

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: P148934

Luminaire Tested: **TLM-F01-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148934
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-F01-LED-E1-RW-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2355.4 lumens
Efficiency: N/A
Efficacy: 90.9 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

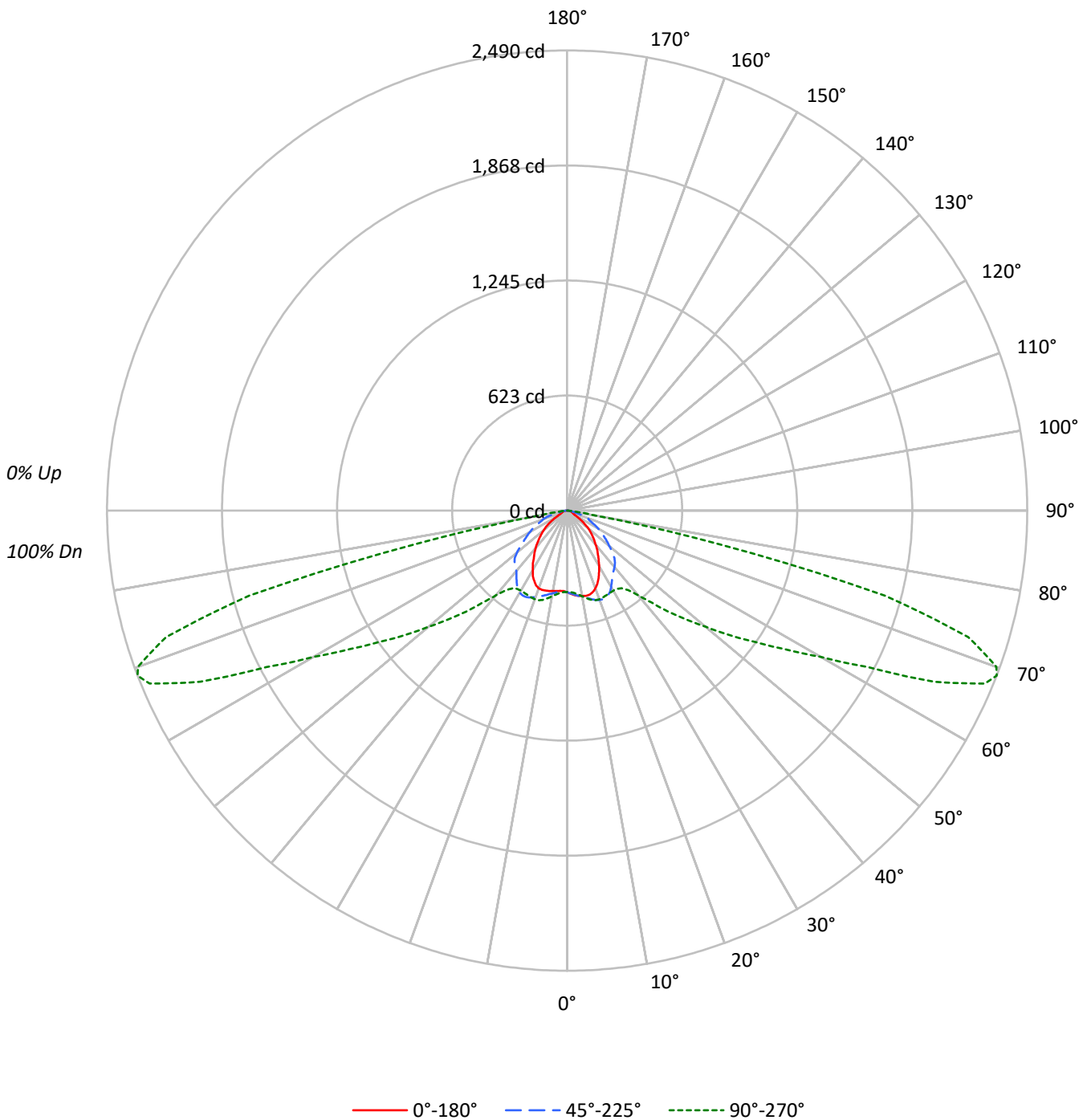
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F01-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	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	106	101	95	91	104	98	93	89	94	90	86	90	87	84	86	84	81	79					79			
2	94	84	76	69	91	82	75	68	79	72	66	75	70	65	72	67	63	61					61			
3	84	72	62	54	81	70	61	54	67	59	52	64	57	51	61	55	51	48					48			
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	47	41	39					39			
5	69	54	44	36	67	53	43	36	51	42	35	49	41	35	47	40	35	32					32			
6	63	48	38	31	61	47	37	30	45	36	30	43	36	30	42	35	29	27					27			
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	38	31	25	23					23			
8	54	39	29	23	52	38	29	23	37	29	23	35	28	23	34	27	22	20					20			
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18					18			
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16					16			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	27942	27942	27942
5°	29186	28449	27718
10°	30186	30282	28456
15°	30874	32769	29360
20°	30126	34398	30193
25°	28113	35239	29377
30°	25304	36585	27176
35°	22478	39653	24302
40°	19821	49337	21895
45°	17327	69137	19127
50°	14579	96376	16411
55°	10520	136784	12905
60°	6268	200285	7699
65°	5648	328168	5648
70°	5776	457652	5869
75°	6140	435555	6458
80°	6235	56080	6782
85°	3996	14094	5667



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	1.8
10°-20°	136.6	5.8
20°-30°	221.3	9.4
30°-40°	275.7	11.7
40°-50°	344.6	14.6
50°-60°	425.5	18.1
60°-70°	528.7	22.4
70°-80°	351.0	14.9
80°-90°	29.0	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°	401.1	17.0
0°-40°	676.8	28.7
0°-60°	1446.8	61.4
0°-90°	2355.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2355.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	441	441	441	441	441	
5°	459	456	448	441	436	44
15°	471	495	500	475	448	132
25°	402	512	504	517	420	184
35°	291	428	513	476	314	182
45°	194	361	772	403	214	149
55°	95	244	1239	286	117	85
65°	38	142	2190	180	38	38
75°	25	56	1780	73	26	26
85°	6	11	19	14	8	7
