

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: P154544

Luminaire Tested: **TLM-F02-LED-E1-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P154544
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
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-T2-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4620.3 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 2.21 / 4.51 / 2.52
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

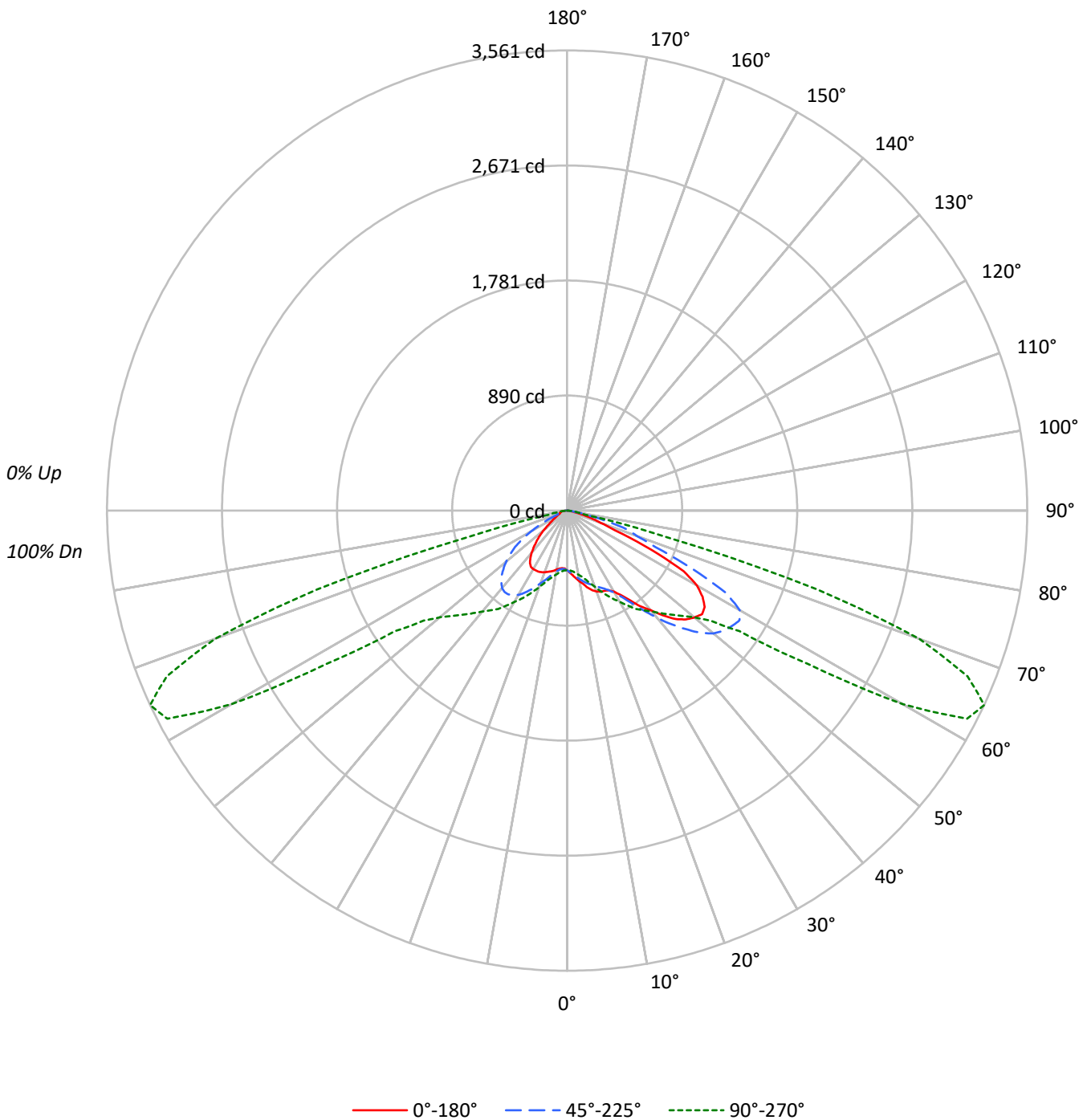
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F02-LED-E1-T2-7030

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	107	101	96	91	104	98	94	90	94	90	87	90	87	84	86	84	81	79
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61
3	84	71	61	53	81	69	60	53	66	58	51	63	56	50	60	54	50	47
4	75	60	50	42	72	59	49	41	56	48	41	54	46	40	51	45	39	37
5	67	52	42	34	65	51	41	33	49	40	33	46	39	33	44	38	32	30
6	61	46	35	28	59	45	35	27	43	34	27	41	33	27	39	32	27	24
7	56	40	30	23	54	40	30	23	38	29	23	36	28	23	35	28	22	20
8	52	36	26	20	50	35	26	20	34	26	19	33	25	19	31	24	19	17
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	28	22	17	15
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	19	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	15066	15066	15066
5°	16476	15438	14649
10°	18429	16700	15299
15°	20879	18654	16449
20°	23152	21844	17623
25°	24657	25960	18780
30°	27223	30689	19691
35°	33707	37028	19957
40°	42784	43427	18173
45°	54792	52541	15329
50°	65273	65095	11960
55°	73894	92529	8519
60°	75647	195473	6687
65°	55632	274832	5626
70°	26417	276511	5560
75°	14380	102686	6780
80°	6800	16436	8678
85°	3181	10142	10142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.3	1.0
10°-20°	158.9	3.4
20°-30°	312.2	6.8
30°-40°	518.7	11.2
40°-50°	762.1	16.5
50°-60°	1055.1	22.8
60°-70°	1259.4	27.3
70°-80°	445.4	9.6
80°-90°	62.2	1.3
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°	517.3	11.2
0°-40°	1036.0	22.4
0°-60°	2853.2	61.8
0°-90°	4620.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4620.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	462	462	462	462	462	
5°	503	494	472	453	447	50
15°	618	580	552	530	487	176
25°	685	664	721	678	522	319
35°	846	875	930	792	501	541
45°	1188	1296	1139	718	332	909
55°	1299	1558	1627	491	150	1138
65°	721	1074	3561	152	73	703
75°	114	323	815	61	54	141
