

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: P152936

Luminaire Tested: **TLM-F02-LED-E1-SLL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152936
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-F02-LED-E1-SLL-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (14) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

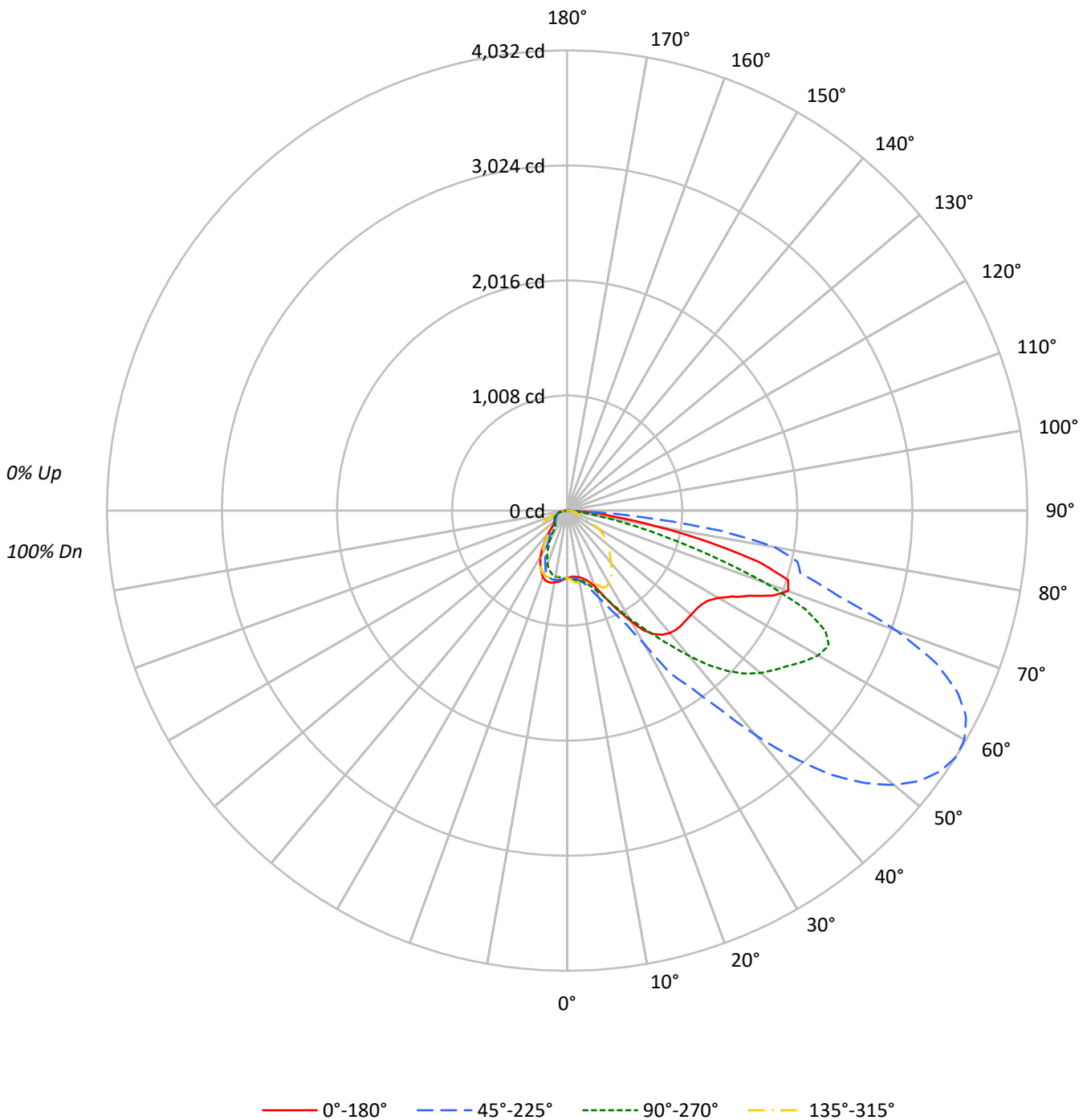
Lumens per Lamp: N/A
Luminaire Lumens: 4713.9 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P152936
CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

