

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: P152927

Luminaire Tested: **TLM-F01-LED-E1-SLL-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152927
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-F01-LED-E1-SLL-7060
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2356.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

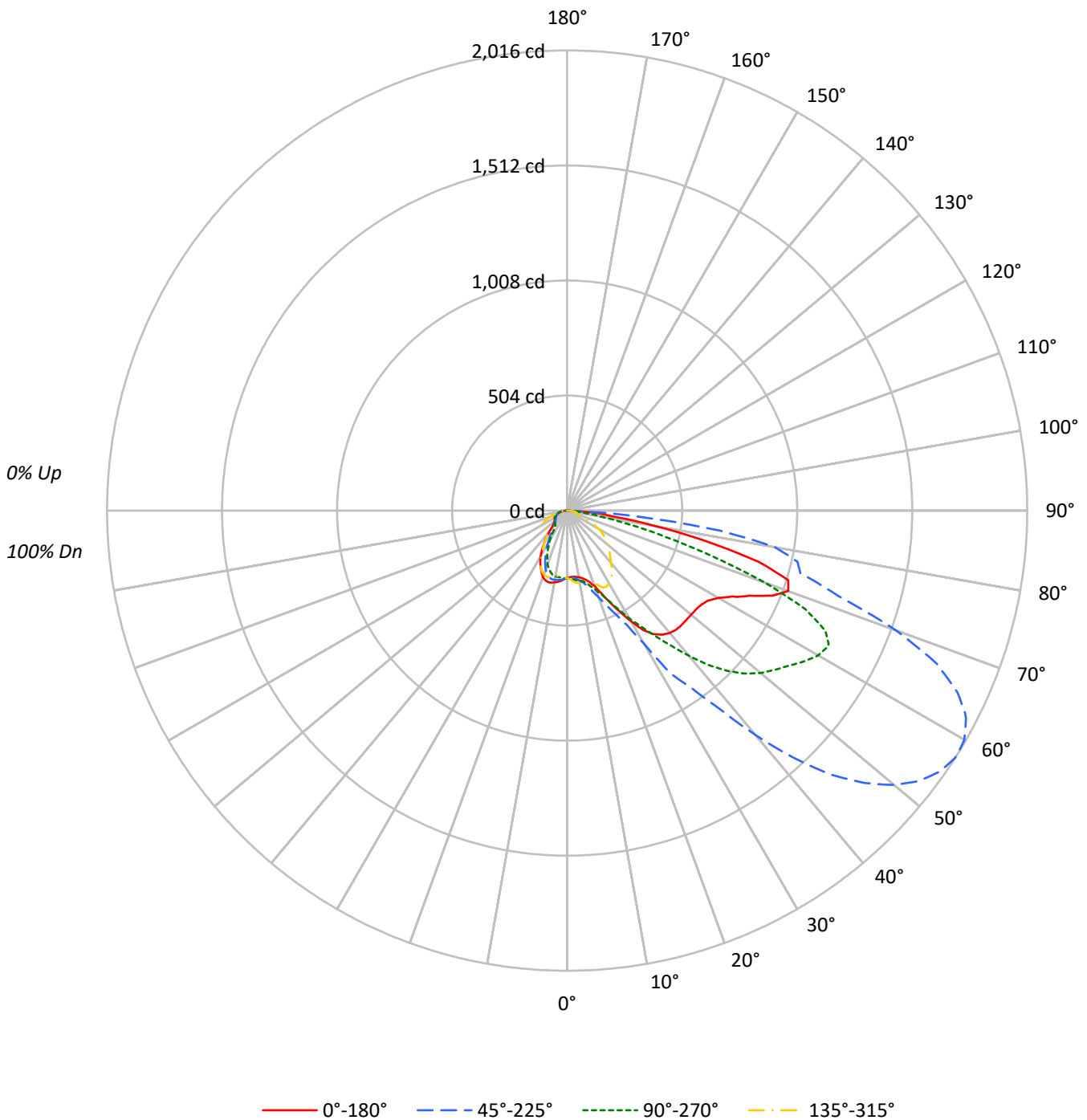
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	18755	18755	18755	18755
5°	18432	19239	19652	18756
10°	19063	20008	20529	18825
15°	20563	21619	21232	18321
20°	23765	25093	20928	16892
25°	31110	30733	19093	14259
30°	41001	39883	17028	11047
35°	51069	51618	13643	7552
40°	57875	68636	9985	6604
45°	63460	88899	7513	6931
50°	69869	108975	7171	7092
55°	79205	130757	7330	7264
60°	96863	160800	7978	7978
65°	132112	187112	8420	8285
70°	190792	170298	8886	8775
75°	212811	110234	9810	9247
80°	145487	53528	11231	9991
85°	94370	26081	13513	12278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	1.2
10°-20°	89.8	3.8
20°-30°	159.5	6.8
30°-40°	251.2	10.7
40°-50°	369.7	15.7
50°-60°	491.1	20.8
60°-70°	540.9	23.0
70°-80°	339.4	14.4
80°-90°	86.4	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°	278.2	11.8
0°-40°	529.4	22.5
0°-60°	1390.2	59.0
0°-90°	2356.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2356.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	296	296	296	296	296	
5°	290	303	309	295	290	28
15°	314	330	324	280	314	91
25°	445	440	273	204	445	210
35°	661	668	176	98	661	409
45°	709	993	84	77	709	548
55°	718	1184	66	66	718	651
65°	882	1249	56	55	882	888
75°	870	451	40	38	870	851
85°	130	36	19	17	130	150
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°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	292.2	292.8	292.8	292.5	292.5	293.1	292.8	292.5	291.7	292.8	292.8
5°	290.0	290.5	290.5	291.1	291.7	292.2	292.2	292.8	292.5	293.7	294.5
7.5°	292.8	293.4	294.5	295.9	296.8	298.7	298.7	300.1	300.7	301.6	301.3
10°	296.5	297.9	300.4	302.7	304.4	306.6	308.3	310.3	310.3	311.2	311.7
12.5°	303.0	304.4	307.2	310.0	312.6	315.4	317.9	319.9	321.9	322.5	323.6
15°	313.7	315.4	319.6	323.6	326.7	330.4	333.7	337.7	341.4	342.2	342.8
17.5°	329.8	333.2	336.3	343.3	347.9	352.7	358.0	363.7	364.8	370.7	372.1
20°	352.7	356.9	359.7	368.5	376.1	382.3	390.2	396.7	399.3	404.9	410.5
22.5°	392.2	391.3	395.6	404.3	410.0	422.4	429.2	436.0	439.3	447.8	452.3
