

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: P148928

Luminaire Tested: **TLM-E01-LED-E1-RW-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P148928  
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-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

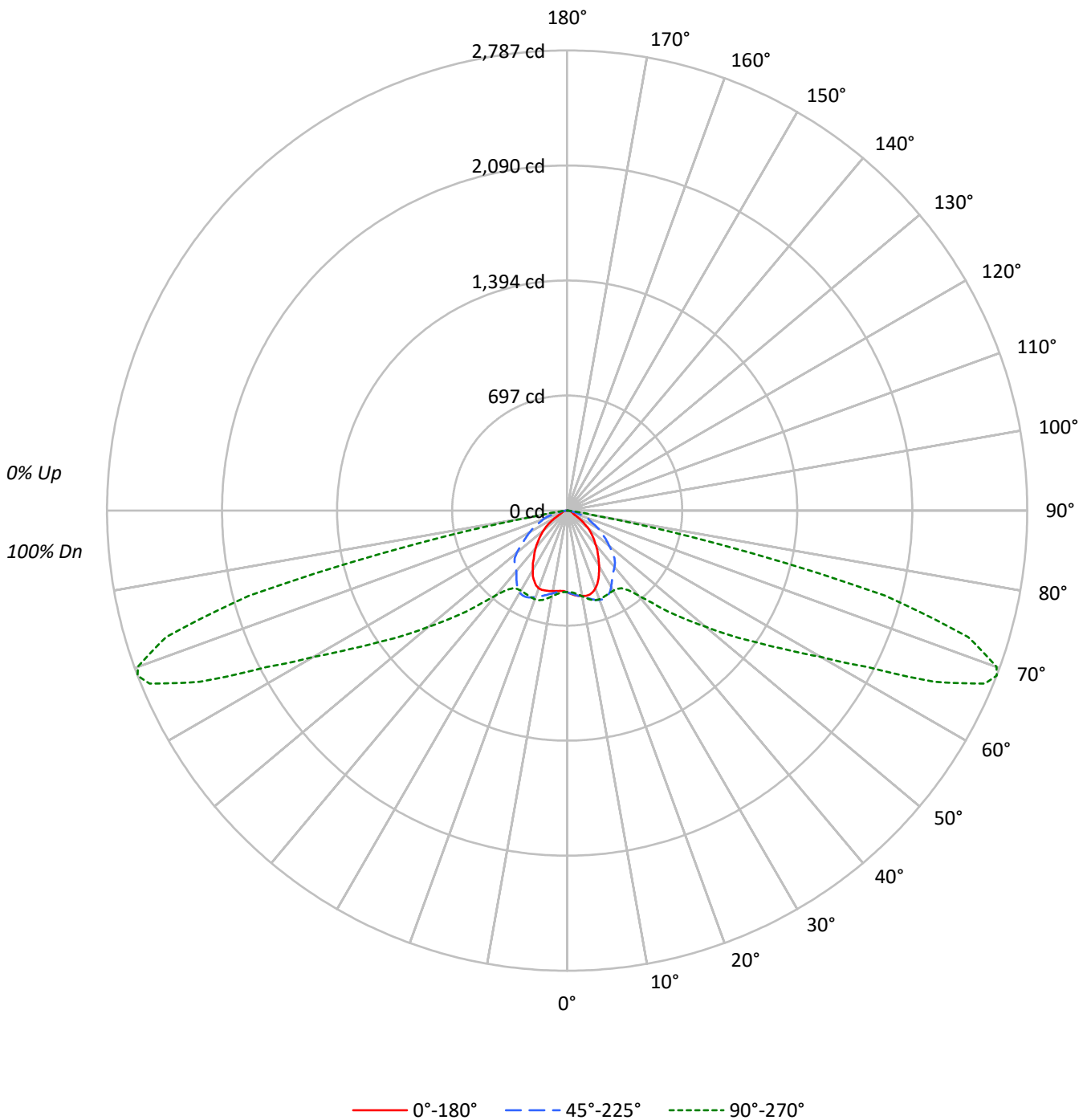
Lumens per Lamp: N/A  
Luminaire Lumens: 2636.6 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