Luminous Intensity Polar Plot





TEST NUMBER: P152936

CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

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°	19323	19323	19323	19323
5°	18991	19822	20248	19321
10°	19641	20611	21154	19396
15°	21186	22274	21872	18880
20°	24482	25856	21563	17408
25°	32053	31664	19672	14695
30°	42240	41091	17548	11378
35°	52617	53182	14052	7781
40°	59633	70716	10292	6804
45°	65383	91589	7736	7136
50°	71986	112277	7393	7307
55°	81599	134719	7546	7484
60°	99798	165666	8213	8213
65°	136116	192774	8675	8544
70°	196573	175459	9155	9050
75°	219273	113587	10107	9540
80°	149877	55168	11571	10294
85°	97230	26834	13959	12687



TEST NUMBER: P152936

CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	1.2
10°-20°	179.6	3.8
20°-30°	319.1	6.8
30°-40°	502.4	10.7
40°-50°	739.4	15.7
50°-60°	982.2	20.8
60°-70°	1081.9	23.0
70°-80°	678.8	14.4
80°-90°	172.9	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°	556.3	11.8
0°-40°	1058.8	22.5
0°-60°	2780.4	59.0
0°-90°	4713.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4713.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	592	592	592	592	592	
5°	580	605	618	590	580	56
15°	627	660	648	559	627	182
25°	891	880	547	408	891	420
35°	1321	1336	353	195	1321	819
45°	1417	1986	168	155	1417	1096
55°	1435	2369	133	132	1435	1302
65°	1764	2498	112	111	1764	1775
75°	1740	901	80	76	1740	1701
85°	260	72	37	34	260	300
90°	0	0	0	0	0	



TEST NUMBER: P152936

CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	584.5	585.6	585.6	585.0	585.0	586.2	585.6	585.0	583.4	585.6	585.6
5°	580.0	581.1	581.1	582.2	583.4	584.5	584.5	585.6	585.0	587.3	589.0
7.5°	585.6	586.7	589.0	591.8	593.5	597.5	597.5	600.3	601.4	603.1	602.6
10°	593.0	595.8	600.9	605.4	608.8	613.3	616.7	620.6	620.6	622.3	623.4
12.5°	605.9	608.8	614.4	620.1	625.1	630.8	635.9	639.8	643.8	644.9	647.2
15°	627.4	630.8	639.3	647.2	653.4	660.7	667.5	675.4	682.7	684.4	685.6
17.5°	659.6	666.4	672.6	686.7	695.7	705.3	716.1	727.4	729.6	741.5	744.3
20°	705.3	713.8	719.4	737.0	752.2	764.6	780.4	793.4	798.5	809.8	821.1
22.5°	784.4	782.7	791.2	808.7	820.0	844.8	858.4	871.9	878.7	895.6	904.7
25°	890.6	899.6	918.2	919.9	930.7	959.5	977.0	990.5	991.1	996.2	1005.8
27.5°	995.0	1032.3	1061.7	1077.5	1106.3	1132.8	1131.7	1150.9	1121.0	1127.2	1136.2
30°	1121.5	1183.6	1239.0	1276.3	1305.6	1336.7	1351.9	1362.7	1349.7	1344.0	1333.3
32.5°	1240.1	1327.1	1412.4	1478.4	1533.2	1584.6	1618.5	1633.7	1651.8	1697.5	1713.9
35°	1321.4	1444.5	1550.7	1646.2	1737.6	1819.5	1878.8	1912.7	1899.7	1893.5	1890.1
37.5°	1370.0	1520.2	1652.9	1787.9	1892.9	2015.5	2107.5	2196.7	2217.1	2181.5	2164.0
40°	1400.5	1578.4	1748.9	1908.2	2044.3	2202.4	2316.5	2450.3	2552.0	2565.5	2523.7
42.5°	1415.2	1617.3	1816.1	1996.3	2180.4	2374.1	2518.6	2680.7	2832.6	2937.1	2911.1
45°	1417.4	1642.8	1865.3	2075.9	2295.0	2524.9	2711.2	2890.8	3094.1	3273.1	3278.2
47.5°	1417.4	1662.0	1899.1	2133.5	2397.8	2655.9	2859.2	3071.5	3320.5	3532.3	3597.2
50°	1418.6	1675.0	1930.8	2178.7	2476.3	2766.5	2996.4	3247.1	3509.2	3739.6	3864.9
52.5°	1423.7	1684.6	1955.6	2210.9	2527.1	2844.5	3103.1	3392.3	3653.2	3889.8	4051.8
55°	1434.9	1698.1	1973.7	2230.6	2561.0	2895.3	3180.5	3491.6	3746.3	3986.3	4212.8
57.5°	1466.6	1721.8	1995.7	2248.1	2579.6	2928.6	3234.7	3534.6	3781.9	4032.1	4298.1
60°	1529.8	1772.1	2033.5	2283.2	2610.7	2990.2	3260.7	3505.8	3755.9	4018.5	4317.3
62.5°	1630.9	1850.6	2086.1	2342.4	2699.3	3085.6	3240.9	3419.9	3653.7	3940.0	4248.9
63°	1665.9	1867.5	2097.9	2355.4	2723.6	3103.1	3232.4	3394.5	3632.8	3915.2	4224.6
65°	1763.6	1942.6	2154.4	2420.9	2823.6	3120.6	3166.4	3262.4	3488.3	3773.4	4081.2
67.5°	1946.0	2125.0	2275.8	2531.6	2907.7	3051.7	2961.4	2973.2	3209.3	3504.6	3781.3
70°	2061.2	2274.7	2353.2	2545.7	2892.5	2949.5	2696.0	2539.0	2728.1	3064.7	3307.0
72.5°	2031.3	2276.4	2267.9	2357.7	2587.5	2640.6	2378.0	2130.7	2243.1	2494.4	2651.3
75°	1739.9	2033.0	1970.9	1952.8	2033.5	2068.6	1871.5	1833.6	1975.4	2114.9	2117.1
77.5°	1252.5	1575.0	1502.1	1397.7	1392.0	1472.8	1499.3	1747.2	1956.7	2066.9	2018.3
80°	797.9	1147.5	1071.8	889.4	886.6	991.6	1224.9	1562.0	1783.9	1845.5	1719.0
82.5°	416.8	751.1	779.9	667.5	764.1	938.0	1165.6	1258.8	1342.9	1351.4	1202.3
85°	259.8	461.9	543.3	560.8	690.1	831.8	830.1	797.4	760.1	650.6	588.4
87.5°	29.4	58.2	88.1	83.6	112.4	157.6	196.5	115.2	80.8	29.4	40.7
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: P152936

CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	586.7	587.3	587.9	587.9	590.7	590.1	590.7	591.8	593.5	594.6	595.8
5°	591.3	591.3	593.5	595.2	598.6	600.9	602.0	605.4	609.3	608.2	611.6
7.5°	605.9	605.4	607.6	608.8	611.6	615.5	615.0	617.8	621.2	622.3	625.1
10°	625.7	624.0	624.0	622.9	623.4	622.3	622.3	622.3	624.6	624.0	626.3
12.5°	646.0	645.5	644.3	641.0	641.0	636.4	634.2	631.4	630.8	626.8	627.4
15°	687.8	687.8	685.6	678.8	673.1	669.2	663.5	659.6	653.9	646.6	642.6
17.5°	748.8	740.9	738.1	737.0	727.9	724.5	712.1	699.1	692.9	682.7	677.1
20°	823.4	821.7	810.4	804.7	793.4	777.6	761.8	744.9	734.7	722.3	715.5
22.5°	907.5	895.1	889.4	881.0	863.5	845.4	821.7	799.1	783.3	774.8	769.7
25°	1005.8	993.3	987.7	976.4	954.9	935.7	906.4	879.8	865.7	851.6	843.7
27.5°	1136.2	1124.4	1117.6	1088.2	1080.9	1049.2	1013.1	977.0	958.3	937.4	923.9
30°	1331.0	1331.6	1296.6	1261.0	1224.3	1169.5	1131.7	1091.0	1060.5	1030.6	1000.7
32.5°	1660.3	1576.1	1511.2	1434.9	1355.3	1297.2	1250.3	1201.7	1159.4	1115.9	1066.2
35°	1861.3	1820.6	1736.5	1597.0	1516.8	1446.2	1394.3	1335.6	1283.6	1206.8	1131.1
37.5°	2088.3	1994.0	1891.8	1814.4	1723.5	1641.6	1554.7	1488.0	1398.2	1294.9	1187.6
40°	2419.8	2284.8	2161.7	2057.8	1940.4	1854.5	1757.4	1660.8	1541.7	1392.0	1244.6
42.5°	2766.0	2626.5	2463.9	2328.9	2190.5	2090.0	1969.7	1834.2	1659.1	1473.9	1293.8
45°	3129.1	2942.7	2747.9	2583.0	2439.0	2314.2	2165.1	1985.5	1772.1	1547.3	1339.5
47.5°	3487.1	3273.1	3041.0	2863.7	2676.2	2523.7	2340.8	2113.7	1860.2	1616.8	1385.3
50°	3802.8	3596.7	3317.1	3091.8	2902.1	2714.0	2485.9	2212.6	1929.6	1676.6	1426.5
52.5°	4075.0	3897.7	3603.5	3318.8	3100.3	2889.1	2602.8	2292.2	1999.7	1732.0	1460.4
55°	4274.9	4156.9	3885.8	3532.9	3274.8	3022.9	2701.6	2369.0	2065.7	1776.0	1482.4
57.5°	4425.7	4360.2	4127.5	3734.5	3435.2	3152.8	2803.8	2461.0	2131.2	1813.9	1492.5
60°	4508.1	4526.2	4310.5	3910.7	3576.9	3261.2	2906.0	2539.5	2179.8	1835.9	1486.9
62.5°	4500.2	4610.9	4447.7	4019.1	3659.4	3325.6	2974.9	2576.2	2173.0	1800.9	1435.5
63°	4485.0	4613.7	4463.0	4026.4	3664.4	3327.9	2976.6	2571.2	2158.9	1783.9	1415.2
65°	4353.4	4548.8	4450.0	3993.1	3619.3	3285.5	2941.0	2497.7	2059.5	1693.0	1310.7
67.5°	4001.0	4245.5	4217.3	3757.6	3405.2	3110.5	2759.2	2261.1	1813.9	1469.4	1110.8
70°	3418.8	3648.6	3653.7	3268.0	2973.8	2684.7	2392.7	1839.8	1437.8	1139.0	828.4
72.5°	2620.3	2768.2	2819.6	2565.5	2368.4	2165.1	1903.1	1335.6	1025.0	774.8	539.3
75°	2029.0	1988.4	1987.8	1880.5	1800.3	1700.9	1412.9	901.3	673.1	503.7	329.8
77.5°	1824.0	1643.3	1468.3	1339.5	1275.1	1241.8	926.7	543.3	397.0	289.7	189.7
80°	1504.4	1237.9	1000.1	861.2	805.9	844.3	516.7	293.7	217.4	164.9	123.1
82.5°	1037.4	861.2	654.5	542.1	465.3	486.8	264.3	150.2	100.5	92.0	76.2
85°	540.4	473.8	399.8	343.3	303.3	266.5	137.2	71.7	41.8	36.7	33.3
87.5°	0.0	0.6	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: P152936

CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	597.5	596.9	598.0	598.6	600.3	601.4	602.0	600.9	602.6	604.2	603.1
5°	613.3	617.2	617.8	619.5	619.5	622.9	622.9	622.9	622.3	622.9	621.8
7.5°	626.8	631.9	632.5	634.7	635.3	639.3	637.6	638.7	638.7	635.9	634.7
10°	628.5	633.6	636.4	639.3	643.2	648.3	648.3	651.1	651.1	648.9	648.3
12.5°	629.1	633.0	635.9	639.8	645.5	652.8	656.8	660.7	662.4	661.8	660.2
15°	641.0	641.0	641.5	644.9	648.9	657.9	663.5	668.1	670.9	669.8	666.9
17.5°	672.0	667.5	664.1	658.5	659.6	664.1	667.5	671.4	672.0	670.9	666.4
20°	708.2	702.5	694.0	685.0	680.5	677.1	674.8	674.8	673.1	667.5	660.2
22.5°	759.5	752.2	740.3	726.8	717.8	707.0	694.0	681.6	668.1	654.5	638.7
25°	830.7	820.5	808.1	787.2	768.0	745.4	718.9	691.2	659.0	630.8	607.6
27.5°	902.4	879.8	847.6	818.8	783.3	749.4	711.5	677.7	636.4	602.6	577.1
30°	961.7	918.8	872.5	826.7	779.9	734.1	689.0	648.3	603.1	568.7	543.8
32.5°	1007.5	948.2	883.8	823.9	766.3	710.4	658.5	613.3	567.5	532.0	505.4
35°	1049.8	967.4	885.5	811.5	740.3	682.2	623.4	574.3	525.8	488.5	459.7
37.5°	1081.4	976.4	875.3	788.3	706.5	641.5	581.7	531.4	481.7	441.0	408.3
40°	1101.8	970.7	853.3	755.0	666.4	598.0	537.0	485.1	437.1	392.5	352.9
42.5°	1118.1	963.4	831.3	724.5	634.7	560.2	497.5	441.6	393.0	344.5	301.0
45°	1142.4	969.1	821.7	703.1	606.5	528.0	459.1	400.9	350.1	302.7	260.9
47.5°	1166.1	971.9	807.5	676.5	570.9	494.7	424.7	368.2	316.2	272.8	234.4
50°	1187.6	970.2	785.5	642.6	536.5	461.4	393.6	337.1	285.7	245.7	209.5
52.5°	1197.8	960.6	758.4	609.9	508.8	432.0	363.1	308.3	257.5	219.7	186.4
55°	1196.6	935.7	722.8	578.8	478.3	400.9	333.2	279.0	233.2	198.2	169.4
57.5°	1179.7	897.3	685.0	544.4	438.2	362.5	298.2	245.7	207.3	177.9	153.6
60°	1144.1	848.2	635.3	494.1	388.0	315.1	254.7	209.5	178.5	155.9	140.0
62.5°	1077.5	777.6	573.2	424.1	320.2	253.6	201.0	171.7	148.5	135.0	127.6
63°	1057.7	758.4	546.6	407.2	304.4	239.4	189.7	159.3	142.3	130.4	123.7
65°	959.5	664.1	457.4	328.7	236.6	184.7	152.5	129.3	119.2	114.1	113.5
67.5°	777.1	522.4	323.6	225.3	160.9	133.3	116.9	107.3	102.8	101.6	102.8
70°	545.5	329.8	205.6	149.7	119.2	107.3	100.0	96.0	93.2	93.7	94.9
72.5°	347.9	197.7	141.2	113.5	100.5	94.3	90.9	89.8	89.2	88.7	88.7
75°	198.2	131.6	108.4	98.3	91.5	86.4	83.6	82.4	83.0	83.6	82.4
77.5°	131.0	108.4	96.6	89.8	83.6	77.9	76.2	75.7	76.8	77.9	77.9
80°	103.3	96.6	89.8	83.0	72.8	68.9	70.0	70.6	70.0	70.6	68.9
82.5°	72.8	71.7	73.4	70.6	60.4	57.0	55.9	56.5	55.3	55.3	54.2
85°	33.9	33.9	35.6	35.6	34.4	35.0	37.8	41.2	42.9	41.2	39.0
87.5°	0.0	0.0	0.0	0.0	0.0	5.1	10.2	14.7	15.8	19.8	19.2
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: P152936

CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	601.4	602.6	602.0	601.4	602.6	601.4	602.0	601.4	601.4	600.9	600.9
5°	620.6	622.3	618.9	618.4	617.2	614.4	614.4	613.3	613.3	611.0	609.3
7.5°	633.0	633.6	630.8	630.2	627.4	624.6	622.3	620.1	619.5	617.8	614.4
10°	644.9	643.8	641.5	638.7	635.9	631.9	629.1	626.3	625.7	622.9	618.9
12.5°	655.1	654.5	650.0	647.2	642.6	638.7	635.3	631.9	630.2	626.8	621.2
15°	661.8	658.5	652.8	647.7	642.6	638.1	634.2	630.2	628.5	624.6	618.9
17.5°	659.0	652.8	645.5	639.3	632.5	626.8	623.4	619.5	616.7	614.4	606.5
20°	648.9	639.8	628.5	621.2	612.2	604.8	602.6	598.6	596.3	587.9	577.7
22.5°	622.3	609.3	595.2	584.5	574.3	567.0	561.3	557.4	551.7	546.6	530.8
25°	589.0	574.3	559.6	546.6	533.1	521.8	511.6	502.0	499.2	488.5	473.2
27.5°	556.8	540.4	525.8	510.5	493.0	478.9	461.4	447.8	438.8	427.5	413.4
30°	522.4	506.0	486.2	465.9	445.6	430.3	410.5	394.2	382.9	371.0	358.0
32.5°	478.9	459.1	435.4	412.8	394.2	376.1	356.3	340.5	329.2	318.5	306.1
35°	429.2	403.2	377.8	352.9	333.2	317.9	300.4	288.6	280.7	271.1	258.1
37.5°	372.1	342.8	315.7	296.5	279.0	264.3	251.9	244.5	236.1	231.0	223.1
40°	314.5	285.7	259.2	241.7	227.0	218.5	211.8	210.1	204.4	197.7	192.6
42.5°	263.7	236.1	210.1	196.0	186.4	184.1	180.7	180.7	177.9	172.8	169.4
45°	229.3	200.5	177.9	167.7	162.6	162.1	160.4	160.4	159.8	157.6	153.6
47.5°	204.4	178.5	160.9	154.7	153.6	152.5	150.8	150.2	149.7	148.0	145.7
50°	181.8	159.8	148.5	145.7	146.3	144.6	142.9	141.2	140.6	138.9	136.7
52.5°	160.9	145.1	137.8	136.1	136.1	136.1	135.0	135.0	133.8	133.3	131.0
55°	149.1	137.2	133.3	132.7	132.1	131.6	130.4	130.4	129.3	128.8	125.9
57.5°	138.9	131.6	129.3	128.2	127.6	126.5	125.9	125.9	125.9	125.9	122.5
60°	131.0	127.6	127.1	125.9	125.4	123.1	122.0	121.4	122.0	122.5	119.2
62.5°	122.5	122.0	121.4	120.3	119.7	117.5	115.8	114.6	115.8	116.9	116.3
63°	120.3	119.7	119.7	119.2	118.6	115.8	114.1	112.9	114.1	115.2	115.2
65°	112.4	112.9	112.9	112.4	111.8	110.1	107.9	106.7	107.3	109.0	109.6
67.5°	103.9	104.5	103.9	104.5	103.9	102.8	101.1	100.0	99.4	100.0	100.5
70°	96.0	97.1	96.6	96.0	95.4	95.4	94.3	92.6	92.0	91.5	91.5
72.5°	89.2	89.2	88.1	88.1	87.5	87.5	86.4	84.7	84.1	84.1	83.0
75°	81.9	81.9	80.2	80.2	79.1	79.6	78.5	76.8	76.2	76.2	75.7
77.5°	77.4	75.7	72.8	72.3	71.7	71.7	71.2	69.5	68.9	68.9	68.3
80°	68.3	64.9	62.1	61.6	62.1	63.2	63.2	62.1	62.1	62.1	62.1
82.5°	53.1	52.0	50.3	49.1	49.1	50.8	53.1	54.2	55.3	56.5	56.5
85°	39.0	39.5	39.0	37.3	36.7	38.4	40.7	42.9	43.5	45.7	45.2
87.5°	20.9	21.5	19.8	19.2	20.9	22.0	24.3	24.8	26.0	26.5	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