25°	445.3	449.8	459.1	460.0	465.3	479.7	488.5	495.3	495.5	498.1	502.9
27.5°	497.5	516.2	530.8	538.7	553.1	566.4	565.8	575.4	560.5	563.6	568.1
30°	560.8	591.8	619.5	638.1	652.8	668.3	676.0	681.3	674.8	672.0	666.6
32.5°	620.1	663.5	706.2	739.2	766.6	792.3	809.2	816.9	825.9	848.8	857.0
35°	660.7	722.3	775.4	823.1	868.8	909.8	939.4	956.3	949.9	946.7	945.1
37.5°	685.0	760.1	826.5	893.9	946.5	1007.7	1053.8	1098.4	1108.5	1090.8	1082.0
40°	700.2	789.2	874.5	954.1	1022.1	1101.2	1158.2	1225.2	1276.0	1282.8	1261.9
42.5°	707.6	808.7	908.1	998.1	1090.2	1187.0	1259.3	1340.4	1416.3	1468.5	1455.6
45°	708.7	821.4	932.6	1037.9	1147.5	1262.4	1355.6	1445.4	1547.0	1636.6	1639.1
47.5°	708.7	831.0	949.6	1066.8	1198.9	1327.9	1429.6	1535.7	1660.3	1766.2	1798.6
50°	709.3	837.5	965.4	1089.3	1238.1	1383.3	1498.2	1623.6	1754.6	1869.8	1932.5
52.5°	711.8	842.3	977.8	1105.4	1263.6	1422.2	1551.6	1696.1	1826.6	1944.9	2025.9
55°	717.5	849.1	986.8	1115.3	1280.5	1447.7	1590.2	1745.8	1873.2	1993.2	2106.4
57.5°	733.3	860.9	997.9	1124.1	1289.8	1464.3	1617.3	1767.3	1891.0	2016.0	2149.0
60°	764.9	886.0	1016.8	1141.6	1305.3	1495.1	1630.3	1752.9	1878.0	2009.3	2158.6
62.5°	815.5	925.3	1043.0	1171.2	1349.7	1542.8	1620.5	1710.0	1826.9	1970.0	2124.5
63°	833.0	933.8	1049.0	1177.7	1361.8	1551.6	1616.2	1697.3	1816.4	1957.6	2112.3
65°	881.8	971.3	1077.2	1210.5	1411.8	1560.3	1583.2	1631.2	1744.1	1886.7	2040.6
67.5°	973.0	1062.5	1137.9	1265.8	1453.9	1525.9	1480.7	1486.6	1604.6	1752.3	1890.7
70°	1030.6	1137.3	1176.6	1272.9	1446.2	1474.8	1348.0	1269.5	1364.1	1532.4	1653.5
72.5°	1015.6	1138.2	1134.0	1178.8	1293.8	1320.3	1189.0	1065.3	1121.5	1247.2	1325.7
75°	869.9	1016.5	985.4	976.4	1016.8	1034.3	935.7	916.8	987.7	1057.4	1058.6
77.5°	626.3	787.5	751.1	698.8	696.0	736.4	749.7	873.6	978.4	1033.4	1009.1
80°	399.0	573.8	535.9	444.7	443.3	495.8	612.4	781.0	892.0	922.7	859.5
82.5°	208.4	375.5	389.9	333.7	382.0	469.0	582.8	629.4	671.4	675.7	601.1
85°	129.9	231.0	271.6	280.4	345.0	415.9	415.1	398.7	380.1	325.3	294.2
87.5°	14.7	29.1	44.0	41.8	56.2	78.8	98.3	57.6	40.4	14.7	20.3
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°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	293.4	293.7	293.9	293.9	295.3	295.1	295.3	295.9	296.8	297.3	297.9
5°	295.6	295.6	296.8	297.6	299.3	300.4	301.0	302.7	304.7	304.1	305.8
7.5°	303.0	302.7	303.8	304.4	305.8	307.8	307.5	308.9	310.6	311.2	312.6
