

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: P148929

Luminaire Tested: **TLM-E01-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148929
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-E01-LED-E1-RW-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

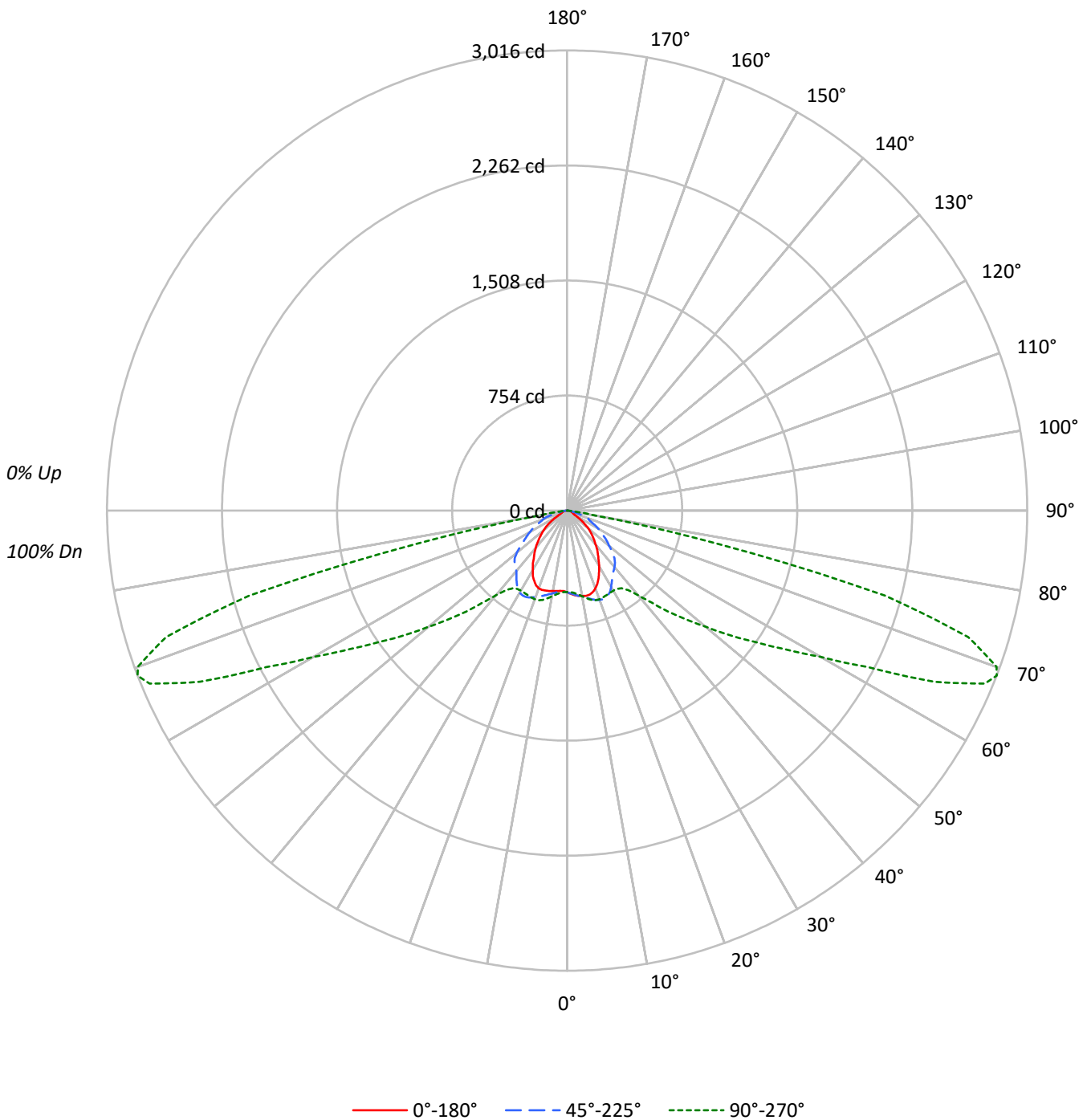
Lumens per Lamp: N/A
Luminaire Lumens: 2853.3 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 24.7
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-E01-LED-E1-RW-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	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°	33849	33849	33849
5°	35352	34462	33572
10°	36564	36680	34468
15°	37397	39698	35561
20°	36493	41661	36574
25°	34051	42686	35581
30°	30649	44321	32922
35°	27224	48032	29442
40°	24003	59768	26524
45°	20989	83750	23174
50°	17662	116747	19888
55°	12739	165684	15631
60°	7598	242619	9333
65°	6847	397520	6847
70°	6998	554381	7109
75°	7437	527612	7828
80°	7548	67930	8204
85°	4867	17000	6829



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	1.8
10°-20°	165.4	5.8
20°-30°	268.0	9.4
30°-40°	334.0	11.7
40°-50°	417.4	14.6
50°-60°	515.4	18.1
60°-70°	640.4	22.4
70°-80°	425.1	14.9
80°-90°	35.1	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°	485.9	17.0
0°-40°	819.9	28.7
0°-60°	1752.6	61.4
0°-90°	2853.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2853.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	535	535	535	535	535	
5°	556	553	542	534	528	53
15°	570	600	606	576	542	160
25°	487	621	611	627	509	223
35°	352	519	621	577	381	221
45°	234	437	935	488	259	181
55°	115	296	1501	346	142	103
65°	46	171	2653	218	46	46
75°	30	68	2157	88	32	32
85°	7	13	23	17	9	9
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°	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6
2.5°	546.8	548.6	546.8	546.8	545.3	543.7	542.8	540.7	539.5	538.9	538.9
5°	556.2	555.9	556.2	556.2	554.7	552.9	551.7	549.8	548.0	547.7	547.4
7.5°	563.2	562.9	563.8	565.7	564.8	563.2	563.2	561.4	560.2	560.2	559.6
10°	568.7	569.0	570.8	573.6	574.2	573.9	576.0	575.4	574.8	575.4	574.8
12.5°	572.4	572.7	575.1	580.3	583.6	585.8	591.2	591.5	591.9	591.9	591.9
15°	570.5	570.5	575.4	585.2	593.4	599.8	606.8	608.0	606.8	607.7	607.1
17.5°	559.9	560.5	568.4	583.3	600.1	614.1	621.7	619.6	617.4	617.4	616.5