85°	8	18	27	46	27	12
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	482.1	482.6	481.6	481.0	479.5	477.0	475.0	473.0	473.0	473.0	471.5
5°	503.2	504.2	502.2	500.7	496.1	493.6	490.1	487.6	486.6	486.1	484.6
7.5°	529.8	528.3	525.3	524.3	520.8	515.2	508.7	503.7	503.7	503.2	503.7
10°	556.4	552.4	550.9	549.4	543.9	536.8	529.3	523.8	523.3	522.8	521.3
12.5°	583.1	581.6	580.1	574.5	569.0	558.0	549.4	543.9	543.4	543.9	541.9
15°	618.3	614.8	613.2	603.7	591.6	579.6	569.0	564.0	562.5	563.0	561.5
17.5°	645.4	645.4	641.9	631.3	615.8	599.2	588.1	585.1	584.6	584.6	585.1
20°	667.0	666.5	663.0	654.5	635.9	619.3	613.8	612.7	612.2	612.2	613.8
22.5°	679.1	678.1	676.6	667.0	652.5	641.4	641.9	644.9	645.9	646.9	648.9
25°	685.1	683.6	683.1	676.6	666.0	664.5	673.6	681.6	683.6	685.6	688.1
27.5°	695.2	692.7	693.7	691.2	688.6	693.2	711.8	720.3	721.8	724.3	725.8
30°	722.8	721.8	725.8	726.8	728.9	735.4	752.5	760.5	764.0	764.0	771.1
32.5°	775.6	776.1	777.1	787.7	791.2	795.7	804.8	811.3	811.8	812.3	818.8
35°	846.5	849.5	858.0	867.1	875.6	875.1	869.6	873.1	870.6	873.6	874.1
37.5°	936.0	931.9	944.5	965.1	978.2	974.7	950.0	933.9	938.5	936.5	935.0
40°	1004.8	1009.3	1033.5	1060.6	1070.7	1081.7	1049.6	1021.9	1017.9	1010.4	1005.8
42.5°	1099.8	1100.3	1119.9	1140.0	1169.2	1193.3	1172.7	1133.0	1120.9	1111.9	1092.3
45°	1187.8	1186.3	1202.4	1227.0	1261.7	1296.4	1303.9	1260.7	1256.2	1240.1	1214.4
47.5°	1246.6	1244.6	1255.7	1287.8	1344.1	1400.9	1432.1	1419.0	1410.5	1403.9	1363.7
50°	1286.3	1282.3	1294.9	1329.0	1391.9	1479.3	1560.8	1571.8	1568.3	1568.3	1542.7
52.5°	1316.0	1316.0	1325.0	1352.7	1416.5	1525.6	1671.4	1727.1	1731.7	1736.7	1735.2
55°	1299.4	1301.9	1324.5	1364.7	1432.1	1557.8	1762.8	1885.0	1910.1	1931.2	1955.4
57.5°	1242.6	1251.1	1281.3	1347.1	1436.1	1581.9	1864.4	2106.2	2177.0	2238.4	2333.9
60°	1159.6	1170.7	1214.4	1298.4	1406.4	1542.7	1900.1	2293.1	2405.7	2539.5	2788.8
62.5°	1017.4	1028.4	1071.2	1155.1	1247.6	1392.4	1752.3	2320.8	2500.7	2690.2	3067.2
65°	720.8	703.2	752.5	827.9	933.9	1074.2	1416.0	2135.3	2394.2	2651.0	3116.5
67.5°	401.6	400.1	430.3	486.6	588.1	738.9	975.7	1637.7	1875.9	2167.0	2738.5
70°	277.0	280.0	299.1	359.9	443.9	574.0	695.2	1028.4	1199.9	1397.4	1959.4
72.5°	194.5	201.1	211.6	247.8	333.8	483.6	710.3	614.8	700.2	834.9	1178.2
75°	114.1	118.6	126.2	143.8	190.0	323.2	735.4	540.4	540.4	572.0	712.8
