

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: P148945

Luminaire Tested: **TLM-F02-LED-E1-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148945
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TLM-F02-LED-E1-RW
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5157.8 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

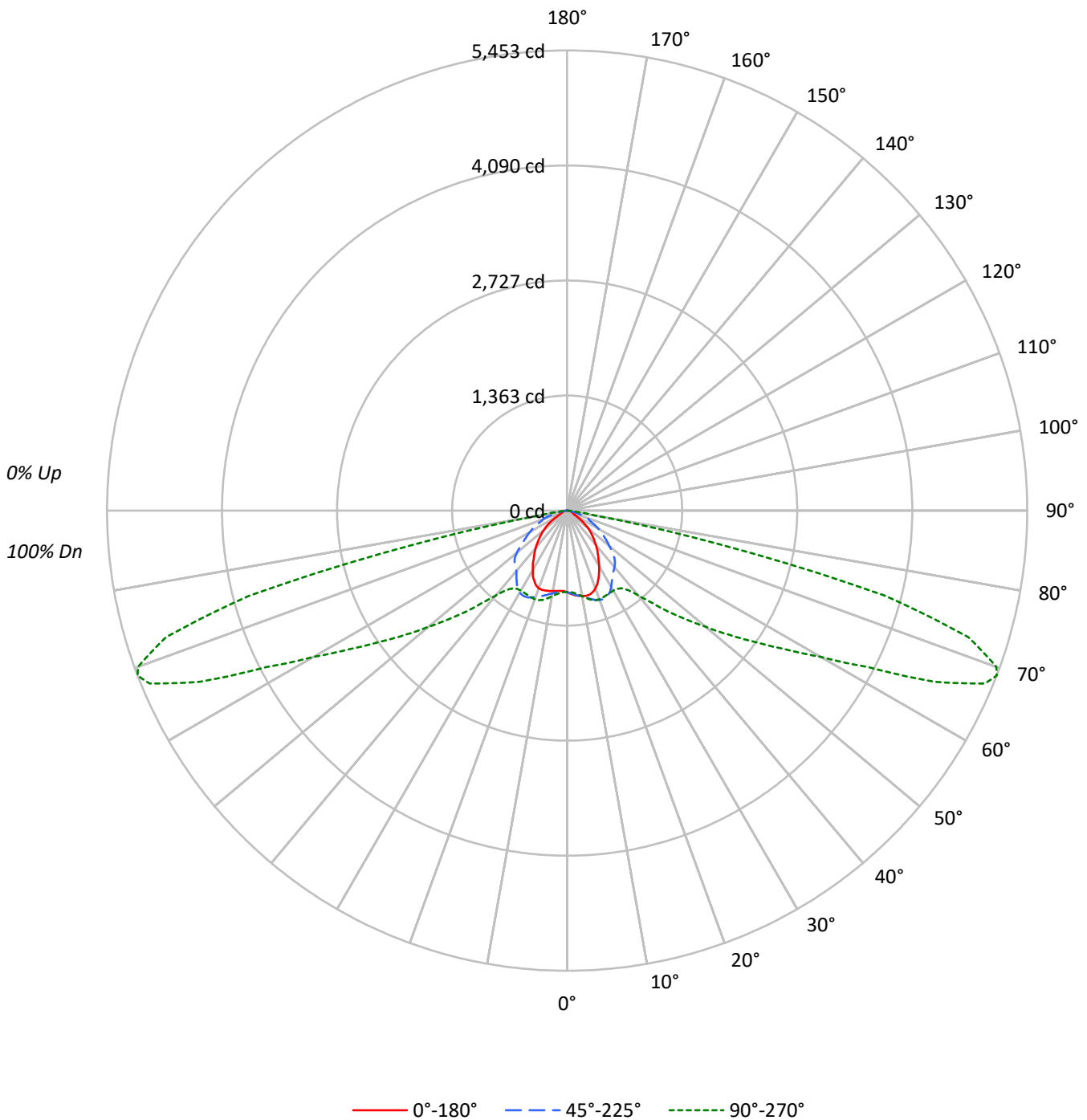
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F02-LED-E1-RW

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	106	101	95	91	104	98	93	89	94	90	86	90	87	84	86	84	81	79
2	94	84	76	69	91	82	75	68	79	72	66	75	70	65	72	67	63	61
3	84	72	62	54	81	70	61	54	67	59	52	64	57	51	61	55	51	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39
5	69	54	44	36	67	53	43	36	51	42	35	49	41	35	47	40	35	32
6	63	48	38	31	61	47	37	30	45	36	30	43	36	30	42	35	29	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	38	31	25	23
8	54	39	29	23	52	38	29	23	37	29	23	35	28	23	34	27	22	20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	31522	31522	31522
5°	32923	32094	31266
10°	34052	34161	32101
15°	34829	36963	33117
20°	33986	38800	34062
25°	31711	39754	33136
30°	28542	41268	30658
35°	25357	44729	27415
40°	22354	55656	24700
45°	19549	77990	21579
50°	16451	108720	18517
55°	11863	154293	14552
60°	7072	225938	8689
65°	6375	370181	6375
70°	6504	516248	6609
75°	6931	491337	7284
80°	7025	63264	7645
85°	4528	15868	6400



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.8
10°-20°	299.0	5.8
20°-30°	484.5	9.4
30°-40°	603.8	11.7
40°-50°	754.5	14.6
50°-60°	931.6	18.1
60°-70°	1157.6	22.4
70°-80°	768.5	14.9
80°-90°	63.5	1.2
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°	878.3	17.0
0°-40°	1482.1	28.7
0°-60°	3168.2	61.4
0°-90°	5157.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5157.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	966	966	966	966	966	
5°	1006	999	980	965	955	97
15°	1031	1084	1095	1041	981	289
25°	881	1122	1105	1133	921	403
35°	637	938	1123	1044	688	399
45°	424	790	1691	882	468	327
55°	209	534	2713	626	256	186
65°	83	310	4796	394	83	83
75°	55	122	3899	159	58	57