20°	541.6	542.8	553.5	574.5	601.0	623.2	635.1	628.1	622.3	621.4	620.5
22.5°	519.1	518.2	531.0	557.4	594.0	627.2	643.3	634.8	624.4	622.3	620.8
25°	487.4	488.0	501.4	531.0	576.3	620.8	645.7	641.5	629.3	626.6	623.2
27.5°	452.7	454.2	468.5	498.7	548.9	604.9	643.0	648.2	638.7	635.7	632.6
30°	419.2	420.1	436.3	468.5	515.1	576.9	635.7	655.5	650.6	648.2	645.4
32.5°	383.6	386.7	400.7	437.2	488.3	546.2	624.4	663.1	664.9	663.4	661.9
35°	352.2	354.7	370.5	408.9	462.5	518.8	610.7	671.3	683.8	683.5	683.2
37.5°	323.9	324.5	341.3	380.3	436.9	499.6	596.4	684.7	706.9	710.0	713.6
40°	290.4	293.5	310.8	352.9	411.6	483.2	584.2	702.7	739.2	745.9	751.1
42.5°	263.7	263.7	279.2	320.9	381.8	464.3	580.0	725.2	777.6	786.7	795.8
45°	234.4	235.3	250.3	288.3	347.7	436.9	579.4	750.2	820.5	833.6	844.8
47.5°	206.7	207.3	223.2	260.0	312.4	399.1	571.8	777.9	865.6	884.4	896.9
50°	179.3	178.4	193.6	231.1	281.0	360.2	547.4	813.8	921.6	940.4	954.8
52.5°	145.5	148.0	164.4	200.0	250.3	327.0	497.8	849.1	979.4	1000.7	1020.2
55°	115.4	115.1	133.7	165.9	217.1	295.6	439.0	874.1	1035.7	1060.4	1082.0
57.5°	82.8	83.7	99.6	131.5	182.7	267.6	394.6	869.8	1079.3	1108.5	1135.9
60°	60.0	61.8	73.7	97.1	145.8	235.3	363.5	820.5	1109.1	1149.0	1182.2
62.5°	50.5	52.1	62.4	75.2	112.6	201.5	333.4	741.3	1147.8	1200.4	1248.5
65°	45.7	46.9	57.2	64.5	86.5	171.4	314.5	685.3	1198.6	1278.7	1344.5
67.5°	41.1	42.9	52.1	57.5	73.4	153.1	309.0	676.8	1208.4	1314.3	1407.8
69°	39.0	40.8	49.0	53.9	69.1	147.4	298.7	646.0	1144.7	1258.6	1363.3
70°	37.8	39.3	46.6	51.8	67.9	141.9	284.1	601.0	1077.1	1191.9	1304.6
72.5°	34.7	35.6	41.7	46.9	62.4	109.0	215.2	434.1	804.1	917.6	1028.1
75°	30.4	31.4	36.8	42.0	48.4	67.6	130.6	257.6	493.5	569.9	680.8
77.5°	26.2	27.1	31.7	39.6	38.4	44.1	79.8	154.1	258.8	296.8	367.8
80°	20.7	21.9	26.5	38.1	32.0	35.0	58.5	113.9	157.4	173.2	191.8
82.5°	14.6	15.2	20.1	30.4	24.1	26.5	43.8	94.7	126.3	137.9	143.4
85°	6.7	7.0	11.9	18.0	14.3	12.8	23.4	60.6	83.7	87.1	91.9
87.5°	0.0	0.0	1.2	1.2	2.4	1.5	2.7	7.6	12.8	12.8	15.5
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°	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6
2.5°	539.2	538.9	539.2	539.2	539.5	538.3	538.0	537.7	537.4	537.7	537.0
5°	547.4	547.1	547.1	547.4	547.1	546.2	545.9	545.9	545.0	544.7	544.7
7.5°	559.9	559.3	558.4	559.0	559.3	559.0	559.3	558.4	558.4	557.4	557.8