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-8030

### 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°	31279	31279	31279
5°	32669	31843	31023
10°	33786	33896	31851
15°	34558	36682	32861
20°	33724	38501	33798
25°	31466	39445	32884
30°	28324	40950	30422
35°	25160	44383	27200
40°	22185	55230	24507
45°	19395	77384	21410
50°	16322	107882	18371
55°	11768	153111	14439
60°	7016	224193	8624
65°	6322	367331	6322
70°	6461	512283	6553
75°	6874	487540	7217
80°	6964	62789	7584
85°	4504	15765	6320



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.5	1.8
10°-20°	152.9	5.8
20°-30°	247.7	9.4
30°-40°	308.6	11.7
40°-50°	385.7	14.6
50°-60°	476.2	18.1
60°-70°	591.8	22.4
70°-80°	392.8	14.9
80°-90°	32.4	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°	449.0	17.0
0°-40°	757.6	28.7
0°-60°	1619.5	61.4
0°-90°	2636.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2636.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	494	494	494	494	494	
5°	514	511	501	493	488	49
15°	527	554	560	532	501	148
25°	450	574	565	579	471	206
35°	326	479	574	533	352	204
45°	217	404	864	451	239	167
55°	107	273	1387	320	131	95
65°	42	158	2452	201	42	43
75°	28	62	1993	81	30	29
85°	6	12	22	16	9	8
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°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
2.5°	505.3	507.0	505.3	505.3	503.9	502.5	501.6	499.6	498.5	498.0	498.0
5°	514.0	513.7	514.0	514.0	512.6	510.9	509.8	508.1	506.4	506.1	505.8
7.5°	520.5	520.2	521.0	522.7	521.9	520.5	520.5	518.8	517.6	517.6	517.1
10°	525.5	525.8	527.5	530.0	530.6	530.3	532.3	531.7	531.2	531.7	531.2
12.5°	528.9	529.2	531.4	536.2	539.3	541.3	546.3	546.6	546.9	546.9	546.9
15°	527.2	527.2	531.7	540.7	548.3	554.2	560.7	561.8	560.7	561.5	561.0
17.5°	517.4	517.9	525.2	539.0	554.5	567.4	574.5	572.5	570.5	570.5	569.7
20°	500.5	501.6	511.5	530.9	555.3	575.9	586.9	580.4	575.0	574.2	573.4
22.5°	479.7	478.8	490.6	515.1	548.9	579.5	594.5	586.6	577.0	575.0	573.6
25°	450.4	451.0	463.4	490.6	532.6	573.6	596.7	592.8	581.5	579.0	575.9
27.5°	418.3	419.7	433.0	460.8	507.2	559.0	594.2	599.0	590.2	587.4	584.6
30°	387.4	388.2	403.1	433.0	476.0	533.1	587.4	605.7	601.2	599.0	596.4
32.5°	354.5	357.3	370.2	404.0	451.3	504.7	577.0	612.7	614.4	613.0	611.6
35°	325.5	327.7	342.4	377.8	427.3	479.4	564.3	620.3	631.9	631.6	631.3
37.5°	299.3	299.9	315.4	351.4	403.7	461.7	551.1	632.7	653.2	656.1	659.4
40°	268.4	271.2	287.2	326.1	380.4	446.5	539.9	649.3	683.1	689.3	694.0
42.5°	243.6	243.6	258.0	296.5	352.8	429.0	535.9	670.1	718.5	727.0	735.4
45°	216.6	217.5	231.3	266.4	321.3	403.7	535.4	693.2	758.2	770.3	780.7
47.5°	191.0	191.6	206.2	240.3	288.6	368.8	528.3	718.8	799.8	817.3	828.8
50°	165.7	164.9	178.9	213.5	259.7	332.8	505.8	752.0	851.6	869.0	882.3
52.5°	134.5	136.7	151.9	184.8	231.3	302.1	460.0	784.6	905.0	924.7	942.7
55°	106.6	106.3	123.5	153.3	200.6	273.2	405.7	807.7	957.1	979.9	999.8
57.5°	76.5	77.4	92.0	121.5	168.8	247.3	364.6	803.8	997.3	1024.3	1049.6
60°	55.4	57.1	68.1	89.7	134.8	217.5	335.9	758.2	1024.9	1061.7	1092.4
62.5°	46.7	48.1	57.7	69.5	104.1	186.2	308.1	685.0	1060.6	1109.3	1153.7
65°	42.2	43.3	52.9	59.6	79.9	158.4	290.6	633.3	1107.6	1181.6	1242.4
67.5°	38.0	39.7	48.1	53.2	67.8	141.5	285.6	625.4	1116.6	1214.5	1300.9
69°	36.0	37.7	45.3	49.8	63.9	136.2	276.0	597.0	1057.8	1163.0	1259.8
70°	34.9	36.3	43.0	47.8	62.7	131.1	262.5	555.3	995.3	1101.4	1205.5
72.5°	32.1	32.9	38.5	43.3	57.7	100.7	198.9	401.2	743.0	847.9	950.1
75°	28.1	29.0	34.0	38.8	44.7	62.5	120.7	238.0	456.0	526.7	629.1
77.5°	24.2	25.0	29.3	36.6	35.4	40.8	73.7	142.4	239.1	274.3	339.8
80°	19.1	20.3	24.5	35.2	29.5	32.4	54.0	105.2	145.4	160.1	177.2
82.5°	13.5	14.1	18.6	28.1	22.2	24.5	40.5	87.5	116.8	127.4	132.5
85°	6.2	6.5	11.0	16.6	13.2	11.8	21.7	56.0	77.4	80.5	85.0
87.5°	0.0	0.0	1.1	1.1	2.3	1.4	2.5	7.0	11.8	11.8	14.3
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):**