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°	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3
2.5°	451.4	452.9	451.4	451.4	450.1	448.9	448.1	446.4	445.4	444.9	444.9
5°	459.2	458.9	459.2	459.2	457.9	456.4	455.4	453.9	452.4	452.1	451.9
7.5°	465.0	464.7	465.5	467.0	466.2	465.0	465.0	463.5	462.4	462.4	461.9
10°	469.5	469.7	471.2	473.5	474.0	473.8	475.5	475.0	474.5	475.0	474.5
12.5°	472.5	472.8	474.8	479.0	481.8	483.6	488.1	488.3	488.6	488.6	488.6
15°	471.0	471.0	475.0	483.1	489.8	495.1	500.9	501.9	500.9	501.7	501.2
17.5°	462.2	462.7	469.2	481.6	495.4	506.9	513.2	511.5	509.7	509.7	508.9
20°	447.1	448.1	456.9	474.3	496.1	514.5	524.3	518.5	513.7	513.0	512.2
22.5°	428.5	427.8	438.3	460.2	490.3	517.7	531.1	524.0	515.5	513.7	512.5
25°	402.4	402.9	413.9	438.3	475.8	512.5	533.1	529.6	519.5	517.2	514.5
27.5°	373.7	375.0	386.8	411.7	453.2	499.4	530.8	535.1	527.3	524.8	522.3
30°	346.1	346.8	360.2	386.8	425.3	476.3	524.8	541.1	537.1	535.1	532.8
32.5°	316.7	319.2	330.8	360.9	403.1	450.9	515.5	547.4	548.9	547.7	546.4
35°	290.8	292.8	305.9	337.5	381.8	428.3	504.2	554.2	564.5	564.2	564.0
37.5°	267.4	267.9	281.7	313.9	360.7	412.4	492.4	565.2	583.6	586.1	589.1
40°	239.8	242.3	256.6	291.3	339.8	398.9	482.3	580.1	610.2	615.8	620.0
42.5°	217.7	217.7	230.5	264.9	315.2	383.3	478.8	598.7	641.9	649.4	657.0
45°	193.5	194.3	206.6	238.0	287.0	360.7	478.3	619.3	677.3	688.1	697.4
47.5°	170.7	171.2	184.2	214.6	257.9	329.5	472.0	642.2	714.5	730.1	740.4
50°	148.0	147.3	159.8	190.8	232.0	297.3	451.9	671.8	760.8	776.4	788.2
52.5°	120.1	122.1	135.7	165.1	206.6	269.9	410.9	701.0	808.5	826.1	842.2
55°	95.3	95.0	110.3	137.0	179.2	244.0	362.4	721.6	855.0	875.4	893.2
57.5°	68.4	69.1	82.2	108.6	150.8	220.9	325.7	718.1	891.0	915.1	937.7
60°	49.5	51.0	60.8	80.2	120.4	194.3	300.1	677.3	915.6	948.5	975.9
62.5°	41.7	43.0	51.5	62.1	93.0	166.4	275.2	612.0	947.5	991.0	1030.7
65°	37.7	38.7	47.3	53.3	71.4	141.5	259.6	565.7	989.5	1055.6	1109.9
67.5°	33.9	35.4	43.0	47.5	60.6	126.4	255.1	558.7	997.5	1085.0	1162.2
69°	32.2	33.7	40.5	44.5	57.1	121.6	246.6	533.3	945.0	1039.0	1125.5
70°	31.2	32.4	38.5	42.7	56.0	117.1	234.5	496.1	889.2	984.0	1077.0
72.5°	28.7	29.4	34.4	38.7	51.5	90.0	177.7	358.4	663.8	757.5	848.7
75°	25.1	25.9	30.4	34.7	40.0	55.8	107.8	212.6	407.4	470.5	562.0
77.5°	21.6	22.4	26.1	32.7	31.7	36.4	65.8	127.2	213.6	245.0	303.6
80°	17.1	18.1	21.9	31.4	26.4	28.9	48.3	94.0	129.9	143.0	158.3