10°	575.4	574.8	574.5	575.1	575.4	575.1	575.4	574.2	573.9	573.6	573.0
12.5°	592.5	591.2	592.2	592.2	592.5	593.7	592.2	592.8	591.5	591.5	591.2
15°	607.4	607.1	607.7	607.7	607.4	608.3	608.0	608.3	606.8	606.2	607.7
17.5°	616.8	615.9	616.2	615.9	615.9	615.9	616.5	616.5	615.6	615.3	615.9
20°	619.3	617.7	617.4	617.1	616.5	616.5	616.8	616.2	615.6	615.0	615.6
22.5°	618.6	616.8	615.0	614.1	613.2	611.9	611.6	611.0	610.1	610.1	610.4
25°	620.8	617.4	614.7	612.9	610.4	608.9	607.7	606.2	604.6	603.7	604.0
27.5°	628.1	624.4	620.8	617.1	613.5	610.4	608.0	605.2	602.8	601.0	600.1
30°	641.8	636.9	632.6	628.4	623.8	619.6	615.6	611.3	606.8	604.0	601.6
32.5°	657.6	654.3	651.5	646.7	641.8	636.6	631.7	628.1	621.4	616.2	611.9
35°	681.7	680.4	678.9	675.3	669.8	667.1	663.1	657.3	649.4	644.8	638.4
37.5°	714.8	715.2	713.9	712.4	713.0	707.8	705.4	704.8	696.9	693.8	684.4
40°	755.6	760.2	764.2	764.2	767.2	767.5	766.9	772.1	766.3	767.5	757.5
42.5°	801.0	812.0	818.1	822.6	832.7	837.2	844.8	856.1	856.7	862.5	863.1
45°	854.6	866.8	878.3	890.2	903.6	919.4	935.3	946.8	965.1	969.1	982.2
47.5°	910.3	928.0	941.4	956.6	979.4	999.8	1023.3	1047.0	1068.0	1082.9	1091.5
50°	971.8	989.8	1009.3	1026.3	1050.7	1079.3	1111.9	1144.4	1171.5	1198.0	1219.3
52.5°	1040.0	1059.8	1078.1	1100.3	1124.9	1159.0	1194.7	1239.4	1275.6	1311.9	1338.1
55°	1105.5	1127.7	1144.4	1172.7	1198.3	1233.3	1277.5	1330.4	1380.7	1424.5	1460.1
57.5°	1162.4	1184.3	1207.8	1232.1	1263.2	1298.2	1352.4	1412.6	1469.9	1527.4	1580.1
60°	1215.7	1245.2	1270.8	1303.0	1334.1	1374.6	1439.1	1513.7	1592.0	1663.5	1716.2
62.5°	1296.0	1333.8	1363.9	1403.8	1447.1	1494.9	1566.1	1648.3	1750.3	1842.5	1924.4
65°	1408.4	1466.2	1514.9	1564.0	1616.6	1682.4	1759.4	1863.8	1976.5	2112.9	2221.0
67.5°	1488.5	1560.9	1623.9	1685.4	1746.0	1818.8	1914.1	2036.5	2182.3	2325.7	2463.0
69°	1456.2	1532.9	1602.9	1664.1	1728.1	1800.8	1893.7	2027.9	2176.5	2334.2	2470.3
70°	1388.3	1471.1	1546.0	1604.5	1669.9	1742.1	1844.7	1972.8	2124.5	2287.6	2421.0
72.5°	1116.4	1203.8	1277.8	1342.6	1411.1	1495.8	1587.1	1710.1	1878.2	2038.0	2156.7
75°	769.0	850.6	934.4	982.8	1061.3	1121.6	1208.4	1334.4	1474.8	1592.3	1702.2
77.5°	435.1	478.9	542.2	562.0	618.3	658.5	704.5	782.1	855.2	923.4	943.2
80°	197.9	184.8	191.2	181.5	192.1	185.4	177.8	182.1	181.1	194.8	182.1