10°	312.9	312.0	312.0	311.4	311.7	311.2	311.2	311.2	312.3	312.0	313.1
12.5°	323.0	322.7	322.2	320.5	320.5	318.2	317.1	315.7	315.4	313.4	313.7
15°	343.9	343.9	342.8	339.4	336.6	334.6	331.8	329.8	327.0	323.3	321.3
17.5°	374.4	370.5	369.0	368.5	364.0	362.3	356.1	349.6	346.5	341.4	338.5
20°	411.7	410.8	405.2	402.4	396.7	388.8	380.9	372.4	367.3	361.1	357.7
22.5°	453.8	447.5	444.7	440.5	431.7	422.7	410.8	399.5	391.6	387.4	384.9
25°	502.9	496.7	493.8	488.2	477.5	467.9	453.2	439.9	432.9	425.8	421.8
27.5°	568.1	562.2	558.8	544.1	540.4	524.6	506.6	488.5	479.2	468.7	461.9
30°	665.5	665.8	648.3	630.5	612.2	584.8	565.8	545.5	530.3	515.3	500.3
32.5°	830.1	788.1	755.6	717.5	677.7	648.6	625.1	600.9	579.7	557.9	533.1
35°	930.7	910.3	868.3	798.5	758.4	723.1	697.1	667.8	641.8	603.4	565.6
37.5°	1044.2	997.0	945.9	907.2	861.8	820.8	777.3	744.0	699.1	647.4	593.8
40°	1209.9	1142.4	1080.9	1028.9	970.2	927.3	878.7	830.4	770.8	696.0	622.3
42.5°	1383.0	1313.2	1231.9	1164.4	1095.3	1045.0	984.9	917.1	829.6	737.0	646.9
45°	1564.5	1471.4	1374.0	1291.5	1219.5	1157.1	1082.6	992.8	886.0	773.7	669.8
47.5°	1743.6	1636.6	1520.5	1431.8	1338.1	1261.9	1170.4	1056.9	930.1	808.4	692.6
50°	1901.4	1798.3	1658.6	1545.9	1451.0	1357.0	1242.9	1106.3	964.8	838.3	713.2
52.5°	2037.5	1948.8	1801.7	1659.4	1550.1	1444.5	1301.4	1146.1	999.8	866.0	730.2
55°	2137.5	2078.4	1942.9	1766.4	1637.4	1511.5	1350.8	1184.5	1032.9	888.0	741.2
57.5°	2212.8	2180.1	2063.8	1867.2	1717.6	1576.4	1401.9	1230.5	1065.6	906.9	746.3
60°	2254.1	2263.1	2155.2	1955.3	1788.5	1630.6	1453.0	1269.8	1089.9	917.9	743.5
62.5°	2250.1	2305.5	2223.9	2009.5	1829.7	1662.8	1487.5	1288.1	1086.5	900.4	717.8
63°	2242.5	2306.9	2231.5	2013.2	1832.2	1663.9	1488.3	1285.6	1079.5	892.0	707.6
65°	2176.7	2274.4	2225.0	1996.6	1809.6	1642.8	1470.5	1248.9	1029.8	846.5	655.4
67.5°	2000.5	2122.8	2108.7	1878.8	1702.6	1555.2	1379.6	1130.6	906.9	734.7	555.4
70°	1709.4	1824.3	1826.9	1634.0	1486.9	1342.3	1196.4	919.9	718.9	569.5	414.2
72.5°	1310.1	1384.1	1409.8	1282.8	1184.2	1082.6	951.5	667.8	512.5	387.4	269.7
75°	1014.5	994.2	993.9	940.3	900.2	850.5	706.5	450.6	336.6	251.9	164.9
77.5°	912.0	821.7	734.1	669.8	637.6	620.9	463.4	271.6	198.5	144.8	94.9
80°	752.2	618.9	500.1	430.6	402.9	422.1	258.4	146.8	108.7	82.4	61.6
82.5°	518.7	430.6	327.3	271.1	232.7	243.4	132.1	75.1	50.3	46.0	38.1
85°	270.2	236.9	199.9	171.7	151.6	133.3	68.6	35.9	20.9	18.4	16.7