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
2.5°	498.2	498.0	498.2	498.2	498.5	497.4	497.1	496.8	496.5	496.8	496.3
5°	505.8	505.6	505.6	505.8	505.6	504.7	504.4	504.4	503.6	503.3	503.3
7.5°	517.4	516.8	516.0	516.5	516.8	516.5	516.8	516.0	516.0	515.1	515.4
10°	531.7	531.2	530.9	531.4	531.7	531.4	531.7	530.6	530.3	530.0	529.5
12.5°	547.5	546.3	547.2	547.2	547.5	548.6	547.2	547.8	546.6	546.6	546.3
15°	561.3	561.0	561.5	561.5	561.3	562.1	561.8	562.1	560.7	560.1	561.5
17.5°	570.0	569.1	569.4	569.1	569.1	569.1	569.7	569.7	568.8	568.6	569.1
20°	572.2	570.8	570.5	570.3	569.7	569.7	570.0	569.4	568.8	568.3	568.8
22.5°	571.7	570.0	568.3	567.4	566.6	565.5	565.2	564.6	563.8	563.8	564.1
25°	573.6	570.5	568.0	566.3	564.1	562.7	561.5	560.1	558.7	557.9	558.2
27.5°	580.4	577.0	573.6	570.3	566.9	564.1	561.8	559.3	557.0	555.3	554.5
30°	593.0	588.5	584.6	580.7	576.4	572.5	568.8	564.9	560.7	558.2	555.9
32.5°	607.7	604.6	602.0	597.5	593.0	588.3	583.8	580.4	574.2	569.4	565.5
35°	629.9	628.8	627.4	624.0	618.9	616.4	612.7	607.4	600.1	595.9	589.9
37.5°	660.6	660.8	659.7	658.3	658.9	654.1	651.8	651.3	644.0	641.2	632.4
40°	698.3	702.5	706.1	706.1	709.0	709.2	708.7	713.5	708.1	709.2	699.9
42.5°	740.2	750.3	755.9	760.2	769.4	773.7	780.7	791.1	791.7	797.0	797.6
45°	789.7	800.9	811.6	822.6	835.0	849.6	864.2	874.9	891.8	895.5	907.6
47.5°	841.2	857.5	869.9	883.9	905.0	923.9	945.6	967.5	986.9	1000.7	1008.6
50°	898.0	914.6	932.6	948.4	970.9	997.3	1027.4	1057.5	1082.6	1107.0	1126.7
52.5°	961.0	979.3	996.2	1016.7	1039.5	1071.0	1103.9	1145.3	1178.8	1212.3	1236.4
55°	1021.5	1042.0	1057.5	1083.7	1107.3	1139.7	1180.5	1229.4	1275.8	1316.3	1349.3
57.5°	1074.1	1094.4	1116.0	1138.5	1167.2	1199.6	1249.7	1305.4	1358.3	1411.4	1460.1
60°	1123.4	1150.6	1174.3	1204.1	1232.8	1270.2	1329.8	1398.8	1471.1	1537.2	1585.9
62.5°	1197.6	1232.5	1260.4	1297.2	1337.2	1381.3	1447.2	1523.1	1617.4	1702.6	1778.3
65°	1301.4	1354.9	1399.9	1445.2	1493.9	1554.6	1625.8	1722.3	1826.4	1952.4	2052.3
67.5°	1375.4	1442.4	1500.6	1557.4	1613.4	1680.7	1768.7	1881.8	2016.6	2149.1	2276.0
69°	1345.6	1416.5	1481.2	1537.8	1596.8	1664.1	1749.9	1873.9	2011.2	2157.0	2282.7
70°	1282.9	1359.4	1428.6	1482.6	1543.1	1609.8	1704.6	1823.0	1963.1	2113.9	2237.1
72.5°	1031.6	1112.4	1180.7	1240.7	1304.0	1382.2	1466.6	1580.2	1735.5	1883.2	1992.9
75°	710.6	786.0	863.4	908.1	980.7	1036.4	1116.6	1233.1	1362.8	1471.4	1572.9
77.5°	402.0	442.5	501.0	519.3	571.4	608.5	651.0	722.7	790.3	853.3	871.6
80°	182.9	170.8	176.7	167.7	177.5	171.3	164.3	168.2	167.4	180.1	168.2
82.5°	131.7	113.7	94.5	81.6	71.7	60.8	51.8	46.4	45.9	48.1	47.3
85°	84.1	76.8	60.2	48.4	37.1	28.7	23.9	21.7	21.7	23.1	22.8
87.5°	14.6	12.7	7.9	6.8	5.9	3.9	2.5	2.5	2.3	2.8	3.7
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°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