82.5°	142.5	123.0	102.3	88.3	77.6	65.8	56.0	50.2	49.6	52.1	51.1
85°	91.0	83.1	65.2	52.4	40.2	31.1	25.9	23.4	23.4	25.0	24.7
87.5°	15.8	13.7	8.5	7.3	6.4	4.3	2.7	2.7	2.4	3.0	4.0
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6
2.5°	537.0	536.7	536.1	535.8	535.8	535.2	534.9	535.5	535.8	536.1	535.2
5°	544.7	543.7	543.4	543.7	542.2	542.5	542.2	542.5	542.5	542.5	541.9
7.5°	556.8	555.9	556.5	555.9	555.0	554.7	554.7	553.8	552.6	552.3	552.6
10°	573.6	572.4	572.7	573.0	572.1	571.5	570.5	569.3	569.3	569.0	568.4
12.5°	591.5	590.9	590.9	591.2	590.9	589.7	588.5	587.9	587.6	587.6	587.6
15°	607.1	606.8	607.1	606.8	606.8	606.2	605.6	604.6	604.3	604.6	604.9
17.5°	615.9	615.0	615.9	616.2	615.9	615.9	615.9	615.3	615.0	615.0	615.3
20°	616.5	615.9	616.5	617.4	617.4	617.7	618.3	618.6	618.3	618.9	619.3
22.5°	610.4	610.4	611.3	612.2	613.8	614.4	615.6	616.2	616.8	617.7	618.3
25°	604.3	604.0	604.9	606.8	608.0	609.5	611.0	612.2	613.5	614.7	615.9
27.5°	600.1	599.8	600.4	601.9	603.4	605.2	607.7	609.5	611.0	612.6	613.5
30°	600.4	599.2	598.9	600.1	601.6	603.7	606.2	608.3	610.4	611.6	612.6
32.5°	609.2	606.2	604.9	604.6	605.2	606.8	608.6	610.7	612.2	613.5	613.8
35°	632.0	626.3	625.0	621.1	621.7	621.4	621.4	622.6	623.8	623.8	621.7
37.5°	678.3	670.1	664.3	660.4	656.4	656.1	655.5	654.9	651.8	650.0	649.7
40°	750.5	747.1	736.2	733.1	726.4	721.9	723.1	720.6	713.3	710.6	709.4
42.5°	855.8	857.6	851.5	837.2	831.5	822.6	815.3	814.1	807.4	801.9	797.7
45°	979.4	982.8	978.2	967.8	957.5	944.1	935.3	918.2	911.5	903.0	897.2
47.5°	1106.4	1115.5	1108.2	1099.1	1093.3	1072.3	1054.0	1034.2	1024.2	1012.0	1006.5
50°	1232.4	1248.5	1244.3	1235.8	1229.4	1202.9	1185.2	1157.8	1152.0	1139.9	1133.2
52.5°	1358.5	1374.3	1383.7	1375.8	1371.2	1349.9	1337.8	1315.8	1299.4	1291.8	1291.5
55°	1485.7	1511.3	1526.2	1523.5	1515.9	1513.1	1500.9	1498.8	1486.0	1477.8	1466.8
57.5°	1610.2	1637.3	1663.2	1678.4	1684.8	1682.7	1688.5	1687.9	1689.7	1688.8	1670.8
60°	1768.6	1811.5	1849.2	1873.3	1896.1	1911.9	1915.9	1939.3	1932.6	1947.3	1919.3
62.5°	1992.0	2047.7	2105.0	2130.2	2158.2	2209.7	2221.9	2249.6	2253.8	2257.5	2242.6
65°	2303.5	2376.5	2463.0	2501.7	2545.5	2611.6	2653.3	2682.8	2681.9	2661.8	2642.6
67.5°	2569.3	2655.7	2735.2	2802.5	2867.9	2919.4	2963.2	3003.1	3005.2	2992.7	2959.9