85°	12	23	42	30	17	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4
2.5°	988.4	991.7	988.4	988.4	985.7	982.9	981.3	977.4	975.2	974.1	974.1
5°	1005.5	1004.9	1005.5	1005.5	1002.7	999.4	997.2	993.9	990.6	990.1	989.5
7.5°	1018.1	1017.6	1019.2	1022.6	1020.9	1018.1	1018.1	1014.8	1012.6	1012.6	1011.5
10°	1028.1	1028.6	1031.9	1036.9	1038.0	1037.4	1041.3	1040.2	1039.1	1040.2	1039.1
12.5°	1034.7	1035.2	1039.6	1049.0	1055.0	1058.9	1068.8	1069.3	1069.9	1069.9	1069.9
15°	1031.4	1031.4	1040.2	1057.8	1072.6	1084.2	1096.8	1099.0	1096.8	1098.5	1097.4
17.5°	1012.1	1013.2	1027.5	1054.5	1084.7	1110.1	1123.8	1120.0	1116.1	1116.1	1114.5
20°	979.1	981.3	1000.5	1038.5	1086.4	1126.6	1148.0	1135.4	1124.9	1123.3	1121.6
22.5°	938.3	936.7	959.8	1007.7	1073.7	1133.7	1162.9	1147.5	1128.8	1124.9	1122.2
25°	881.1	882.2	906.4	959.8	1041.8	1122.2	1167.3	1159.6	1137.6	1132.6	1126.6
27.5°	818.4	821.1	847.0	901.5	992.3	1093.5	1162.3	1171.7	1154.6	1149.1	1143.6
30°	757.8	759.5	788.7	847.0	931.2	1042.9	1149.1	1184.9	1176.1	1171.7	1166.7
32.5°	693.4	698.9	724.3	790.3	882.8	987.3	1128.8	1198.7	1202.0	1199.2	1196.5
35°	636.8	641.2	669.8	739.1	836.0	937.8	1104.0	1213.5	1236.1	1235.5	1235.0
37.5°	585.6	586.7	616.9	687.4	789.8	903.1	1078.1	1237.7	1277.9	1283.4	1290.0
40°	525.0	530.5	561.9	637.9	744.1	873.4	1056.1	1270.2	1336.2	1348.4	1357.7
42.5°	476.6	476.6	504.7	580.1	690.1	839.3	1048.4	1310.9	1405.6	1422.1	1438.6
45°	423.8	425.4	452.4	521.2	628.5	789.8	1047.3	1356.1	1483.2	1506.9	1527.2
47.5°	373.7	374.8	403.4	470.0	564.7	721.5	1033.6	1406.1	1564.6	1598.8	1621.3
50°	324.2	322.5	350.0	417.7	508.0	651.1	989.5	1471.1	1665.9	1700.0	1725.9
52.5°	263.1	267.5	297.2	361.6	452.4	591.1	899.8	1534.9	1770.5	1809.0	1844.2
55°	208.6	208.0	241.6	299.9	392.4	534.4	793.6	1580.1	1872.3	1916.9	1955.9
57.5°	149.7	151.3	180.0	237.8	330.2	483.8	713.3	1572.3	1951.0	2003.8	2053.4
60°	108.4	111.7	133.2	175.6	263.6	425.4	657.1	1483.2	2004.9	2077.0	2137.0
62.5°	91.4	94.1	112.8	135.9	203.6	364.3	602.6	1340.1	2074.8	2170.0	2257.0
65°	82.6	84.8	103.5	116.7	156.3	309.8	568.5	1238.8	2166.7	2311.5	2430.3
67.5°	74.3	77.6	94.1	104.0	132.6	276.8	558.6	1223.4	2184.3	2375.9	2544.8