2.5°	496.3	496.0	495.4	495.1	495.1	494.6	494.3	494.9	495.1	495.4	494.6
5°	503.3	502.5	502.2	502.5	501.0	501.3	501.0	501.3	501.3	501.3	500.8
7.5°	514.6	513.7	514.3	513.7	512.9	512.6	512.6	511.7	510.6	510.3	510.6
10°	530.0	528.9	529.2	529.5	528.6	528.1	527.2	526.1	526.1	525.8	525.2
12.5°	546.6	546.1	546.1	546.3	546.1	544.9	543.8	543.2	543.0	543.0	543.0
15°	561.0	560.7	561.0	560.7	560.7	560.1	559.6	558.7	558.4	558.7	559.0
17.5°	569.1	568.3	569.1	569.4	569.1	569.1	569.1	568.6	568.3	568.3	568.6
20°	569.7	569.1	569.7	570.5	570.5	570.8	571.4	571.7	571.4	571.9	572.2
22.5°	564.1	564.1	564.9	565.8	567.2	567.7	568.8	569.4	570.0	570.8	571.4
25°	558.4	558.2	559.0	560.7	561.8	563.2	564.6	565.8	566.9	568.0	569.1
27.5°	554.5	554.2	554.8	556.2	557.6	559.3	561.5	563.2	564.6	566.0	566.9
30°	554.8	553.7	553.4	554.5	555.9	557.9	560.1	562.1	564.1	565.2	566.0
32.5°	562.9	560.1	559.0	558.7	559.3	560.7	562.4	564.3	565.8	566.9	567.2
35°	584.0	578.7	577.6	573.9	574.5	574.2	574.2	575.3	576.4	576.4	574.5
37.5°	626.8	619.2	613.9	610.2	606.5	606.3	605.7	605.1	602.3	600.6	600.4
40°	693.5	690.4	680.3	677.4	671.3	667.0	668.2	665.9	659.2	656.6	655.5
42.5°	790.8	792.5	786.9	773.7	768.3	760.2	753.4	752.3	746.1	741.0	737.1
45°	905.0	908.1	903.9	894.3	884.8	872.4	864.2	848.5	842.3	834.4	829.1
47.5°	1022.4	1030.8	1024.0	1015.6	1010.3	990.8	974.0	955.7	946.4	935.1	930.1
50°	1138.8	1153.7	1149.8	1141.9	1136.0	1111.5	1095.2	1069.9	1064.6	1053.3	1047.1
52.5°	1255.3	1269.9	1278.6	1271.3	1267.1	1247.4	1236.2	1215.9	1200.7	1193.7	1193.4
55°	1372.9	1396.5	1410.3	1407.8	1400.7	1398.2	1387.0	1385.0	1373.2	1365.6	1355.4
57.5°	1488.0	1513.0	1536.9	1551.0	1556.9	1554.9	1560.3	1559.7	1561.4	1560.5	1543.9
60°	1634.2	1673.9	1708.8	1731.0	1752.1	1766.8	1770.4	1792.1	1785.9	1799.4	1773.5
62.5°	1840.7	1892.2	1945.1	1968.5	1994.4	2041.9	2053.1	2078.7	2082.7	2086.1	2072.3
65°	2128.5	2196.1	2276.0	2311.7	2352.2	2413.3	2451.8	2479.1	2478.2	2459.7	2441.9
67.5°	2374.1	2454.0	2527.5	2589.6	2650.1	2697.7	2738.2	2775.0	2777.0	2765.5	2735.1
69°	2395.2	2478.8	2558.7	2633.5	2693.5	2746.3	2787.4	2816.1	2822.3	2812.2	2784.0
70°	2356.1	2440.5	2527.5	2599.2	2667.0	2723.0	2767.2	2794.7	2803.2	2792.8	2766.3
72.5°	2115.6	2197.5	2262.5	2346.9	2443.4	2478.5	2546.6	2569.1	2589.9	2576.1	2560.4
75°	1657.3	1734.4	1801.6	1845.5	1889.7	1976.6	1992.9	2035.1	2049.5	2036.0	2053.4
77.5°	863.4	915.4	938.0	902.8	908.1	976.8	938.0	983.5	1009.7	1017.3	1028.3
80°	165.1	173.6	180.1	177.8	180.1	185.1	172.2	165.1	174.4	172.5	172.5
82.5°	48.7	47.8	47.8	50.4	50.1	51.2	51.2	49.2	50.6	50.6	50.9
85°	22.2	21.1	20.8	21.1	20.8	20.8	21.7	21.7	23.4	21.9	22.2
87.5°	2.8	2.5	2.8	2.8	2.3	2.3	2.5	2.8	2.8	2.5	2.5
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: P148928

