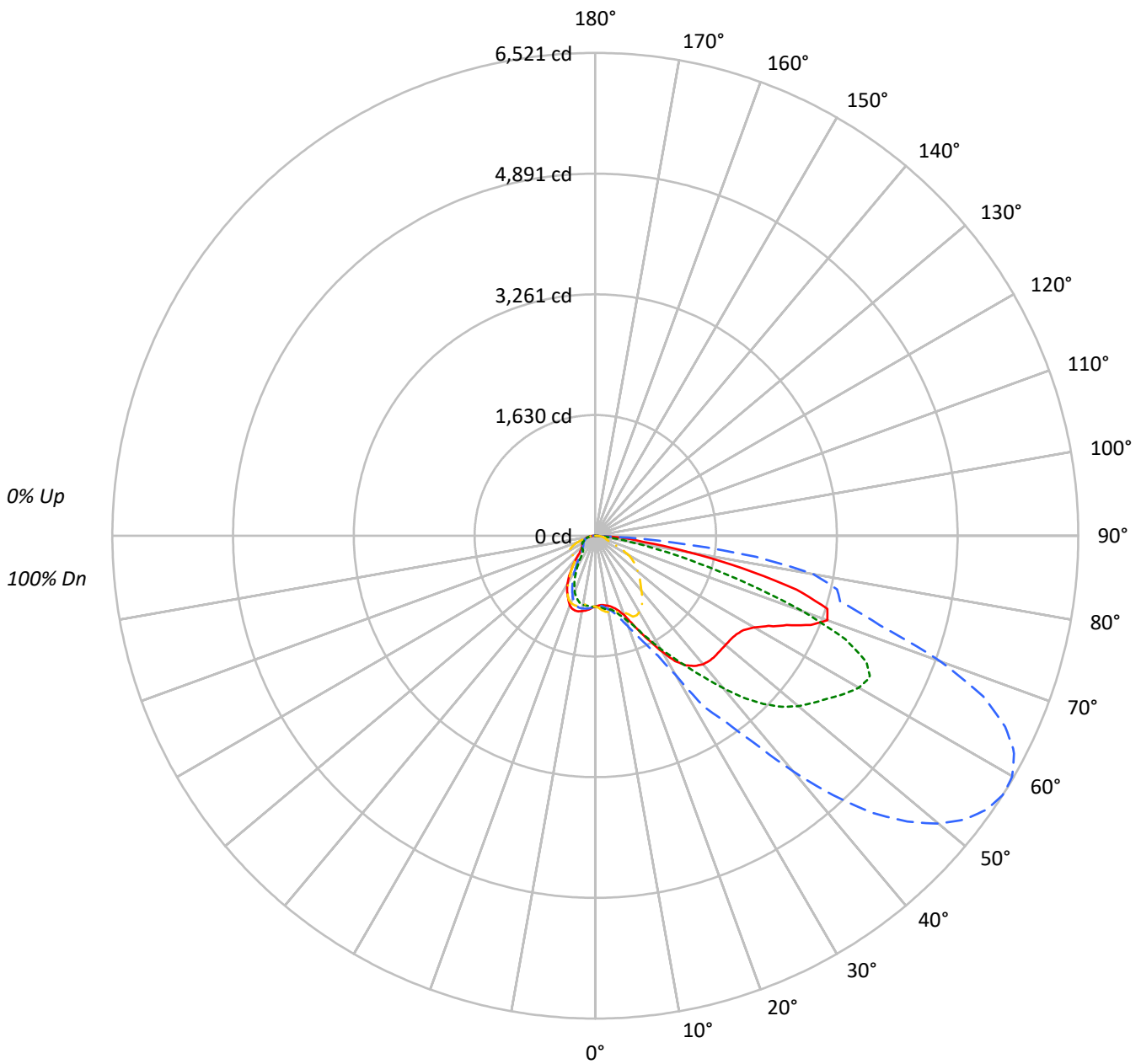
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

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°	20626	20626	20626	20626
5°	20270	21158	21612	20627
10°	20964	22002	22581	20704
15°	22615	23776	23348	20152
20°	26135	27599	23017	18582
25°	34214	33801	21000	15687
30°	45090	43865	18731	12146
35°	56167	56769	15001	8305
40°	63655	75489	10985	7265
45°	69795	97768	8260	7620
50°	76839	119849	7891	7800
55°	87106	143806	8055	7987
60°	106533	176843	8770	8770
65°	145299	205779	9261	9118
70°	209834	187300	9775	9655
75°	234060	121247	10788	10181
80°	160001	58875	12348	10984
85°	103766	28652	14894	13536



TEST NUMBER: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.3	1.2
10°-20°	290.5	3.8
20°-30°	516.0	6.8
30°-40°	812.6	10.7
40°-50°	1195.9	15.7
50°-60°	1588.5	20.8
60°-70°	1749.8	23.0
70°-80°	1097.8	14.4
80°-90°	279.6	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°	899.8	11.8
0°-40°	1712.4	22.5
0°-60°	4496.9	59.0
0°-90°	7624.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7624.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	958	958	958	958	958	
5°	938	979	1000	954	938	90
15°	1015	1067	1048	904	1015	294
25°	1440	1423	884	660	1440	680
35°	2137	2160	571	316	2137	1324
45°	2292	3211	271	250	2292	1772
55°	2321	3832	215	213	2321	2105
65°	2852	4040	182	179	2852	2872
75°	2814	1458	130	122	2814	2752
85°	420	116	60	55	420	486
90°	0	0	0	0	0	



TEST NUMBER: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1
2.5°	945.3	947.1	947.1	946.2	946.2	948.1	947.1	946.2	943.5	947.1	947.1
5°	938.0	939.8	939.8	941.7	943.5	945.3	945.3	947.1	946.2	949.9	952.6
7.5°	947.1	949.0	952.6	957.2	959.9	966.3	966.3	970.9	972.7	975.5	974.5
10°	959.0	963.6	971.8	979.1	984.6	991.9	997.4	1003.8	1003.8	1006.5	1008.3
12.5°	980.0	984.6	993.7	1002.9	1011.1	1020.2	1028.4	1034.8	1041.2	1043.0	1046.7
15°	1014.7	1020.2	1033.9	1046.7	1056.7	1068.6	1079.6	1092.4	1104.2	1107.0	1108.8
17.5°	1066.8	1077.8	1087.8	1110.6	1125.2	1140.8	1158.1	1176.4	1180.0	1199.2	1203.8
20°	1140.8	1154.5	1163.6	1191.9	1216.6	1236.7	1262.3	1283.3	1291.5	1309.7	1328.0
22.5°	1268.6	1265.9	1279.6	1307.9	1326.2	1366.4	1388.3	1410.2	1421.2	1448.6	1463.2
25°	1440.4	1455.0	1485.1	1487.8	1505.2	1551.8	1580.1	1602.0	1602.9	1611.2	1626.7
27.5°	1609.3	1669.6	1717.1	1742.7	1789.3	1832.2	1830.4	1861.4	1813.0	1823.0	1837.7
30°	1813.9	1914.4	2003.9	2064.2	2111.7	2161.9	2186.6	2203.9	2182.9	2173.8	2156.4
32.5°	2005.7	2146.4	2284.3	2391.2	2479.7	2562.9	2617.7	2642.3	2671.5	2745.5	2772.0