69°	70.4	73.7	88.6	97.4	124.9	266.4	539.9	1167.8	2069.3	2275.1	2464.5
70°	68.2	71.0	84.2	93.6	122.7	256.5	513.5	1086.4	1947.1	2154.6	2358.2
72.5°	62.7	64.4	75.4	84.8	112.8	197.0	389.1	784.8	1453.5	1658.8	1858.5
75°	55.0	56.7	66.6	75.9	87.5	122.2	236.1	465.6	892.1	1030.3	1230.6
77.5°	47.3	49.0	57.2	71.5	69.3	79.8	144.2	278.5	467.8	536.6	664.8
80°	37.4	39.6	47.9	68.8	57.8	63.3	105.7	205.8	284.5	313.1	346.7
82.5°	26.4	27.5	36.3	55.0	43.5	47.9	79.3	171.2	228.4	249.3	259.2
85°	12.1	12.7	21.5	32.5	25.9	23.1	42.4	109.5	151.3	157.4	166.2
87.5°	0.0	0.0	2.2	2.2	4.4	2.8	5.0	13.8	23.1	23.1	28.1
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4
2.5°	974.7	974.1	974.7	974.7	975.2	973.0	972.5	971.9	971.4	971.9	970.8
5°	989.5	989.0	989.0	989.5	989.0	987.3	986.8	986.8	985.1	984.6	984.6
7.5°	1012.1	1011.0	1009.3	1010.4	1011.0	1010.4	1011.0	1009.3	1009.3	1007.7	1008.2
10°	1040.2	1039.1	1038.5	1039.6	1040.2	1039.6	1040.2	1038.0	1037.4	1036.9	1035.8
12.5°	1071.0	1068.8	1070.4	1070.4	1071.0	1073.2	1070.4	1071.5	1069.3	1069.3	1068.8
15°	1097.9	1097.4	1098.5	1098.5	1097.9	1099.6	1099.0	1099.6	1096.8	1095.7	1098.5
17.5°	1115.0	1113.4	1113.9	1113.4	1113.4	1113.4	1114.5	1114.5	1112.8	1112.3	1113.4
20°	1119.4	1116.7	1116.1	1115.6	1114.5	1114.5	1115.0	1113.9	1112.8	1111.7	1112.8
22.5°	1118.3	1115.0	1111.7	1110.1	1108.4	1106.2	1105.7	1104.6	1102.9	1102.9	1103.5
25°	1122.2	1116.1	1111.2	1107.9	1103.5	1100.7	1098.5	1095.7	1093.0	1091.3	1091.9
27.5°	1135.4	1128.8	1122.2	1115.6	1109.0	1103.5	1099.0	1094.1	1089.7	1086.4	1084.7
30°	1160.1	1151.3	1143.6	1135.9	1127.7	1120.0	1112.8	1105.1	1096.8	1091.9	1087.5
32.5°	1188.8	1182.7	1177.7	1168.9	1160.1	1150.8	1142.0	1135.4	1123.3	1113.9	1106.2
35°	1232.2	1230.0	1227.3	1220.7	1210.8	1205.8	1198.7	1188.2	1173.9	1165.6	1154.1
37.5°	1292.2	1292.8	1290.6	1287.8	1288.9	1279.6	1275.2	1274.1	1259.8	1254.2	1237.2
40°	1366.0	1374.2	1381.4	1381.4	1386.9	1387.4	1386.3	1395.7	1385.2	1387.4	1369.3
42.5°	1448.0	1467.8	1478.8	1487.0	1505.2	1513.5	1527.2	1547.6	1548.7	1559.1	1560.2
45°	1544.8	1566.8	1587.8	1609.2	1633.4	1662.1	1690.7	1711.6	1744.6	1751.8	1775.4