77.5°	70.4	70.4	74.9	81.9	101.0	158.3	523.8	607.2	590.1	572.0	573.5
80°	36.2	38.7	45.2	48.8	56.3	72.4	235.2	566.5	621.3	658.0	632.3
82.5°	16.6	18.6	27.6	29.7	32.7	38.2	80.9	322.2	431.8	568.5	710.3
85°	8.5	8.5	14.6	18.1	19.6	17.6	29.7	130.2	197.0	300.6	470.5
87.5°	1.5	1.5	2.5	3.0	4.5	4.0	5.0	7.5	12.6	13.6	14.1
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	471.0	471.5	471.0	470.5	469.5	469.5	469.5	469.0	469.0	469.0	468.5
5°	484.6	482.6	483.1	482.1	481.6	481.0	481.6	480.5	479.5	480.0	479.5
7.5°	501.7	500.7	498.6	498.6	498.1	497.1	497.1	495.6	495.1	494.1	493.6
10°	520.8	518.2	519.3	518.2	518.7	516.7	515.7	514.7	513.7	513.7	514.2
12.5°	540.4	539.9	538.4	537.3	537.3	535.8	536.3	535.8	534.3	533.8	532.3
15°	560.5	560.5	559.0	559.5	559.0	558.0	556.9	556.9	555.9	554.9	555.4
17.5°	584.1	584.1	584.1	584.1	584.6	583.1	583.6	582.6	581.6	583.6	583.6
20°	614.8	616.8	616.8	616.3	618.8	617.3	616.8	619.3	616.8	620.3	619.8
22.5°	649.9	652.0	652.0	654.0	654.5	656.0	657.0	656.0	658.0	660.0	660.0
25°	689.2	691.2	692.7	695.7	697.2	696.2	696.7	699.2	700.2	702.2	704.2
27.5°	730.4	730.9	732.9	736.4	738.9	739.9	740.4	744.4	744.9	746.0	748.0
30°	770.6	775.6	774.6	779.1	780.6	782.1	785.2	786.7	790.2	792.2	792.2
32.5°	817.8	816.8	820.8	824.4	826.9	829.4	831.9	833.9	835.9	836.9	842.0
35°	876.6	878.7	878.7	879.2	885.2	885.7	887.7	892.2	893.7	896.7	898.8
37.5°	935.0	931.4	930.9	930.9	928.9	930.4	930.9	931.4	933.4	933.9	936.0
40°	1000.3	995.8	991.8	989.2	985.2	979.7	978.7	976.2	977.7	977.2	977.7
42.5°	1089.8	1077.2	1067.7	1060.6	1052.6	1046.5	1042.0	1035.5	1031.0	1025.4	1024.4
45°	1203.9	1180.3	1164.2	1152.6	1141.0	1124.5	1114.9	1104.9	1095.8	1086.8	1079.2
47.5°	1353.7	1328.5	1302.9	1281.8	1263.7	1237.1	1209.9	1194.8	1177.2	1161.7	1150.6
50°	1530.1	1499.9	1487.9	1458.2	1435.6	1395.4	1361.7	1337.1	1301.9	1278.3	1257.7
52.5°	1710.6	1703.0	1696.5	1671.4	1644.7	1621.6	1591.9	1548.7	1513.0	1485.9	1443.6
55°	1956.4	1959.9	1957.4	1943.8	1934.2	1912.1	1900.1	1862.4	1846.3	1807.1	1762.8
57.5°	2370.1	2398.2	2433.9	2448.0	2467.1	2449.0	2470.1	2495.7	2431.9	2454.0	2414.3
60°	2898.4	3027.5	3104.4	3198.9	3260.8	3347.2	3362.8	3385.4	3378.9	3391.5	3417.1
62.5°	3221.1	3374.4	3521.7	3628.7	3743.3	3806.7	3883.1	3936.3	3991.6	4028.8	4018.3
65°	3316.1	3473.9	3607.6	3724.7	3827.3	3904.7	3975.6	4042.4	4093.2	4128.9	4150.0
67.5°	2967.2	3173.3	3314.1	3451.3	3583.5	3664.9	3724.2	3789.1	3863.5	3925.3	3937.4