69°	2592.1	2682.5	2769.0	2850.0	2914.8	2972.0	3016.5	3047.5	3054.2	3043.3	3012.8
70°	2549.8	2641.1	2735.2	2812.8	2886.2	2946.8	2994.6	3024.4	3033.5	3022.3	2993.7
72.5°	2289.5	2378.1	2448.4	2539.7	2644.1	2682.2	2755.9	2780.2	2802.8	2787.8	2770.8
75°	1793.5	1876.9	1949.7	1997.2	2045.0	2139.1	2156.7	2202.4	2217.9	2203.3	2222.2
77.5°	934.4	990.7	1015.0	977.0	982.8	1057.1	1015.0	1064.4	1092.7	1100.9	1112.8
80°	178.7	187.8	194.8	192.4	194.8	200.3	186.3	178.7	188.8	186.6	186.6
82.5°	52.7	51.8	51.8	54.5	54.2	55.4	55.4	53.3	54.8	54.8	55.1
85°	24.1	22.8	22.5	22.8	22.5	22.5	23.4	23.4	25.3	23.7	24.1
87.5°	3.0	2.7	3.0	3.0	2.4	2.4	2.7	3.0	3.0	2.7	2.7
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: P148929

CATALOG NUMBER: TLM-E01-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6	534.6
2.5°	534.9	534.6	534.6	534.6	534.3	534.0	533.7	532.8	531.9	531.6	530.0
5°	540.7	541.0	540.4	539.8	539.8	539.8	538.9	536.4	534.6	533.7	531.6
7.5°	552.9	552.3	551.4	551.1	550.4	550.8	548.9	545.9	542.5	540.4	537.0
10°	569.0	568.4	567.8	567.2	566.3	566.3	564.1	559.6	554.4	550.8	544.7
12.5°	587.9	587.3	586.7	586.4	584.8	584.5	581.5	576.0	569.3	562.3	553.5
15°	605.2	604.3	604.0	603.1	602.2	601.9	599.2	591.9	583.6	575.7	564.1
17.5°	616.2	615.6	614.7	614.1	613.8	613.5	609.5	603.4	597.0	589.1	575.1
20°	619.9	620.2	619.6	618.9	618.0	617.4	613.8	608.0	606.8	602.5	588.2
22.5°	619.3	619.3	618.9	617.7	617.1	615.6	610.4	607.7	614.4	616.2	597.9
25°	616.8	616.5	615.6	614.7	612.9	610.7	602.8	604.3	623.2	626.6	600.1
27.5°	614.1	613.8	612.2	610.1	607.4	604.3	594.3	604.3	631.4	628.7	591.2
30°	612.6	611.3	609.2	606.2	602.5	599.2	588.2	612.2	637.2	621.4	566.9
32.5°	612.9	610.7	607.7	603.7	599.5	595.5	587.9	626.3	639.3	603.7	532.5
35°	620.2	616.8	612.9	608.9	604.6	601.0	601.6	645.7	639.0	577.2	499.3
37.5°	646.7	640.9	638.1	633.9	627.8	624.7	636.9	667.4	634.8	545.0	470.1
40°	705.1	700.2	696.3	685.3	687.4	685.0	696.6	696.9	629.3	517.9	445.7
42.5°	790.4	790.4	781.8	780.3	774.5	777.3	782.4	731.6	623.8	501.7	421.7
45°	890.8	898.4	895.1	894.2	898.7	904.2	880.5	772.7	624.1	487.7	393.7
47.5°	1010.2	1016.6	1019.9	1025.4	1031.2	1027.8	978.8	815.9	629.6	467.6	357.7
50°	1137.1	1152.6	1157.5	1164.5	1169.7	1170.6	1072.0	860.4	635.4	430.8	318.8
52.5°	1294.5	1309.1	1314.3	1319.2	1315.2	1311.9	1163.3	913.0	630.8	387.0	285.6