82.5°	12.1	12.6	16.6	25.1	19.9	21.9	36.2	78.2	104.3	113.9	118.4
85°	5.5	5.8	9.8	14.8	11.8	10.6	19.4	50.0	69.1	71.9	75.9
87.5°	0.0	0.0	1.0	1.0	2.0	1.3	2.3	6.3	10.6	10.6	12.8
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°	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3
2.5°	445.1	444.9	445.1	445.1	445.4	444.4	444.1	443.9	443.6	443.9	443.3
5°	451.9	451.6	451.6	451.9	451.6	450.9	450.6	450.6	449.9	449.6	449.6
7.5°	462.2	461.7	460.9	461.4	461.7	461.4	461.7	460.9	460.9	460.2	460.4
10°	475.0	474.5	474.3	474.8	475.0	474.8	475.0	474.0	473.8	473.5	473.0
12.5°	489.1	488.1	488.8	488.8	489.1	490.1	488.8	489.3	488.3	488.3	488.1
15°	501.4	501.2	501.7	501.7	501.4	502.2	501.9	502.2	500.9	500.4	501.7
17.5°	509.2	508.4	508.7	508.4	508.4	508.4	508.9	508.9	508.2	507.9	508.4
20°	511.2	510.0	509.7	509.4	508.9	508.9	509.2	508.7	508.2	507.7	508.2
22.5°	510.7	509.2	507.7	506.9	506.2	505.2	504.9	504.4	503.7	503.7	503.9
25°	512.5	509.7	507.4	505.9	503.9	502.7	501.7	500.4	499.1	498.4	498.6
27.5°	518.5	515.5	512.5	509.4	506.4	503.9	501.9	499.6	497.6	496.1	495.4
30°	529.8	525.8	522.3	518.7	515.0	511.5	508.2	504.7	500.9	498.6	496.6
32.5°	542.9	540.1	537.8	533.8	529.8	525.5	521.5	518.5	513.0	508.7	505.2
35°	562.7	561.7	560.5	557.5	552.9	550.7	547.4	542.6	536.1	532.3	527.0
37.5°	590.1	590.4	589.4	588.1	588.6	584.3	582.3	581.8	575.3	572.8	565.0
40°	623.8	627.6	630.8	630.8	633.4	633.6	633.1	637.4	632.6	633.6	625.3
42.5°	661.3	670.3	675.3	679.1	687.4	691.2	697.4	706.7	707.2	712.0	712.5
45°	705.5	715.5	725.1	734.9	746.0	759.0	772.1	781.6	796.7	800.0	810.8
47.5°	751.5	766.1	777.1	789.7	808.5	825.4	844.7	864.3	881.7	894.0	901.0
50°	802.2	817.1	833.2	847.2	867.3	891.0	917.9	944.8	967.1	989.0	1006.6
52.5°	858.5	874.9	890.0	908.3	928.7	956.8	986.2	1023.2	1053.1	1083.0	1104.6
55°	912.6	930.9	944.8	968.1	989.2	1018.1	1054.6	1098.3	1139.8	1176.0	1205.4
57.5°	959.6	977.7	997.0	1017.1	1042.8	1071.7	1116.4	1166.2	1213.4	1260.9	1304.4
60°	1003.6	1027.9	1049.1	1075.7	1101.3	1134.8	1188.0	1249.6	1314.2	1373.3	1416.8
62.5°	1069.9	1101.1	1126.0	1158.9	1194.6	1234.0	1292.8	1360.7	1444.9	1521.1	1588.7
65°	1162.7	1210.4	1250.6	1291.1	1334.6	1388.9	1452.4	1538.6	1631.6	1744.2	1833.5
67.5°	1228.8	1288.6	1340.6	1391.4	1441.4	1501.5	1580.1	1681.2	1801.5	1919.9	2033.3
69°	1202.1	1265.5	1323.3	1373.8	1426.6	1486.6	1563.3	1674.1	1796.8	1927.0	2039.3