47.5°	1645.5	1677.5	1701.7	1729.2	1770.5	1807.3	1849.7	1892.7	1930.6	1957.6	1973.0
50°	1756.7	1789.2	1824.4	1855.2	1899.3	1951.0	2009.9	2068.8	2117.7	2165.6	2204.2
52.5°	1880.0	1915.8	1948.8	1989.0	2033.5	2095.2	2159.6	2240.5	2306.0	2371.5	2418.8
55°	1998.3	2038.5	2068.8	2119.9	2166.2	2229.5	2309.3	2405.0	2495.8	2575.1	2639.5
57.5°	2101.2	2140.9	2183.2	2227.3	2283.4	2346.7	2444.7	2553.6	2657.1	2761.1	2856.3
60°	2197.5	2250.9	2297.2	2355.5	2411.6	2484.8	2601.5	2736.3	2877.8	3007.1	3102.3
62.5°	2342.8	2411.1	2465.6	2537.7	2615.8	2702.2	2831.0	2979.6	3164.0	3330.7	3478.8
65°	2545.9	2650.5	2738.5	2827.1	2922.4	3041.2	3180.5	3369.2	3572.9	3819.4	4014.8
67.5°	2690.7	2821.6	2935.6	3046.7	3156.3	3287.8	3460.1	3681.3	3944.9	4204.1	4452.3
69°	2632.3	2771.0	2897.6	3008.2	3123.8	3255.3	3423.2	3665.9	3934.5	4219.5	4465.5
70°	2509.6	2659.3	2794.7	2900.3	3018.7	3149.1	3334.6	3566.3	3840.3	4135.3	4376.4
72.5°	2018.1	2176.1	2309.8	2427.0	2550.9	2703.9	2869.0	3091.3	3395.1	3684.0	3898.7
75°	1390.2	1537.7	1689.0	1776.5	1918.5	2027.5	2184.3	2412.2	2665.9	2878.3	3077.0
77.5°	786.5	865.7	980.2	1015.9	1117.8	1190.4	1273.5	1413.8	1545.9	1669.2	1705.0
80°	357.7	334.1	345.6	328.0	347.3	335.2	321.4	329.1	327.5	352.2	329.1
82.5°	257.6	222.3	184.9	159.6	140.3	118.9	101.3	90.8	89.7	94.1	92.5
85°	164.6	150.2	117.8	94.7	72.6	56.1	46.8	42.4	42.4	45.1	44.6
87.5°	28.6	24.8	15.4	13.2	11.6	7.7	5.0	5.0	4.4	5.5	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4
2.5°	970.8	970.3	969.2	968.6	968.6	967.5	967.0	968.1	968.6	969.2	967.5
5°	984.6	982.9	982.4	982.9	980.2	980.7	980.2	980.7	980.7	980.7	979.6
7.5°	1006.6	1004.9	1006.0	1004.9	1003.3	1002.7	1002.7	1001.1	998.9	998.3	998.9
10°	1036.9	1034.7	1035.2	1035.8	1034.1	1033.0	1031.4	1029.2	1029.2	1028.6	1027.5
12.5°	1069.3	1068.2	1068.2	1068.8	1068.2	1066.0	1063.8	1062.7	1062.2	1062.2	1062.2
15°	1097.4	1096.8	1097.4	1096.8	1096.8	1095.7	1094.6	1093.0	1092.4	1093.0	1093.5
17.5°	1113.4	1111.7	1113.4	1113.9	1113.4	1113.4	1113.4	1112.3	1111.7	1111.7	1112.3
20°	1114.5	1113.4	1114.5	1116.1	1116.1	1116.7	1117.8	1118.3	1117.8	1118.9	1119.4