TEST NUMBER: P152936

CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	600.3	599.7	600.3	599.2	599.2	598.0	596.9	596.3	595.2	594.6	593.5
5°	610.5	608.8	607.1	606.5	604.2	602.0	600.3	597.5	595.2	591.3	590.1
7.5°	617.2	613.3	611.0	610.5	607.1	605.4	601.4	598.0	594.6	589.6	587.9
10°	620.1	616.1	612.2	610.5	606.5	603.7	599.7	594.6	591.8	586.7	585.6
12.5°	623.4	616.1	609.9	605.4	599.7	593.5	589.6	586.7	582.8	580.0	578.8
15°	617.2	607.6	598.0	589.6	580.5	573.8	569.8	565.3	560.8	559.1	559.1
17.5°	600.3	587.9	571.5	560.8	551.2	543.8	538.7	534.2	533.7	531.4	532.5
20°	565.3	548.9	533.1	525.2	519.5	515.0	509.9	507.7	506.0	502.6	501.5
22.5°	516.7	503.2	491.9	486.2	481.7	476.1	471.5	464.8	463.1	459.7	458.0
25°	463.1	452.3	442.7	438.8	436.0	428.1	425.2	416.2	410.0	406.0	408.3
27.5°	409.4	401.5	392.5	387.4	385.7	378.4	375.5	365.4	360.3	360.3	354.6
30°	354.1	346.7	341.1	335.4	334.3	325.3	317.9	314.0	308.3	306.1	302.1
32.5°	302.1	294.8	290.3	287.4	282.9	275.6	268.2	261.5	252.4	249.0	247.3
35°	254.1	248.5	242.8	240.6	234.4	226.5	217.4	211.8	201.0	197.1	195.4
37.5°	217.4	210.6	206.7	200.5	194.3	185.8	179.0	173.9	170.0	168.3	168.3
40°	188.1	183.0	178.5	173.4	168.3	163.8	160.4	159.3	158.7	158.7	159.8
42.5°	166.0	161.5	159.3	156.4	154.7	154.7	154.2	154.7	155.3	155.9	157.6
45°	151.3	148.5	147.4	146.8	148.0	149.1	149.7	150.8	153.0	154.2	154.7
47.5°	143.4	141.2	140.6	141.2	142.9	145.1	147.4	149.1	150.8	151.3	151.9
50°	135.5	132.7	131.6	132.7	135.0	138.4	140.0	142.9	144.0	145.1	144.0
52.5°	128.8	126.5	125.9	125.9	128.2	130.4	132.7	135.0	135.5	135.5	135.0
55°	123.1	121.4	119.7	120.8	122.5	124.8	128.2	129.9	131.0	131.6	131.6
57.5°	118.6	116.9	115.2	116.3	118.0	120.3	123.7	125.4	126.5	128.2	128.8
60°	115.2	112.9	111.2	112.9	114.6	118.0	120.8	122.5	125.4	125.9	125.9
62.5°	111.8	109.6	106.7	108.4	108.4	110.1	112.9	115.2	118.0	119.2	119.2
63°	111.2	109.0	106.2	107.3	107.3	108.4	110.7	112.9	116.3	117.5	116.9
65°	106.7	106.2	103.3	103.3	102.2	103.3	105.0	107.3	109.0	110.7	110.7
67.5°	99.4	98.8	98.3	98.3	98.3	99.4	100.5	102.2	103.9	105.0	104.5
70°	90.9	90.9	90.9	91.5	91.5	92.6	93.2	92.6	94.3	95.4	94.9
72.5°	83.6	83.0	82.4	83.6	83.0	83.0	84.1	83.6	85.3	85.3	85.8
75°	75.7	75.1	75.1	75.7	74.5	73.4	74.0	74.0	74.5	74.5	75.7
77.5°	68.9	68.9	68.9	68.3	67.2	66.6	66.1	66.1	66.1	66.1	66.6
80°	62.7	62.7	62.7	62.1	61.0	59.9	58.7	58.2	57.6	54.8	54.8
82.5°	56.5	56.5	56.5	56.5	55.9	54.8	53.1	48.6	46.3	44.0	44.6
85°	44.6	45.7	46.9	48.6	48.0	48.0	44.6	39.0	35.6	33.3	33.9
87.5°	28.8	25.4	25.4	24.8	23.7	22.6	22.6	19.2	15.8	14.1	14.7
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: P152936

CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	593.5	592.4	591.3	591.3	589.6	589.6	588.4	590.7	588.4	586.7	586.7
5°	589.0	587.9	584.5	583.9	581.7	581.7	581.7	580.5	580.5	579.4	578.8
7.5°	586.2	583.4	580.5	578.8	578.8	577.7	580.0	578.8	579.4	579.4	580.0
10°	583.9	581.7	580.5	580.0	580.0	581.7	583.4	583.9	583.4	583.9	583.9
12.5°	578.3	579.4	580.0	582.2	585.0	588.4	592.4	593.0	594.1	594.1	595.2
15°	560.2	563.0	566.4	572.1	579.4	586.7	594.1	600.3	605.9	608.8	611.0
17.5°	534.8	537.6	543.8	550.0	559.6	570.4	582.8	593.5	605.4	616.1	626.8
20°	500.3	504.9	506.6	517.8	529.1	543.8	558.5	575.4	595.8	616.1	637.0
22.5°	455.7	460.8	468.7	477.8	489.6	507.7	525.2	551.7	578.8	607.6	640.4
25°	406.0	411.7	418.5	428.1	439.9	459.1	484.5	512.8	546.1	583.9	624.6
27.5°	354.6	360.3	365.9	372.7	386.3	406.6	436.5	465.9	502.6	543.8	591.3
30°	303.3	303.8	307.2	315.7	329.8	356.3	378.4	415.1	453.5	497.0	551.7
32.5°	246.8	246.2	250.2	257.5	271.1	296.5	323.6	359.2	397.0	451.8	508.2
35°	196.5	196.5	203.9	211.2	226.5	244.5	268.2	299.9	344.5	395.3	451.8
37.5°	170.0	173.9	178.5	185.8	197.7	211.8	232.7	260.3	295.3	343.9	395.9
40°	161.5	163.8	167.7	174.5	184.7	197.7	212.9	233.8	260.9	299.9	347.3
42.5°	158.1	158.7	160.9	166.0	175.1	188.1	203.9	222.5	242.8	270.5	311.7
45°	154.7	154.2	155.3	159.3	166.6	181.3	199.3	219.7	240.0	263.2	297.0
47.5°	151.9	151.9	151.9	153.6	160.4	175.1	196.0	219.7	244.0	269.9	303.3
50°	144.0	143.4	143.4	144.6	149.7	165.5	190.3	219.1	250.7	284.6	322.5
52.5°	135.0	135.0	135.5	136.1	140.6	156.4	184.1	219.1	258.6	303.8	351.3
55°	132.1	132.7	133.3	132.7	136.1	149.7	177.3	215.7	262.0	319.1	382.3
57.5°	129.9	131.0	131.0	130.4	132.7	144.0	170.5	208.9	259.2	324.7	404.3
60°	126.5	126.5	126.5	124.8	125.9	136.1	160.4	198.2	250.2	319.6	407.7
62.5°	119.2	119.2	118.0	117.5	116.9	124.8	146.8	182.4	233.8	306.1	399.3
63°	117.5	116.9	116.9	115.2	115.2	122.5	144.0	180.1	229.3	302.7	395.9
65°	111.2	111.2	111.2	110.1	109.6	115.2	132.7	164.3	211.8	286.9	378.9
67.5°	104.5	105.0	103.9	103.3	102.8	106.2	119.7	144.6	184.7	253.6	347.3
70°	94.9	95.4	95.4	94.9	94.3	96.6	105.0	124.2	153.0	211.2	295.9
72.5°	86.4	87.5	87.5	88.7	88.7	90.4	93.7	103.3	122.5	164.9	232.7
75°	77.4	77.9	79.1	80.2	79.1	78.5	79.1	86.4	96.0	122.0	166.0
77.5°	69.5	71.2	71.2	70.6	68.9	67.8	67.8	71.2	79.1	92.6	118.6
80°	57.6	60.4	61.0	59.3	57.6	57.6	58.7	61.0	66.1	76.2	89.8
82.5°	46.3	49.1	49.7	50.3	49.7	51.4	51.4	52.0	54.8	62.7	73.4
85°	35.6	37.8	39.5	40.1	40.7	41.2	40.7	37.8	39.5	44.6	49.7
87.5°	15.8	16.4	15.2	15.8	15.2	15.8	16.4	13.6	13.0	17.5	18.1
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: P152936