70°	2232.8	2542.0	2741.5	2905.9	3061.2	3170.8	3253.7	3314.1	3371.9	3416.1	3464.3
72.5°	1396.4	1666.8	1895.0	2108.2	2273.0	2423.8	2493.7	2627.4	2609.8	2643.5	2679.7
75°	836.9	968.6	1094.3	1244.6	1331.0	1456.7	1479.3	1501.5	1489.9	1452.2	1480.3
77.5°	581.6	603.2	602.2	593.6	584.6	562.5	533.8	518.2	507.7	492.6	498.6
80°	585.1	538.4	467.0	392.6	324.2	279.0	260.9	260.9	279.5	306.1	332.8
82.5°	699.2	649.4	579.1	484.6	384.0	312.7	264.9	245.8	249.3	276.5	310.6
85°	471.5	482.6	423.2	387.0	306.6	238.8	200.1	162.4	143.8	148.3	167.9
87.5°	17.1	20.6	7.5	10.1	7.0	6.0	6.0	6.5	4.5	5.5	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



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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	468.0	467.5	467.5	466.5	466.5	466.0	466.0	465.5	465.0	465.0	464.5
5°	479.0	478.5	477.5	477.0	476.0	476.0	475.5	474.5	474.5	473.5	473.0
7.5°	494.6	493.6	492.6	492.1	491.6	490.1	490.1	489.1	489.1	488.1	487.6
10°	513.2	512.2	511.2	511.7	510.2	509.7	508.7	508.7	507.2	506.7	506.7
12.5°	533.3	532.8	532.8	531.3	530.8	530.3	528.3	528.3	528.3	527.3	527.8
15°	554.9	555.4	553.9	555.4	554.9	553.4	553.4	553.4	551.4	553.9	551.9
17.5°	584.1	585.6	584.6	585.1	584.1	584.1	584.6	584.1	585.1	585.1	588.1
20°	620.3	620.8	623.3	622.3	622.3	621.8	622.8	623.3	625.3	624.3	626.3
22.5°	660.0	662.5	663.0	665.0	665.0	664.5	665.5	667.5	668.5	670.0	669.5
25°	705.2	706.7	708.8	706.2	710.3	710.3	711.3	713.8	714.3	714.3	717.8
27.5°	747.5	751.5	752.0	754.5	753.0	754.0	757.5	759.0	761.0	761.0	762.0
30°	795.2	796.7	797.7	800.7	800.2	800.7	801.2	803.8	803.8	806.3	808.8
32.5°	844.5	845.5	846.5	849.5	850.5	852.5	851.5	853.5	856.0	856.5	858.0
35°	903.3	904.3	905.3	909.8	910.3	913.8	914.8	913.8	917.9	915.3	917.9
37.5°	937.5	942.0	943.0	946.0	945.0	947.5	949.0	951.0	952.0	954.1	958.1
40°	979.2	980.7	983.7	985.2	987.2	987.7	989.7	991.3	992.8	997.3	1001.8
42.5°	1021.9	1023.9	1025.4	1027.4	1030.0	1032.0	1033.5	1038.0	1039.0	1042.0	1050.6
45°	1073.7	1072.7	1073.2	1073.7	1074.7	1077.2	1081.7	1086.3	1089.3	1096.3	1103.3
47.5°	1138.0	1131.5	1129.0	1125.0	1126.0	1131.5	1132.5	1140.0	1146.1	1152.6	1161.1
50°	1235.5	1218.0	1207.4	1196.8	1195.8	1198.8	1202.9	1210.9	1218.0	1226.5	1238.6
52.5°	1399.4	1365.7	1344.6	1315.5	1307.4	1305.9	1302.9	1307.4	1309.4	1321.0	1343.6