70°	1146.1	1214.4	1276.3	1324.5	1378.6	1438.1	1522.8	1628.6	1753.8	1888.5	1998.6
72.5°	921.6	993.8	1054.8	1108.4	1164.9	1234.8	1310.2	1411.7	1550.5	1682.4	1780.4
75°	634.9	702.2	771.3	811.3	876.1	925.9	997.5	1101.6	1217.4	1314.5	1405.2
77.5°	359.2	395.3	447.6	464.0	510.5	543.6	581.6	645.7	706.0	762.3	778.6
80°	163.4	152.6	157.8	149.8	158.6	153.1	146.8	150.3	149.5	160.9	150.3
82.5°	117.6	101.5	84.4	72.9	64.1	54.3	46.2	41.5	41.0	43.0	42.2
85°	75.1	68.6	53.8	43.2	33.2	25.6	21.4	19.4	19.4	20.6	20.4
87.5°	13.1	11.3	7.0	6.0	5.3	3.5	2.3	2.3	2.0	2.5	3.3
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3
2.5°	443.3	443.1	442.6	442.3	442.3	441.8	441.6	442.1	442.3	442.6	441.8
5°	449.6	448.9	448.6	448.9	447.6	447.9	447.6	447.9	447.9	447.9	447.4
7.5°	459.7	458.9	459.4	458.9	458.2	457.9	457.9	457.2	456.2	455.9	456.2
10°	473.5	472.5	472.8	473.0	472.3	471.7	471.0	470.0	470.0	469.7	469.2
12.5°	488.3	487.8	487.8	488.1	487.8	486.8	485.8	485.3	485.1	485.1	485.1
15°	501.2	500.9	501.2	500.9	500.9	500.4	499.9	499.1	498.9	499.1	499.4
17.5°	508.4	507.7	508.4	508.7	508.4	508.4	508.4	507.9	507.7	507.7	507.9
20°	508.9	508.4	508.9	509.7	509.7	510.0	510.5	510.7	510.5	511.0	511.2
22.5°	503.9	503.9	504.7	505.4	506.7	507.2	508.2	508.7	509.2	510.0	510.5
25°	498.9	498.6	499.4	500.9	501.9	503.2	504.4	505.4	506.4	507.4	508.4
27.5°	495.4	495.1	495.6	496.9	498.1	499.6	501.7	503.2	504.4	505.7	506.4
30°	495.6	494.6	494.4	495.4	496.6	498.4	500.4	502.2	503.9	504.9	505.7
32.5°	502.9	500.4	499.4	499.1	499.6	500.9	502.4	504.2	505.4	506.4	506.7
35°	521.8	517.0	516.0	512.7	513.2	513.0	513.0	514.0	515.0	515.0	513.2
37.5°	560.0	553.2	548.4	545.1	541.9	541.6	541.1	540.6	538.1	536.6	536.3
40°	619.5	616.8	607.7	605.2	599.7	595.9	596.9	594.9	588.9	586.6	585.6
42.5°	706.5	708.0	703.0	691.2	686.4	679.1	673.1	672.1	666.5	662.0	658.5
45°	808.5	811.3	807.5	799.0	790.4	779.4	772.1	758.0	752.5	745.4	740.7
47.5°	913.3	920.9	914.8	907.3	902.5	885.2	870.1	853.8	845.5	835.4	830.9
50°	1017.4	1030.7	1027.2	1020.2	1014.9	993.0	978.4	955.8	951.0	941.0	935.5
52.5°	1121.4	1134.5	1142.3	1135.8	1132.0	1114.4	1104.3	1086.3	1072.7	1066.4	1066.1
55°	1226.5	1247.6	1259.9	1257.7	1251.4	1249.1	1239.1	1237.3	1226.7	1220.0	1210.9
57.5°	1329.3	1351.7	1373.0	1385.6	1390.9	1389.1	1393.9	1393.4	1394.9	1394.1	1379.3
60°	1460.0	1495.4	1526.6	1546.4	1565.3	1578.4	1581.6	1601.0	1595.5	1607.5	1584.4
62.5°	1644.5	1690.5	1737.7	1758.6	1781.7	1824.2	1834.2	1857.1	1860.6	1863.6	1851.3