87.5°	0.0	0.3	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°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	298.7	298.5	299.0	299.3	300.1	300.7	301.0	300.4	301.3	302.1	301.6
5°	306.6	308.6	308.9	309.7	309.7	311.4	311.4	311.4	311.2	311.4	310.9
7.5°	313.4	316.0	316.2	317.4	317.7	319.6	318.8	319.3	319.3	317.9	317.4
10°	314.3	316.8	318.2	319.6	321.6	324.1	324.1	325.6	325.6	324.4	324.1
12.5°	314.5	316.5	317.9	319.9	322.7	326.4	328.4	330.4	331.2	330.9	330.1
15°	320.5	320.5	320.8	322.5	324.4	328.9	331.8	334.0	335.4	334.9	333.5
17.5°	336.0	333.7	332.1	329.2	329.8	332.1	333.7	335.7	336.0	335.4	333.2
20°	354.1	351.3	347.0	342.5	340.2	338.5	337.4	337.4	336.6	333.7	330.1
22.5°	379.8	376.1	370.2	363.4	358.9	353.5	347.0	340.8	334.0	327.3	319.3
25°	415.3	410.3	404.1	393.6	384.0	372.7	359.4	345.6	329.5	315.4	303.8
27.5°	451.2	439.9	423.8	409.4	391.6	374.7	355.8	338.8	318.2	301.3	288.6
30°	480.9	459.4	436.2	413.4	389.9	367.1	344.5	324.1	301.6	284.3	271.9
32.5°	503.7	474.1	441.9	412.0	383.2	355.2	329.2	306.6	283.8	266.0	252.7
35°	524.9	483.7	442.7	405.7	370.2	341.1	311.7	287.2	262.9	244.2	229.8
37.5°	540.7	488.2	437.7	394.2	353.2	320.8	290.8	265.7	240.9	220.5	204.1
40°	550.9	485.4	426.6	377.5	333.2	299.0	268.5	242.5	218.5	196.2	176.5
42.5°	559.1	481.7	415.6	362.3	317.4	280.1	248.8	220.8	196.5	172.2	150.5
45°	571.2	484.5	410.8	351.5	303.3	264.0	229.6	200.5	175.1	151.3	130.4
47.5°	583.1	485.9	403.8	338.3	285.5	247.3	212.3	184.1	158.1	136.4	117.2
50°	593.8	485.1	392.8	321.3	268.2	230.7	196.8	168.6	142.9	122.8	104.8
52.5°	598.9	480.3	379.2	304.9	254.4	216.0	181.6	154.2	128.8	109.8	93.2
55°	598.3	467.9	361.4	289.4	239.2	200.5	166.6	139.5	116.6	99.1	84.7
57.5°	589.8	448.7	342.5	272.2	219.1	181.3	149.1	122.8	103.6	88.9	76.8
60°	572.1	424.1	317.7	247.1	194.0	157.6	127.3	104.8	89.2	77.9	70.0
62.5°	538.7	388.8	286.6	212.1	160.1	126.8	100.5	85.8	74.3	67.5	63.8
63°	528.9	379.2	273.3	203.6	152.2	119.7	94.9	79.6	71.2	65.2	61.8
65°	479.7	332.1	228.7	164.3	118.3	92.3	76.2	64.7	59.6	57.0	56.8
67.5°	388.5	261.2	161.8	112.7	80.5	66.6	58.4	53.6	51.4	50.8	51.4
70°	272.8	164.9	102.8	74.8	59.6	53.6	50.0	48.0	46.6	46.9	47.4
72.5°	173.9	98.8	70.6	56.8	50.3	47.2	45.5	44.9	44.6	44.3	44.3
75°	99.1	65.8	54.2	49.1	45.7	43.2	41.8	41.2	41.5	41.8	41.2
77.5°	65.5	54.2	48.3	44.9	41.8	39.0	38.1	37.8	38.4	39.0	39.0
80°	51.7	48.3	44.9	41.5	36.4	34.4	35.0	35.3	35.0	35.3	34.4