CATALOG NUMBER: TLM-E01-LED-E1-RW-8030

**CANDELA DISTRIBUTION (continued):**

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0	494.0
2.5°	494.3	494.0	494.0	494.0	493.7	493.5	493.2	492.3	491.5	491.2	489.8
5°	499.6	499.9	499.4	498.8	498.8	498.8	498.0	495.7	494.0	493.2	491.2
7.5°	510.9	510.3	509.5	509.2	508.6	508.9	507.2	504.4	501.3	499.4	496.3
10°	525.8	525.2	524.7	524.1	523.3	523.3	521.3	517.1	512.3	508.9	503.3
12.5°	543.2	542.7	542.1	541.8	540.4	540.2	537.3	532.3	526.1	519.6	511.5
15°	559.3	558.4	558.2	557.3	556.5	556.2	553.7	546.9	539.3	532.0	521.3
17.5°	569.4	568.8	568.0	567.4	567.2	566.9	563.2	557.6	551.7	544.4	531.4
20°	572.8	573.1	572.5	571.9	571.1	570.5	567.2	561.8	560.7	556.8	543.5
22.5°	572.2	572.2	571.9	570.8	570.3	568.8	564.1	561.5	567.7	569.4	552.5
25°	570.0	569.7	568.8	568.0	566.3	564.3	557.0	558.4	575.9	579.0	554.5
27.5°	567.4	567.2	565.8	563.8	561.3	558.4	549.2	558.4	583.5	580.9	546.3
30°	566.0	564.9	562.9	560.1	556.8	553.7	543.5	565.8	588.8	574.2	523.8
32.5°	566.3	564.3	561.5	557.9	553.9	550.3	543.2	578.7	590.8	557.9	492.0
35°	573.1	570.0	566.3	562.7	558.7	555.3	555.9	596.7	590.5	533.4	461.4
37.5°	597.5	592.2	589.7	585.7	580.1	577.3	588.5	616.7	586.6	503.6	434.4
40°	651.6	647.1	643.4	633.3	635.2	633.0	643.7	644.0	581.5	478.5	411.9
42.5°	730.3	730.3	722.5	721.0	715.7	718.2	723.0	676.0	576.4	463.6	389.6
45°	823.2	830.2	827.1	826.3	830.5	835.6	813.6	714.0	576.7	450.7	363.8
47.5°	933.5	939.4	942.5	947.5	952.9	949.8	904.5	754.0	581.8	432.1	330.6
50°	1050.8	1065.1	1069.6	1076.1	1080.9	1081.7	990.6	795.0	587.1	398.1	294.6
52.5°	1196.2	1209.7	1214.5	1219.0	1215.3	1212.3	1075.0	843.7	582.9	357.6	263.9
55°	1367.3	1369.8	1369.0	1363.3	1360.2	1343.4	1153.2	895.5	550.0	320.2	234.6
57.5°	1545.3	1546.5	1536.3	1516.7	1493.9	1477.8	1228.3	938.2	480.2	290.1	205.7
60°	1774.6	1751.6	1734.4	1704.3	1667.2	1632.8	1308.7	962.1	413.6	261.1	173.0
62.5°	2051.5	2005.3	1968.2	1937.8	1882.9	1822.5	1411.4	965.2	373.0	233.5	135.9