55°	1731.2	1668.8	1628.6	1583.4	1541.2	1528.6	1504.5	1509.5	1504.5	1511.5	1545.2
57.5°	2423.8	2374.1	2334.9	2277.1	2204.7	2127.8	2108.7	2029.8	2045.3	2090.6	2061.4
60°	3429.7	3411.6	3383.4	3355.8	3256.7	3201.0	3110.0	3099.9	3036.1	3036.6	2994.9
62.5°	3992.6	4015.8	3998.7	3990.6	3985.1	3967.5	3922.3	3868.0	3786.6	3727.7	3641.3
65°	4153.5	4133.9	4115.3	4112.8	4111.3	4139.9	4146.5	4108.3	4034.4	3942.9	3843.4
67.5°	3966.0	3954.9	3956.0	3934.8	3947.9	3997.7	4032.4	4021.8	3953.9	3843.4	3716.7
70°	3519.6	3498.0	3520.1	3547.8	3567.4	3596.0	3630.7	3639.3	3577.4	3463.8	3334.7
72.5°	2635.5	2639.0	2660.1	2667.6	2746.5	2738.5	2769.7	2668.1	2623.4	2515.3	2449.0
75°	1386.8	1364.2	1423.0	1298.4	1247.1	1282.8	1182.8	1086.8	1106.9	1123.5	1003.8
77.5°	490.1	458.4	404.6	383.0	318.7	269.9	220.7	199.1	187.5	181.5	173.9
80°	351.9	361.9	350.9	324.7	276.0	221.2	174.4	137.7	118.1	107.6	100.5
82.5°	355.9	395.6	413.2	405.6	361.4	273.4	180.5	115.1	85.5	71.4	66.4
85°	191.0	209.1	201.1	169.4	152.3	91.0	62.3	41.7	35.2	32.2	29.7
87.5°	7.5	6.0	5.0	5.0	5.5	6.0	5.0	5.5	5.0	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: P154544

CATALOG NUMBER: TLM-F02-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9	461.9
2.5°	463.5	463.5	463.5	463.0	461.9	459.4	456.9	454.9	453.4	451.9	449.9
5°	472.5	471.5	471.5	471.5	467.5	463.5	459.9	456.4	453.4	450.9	448.9
7.5°	487.6	487.1	485.1	484.6	481.6	475.0	471.0	465.0	461.4	457.9	456.9
10°	505.7	505.2	504.7	504.2	500.1	493.6	488.6	483.1	478.0	473.0	468.0
12.5°	526.8	526.3	525.8	524.3	522.8	519.3	513.7	507.7	501.7	491.1	485.6
15°	552.9	553.9	552.9	552.4	551.4	551.9	548.4	539.9	530.3	516.7	505.2
17.5°	587.6	586.6	586.1	588.1	587.6	590.1	589.1	578.1	563.5	541.9	521.8
20°	625.8	625.8	627.8	629.3	633.9	640.4	637.4	623.8	597.2	567.0	540.9
22.5°	671.6	672.6	674.6	673.6	680.6	691.2	692.2	673.1	638.4	596.7	560.0
25°	719.3	720.3	718.3	721.3	732.9	748.0	751.0	723.8	678.1	623.8	576.1
27.5°	764.5	765.6	765.6	769.6	780.6	806.3	809.3	779.1	718.3	647.4	587.6
30°	808.8	812.8	813.8	814.8	831.4	867.1	873.6	829.9	753.5	665.0	595.7
32.5°	864.6	866.1	868.1	870.6	889.7	933.4	933.4	873.6	776.1	676.1	597.2
35°	924.4	924.9	929.4	929.9	957.1	1000.8	992.3	909.8	792.2	673.6	586.1
37.5°	960.6	962.6	967.1	973.2	1001.8	1063.6	1044.0	941.0	795.2	657.0	561.0
40°	1005.3	1009.3	1013.9	1019.9	1062.6	1127.5	1087.8	960.6	782.6	624.3	523.3