82.5°	36.4	35.9	36.7	35.3	30.2	28.5	28.0	28.2	27.7	27.7	27.1
85°	16.9	16.9	17.8	17.8	17.2	17.5	18.9	20.6	21.5	20.6	19.5
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	5.1	7.3	7.9	9.9	9.6
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: P152927

CATALOG NUMBER: TLM-F01-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	300.7	301.3	301.0	300.7	301.3	300.7	301.0	300.7	300.7	300.4	300.4
5°	310.3	311.2	309.5	309.2	308.6	307.2	307.2	306.6	306.6	305.5	304.7
7.5°	316.5	316.8	315.4	315.1	313.7	312.3	311.2	310.0	309.7	308.9	307.2
10°	322.5	321.9	320.8	319.3	317.9	316.0	314.5	313.1	312.9	311.4	309.5
12.5°	327.5	327.3	325.0	323.6	321.3	319.3	317.7	316.0	315.1	313.4	310.6
15°	330.9	329.2	326.4	323.9	321.3	319.1	317.1	315.1	314.3	312.3	309.5
17.5°	329.5	326.4	322.7	319.6	316.2	313.4	311.7	309.7	308.3	307.2	303.3
20°	324.4	319.9	314.3	310.6	306.1	302.4	301.3	299.3	298.2	293.9	288.9
22.5°	311.2	304.7	297.6	292.2	287.2	283.5	280.7	278.7	275.9	273.3	265.4
25°	294.5	287.2	279.8	273.3	266.5	260.9	255.8	251.0	249.6	244.2	236.6
27.5°	278.4	270.2	262.9	255.3	246.5	239.4	230.7	223.9	219.4	213.7	206.7
30°	261.2	253.0	243.1	232.9	222.8	215.2	205.3	197.1	191.4	185.5	179.0
32.5°	239.4	229.6	217.7	206.4	197.1	188.1	178.2	170.3	164.6	159.3	153.0
35°	214.6	201.6	188.9	176.5	166.6	159.0	150.2	144.3	140.3	135.5	129.0
37.5°	186.1	171.4	157.8	148.2	139.5	132.1	125.9	122.3	118.0	115.5	111.5
40°	157.3	142.9	129.6	120.8	113.5	109.3	105.9	105.0	102.2	98.8	96.3
42.5°	131.9	118.0	105.0	98.0	93.2	92.0	90.4	90.4	88.9	86.4	84.7
45°	114.6	100.2	88.9	83.9	81.3	81.0	80.2	80.2	79.9	78.8	76.8
47.5°	102.2	89.2	80.5	77.4	76.8	76.2	75.4	75.1	74.8	74.0	72.8
50°	90.9	79.9	74.3	72.8	73.1	72.3	71.4	70.6	70.3	69.5	68.3
52.5°	80.5	72.6	68.9	68.0	68.0	68.0	67.5	67.5	66.9	66.6	65.5
55°	74.5	68.6	66.6	66.4	66.1	65.8	65.2	65.2	64.7	64.4	63.0
57.5°	69.5	65.8	64.7	64.1	63.8	63.2	63.0	63.0	63.0	63.0	61.3
60°	65.5	63.8	63.5	63.0	62.7	61.6	61.0	60.7	61.0	61.3	59.6
62.5°	61.3	61.0	60.7	60.1	59.9	58.7	57.9	57.3	57.9	58.4	58.2
63°	60.1	59.9	59.9	59.6	59.3	57.9	57.0	56.5	57.0	57.6	57.6
65°	56.2	56.5	56.5	56.2	55.9	55.1	53.9	53.4	53.6	54.5	54.8
67.5°	52.0	52.2	52.0	52.2	52.0	51.4	50.5	50.0	49.7	50.0	50.3
70°	48.0	48.6	48.3	48.0	47.7	47.7	47.2	46.3	46.0	45.7	45.7
72.5°	44.6	44.6	44.0	44.0	43.8	43.8	43.2	42.4	42.1	42.1	41.5
75°	40.9	40.9	40.1	40.1	39.5	39.8	39.2	38.4	38.1	38.1	37.8