35°	2137.2	2336.4	2508.1	2662.4	2810.4	2942.8	3038.7	3093.5	3072.5	3062.5	3057.0
37.5°	2215.8	2458.7	2673.4	2891.7	3061.6	3259.7	3408.6	3552.9	3585.8	3528.3	3500.0
40°	2265.1	2552.8	2828.6	3086.2	3306.3	3562.1	3746.6	3963.0	4127.4	4149.4	4081.8
42.5°	2288.9	2615.8	2937.3	3228.7	3526.4	3839.7	4073.5	4335.7	4581.4	4750.3	4708.3
45°	2292.5	2656.9	3016.8	3357.5	3711.9	4083.6	4385.0	4675.4	5004.2	5293.8	5302.0
47.5°	2292.5	2688.0	3071.6	3450.6	3878.1	4295.5	4624.3	4967.7	5370.5	5713.0	5818.0
50°	2294.3	2709.0	3122.7	3523.7	4005.0	4474.5	4846.2	5251.8	5675.6	6048.2	6251.0
52.5°	2302.6	2724.5	3162.9	3575.8	4087.2	4600.5	5018.9	5486.5	5908.5	6291.2	6553.3
55°	2320.8	2746.4	3192.2	3607.7	4142.0	4682.7	5144.0	5647.2	6059.2	6447.3	6813.6
57.5°	2372.0	2784.8	3227.8	3636.0	4172.2	4736.6	5231.7	5716.7	6116.7	6521.3	6951.5
60°	2474.3	2866.1	3289.0	3692.7	4222.4	4836.2	5273.7	5670.1	6074.7	6499.4	6982.6
62.5°	2637.8	2993.0	3373.9	3788.6	4365.8	4990.5	5241.7	5531.2	5909.4	6372.4	6872.0
63°	2694.4	3020.4	3393.1	3809.6	4405.1	5018.9	5228.0	5490.1	5875.6	6332.3	6832.8
65°	2852.4	3141.9	3484.4	3915.5	4566.8	5047.2	5121.2	5276.4	5641.8	6103.0	6600.8
67.5°	3147.4	3436.9	3680.8	4094.5	4702.8	4935.7	4789.6	4808.8	5190.6	5668.3	6115.8
70°	3333.7	3679.0	3805.9	4117.4	4678.2	4770.4	4360.3	4106.4	4412.4	4956.8	5348.6
72.5°	3285.3	3681.7	3668.0	3813.2	4185.0	4270.8	3846.1	3446.1	3627.8	4034.3	4288.2
75°	2814.0	3288.1	3187.6	3158.4	3289.0	3345.6	3026.8	2965.6	3194.9	3420.5	3424.2
77.5°	2025.8	2547.3	2429.5	2260.5	2251.4	2382.0	2424.9	2825.9	3164.8	3342.9	3264.3
80°	1290.6	1855.9	1733.5	1438.5	1434.0	1603.8	1981.1	2526.3	2885.3	2984.8	2780.2
82.5°	674.1	1214.8	1261.3	1079.6	1235.8	1517.1	1885.2	2035.9	2171.9	2185.6	1944.5
85°	420.1	747.1	878.6	907.0	1116.1	1345.4	1342.6	1289.7	1229.4	1052.2	951.7
87.5°	47.5	94.1	142.5	135.2	181.8	254.8	317.8	186.3	130.6	47.5	65.8
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: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1
2.5°	949.0	949.9	950.8	950.8	955.4	954.5	955.4	957.2	959.9	961.8	963.6
5°	956.3	956.3	959.9	962.7	968.2	971.8	973.6	979.1	985.5	983.7	989.2
7.5°	980.0	979.1	982.8	984.6	989.2	995.6	994.6	999.2	1004.7	1006.5	1011.1
10°	1012.0	1009.3	1009.3	1007.4	1008.3	1006.5	1006.5	1006.5	1010.2	1009.3	1012.9
12.5°	1044.9	1044.0	1042.1	1036.7	1036.7	1029.3	1025.7	1021.1	1020.2	1013.8	1014.7
15°	1112.5	1112.5	1108.8	1097.8	1088.7	1082.3	1073.2	1066.8	1057.7	1045.8	1039.4
17.5°	1211.1	1198.3	1193.7	1191.9	1177.3	1171.8	1151.7	1130.7	1120.7	1104.2	1095.1