22.5°	1103.5	1103.5	1105.1	1106.8	1109.5	1110.6	1112.8	1113.9	1115.0	1116.7	1117.8
25°	1092.4	1091.9	1093.5	1096.8	1099.0	1101.8	1104.6	1106.8	1109.0	1111.2	1113.4
27.5°	1084.7	1084.2	1085.3	1088.0	1090.8	1094.1	1098.5	1101.8	1104.6	1107.3	1109.0
30°	1085.3	1083.1	1082.5	1084.7	1087.5	1091.3	1095.7	1099.6	1103.5	1105.7	1107.3
32.5°	1101.3	1095.7	1093.5	1093.0	1094.1	1096.8	1100.1	1104.0	1106.8	1109.0	1109.5
35°	1142.5	1132.1	1129.9	1122.7	1123.8	1123.3	1123.3	1125.5	1127.7	1127.7	1123.8
37.5°	1226.2	1211.3	1200.9	1193.7	1186.6	1186.0	1184.9	1183.8	1178.3	1175.0	1174.4
40°	1356.6	1350.6	1330.7	1325.2	1313.1	1304.9	1307.1	1302.7	1289.5	1284.5	1282.3
42.5°	1547.0	1550.3	1539.3	1513.5	1503.0	1487.0	1473.8	1471.6	1459.5	1449.6	1441.9
45°	1770.5	1776.5	1768.3	1749.6	1730.9	1706.6	1690.7	1659.9	1647.7	1632.3	1621.9
47.5°	2000.0	2016.5	2003.3	1986.8	1976.3	1938.3	1905.3	1869.5	1851.4	1829.4	1819.5
50°	2227.8	2257.0	2249.3	2233.9	2222.3	2174.4	2142.5	2093.0	2082.5	2060.5	2048.4
52.5°	2455.7	2484.3	2501.3	2487.0	2478.8	2440.3	2418.2	2378.6	2348.9	2335.1	2334.6
55°	2685.7	2731.9	2758.9	2754.0	2740.2	2735.2	2713.2	2709.4	2686.3	2671.4	2651.6
57.5°	2910.8	2959.8	3006.6	3034.1	3045.6	3041.8	3052.2	3051.1	3054.4	3052.8	3020.3
60°	3197.0	3274.6	3342.8	3386.3	3427.6	3456.2	3463.4	3505.7	3493.6	3520.0	3469.4
62.5°	3600.9	3701.7	3805.1	3850.8	3901.4	3994.4	4016.5	4066.5	4074.2	4080.8	4053.9
65°	4163.9	4296.0	4452.3	4522.2	4601.5	4720.9	4796.3	4849.7	4848.0	4811.7	4777.0
67.5°	4644.4	4800.7	4944.3	5066.0	5184.3	5277.3	5356.6	5428.7	5432.5	5409.9	5350.5
69°	4685.7	4849.1	5005.4	5151.8	5269.1	5372.5	5452.9	5509.0	5521.1	5501.3	5446.3
70°	4609.2	4774.3	4944.3	5084.7	5217.3	5326.8	5413.2	5467.2	5483.7	5463.3	5411.6
72.5°	4138.6	4298.8	4425.9	4591.0	4779.8	4848.6	4981.8	5025.8	5066.5	5039.6	5008.7
75°	3242.1	3392.9	3524.4	3610.3	3696.7	3866.8	3898.7	3981.2	4009.3	3982.9	4017.0
77.5°	1689.0	1790.8	1834.9	1766.1	1776.5	1910.8	1834.9	1924.0	1975.2	1990.1	2011.5
80°	323.1	339.6	352.2	347.8	352.2	362.1	336.8	323.1	341.2	337.4	337.4
82.5°	95.2	93.6	93.6	98.5	98.0	100.2	100.2	96.3	99.1	99.1	99.6
85°	43.5	41.3	40.7	41.3	40.7	40.7	42.4	42.4	45.7	42.9	43.5