77.5°	38.7	37.8	36.4	36.1	35.9	35.9	35.6	34.7	34.4	34.4	34.2
80°	34.2	32.5	31.1	30.8	31.1	31.6	31.6	31.1	31.1	31.1	31.1
82.5°	26.5	26.0	25.1	24.6	24.6	25.4	26.5	27.1	27.7	28.2	28.2
85°	19.5	19.8	19.5	18.6	18.4	19.2	20.3	21.5	21.7	22.9	22.6
87.5°	10.4	10.7	9.9	9.6	10.4	11.0	12.1	12.4	13.0	13.3	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: P152927

CATALOG NUMBER: TLM-F01-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	300.1	299.9	300.1	299.6	299.6	299.0	298.5	298.2	297.6	297.3	296.8
5°	305.2	304.4	303.5	303.3	302.1	301.0	300.1	298.7	297.6	295.6	295.1
7.5°	308.6	306.6	305.5	305.2	303.5	302.7	300.7	299.0	297.3	294.8	293.9
10°	310.0	308.1	306.1	305.2	303.3	301.8	299.9	297.3	295.9	293.4	292.8
12.5°	311.7	308.1	304.9	302.7	299.9	296.8	294.8	293.4	291.4	290.0	289.4
15°	308.6	303.8	299.0	294.8	290.3	286.9	284.9	282.6	280.4	279.5	279.5
17.5°	300.1	293.9	285.7	280.4	275.6	271.9	269.4	267.1	266.8	265.7	266.3
20°	282.6	274.5	266.5	262.6	259.8	257.5	255.0	253.8	253.0	251.3	250.7
22.5°	258.4	251.6	245.9	243.1	240.9	238.0	235.8	232.4	231.5	229.8	229.0
25°	231.5	226.2	221.4	219.4	218.0	214.0	212.6	208.1	205.0	203.0	204.1
27.5°	204.7	200.8	196.2	193.7	192.9	189.2	187.8	182.7	180.1	180.1	177.3
30°	177.0	173.4	170.5	167.7	167.2	162.6	159.0	157.0	154.2	153.0	151.1
32.5°	151.1	147.4	145.1	143.7	141.5	137.8	134.1	130.7	126.2	124.5	123.7
35°	127.1	124.2	121.4	120.3	117.2	113.2	108.7	105.9	100.5	98.5	97.7
37.5°	108.7	105.3	103.3	100.2	97.1	92.9	89.5	87.0	85.0	84.1	84.1
40°	94.0	91.5	89.2	86.7	84.1	81.9	80.2	79.6	79.3	79.3	79.9
42.5°	83.0	80.8	79.6	78.2	77.4	77.4	77.1	77.4	77.6	77.9	78.8
45°	75.7	74.3	73.7	73.4	74.0	74.5	74.8	75.4	76.5	77.1	77.4
47.5°	71.7	70.6	70.3	70.6	71.4	72.6	73.7	74.5	75.4	75.7	76.0
50°	67.8	66.4	65.8	66.4	67.5	69.2	70.0	71.4	72.0	72.6	72.0
52.5°	64.4	63.2	63.0	63.0	64.1	65.2	66.4	67.5	67.8	67.8	67.5
55°	61.6	60.7	59.9	60.4	61.3	62.4	64.1	64.9	65.5	65.8	65.8
57.5°	59.3	58.4	57.6	58.2	59.0	60.1	61.8	62.7	63.2	64.1	64.4
60°	57.6	56.5	55.6	56.5	57.3	59.0	60.4	61.3	62.7	63.0	63.0
62.5°	55.9	54.8	53.4	54.2	54.2	55.1	56.5	57.6	59.0	59.6	59.6
63°	55.6	54.5	53.1	53.6	53.6	54.2	55.3	56.5	58.2	58.7	58.4
65°	53.4	53.1	51.7	51.7	51.1	51.7	52.5	53.6	54.5	55.3	55.3
67.5°	49.7	49.4	49.1	49.1	49.1	49.7	50.3	51.1	52.0	52.5	52.2
70°	45.5	45.5	45.5	45.7	45.7	46.3	46.6	46.3	47.2	47.7	47.4
72.5°	41.8	41.5	41.2	41.8	41.5	41.5	42.1	41.8	42.6	42.6	42.9