20°	1331.7	1328.9	1310.7	1301.5	1283.3	1257.7	1232.1	1204.7	1188.3	1168.2	1157.2
22.5°	1467.8	1447.7	1438.5	1424.8	1396.5	1367.3	1328.9	1292.4	1266.8	1253.1	1244.9
25°	1626.7	1606.6	1597.4	1579.2	1544.5	1513.4	1465.9	1423.0	1400.2	1377.3	1364.5
27.5°	1837.7	1818.5	1807.5	1760.0	1748.2	1697.0	1638.6	1580.1	1550.0	1516.2	1494.2
30°	2152.8	2153.7	2097.1	2039.5	1980.1	1891.5	1830.4	1764.6	1715.3	1666.9	1618.5
32.5°	2685.2	2549.2	2444.1	2320.8	2192.0	2098.0	2022.2	1943.6	1875.1	1804.8	1724.4
35°	3010.4	2944.6	2808.6	2583.0	2453.3	2339.1	2255.1	2160.1	2076.0	1951.8	1829.4
37.5°	3377.6	3225.0	3059.7	2934.6	2787.5	2655.1	2514.5	2406.7	2261.5	2094.3	1920.8
40°	3913.7	3695.4	3496.3	3328.2	3138.3	2999.4	2842.3	2686.2	2493.4	2251.4	2013.0
42.5°	4473.6	4248.0	3984.9	3766.7	3542.9	3380.3	3185.8	2966.6	2683.4	2383.8	2092.5
45°	5060.9	4759.5	4444.4	4177.7	3944.8	3742.9	3501.8	3211.3	2866.1	2502.6	2166.5
47.5°	5639.9	5293.8	4918.4	4631.6	4328.4	4081.8	3785.8	3418.7	3008.6	2614.9	2240.4
50°	6150.5	5817.1	5365.0	5000.6	4693.7	4389.6	4020.6	3578.5	3120.9	2711.7	2307.1
52.5°	6590.7	6303.9	5828.1	5367.8	5014.3	4672.7	4209.6	3707.3	3234.2	2801.2	2361.9
55°	6914.1	6723.2	6284.8	5713.9	5296.5	4889.2	4369.5	3831.5	3341.0	2872.5	2397.5
57.5°	7157.9	7052.0	6675.7	6040.0	5555.9	5099.2	4534.8	3980.4	3447.0	2933.7	2414.0
60°	7291.3	7320.5	6971.6	6325.0	5785.2	5274.6	4700.1	4107.3	3525.5	2969.3	2404.9
62.5°	7278.5	7457.5	7193.5	6500.3	5918.5	5378.7	4811.5	4166.7	3514.6	2912.7	2321.7
63°	7253.8	7462.1	7218.2	6512.2	5926.7	5382.4	4814.3	4158.5	3491.7	2885.3	2288.9
65°	7041.0	7357.0	7197.2	6458.3	5853.7	5313.9	4756.7	4039.7	3331.0	2738.2	2119.9
67.5°	6471.1	6866.6	6820.9	6077.4	5507.5	5030.7	4462.6	3657.1	2933.7	2376.5	1796.6
70°	5529.4	5901.2	5909.4	5285.6	4809.7	4342.1	3869.9	2975.7	2325.4	1842.2	1339.9
72.5°	4237.9	4477.2	4560.4	4149.4	3830.6	3501.8	3078.0	2160.1	1657.7	1253.1	872.2
75°	3281.7	3215.9	3215.0	3041.5	2911.8	2751.0	2285.2	1457.7	1088.7	814.7	533.4
77.5°	2950.1	2657.8	2374.7	2166.5	2062.3	2008.5	1498.8	878.6	642.1	468.5	306.9
80°	2433.2	2002.1	1617.5	1392.9	1303.4	1365.5	835.7	474.9	351.6	266.7	199.1
82.5°	1677.8	1392.9	1058.6	876.8	752.6	787.3	427.4	243.0	162.6	148.9	123.3
85°	874.1	766.3	646.7	555.3	490.5	431.1	221.9	116.0	67.6	59.4	53.9
87.5°	0.0	0.9	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: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1
2.5°	966.3	965.4	967.2	968.2	970.9	972.7	973.6	971.8	974.5	977.3	975.5
5°	991.9	998.3	999.2	1001.9	1001.9	1007.4	1007.4	1007.4	1006.5	1007.4	1005.6