65°	2409.9	2361.2	2297.9	2245.9	2186.5	2104.9	1577.1	943.0	353.1	201.4	99.3
67.5°	2692.0	2642.8	2571.9	2513.7	2437.2	2342.1	1714.4	904.2	348.3	172.5	78.2
69°	2741.3	2687.5	2623.7	2550.8	2469.5	2368.0	1719.8	859.2	341.0	161.5	71.7
70°	2723.3	2667.3	2605.7	2528.3	2437.2	2332.8	1679.3	809.1	326.3	155.3	69.5
72.5°	2521.3	2436.0	2374.1	2308.0	2197.2	2091.4	1445.8	612.2	254.0	130.8	65.0
75°	2018.5	1945.7	1875.9	1843.0	1751.0	1661.3	1085.4	388.8	166.0	81.3	50.9
77.5°	1029.1	1015.9	1035.9	1020.9	954.6	954.6	669.8	206.5	97.6	49.0	38.8
80°	184.8	192.7	189.1	196.9	183.1	203.4	235.5	138.7	69.2	37.4	31.8
82.5°	51.8	52.3	51.8	52.0	53.7	56.5	122.4	119.3	53.5	28.1	24.8
85°	24.2	24.5	25.0	25.0	27.3	27.9	82.1	85.5	31.2	15.5	16.6
87.5°	2.8	3.7	3.7	3.4	3.9	3.9	15.2	17.2	4.2	3.1	5.1
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: P148928

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**CANDELA DISTRIBUTION (continued):**

	155°	165°	175°	180°
0°	494.0	494.0	494.0	494.0
2.5°	488.7	487.5	486.4	487.3
5°	490.4	488.7	487.3	488.1
7.5°	494.9	492.0	491.8	491.8
10°	500.5	496.5	495.4	495.4
12.5°	506.4	501.0	499.1	499.1
15°	512.6	505.0	502.2	501.3
17.5°	519.6	508.9	503.9	503.9
20°	526.4	509.5	501.9	501.6
22.5°	527.5	503.0	492.0	491.5
25°	519.1	487.8	473.5	470.7
27.5°	499.1	464.2	449.0	448.4
30°	469.0	433.2	417.8	416.1
32.5°	439.4	401.5	387.1	387.1
35°	409.6	372.5	353.9	351.9
37.5°	382.0	341.8	325.2	324.9
40°	356.7	315.1	299.1	296.5
42.5°	331.4	287.0	268.7	268.1
45°	301.3	256.3	240.5	239.1
47.5°	269.2	228.7	212.1	211.8
50°	240.3	203.1	186.5	186.5
52.5°	213.8	178.1	161.5	159.8
55°	184.0	149.7	132.8	130.8
57.5°	151.6	117.9	102.7	98.5
60°	117.3	85.8	70.3	68.1
62.5°	85.5	62.7	51.2	49.5
65°	64.4	53.5	43.9	42.2
67.5°	55.4	48.1	39.9	38.3
69°	51.5	45.6	38.3	36.6
70°	49.8	43.9	36.9	35.4
72.5°	45.9	40.2	33.8	33.2
75°	41.9	36.6	30.4	29.5
77.5°	40.5	31.8	26.2	25.6
80°	41.4	25.9	21.4	20.8
82.5°	33.8	20.8	16.6	15.8
85°	21.1	14.1	8.7	8.7
87.5°	5.3	4.5	2.5	2.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)