75°	37.8	37.6	37.6	37.8	37.3	36.7	37.0	37.0	37.3	37.3	37.8
77.5°	34.4	34.4	34.4	34.2	33.6	33.3	33.0	33.0	33.0	33.0	33.3
80°	31.3	31.3	31.3	31.1	30.5	29.9	29.4	29.1	28.8	27.4	27.4
82.5°	28.2	28.2	28.2	28.2	28.0	27.4	26.5	24.3	23.2	22.0	22.3
85°	22.3	22.9	23.4	24.3	24.0	24.0	22.3	19.5	17.8	16.7	16.9
87.5°	14.4	12.7	12.7	12.4	11.9	11.3	11.3	9.6	7.9	7.1	7.3
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: P152927

CATALOG NUMBER: TLM-F01-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	296.8	296.2	295.6	295.6	294.8	294.8	294.2	295.3	294.2	293.4	293.4
5°	294.5	293.9	292.2	292.0	290.8	290.8	290.8	290.3	290.3	289.7	289.4
7.5°	293.1	291.7	290.3	289.4	289.4	288.9	290.0	289.4	289.7	289.7	290.0
10°	292.0	290.8	290.3	290.0	290.0	290.8	291.7	292.0	291.7	292.0	292.0
12.5°	289.1	289.7	290.0	291.1	292.5	294.2	296.2	296.5	297.0	297.0	297.6
15°	280.1	281.5	283.2	286.0	289.7	293.4	297.0	300.1	303.0	304.4	305.5
17.5°	267.4	268.8	271.9	275.0	279.8	285.2	291.4	296.8	302.7	308.1	313.4
20°	250.2	252.4	253.3	258.9	264.6	271.9	279.3	287.7	297.9	308.1	318.5
22.5°	227.9	230.4	234.4	238.9	244.8	253.8	262.6	275.9	289.4	303.8	320.2
25°	203.0	205.8	209.2	214.0	220.0	229.6	242.3	256.4	273.0	292.0	312.3
27.5°	177.3	180.1	183.0	186.4	193.1	203.3	218.3	232.9	251.3	271.9	295.6
30°	151.6	151.9	153.6	157.8	164.9	178.2	189.2	207.5	226.7	248.5	275.9
32.5°	123.4	123.1	125.1	128.8	135.5	148.2	161.8	179.6	198.5	225.9	254.1
35°	98.3	98.3	101.9	105.6	113.2	122.3	134.1	149.9	172.2	197.7	225.9
37.5°	85.0	87.0	89.2	92.9	98.8	105.9	116.3	130.2	147.7	172.0	197.9
40°	80.8	81.9	83.9	87.2	92.3	98.8	106.4	116.9	130.4	149.9	173.7
42.5°	79.1	79.3	80.5	83.0	87.5	94.0	101.9	111.2	121.4	135.2	155.9
45°	77.4	77.1	77.6	79.6	83.3	90.6	99.7	109.8	120.0	131.6	148.5
47.5°	76.0	76.0	76.0	76.8	80.2	87.5	98.0	109.8	122.0	135.0	151.6
50°	72.0	71.7	71.7	72.3	74.8	82.7	95.2	109.6	125.4	142.3	161.2
52.5°	67.5	67.5	67.8	68.0	70.3	78.2	92.0	109.6	129.3	151.9	175.6
55°	66.1	66.4	66.6	66.4	68.0	74.8	88.7	107.9	131.0	159.5	191.2
57.5°	64.9	65.5	65.5	65.2	66.4	72.0	85.3	104.5	129.6	162.4	202.2
60°	63.2	63.2	63.2	62.4	63.0	68.0	80.2	99.1	125.1	159.8	203.9
62.5°	59.6	59.6	59.0	58.7	58.4	62.4	73.4	91.2	116.9	153.0	199.6
63°	58.7	58.4	58.4	57.6	57.6	61.3	72.0	90.1	114.6	151.3	197.9
65°	55.6	55.6	55.6	55.1	54.8	57.6	66.4	82.2	105.9	143.4	189.5
67.5°	52.2	52.5	52.0	51.7	51.4	53.1	59.9	72.3	92.3	126.8	173.7