42.5°	1053.6	1059.1	1066.1	1077.2	1128.0	1183.8	1120.9	963.6	754.0	587.6	478.5
45°	1107.9	1117.9	1126.0	1139.0	1196.3	1232.5	1141.0	946.0	717.8	539.4	430.8
47.5°	1170.7	1178.7	1192.8	1206.9	1264.2	1265.7	1143.1	911.8	668.5	491.1	380.0
50°	1248.1	1253.1	1274.2	1282.8	1336.6	1300.4	1128.5	865.6	616.8	436.8	323.7
52.5°	1351.2	1358.2	1385.3	1398.4	1436.6	1347.6	1107.9	815.3	557.5	376.0	265.9
55°	1554.7	1585.4	1604.5	1627.1	1651.7	1454.7	1098.8	761.5	490.6	305.6	210.6
57.5°	2126.3	2116.2	2158.4	2209.7	2209.2	1699.5	1153.1	715.3	411.7	233.7	161.9
60°	2977.8	2987.3	2965.7	2996.4	2898.9	2003.1	1227.5	666.5	322.7	173.9	123.7
62.5°	3610.6	3555.3	3524.7	3488.5	3273.8	2036.3	1173.2	566.5	234.7	122.1	95.0
65°	3760.4	3695.6	3629.7	3560.9	3237.1	1835.7	962.6	415.7	151.8	83.9	75.4
67.5°	3612.6	3508.6	3424.6	3353.8	2966.2	1521.6	703.7	255.4	87.0	67.9	64.3
70°	3229.6	3114.5	2978.8	2899.4	2497.7	1121.4	450.9	137.7	66.9	60.3	58.8
72.5°	2364.0	2269.5	2121.2	2030.3	1793.5	681.6	251.8	77.4	62.3	57.8	55.8
75°	920.9	871.6	809.8	814.8	727.4	301.6	114.1	66.9	60.8	56.8	54.8
77.5°	158.3	154.3	142.8	142.8	162.4	110.1	75.9	67.4	60.3	55.8	52.3
80°	95.0	93.0	88.5	87.5	84.4	77.4	72.9	68.4	59.3	52.8	48.3
82.5°	62.3	59.8	58.3	57.8	62.8	67.9	68.4	67.9	56.3	45.7	39.2
85°	26.6	26.6	26.6	27.1	36.2	54.8	56.3	60.3	46.2	35.7	28.1
87.5°	4.5	5.5	5.5	6.0	6.5	12.1	15.1	19.6	15.6	15.1	13.6
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: P154544

CATALOG NUMBER: TLM-F02-LED-E1-T2-7030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	461.9	461.9	461.9
2.5°	449.4	448.4	448.4
5°	447.9	446.9	447.4
7.5°	453.9	451.9	452.4
10°	465.0	463.0	461.9
12.5°	479.0	476.5	476.5
15°	493.6	487.6	487.1
17.5°	505.7	498.1	497.1
20°	519.3	509.2	507.7
22.5°	531.8	518.2	516.2
25°	540.9	524.3	521.8
27.5°	544.9	525.3	523.3
30°	547.9	525.8	522.8
32.5°	544.9	521.3	518.7
35°	528.3	502.7	501.2
37.5°	499.6	471.0	469.0
40°	461.9	431.8	426.8
42.5°	413.7	385.5	380.0
45°	366.9	334.8	332.3
47.5°	316.7	286.0	287.5
50°	263.9	236.3	235.7
52.5°	213.6	189.5	188.0
55°	168.4	151.3	149.8
57.5°	133.2	124.2	122.6
60°	108.6	104.1	102.5
62.5°	87.5	86.0	85.5
65°	72.9	72.9	72.9
67.5°	63.3	63.8	63.8
70°	58.3	58.8	58.3
72.5°	56.3	57.8	57.8
75°	54.8	55.8	53.8
77.5°	53.8	54.3	50.8
80°	53.3	52.8	46.2
82.5°	46.2	44.7	39.2
85°	42.2	32.2	27.1
87.5°	21.6	15.1	11.6
90°	0.0	0.0	0.0

(END OF REPORT)