CATALOG NUMBER: TLM-F02-LED-E1-SLL-7050

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	586.2	586.2	586.7	585.6	585.6	586.2	584.5
5°	577.1	579.4	579.4	579.4	578.3	579.4	580.0
7.5°	579.4	581.1	582.2	582.2	581.7	583.9	585.6
10°	582.2	585.0	586.2	586.2	586.2	589.0	593.0
12.5°	593.0	595.2	596.9	596.9	598.0	601.4	605.9
15°	612.7	615.5	615.5	615.0	618.4	622.3	627.4
17.5°	634.7	642.6	646.6	646.0	648.9	653.9	659.6
20°	655.6	677.7	687.3	694.0	696.9	703.6	705.3
22.5°	673.1	709.8	736.4	759.0	769.7	776.5	784.4
25°	666.9	716.6	764.1	810.4	843.1	876.4	890.6
27.5°	641.5	703.6	765.8	833.5	892.8	952.1	995.0
30°	610.5	685.0	768.6	864.6	958.3	1049.2	1121.5
32.5°	574.9	667.5	774.8	893.4	1016.5	1135.6	1240.1
35°	530.3	634.2	759.5	896.2	1041.3	1185.9	1321.4
37.5°	473.8	589.0	724.0	875.9	1042.5	1207.9	1370.0
40°	417.3	532.0	678.8	846.5	1027.8	1213.0	1400.5
42.5°	377.8	481.1	633.0	809.2	1004.1	1205.1	1415.2
45°	350.7	444.4	592.4	775.4	978.7	1191.0	1417.4
47.5°	348.4	428.6	565.8	750.5	958.3	1178.6	1417.4
50°	367.6	437.1	556.8	738.1	949.9	1174.6	1418.6
52.5°	403.8	471.0	573.2	747.7	956.6	1179.7	1423.7
55°	447.3	522.4	617.2	781.0	985.4	1196.6	1434.9
57.5°	486.8	581.7	692.3	845.4	1037.9	1239.6	1466.6
60°	509.9	632.5	772.0	935.7	1127.7	1324.8	1529.8
62.5°	512.8	660.7	842.6	1034.0	1236.7	1422.5	1630.9
63°	510.5	663.0	851.6	1052.6	1259.9	1446.8	1665.9
65°	498.1	663.5	877.0	1118.1	1340.1	1549.0	1763.6
67.5°	466.5	645.5	886.0	1169.5	1441.2	1683.4	1946.0
70°	411.7	594.1	859.5	1170.7	1480.1	1758.5	2061.2
72.5°	330.9	496.4	744.9	1065.1	1377.3	1684.6	2031.3
75°	242.3	364.8	563.0	825.1	1123.8	1402.2	1739.9
77.5°	160.9	236.1	379.5	587.9	805.9	1009.1	1252.5
80°	110.7	146.3	221.9	353.5	493.0	591.8	797.9
82.5°	81.3	96.6	123.1	180.7	237.2	292.0	416.8
85°	50.8	55.3	61.6	89.2	127.6	172.2	259.8
87.5°	13.6	14.1	13.0	17.5	27.7	26.5	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)