70°	47.4	47.7	47.7	47.4	47.2	48.3	52.5	62.1	76.5	105.6	148.0
72.5°	43.2	43.8	43.8	44.3	44.3	45.2	46.9	51.7	61.3	82.4	116.3
75°	38.7	39.0	39.5	40.1	39.5	39.2	39.5	43.2	48.0	61.0	83.0
77.5°	34.7	35.6	35.6	35.3	34.4	33.9	33.9	35.6	39.5	46.3	59.3
80°	28.8	30.2	30.5	29.6	28.8	28.8	29.4	30.5	33.0	38.1	44.9
82.5°	23.2	24.6	24.8	25.1	24.8	25.7	25.7	26.0	27.4	31.3	36.7
85°	17.8	18.9	19.8	20.0	20.3	20.6	20.3	18.9	19.8	22.3	24.8
87.5°	7.9	8.2	7.6	7.9	7.6	7.9	8.2	6.8	6.5	8.8	9.0
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: P152927

CATALOG NUMBER: TLM-F01-LED-E1-SLL-7060

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	293.1	293.1	293.4	292.8	292.8	293.1	292.2
5°	288.6	289.7	289.7	289.7	289.1	289.7	290.0
7.5°	289.7	290.5	291.1	291.1	290.8	292.0	292.8
10°	291.1	292.5	293.1	293.1	293.1	294.5	296.5
12.5°	296.5	297.6	298.5	298.5	299.0	300.7	303.0
15°	306.4	307.8	307.8	307.5	309.2	311.2	313.7
17.5°	317.4	321.3	323.3	323.0	324.4	327.0	329.8
20°	327.8	338.8	343.6	347.0	348.4	351.8	352.7
22.5°	336.6	354.9	368.2	379.5	384.9	388.2	392.2
25°	333.5	358.3	382.0	405.2	421.6	438.2	445.3
27.5°	320.8	351.8	382.9	416.8	446.4	476.1	497.5
30°	305.2	342.5	384.3	432.3	479.2	524.6	560.8
32.5°	287.4	333.7	387.4	446.7	508.2	567.8	620.1
35°	265.1	317.1	379.8	448.1	520.7	593.0	660.7
37.5°	236.9	294.5	362.0	437.9	521.2	604.0	685.0
40°	208.7	266.0	339.4	423.3	513.9	606.5	700.2
42.5°	188.9	240.6	316.5	404.6	502.0	602.6	707.6
45°	175.3	222.2	296.2	387.7	489.3	595.5	708.7
47.5°	174.2	214.3	282.9	375.3	479.2	589.3	708.7
50°	183.8	218.5	278.4	369.0	474.9	587.3	709.3
52.5°	201.9	235.5	286.6	373.8	478.3	589.8	711.8
55°	223.6	261.2	308.6	390.5	492.7	598.3	717.5
57.5°	243.4	290.8	346.2	422.7	519.0	619.8	733.3
60°	255.0	316.2	386.0	467.9	563.9	662.4	764.9
62.5°	256.4	330.4	421.3	517.0	618.4	711.3	815.5
63°	255.3	331.5	425.8	526.3	629.9	723.4	833.0
65°	249.0	331.8	438.5	559.1	670.0	774.5	881.8
67.5°	233.2	322.7	443.0	584.8	720.6	841.7	973.0
70°	205.8	297.0	429.7	585.3	740.1	879.3	1030.6
72.5°	165.5	248.2	372.4	532.5	688.7	842.3	1015.6
75°	121.1	182.4	281.5	412.5	561.9	701.1	869.9
77.5°	80.5	118.0	189.7	293.9	402.9	504.6	626.3
80°	55.3	73.1	111.0	176.8	246.5	295.9	399.0
82.5°	40.7	48.3	61.6	90.4	118.6	146.0	208.4
85°	25.4	27.7	30.8	44.6	63.8	86.1	129.9
87.5°	6.8	7.1	6.5	8.8	13.8	13.3	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)