87.5°	5.5	5.0	5.5	5.5	4.4	4.4	5.0	5.5	5.5	5.0	5.0
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: P148945

CATALOG NUMBER: TLM-F02-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4	966.4
2.5°	967.0	966.4	966.4	966.4	965.9	965.3	964.8	963.1	961.5	960.9	958.2
5°	977.4	978.0	976.9	975.8	975.8	975.8	974.1	969.7	966.4	964.8	960.9
7.5°	999.4	998.3	996.7	996.1	995.0	995.6	992.3	986.8	980.7	976.9	970.8
10°	1028.6	1027.5	1026.4	1025.3	1023.7	1023.7	1019.8	1011.5	1002.2	995.6	984.6
12.5°	1062.7	1061.6	1060.5	1060.0	1057.2	1056.7	1051.2	1041.3	1029.2	1016.5	1000.5
15°	1094.1	1092.4	1091.9	1090.2	1088.6	1088.0	1083.1	1069.9	1055.0	1040.7	1019.8
17.5°	1113.9	1112.8	1111.2	1110.1	1109.5	1109.0	1101.8	1090.8	1079.2	1064.9	1039.6
20°	1120.5	1121.1	1120.0	1118.9	1117.2	1116.1	1109.5	1099.0	1096.8	1089.1	1063.3
22.5°	1119.4	1119.4	1118.9	1116.7	1115.6	1112.8	1103.5	1098.5	1110.6	1113.9	1080.9
25°	1115.0	1114.5	1112.8	1111.2	1107.9	1104.0	1089.7	1092.4	1126.6	1132.6	1084.7
27.5°	1110.1	1109.5	1106.8	1102.9	1097.9	1092.4	1074.3	1092.4	1141.4	1136.5	1068.8
30°	1107.3	1105.1	1101.3	1095.7	1089.1	1083.1	1063.3	1106.8	1151.9	1123.3	1024.8
32.5°	1107.9	1104.0	1098.5	1091.3	1083.6	1076.5	1062.7	1132.1	1155.7	1091.3	962.6
35°	1121.1	1115.0	1107.9	1100.7	1093.0	1086.4	1087.5	1167.3	1155.2	1043.5	902.6
37.5°	1168.9	1158.5	1153.5	1145.8	1134.8	1129.3	1151.3	1206.4	1147.5	985.1	849.7
40°	1274.6	1265.8	1258.7	1238.8	1242.7	1238.3	1259.2	1259.8	1137.6	936.1	805.7
42.5°	1428.7	1428.7	1413.3	1410.5	1400.1	1405.0	1414.4	1322.5	1127.7	907.0	762.2
45°	1610.3	1624.1	1618.0	1616.4	1624.6	1634.5	1591.6	1396.8	1128.2	881.7	711.6
47.5°	1826.1	1837.6	1843.7	1853.6	1864.0	1858.0	1769.4	1474.9	1138.1	845.3	646.7
50°	2055.6	2083.6	2092.4	2105.1	2114.4	2116.1	1937.8	1555.3	1148.6	778.7	576.2
52.5°	2340.1	2366.5	2375.9	2384.7	2377.5	2371.5	2102.9	1650.5	1140.3	699.5	516.2
55°	2674.7	2679.7	2678.0	2667.0	2660.9	2627.9	2255.9	1751.8	1075.9	626.3	459.0
57.5°	3023.1	3025.3	3005.5	2966.9	2922.4	2891.0	2402.8	1835.4	939.4	567.4	402.3
60°	3471.6	3426.5	3392.9	3334.0	3261.4	3194.2	2560.2	1882.2	809.0	510.7	338.5