7.5°	1013.8	1022.0	1023.0	1026.6	1027.5	1033.9	1031.2	1033.0	1033.0	1028.4	1026.6
10°	1016.6	1024.8	1029.3	1033.9	1040.3	1048.5	1048.5	1053.1	1053.1	1049.4	1048.5
12.5°	1017.5	1023.9	1028.4	1034.8	1044.0	1055.8	1062.2	1068.6	1071.4	1070.4	1067.7
15°	1036.7	1036.7	1037.6	1043.0	1049.4	1064.1	1073.2	1080.5	1085.1	1083.2	1078.7
17.5°	1086.9	1079.6	1074.1	1065.0	1066.8	1074.1	1079.6	1086.0	1086.9	1085.1	1077.8
20°	1145.3	1136.2	1122.5	1107.9	1100.6	1095.1	1091.5	1091.5	1088.7	1079.6	1067.7
22.5°	1228.5	1216.6	1197.4	1175.5	1160.9	1143.5	1122.5	1102.4	1080.5	1058.6	1033.0
25°	1343.5	1327.1	1307.0	1273.2	1242.2	1205.6	1162.7	1117.9	1065.9	1020.2	982.8
27.5°	1459.5	1423.0	1370.9	1324.4	1266.8	1212.0	1150.8	1096.0	1029.3	974.5	933.4
30°	1555.4	1486.0	1411.1	1337.1	1261.3	1187.4	1114.3	1048.5	975.5	919.7	879.6
32.5°	1629.4	1533.5	1429.4	1332.6	1239.4	1149.0	1065.0	991.9	917.9	860.4	817.4
35°	1697.9	1564.6	1432.1	1312.5	1197.4	1103.3	1008.3	928.9	850.3	790.0	743.5
37.5°	1749.1	1579.2	1415.7	1275.0	1142.6	1037.6	940.8	859.5	779.1	713.3	660.4
40°	1781.9	1570.0	1380.1	1221.1	1077.8	967.2	868.6	784.6	706.9	634.8	570.8
42.5°	1808.4	1558.2	1344.5	1171.8	1026.6	906.0	804.7	714.2	635.7	557.1	486.8
45°	1847.7	1567.3	1328.9	1137.1	980.9	854.0	742.6	648.5	566.3	489.6	422.0
47.5°	1886.1	1571.9	1306.1	1094.2	923.4	800.1	686.8	595.5	511.5	441.1	379.0
50°	1920.8	1569.1	1270.5	1039.4	867.7	746.2	636.6	545.3	462.2	397.3	338.9
52.5°	1937.2	1553.6	1226.6	986.4	822.9	698.7	587.3	498.7	416.5	355.3	301.4
55°	1935.4	1513.4	1169.1	936.2	773.6	648.5	538.9	451.2	377.2	320.6	274.0
57.5°	1908.0	1451.3	1107.9	880.5	708.8	586.4	482.2	397.3	335.2	287.7	248.4
60°	1850.4	1371.9	1027.5	799.2	627.5	509.6	411.9	338.9	288.6	252.1	226.5
62.5°	1742.7	1257.7	927.1	685.9	517.9	410.1	325.2	277.7	240.2	218.3	206.4
63°	1710.7	1226.6	884.1	658.5	492.3	387.3	306.9	257.6	230.2	211.0	200.0
65°	1551.8	1074.1	739.8	531.6	382.7	298.7	246.6	209.2	192.7	184.5	183.6
67.5°	1256.8	844.8	523.3	364.4	260.3	215.6	189.1	173.5	166.2	164.4	166.2
70°	882.3	533.4	332.5	242.0	192.7	173.5	161.7	155.3	150.7	151.6	153.4
72.5°	562.6	319.7	228.3	183.6	162.6	152.5	147.0	145.2	144.3	143.4	143.4
75°	320.6	212.8	175.4	158.9	148.0	139.7	135.2	133.3	134.3	135.2	133.3
77.5°	211.9	175.4	156.2	145.2	135.2	126.0	123.3	122.4	124.2	126.0	126.0
80°	167.1	156.2	145.2	134.3	117.8	111.4	113.3	114.2	113.3	114.2	111.4
82.5°	117.8	116.0	118.7	114.2	97.7	92.2	90.4	91.3	89.5	89.5	87.7
85°	54.8	54.8	57.5	57.5	55.7	56.6	61.2	66.7	69.4	66.7	63.0