65°	1901.6	1961.9	2033.3	2065.2	2101.4	2155.9	2190.4	2214.7	2214.0	2197.4	2181.6
67.5°	2121.0	2192.4	2258.0	2313.5	2367.5	2410.0	2446.2	2479.1	2480.9	2470.6	2443.4
69°	2139.8	2214.5	2285.9	2352.7	2406.2	2453.5	2490.2	2515.8	2521.4	2512.3	2487.2
70°	2104.9	2180.3	2258.0	2322.0	2382.6	2432.6	2472.1	2496.7	2504.3	2495.0	2471.3
72.5°	1890.0	1963.1	2021.2	2096.6	2182.8	2214.2	2275.0	2295.2	2313.8	2301.4	2287.4
75°	1480.6	1549.5	1609.5	1648.7	1688.2	1765.9	1780.4	1818.1	1830.9	1818.9	1834.5
77.5°	771.3	817.8	837.9	806.5	811.3	872.6	837.9	878.7	902.0	908.8	918.6
80°	147.5	155.1	160.9	158.8	160.9	165.4	153.8	147.5	155.8	154.1	154.1
82.5°	43.5	42.7	42.7	45.0	44.7	45.7	45.7	44.0	45.2	45.2	45.5
85°	19.9	18.8	18.6	18.8	18.6	18.6	19.4	19.4	20.9	19.6	19.9
87.5°	2.5	2.3	2.5	2.5	2.0	2.0	2.3	2.5	2.5	2.3	2.3
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: P148934

CATALOG NUMBER: TLM-F01-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3	441.3
2.5°	441.6	441.3	441.3	441.3	441.1	440.8	440.6	439.8	439.1	438.8	437.6
5°	446.4	446.6	446.1	445.6	445.6	445.6	444.9	442.8	441.3	440.6	438.8
7.5°	456.4	455.9	455.2	454.9	454.4	454.7	453.2	450.6	447.9	446.1	443.3
10°	469.7	469.2	468.7	468.2	467.5	467.5	465.7	461.9	457.7	454.7	449.6
12.5°	485.3	484.8	484.3	484.1	482.8	482.6	480.0	475.5	470.0	464.2	456.9
15°	499.6	498.9	498.6	497.9	497.1	496.9	494.6	488.6	481.8	475.3	465.7
17.5°	508.7	508.2	507.4	506.9	506.7	506.4	503.2	498.1	492.9	486.3	474.8
20°	511.7	512.0	511.5	511.0	510.2	509.7	506.7	501.9	500.9	497.4	485.6
22.5°	511.2	511.2	511.0	510.0	509.4	508.2	503.9	501.7	507.2	508.7	493.6
25°	509.2	508.9	508.2	507.4	505.9	504.2	497.6	498.9	514.5	517.2	495.4
27.5°	506.9	506.7	505.4	503.7	501.4	498.9	490.6	498.9	521.3	519.0	488.1
30°	505.7	504.7	502.9	500.4	497.4	494.6	485.6	505.4	526.0	513.0	468.0
32.5°	505.9	504.2	501.7	498.4	494.9	491.6	485.3	517.0	527.8	498.4	439.6
35°	512.0	509.2	505.9	502.7	499.1	496.1	496.6	533.1	527.5	476.5	412.2
37.5°	533.8	529.1	526.8	523.3	518.2	515.7	525.8	550.9	524.0	449.9	388.1
40°	582.1	578.1	574.8	565.7	567.5	565.5	575.0	575.3	519.5	427.5	367.9
42.5°	652.5	652.5	645.4	644.2	639.4	641.6	645.9	603.9	515.0	414.2	348.1
45°	735.4	741.7	738.9	738.2	741.9	746.5	726.8	637.9	515.2	402.6	325.0
47.5°	833.9	839.2	842.0	846.5	851.3	848.5	808.0	673.6	519.8	386.0	295.3
50°	938.7	951.5	955.6	961.3	965.6	966.4	884.9	710.3	524.5	355.6	263.1