62.5°	4013.2	3922.9	3850.2	3790.8	3683.5	3565.2	2761.1	1888.3	729.8	456.8	265.8
65°	4714.3	4619.1	4495.3	4393.4	4277.3	4117.7	3085.3	1844.8	690.7	394.1	194.3
67.5°	5266.3	5170.0	5031.3	4917.4	4767.7	4581.7	3353.8	1768.8	681.3	337.4	153.0
69°	5362.6	5257.5	5132.6	4990.0	4831.0	4632.3	3364.3	1680.8	667.0	315.9	140.3
70°	5327.4	5217.9	5097.3	4946.0	4767.7	4563.5	3285.0	1582.8	638.4	303.8	135.9
72.5°	4932.2	4765.5	4644.4	4515.1	4298.2	4091.3	2828.2	1197.6	497.0	255.9	127.1
75°	3948.8	3806.2	3669.7	3605.3	3425.4	3249.8	2123.3	760.6	324.7	159.1	99.6
77.5°	2013.2	1987.3	2026.4	1997.2	1867.3	1867.3	1310.4	404.0	191.0	95.8	75.9
80°	361.6	377.0	369.8	385.2	358.3	397.9	460.6	271.3	135.4	73.2	62.2
82.5°	101.3	102.4	101.3	101.8	105.1	110.6	239.4	233.3	104.6	55.0	48.4
85°	47.3	47.9	49.0	49.0	53.4	54.5	160.7	167.3	61.1	30.3	32.5
87.5°	5.5	7.2	7.2	6.6	7.7	7.7	29.7	33.6	8.3	6.1	9.9
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: P148945

CATALOG NUMBER: TLM-F02-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	966.4	966.4	966.4	966.4
2.5°	956.0	953.8	951.6	953.2
5°	959.3	956.0	953.2	954.9
7.5°	968.1	962.6	962.0	962.0
10°	979.1	971.4	969.2	969.2
12.5°	990.6	980.2	976.3	976.3
15°	1002.7	987.9	982.4	980.7
17.5°	1016.5	995.6	985.7	985.7
20°	1029.7	996.7	981.8	981.3
22.5°	1031.9	984.0	962.6	961.5
25°	1015.4	954.3	926.2	920.7
27.5°	976.3	908.1	878.4	877.3
30°	917.4	847.5	817.3	814.0
32.5°	859.6	785.3	757.3	757.3
35°	801.3	728.7	692.3	688.5
37.5°	747.4	668.7	636.2	635.7
40°	697.8	616.4	585.0	580.1
42.5°	648.3	561.4	525.6	524.5
45°	589.4	501.4	470.5	467.8
47.5°	526.7	447.4	415.0	414.4
50°	470.0	397.4	364.9	364.9
52.5°	418.3	348.4	315.9	312.6
55°	359.9	292.8	259.8	255.9
57.5°	296.6	230.6	200.9	192.6
60°	229.5	167.9	137.6	133.2
62.5°	167.3	122.7	100.2	96.9
65°	126.0	104.6	85.9	82.6
67.5°	108.4	94.1	78.1	74.8
69°	100.7	89.2	74.8	71.5
70°	97.4	85.9	72.1	69.3
72.5°	89.7	78.7	66.0	64.9
75°	82.0	71.5	59.4	57.8
77.5°	79.3	62.2	51.2	50.1
80°	80.9	50.6	41.8	40.7
82.5°	66.0	40.7	32.5	30.8
85°	41.3	27.5	17.1	17.1
87.5°	10.5	8.8	5.0	5.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)