87.5°	0.0	0.0	0.0	0.0	0.0	8.2	16.4	23.7	25.6	32.0	31.1
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: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1
2.5°	972.7	974.5	973.6	972.7	974.5	972.7	973.6	972.7	972.7	971.8	971.8
5°	1003.8	1006.5	1001.0	1000.1	998.3	993.7	993.7	991.9	991.9	988.2	985.5
7.5°	1023.9	1024.8	1020.2	1019.3	1014.7	1010.2	1006.5	1002.9	1001.9	999.2	993.7
10°	1043.0	1041.2	1037.6	1033.0	1028.4	1022.0	1017.5	1012.9	1012.0	1007.4	1001.0
12.5°	1059.5	1058.6	1051.3	1046.7	1039.4	1033.0	1027.5	1022.0	1019.3	1013.8	1004.7
15°	1070.4	1065.0	1055.8	1047.6	1039.4	1032.1	1025.7	1019.3	1016.6	1010.2	1001.0
17.5°	1065.9	1055.8	1044.0	1033.9	1023.0	1013.8	1008.3	1001.9	997.4	993.7	980.9
20°	1049.4	1034.8	1016.6	1004.7	990.1	978.2	974.5	968.2	964.5	950.8	934.4
22.5°	1006.5	985.5	962.7	945.3	928.9	917.0	907.9	901.5	892.3	884.1	858.5
25°	952.6	928.9	905.1	884.1	862.2	843.9	827.5	812.0	807.4	790.0	765.4
27.5°	900.6	874.1	850.3	825.7	797.4	774.5	746.2	724.3	709.7	691.4	668.6
30°	844.8	818.4	786.4	753.5	720.6	696.0	664.0	637.5	619.3	600.1	579.1
32.5°	774.5	742.6	704.2	667.7	637.5	608.3	576.3	550.8	532.5	515.1	495.0
35°	694.1	652.1	611.0	570.8	538.9	514.2	485.9	466.7	453.9	438.4	417.4
37.5°	601.9	554.4	510.6	479.5	451.2	427.4	407.4	395.5	381.8	373.6	360.8
40°	508.7	462.2	419.2	390.9	367.2	353.5	342.5	339.8	330.6	319.7	311.5
42.5°	426.5	381.8	339.8	316.9	301.4	297.8	292.3	292.3	287.7	279.5	274.0
45°	370.8	324.2	287.7	271.3	263.0	262.1	259.4	259.4	258.5	254.8	248.4
47.5°	330.6	288.6	260.3	250.3	248.4	246.6	243.9	243.0	242.0	239.3	235.6
50°	294.1	258.5	240.2	235.6	236.6	233.8	231.1	228.3	227.4	224.7	221.0
52.5°	260.3	234.7	222.9	220.1	220.1	220.1	218.3	218.3	216.5	215.6	211.9
55°	241.1	221.9	215.6	214.6	213.7	212.8	211.0	211.0	209.2	208.2	203.7
57.5°	224.7	212.8	209.2	207.3	206.4	204.6	203.7	203.7	203.7	203.7	198.2
60°	211.9	206.4	205.5	203.7	202.8	199.1	197.3	196.4	197.3	198.2	192.7
62.5°	198.2	197.3	196.4	194.5	193.6	190.0	187.2	185.4	187.2	189.1	188.2
63°	194.5	193.6	193.6	192.7	191.8	187.2	184.5	182.7	184.5	186.3	186.3
65°	181.8	182.7	182.7	181.8	180.8	178.1	174.4	172.6	173.5	176.3	177.2
67.5°	168.1	169.0	168.1	169.0	168.1	166.2	163.5	161.7	160.7	161.7	162.6
70°	155.3	157.1	156.2	155.3	154.4	154.4	152.5	149.8	148.9	148.0	148.0
72.5°	144.3	144.3	142.5	142.5	141.6	141.6	139.7	137.0	136.1	136.1	134.3
75°	132.4	132.4	129.7	129.7	127.9	128.8	127.0	124.2	123.3	123.3	122.4
77.5°	125.1	122.4	117.8	116.9	116.0	116.0	115.1	112.3	111.4	111.4	110.5