52.5°	1068.7	1080.7	1085.0	1089.0	1085.8	1083.0	960.3	753.7	520.8	319.4	235.7
55°	1221.5	1223.7	1223.0	1218.0	1215.2	1200.1	1030.2	800.0	491.4	286.0	209.6
57.5°	1380.6	1381.6	1372.5	1354.9	1334.6	1320.2	1097.3	838.2	429.0	259.1	183.7
60°	1585.4	1564.8	1549.5	1522.6	1489.4	1458.7	1169.2	859.6	369.5	233.2	154.6
62.5°	1832.7	1791.5	1758.3	1731.2	1682.2	1628.1	1260.9	862.3	333.3	208.6	121.4
65°	2152.9	2109.4	2052.9	2006.4	1953.3	1880.5	1409.0	842.5	315.4	180.0	88.7
67.5°	2405.0	2361.0	2297.7	2245.6	2177.3	2092.3	1531.6	807.8	311.1	154.1	69.9
69°	2449.0	2401.0	2343.9	2278.8	2206.2	2115.5	1536.4	767.6	304.6	144.3	64.1
70°	2432.9	2382.9	2327.8	2258.7	2177.3	2084.0	1500.2	722.8	291.5	138.7	62.1
72.5°	2252.4	2176.3	2121.0	2061.9	1962.9	1868.4	1291.6	546.9	227.0	116.9	58.1
75°	1803.3	1738.2	1675.9	1646.5	1564.3	1484.1	969.6	347.3	148.3	72.6	45.5
77.5°	919.4	907.6	925.4	912.1	852.8	852.8	598.4	184.5	87.2	43.7	34.7
80°	165.1	172.2	168.9	175.9	163.6	181.7	210.4	123.9	61.8	33.4	28.4
82.5°	46.2	46.7	46.2	46.5	48.0	50.5	109.3	106.6	47.8	25.1	22.1
85°	21.6	21.9	22.4	22.4	24.4	24.9	73.4	76.4	27.9	13.8	14.8
87.5°	2.5	3.3	3.3	3.0	3.5	3.5	13.6	15.3	3.8	2.8	4.5
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: P148934

CATALOG NUMBER: TLM-F01-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	441.3	441.3	441.3	441.3
2.5°	436.6	435.6	434.6	435.3
5°	438.1	436.6	435.3	436.1
7.5°	442.1	439.6	439.3	439.3
10°	447.1	443.6	442.6	442.6
12.5°	452.4	447.6	445.9	445.9
15°	457.9	451.1	448.6	447.9
17.5°	464.2	454.7	450.1	450.1
20°	470.2	455.2	448.4	448.1
22.5°	471.2	449.4	439.6	439.1
25°	463.7	435.8	423.0	420.5
27.5°	445.9	414.7	401.1	400.6
30°	419.0	387.0	373.2	371.7
32.5°	392.6	358.6	345.8	345.8
35°	365.9	332.8	316.2	314.4
37.5°	341.3	305.4	290.5	290.3
40°	318.7	281.5	267.2	264.9
42.5°	296.1	256.4	240.0	239.5
45°	269.2	229.0	214.9	213.6
47.5°	240.5	204.3	189.5	189.3
50°	214.6	181.5	166.6	166.6
52.5°	191.0	159.1	144.3	142.8
55°	164.4	133.7	118.6	116.9
57.5°	135.5	105.3	91.7	88.0
60°	104.8	76.7	62.8	60.8
62.5°	76.4	56.0	45.7	44.2
65°	57.6	47.8	39.2	37.7
67.5°	49.5	43.0	35.7	34.2
69°	46.0	40.7	34.2	32.7
70°	44.5	39.2	32.9	31.7
72.5°	41.0	35.9	30.2	29.7
75°	37.4	32.7	27.1	26.4
77.5°	36.2	28.4	23.4	22.9
80°	36.9	23.1	19.1	18.6
82.5°	30.2	18.6	14.8	14.1
85°	18.8	12.6	7.8	7.8
87.5°	4.8	4.0	2.3	2.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)