55°	1479.6	1482.4	1481.5	1475.4	1472.0	1453.7	1247.9	969.1	595.2	346.5	253.9
57.5°	1672.3	1673.6	1662.6	1641.3	1616.6	1599.3	1329.2	1015.3	519.7	313.9	222.6
60°	1920.5	1895.5	1876.9	1844.4	1804.2	1767.0	1416.3	1041.2	447.5	282.5	187.2
62.5°	2220.1	2170.1	2129.9	2097.1	2037.7	1972.2	1527.4	1044.6	403.7	252.7	147.0
65°	2607.9	2555.2	2486.7	2430.4	2366.2	2277.9	1706.7	1020.5	382.1	218.0	107.5
67.5°	2913.3	2860.0	2783.3	2720.3	2637.5	2534.5	1855.3	978.5	376.9	186.6	84.6
69°	2966.6	2908.4	2839.3	2760.4	2672.5	2562.6	1861.1	929.8	369.0	174.8	77.6
70°	2947.1	2886.5	2819.8	2736.1	2637.5	2524.5	1817.3	875.6	353.2	168.1	75.2
72.5°	2728.5	2636.2	2569.3	2497.7	2377.8	2263.3	1564.6	662.5	274.9	141.6	70.3
75°	2184.4	2105.6	2030.1	1994.5	1894.9	1797.8	1174.6	420.8	179.6	88.0	55.1
77.5°	1113.7	1099.4	1121.0	1104.8	1033.0	1033.0	724.9	223.5	105.6	53.0	42.0
80°	200.0	208.5	204.6	213.1	198.2	220.1	254.8	150.1	74.9	40.5	34.4
82.5°	56.0	56.6	56.0	56.3	58.1	61.2	132.4	129.1	57.8	30.4	26.8
85°	26.2	26.5	27.1	27.1	29.5	30.1	88.9	92.6	33.8	16.7	18.0
87.5°	3.0	4.0	4.0	3.7	4.3	4.3	16.4	18.6	4.6	3.3	5.5
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: P148929

CATALOG NUMBER: TLM-E01-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	534.6	534.6	534.6	534.6
2.5°	528.8	527.6	526.4	527.3
5°	530.7	528.8	527.3	528.2
7.5°	535.5	532.5	532.2	532.2
10°	541.6	537.4	536.1	536.1
12.5°	548.0	542.2	540.1	540.1
15°	554.7	546.5	543.4	542.5
17.5°	562.3	550.8	545.3	545.3
20°	569.6	551.4	543.1	542.8
22.5°	570.8	544.4	532.5	531.9
25°	561.7	527.9	512.4	509.3
27.5°	540.1	502.3	485.9	485.3
30°	507.5	468.9	452.1	450.3
32.5°	475.6	434.5	418.9	418.9
35°	443.3	403.1	383.0	380.9
37.5°	413.4	369.9	351.9	351.6
40°	386.0	341.0	323.6	320.9
42.5°	358.6	310.5	290.7	290.1
45°	326.1	277.4	260.3	258.8
47.5°	291.4	247.5	229.6	229.3
50°	260.0	219.8	201.9	201.9
52.5°	231.4	192.7	174.8	172.9
55°	199.1	162.0	143.7	141.6
57.5°	164.1	127.6	111.1	106.6
60°	127.0	92.9	76.1	73.7
62.5°	92.6	67.9	55.4	53.6
65°	69.7	57.8	47.5	45.7
67.5°	60.0	52.1	43.2	41.4
69°	55.7	49.3	41.4	39.6
70°	53.9	47.5	39.9	38.4
72.5°	49.6	43.5	36.5	35.9
75°	45.4	39.6	32.9	32.0
77.5°	43.8	34.4	28.3	27.7
80°	44.8	28.0	23.1	22.5
82.5°	36.5	22.5	18.0	17.0
85°	22.8	15.2	9.4	9.4
87.5°	5.8	4.9	2.7	2.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)