80°	110.5	105.0	100.5	99.6	100.5	102.3	102.3	100.5	100.5	100.5	100.5
82.5°	85.9	84.0	81.3	79.5	79.5	82.2	85.9	87.7	89.5	91.3	91.3
85°	63.0	63.9	63.0	60.3	59.4	62.1	65.8	69.4	70.3	74.0	73.1
87.5°	33.8	34.7	32.0	31.1	33.8	35.6	39.3	40.2	42.0	42.9	43.8
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: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1
2.5°	970.9	970.0	970.9	969.1	969.1	967.2	965.4	964.5	962.7	961.8	959.9
5°	987.3	984.6	981.9	980.9	977.3	973.6	970.9	966.3	962.7	956.3	954.5
7.5°	998.3	991.9	988.2	987.3	981.9	979.1	972.7	967.2	961.8	953.5	950.8
10°	1002.9	996.5	990.1	987.3	980.9	976.4	970.0	961.8	957.2	949.0	947.1
12.5°	1008.3	996.5	986.4	979.1	970.0	959.9	953.5	949.0	942.6	938.0	936.2
15°	998.3	982.8	967.2	953.5	938.9	928.0	921.6	914.3	907.0	904.2	904.2
17.5°	970.9	950.8	924.3	907.0	891.4	879.6	871.3	864.0	863.1	859.5	861.3
20°	914.3	887.8	862.2	849.4	840.3	833.0	824.8	821.1	818.4	812.9	811.1
22.5°	835.7	813.8	795.5	786.4	779.1	770.0	762.6	751.7	748.9	743.5	740.7
25°	748.9	731.6	716.1	709.7	705.1	692.3	687.8	673.1	663.1	656.7	660.4
27.5°	662.2	649.4	634.8	626.6	623.8	611.9	607.4	590.9	582.7	582.7	573.6
30°	572.7	560.8	551.7	542.5	540.7	526.1	514.2	507.8	498.7	495.0	488.6
32.5°	488.6	476.8	469.5	464.9	457.6	445.7	433.8	422.9	408.3	402.8	400.0
35°	411.0	401.9	392.7	389.1	379.0	366.3	351.6	342.5	325.2	318.8	316.0
37.5°	351.6	340.7	334.3	324.2	314.2	300.5	289.5	281.3	274.9	272.2	272.2
40°	304.1	295.9	288.6	280.4	272.2	264.9	259.4	257.6	256.7	256.7	258.5
42.5°	268.5	261.2	257.6	253.0	250.3	250.3	249.3	250.3	251.2	252.1	254.8
45°	244.8	240.2	238.4	237.5	239.3	241.1	242.0	243.9	247.5	249.3	250.3
47.5°	232.0	228.3	227.4	228.3	231.1	234.7	238.4	241.1	243.9	244.8	245.7
50°	219.2	214.6	212.8	214.6	218.3	223.8	226.5	231.1	232.9	234.7	232.9
52.5°	208.2	204.6	203.7	203.7	207.3	211.0	214.6	218.3	219.2	219.2	218.3
55°	199.1	196.4	193.6	195.5	198.2	201.9	207.3	210.1	211.9	212.8	212.8
57.5°	191.8	189.1	186.3	188.2	190.9	194.5	200.0	202.8	204.6	207.3	208.2
60°	186.3	182.7	179.9	182.7	185.4	190.9	195.5	198.2	202.8	203.7	203.7
62.5°	180.8	177.2	172.6	175.4	175.4	178.1	182.7	186.3	190.9	192.7	192.7
63°	179.9	176.3	171.7	173.5	173.5	175.4	179.0	182.7	188.2	190.0	189.1
65°	172.6	171.7	167.1	167.1	165.3	167.1	169.9	173.5	176.3	179.0	179.0
67.5°	160.7	159.8	158.9	158.9	158.9	160.7	162.6	165.3	168.1	169.9	169.0
70°	147.0	147.0	147.0	148.0	148.0	149.8	150.7	149.8	152.5	154.4	153.4
72.5°	135.2	134.3	133.3	135.2	134.3	134.3	136.1	135.2	137.9	137.9	138.8
75°	122.4	121.5	121.5	122.4	120.6	118.7	119.6	119.6	120.6	120.6	122.4
77.5°	111.4	111.4	111.4	110.5	108.7	107.8	106.9	106.9	106.9	106.9	107.8
80°	101.4	101.4	101.4	100.5	98.6	96.8	95.0	94.1	93.2	88.6	88.6
82.5°	91.3	91.3	91.3	91.3	90.4	88.6	85.9	78.5	74.9	71.2	72.2
85°	72.2	74.0	75.8	78.5	77.6	77.6	72.2	63.0	57.5	53.9	54.8
87.5°	46.6	41.1	41.1	40.2	38.4	36.5	36.5	31.1	25.6	22.8	23.7
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: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1	958.1
2.5°	959.9	958.1	956.3	956.3	953.5	953.5	951.7	955.4	951.7	949.0	949.0
5°	952.6	950.8	945.3	944.4	940.8	940.8	940.8	938.9	938.9	937.1	936.2
7.5°	948.1	943.5	938.9	936.2	936.2	934.4	938.0	936.2	937.1	937.1	938.0
10°	944.4	940.8	938.9	938.0	938.0	940.8	943.5	944.4	943.5	944.4	944.4
12.5°	935.3	937.1	938.0	941.7	946.2	951.7	958.1	959.0	960.8	960.8	962.7
15°	906.0	910.6	916.1	925.2	937.1	949.0	960.8	970.9	980.0	984.6	988.2
17.5°	864.9	869.5	879.6	889.6	905.1	922.5	942.6	959.9	979.1	996.5	1013.8
20°	809.2	816.5	819.3	837.5	855.8	879.6	903.3	930.7	963.6	996.5	1030.3
22.5°	737.1	745.3	758.1	772.7	791.9	821.1	849.4	892.3	936.2	982.8	1035.7
25°	656.7	665.8	676.8	692.3	711.5	742.6	783.7	829.3	883.2	944.4	1010.2
27.5°	573.6	582.7	591.9	602.8	624.7	657.6	706.0	753.5	812.9	879.6	956.3
30°	490.5	491.4	496.9	510.6	533.4	576.3	611.9	671.3	733.4	803.7	892.3
32.5°	399.1	398.2	404.6	416.5	438.4	479.5	523.3	580.9	642.1	730.7	822.0
35°	317.8	317.8	329.7	341.6	366.3	395.5	433.8	485.0	557.1	639.3	730.7
37.5°	274.9	281.3	288.6	300.5	319.7	342.5	376.3	421.1	477.7	556.2	640.3
40°	261.2	264.9	271.3	282.2	298.7	319.7	344.3	378.1	422.0	485.0	561.7
42.5°	255.7	256.7	260.3	268.5	283.1	304.1	329.7	359.9	392.7	437.5	504.2
45°	250.3	249.3	251.2	257.6	269.4	293.2	322.4	355.3	388.2	425.6	480.4
47.5°	245.7	245.7	245.7	248.4	259.4	283.1	316.9	355.3	394.6	436.6	490.5
50°	232.9	232.0	232.0	233.8	242.0	267.6	307.8	354.4	405.5	460.3	521.5
52.5°	218.3	218.3	219.2	220.1	227.4	253.0	297.8	354.4	418.3	491.4	568.1
55°	213.7	214.6	215.6	214.6	220.1	242.0	286.8	348.9	423.8	516.0	618.3
57.5°	210.1	211.9	211.9	211.0	214.6	232.9	275.8	337.9	419.2	525.2	654.0
60°	204.6	204.6	204.6	201.9	203.7	220.1	259.4	320.6	404.6	517.0	659.4
62.5°	192.7	192.7	190.9	190.0	189.1	201.9	237.5	295.0	378.1	495.0	645.7
63°	190.0	189.1	189.1	186.3	186.3	198.2	232.9	291.4	370.8	489.6	640.3
65°	179.9	179.9	179.9	178.1	177.2	186.3	214.6	265.8	342.5	464.0	612.9
67.5°	169.0	169.9	168.1	167.1	166.2	171.7	193.6	233.8	298.7	410.1	561.7
70°	153.4	154.4	154.4	153.4	152.5	156.2	169.9	200.9	247.5	341.6	478.6
72.5°	139.7	141.6	141.6	143.4	143.4	146.1	151.6	167.1	198.2	266.7	376.3
75°	125.1	126.0	127.9	129.7	127.9	127.0	127.9	139.7	155.3	197.3	268.5
77.5°	112.3	115.1	115.1	114.2	111.4	109.6	109.6	115.1	127.9	149.8	191.8
80°	93.2	97.7	98.6	95.9	93.2	93.2	95.0	98.6	106.9	123.3	145.2
82.5°	74.9	79.5	80.4	81.3	80.4	83.1	83.1	84.0	88.6	101.4	118.7
85°	57.5	61.2	63.9	64.8	65.8	66.7	65.8	61.2	63.9	72.2	80.4
87.5°	25.6	26.5	24.7	25.6	24.7	25.6	26.5	21.9	21.0	28.3	29.2
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: P152939

CATALOG NUMBER: TLM-E03-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	958.1	958.1	958.1	958.1	958.1	958.1	958.1
2.5°	948.1	948.1	949.0	947.1	947.1	948.1	945.3
5°	933.4	937.1	937.1	937.1	935.3	937.1	938.0
7.5°	937.1	939.8	941.7	941.7	940.8	944.4	947.1
10°	941.7	946.2	948.1	948.1	948.1	952.6	959.0
12.5°	959.0	962.7	965.4	965.4	967.2	972.7	980.0
15°	991.0	995.6	995.6	994.6	1000.1	1006.5	1014.7
17.5°	1026.6	1039.4	1045.8	1044.9	1049.4	1057.7	1066.8
20°	1060.4	1096.0	1111.5	1122.5	1127.1	1138.0	1140.8
22.5°	1088.7	1148.1	1191.0	1227.5	1244.9	1255.9	1268.6
25°	1078.7	1159.0	1235.8	1310.7	1363.6	1417.5	1440.4
27.5°	1037.6	1138.0	1238.5	1348.1	1444.0	1539.9	1609.3
30°	987.3	1107.9	1243.1	1398.3	1550.0	1697.0	1813.9
32.5°	929.8	1079.6	1253.1	1444.9	1644.0	1836.7	2005.7
35°	857.6	1025.7	1228.5	1449.5	1684.2	1918.0	2137.2
37.5°	766.3	952.6	1170.9	1416.6	1686.0	1953.7	2215.8
40°	675.0	860.4	1097.8	1369.1	1662.3	1961.9	2265.1
42.5°	611.0	778.2	1023.9	1308.8	1623.9	1949.1	2288.9
45°	567.2	718.8	958.1	1254.0	1582.8	1926.3	2292.5
47.5°	563.5	693.2	915.2	1213.8	1550.0	1906.2	2292.5
50°	594.6	706.9	900.6	1193.7	1536.3	1899.8	2294.3
52.5°	653.0	761.7	927.1	1209.3	1547.2	1908.0	2302.6
55°	723.4	844.8	998.3	1263.2	1593.8	1935.4	2320.8
57.5°	787.3	940.8	1119.8	1367.3	1678.7	2004.8	2372.0
60°	824.8	1023.0	1248.5	1513.4	1824.0	2142.7	2474.3
62.5°	829.3	1068.6	1362.7	1672.3	2000.2	2300.7	2637.8
63°	825.7	1072.3	1377.3	1702.5	2037.7	2340.0	2694.4
65°	805.6	1073.2	1418.4	1808.4	2167.4	2505.3	2852.4
67.5°	754.4	1044.0	1433.0	1891.5	2330.9	2722.7	3147.4
70°	665.8	960.8	1390.1	1893.4	2393.9	2844.2	3333.7
72.5°	535.2	802.8	1204.7	1722.6	2227.7	2724.5	3285.3
75°	391.8	590.0	910.6	1334.4	1817.6	2267.8	2814.0
77.5°	260.3	381.8	613.8	950.8	1303.4	1632.2	2025.8
80°	179.0	236.6	358.9	571.8	797.4	957.2	1290.6
82.5°	131.5	156.2	199.1	292.3	383.6	472.2	674.1
85°	82.2	89.5	99.6	144.3	206.4	278.6	420.1
87.5°	21.9	22.8	21.0	28.3	44.8	42.9	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)