

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: P152918

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P152918  
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-E01-LED-E1-SLL-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

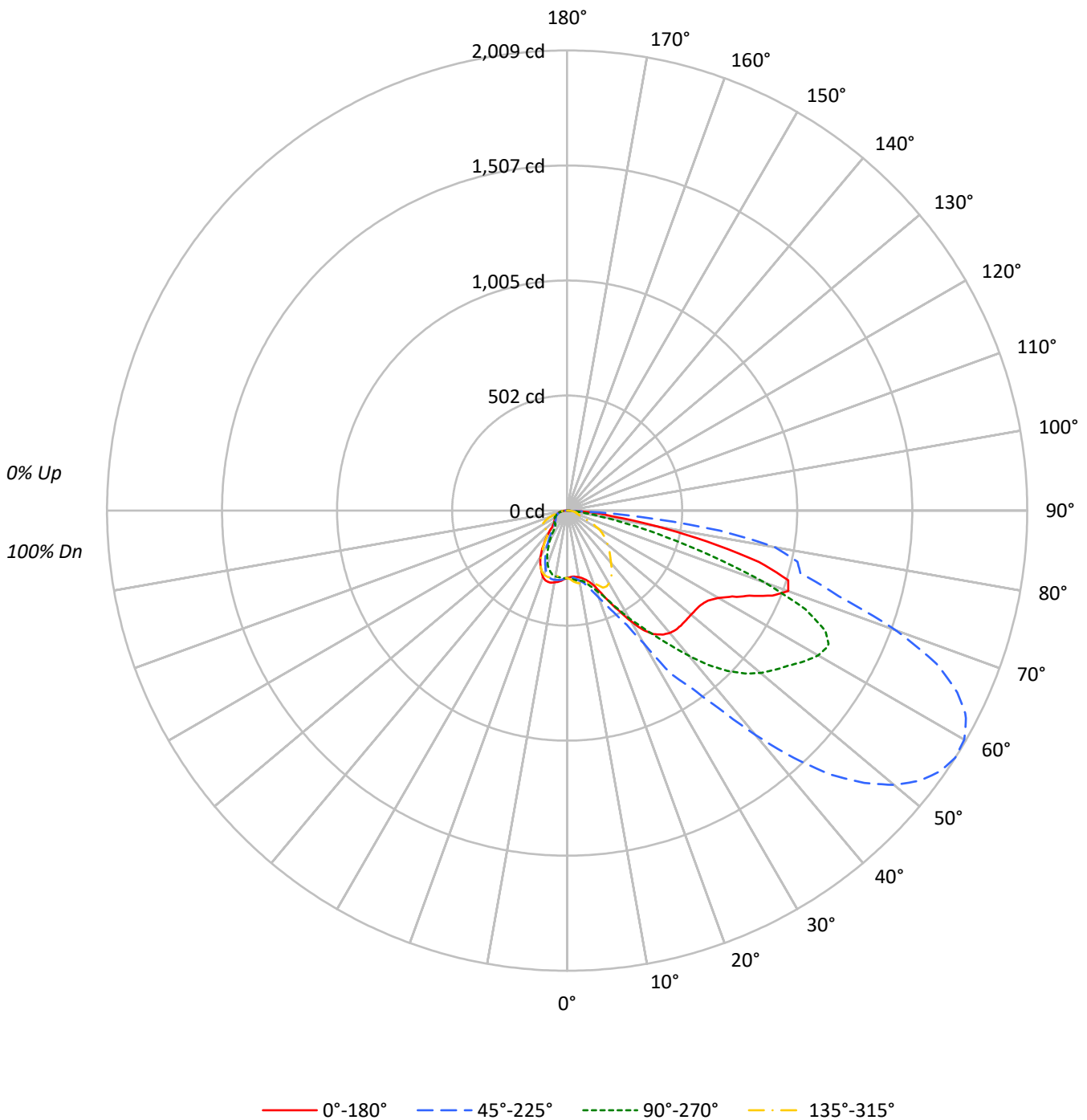
Lumens per Lamp: N/A  
Luminaire Lumens: 2348.4 lumens  
Efficiency: N/A  
Efficacy: 95.1 lumens/watt  
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
CIE Type: Direct

Input Watts (W): 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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### 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	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°	18685	18685	18685	18685
5°	18362	19169	19583	18686
10°	18992	19931	20458	18755
15°	20491	21540	21153	18256
20°	23678	25005	20854	16832
25°	30998	30621	19024	14210
30°	40848	39737	16969	11003
35°	50884	51425	13589	7521
40°	57668	68388	9952	6579
45°	63227	88577	7486	6904
50°	69613	108581	7151	7063
55°	78918	130282	7297	7231
60°	96508	160205	7940	7940
65°	131633	186422	8390	8255
70°	190107	169687	8849	8757
75°	212053	109843	9761	9223
80°	144940	53345	11194	9954
85°	94007	25935	13513	12278



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.7	1.2
10°-20°	89.5	3.8
20°-30°	159.0	6.8
30°-40°	250.3	10.7
40°-50°	368.4	15.7
50°-60°	489.3	20.8
60°-70°	539.0	23.0
70°-80°	338.1	14.4
80°-90°	86.1	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°	277.1	11.8
0°-40°	527.5	22.5
0°-60°	1385.1	59.0
0°-90°	2348.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2348.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	295	295	295	295	295	
5°	289	302	308	294	289	28
15°	313	329	323	278	313	91
25°	444	438	272	203	444	209
35°	658	665	176	97	658	408
45°	706	989	84	77	706	546
55°	715	1180	66	66	715	648
65°	879	1244	56	55	879	885
75°	867	449	40	38	867	848
85°	129	36	19	17	129	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°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	291.2	291.7	291.7	291.5	291.5	292.0	291.7	291.5	290.6	291.7	291.7
5°	288.9	289.5	289.5	290.1	290.6	291.2	291.2	291.7	291.5	292.6	293.4
7.5°	291.7	292.3	293.4	294.8	295.7	297.6	297.6	299.1	299.6	300.5	300.2
10°	295.4	296.8	299.3	301.6	303.3	305.5	307.2	309.2	309.2	310.0	310.6
12.5°	301.9	303.3	306.1	308.9	311.4	314.2	316.8	318.7	320.7	321.3	322.4
15°	312.6	314.2	318.5	322.4	325.5	329.2	332.5	336.5	340.1	341.0	341.5
17.5°	328.6	332.0	335.1	342.1	346.6	351.4	356.7	362.4	363.5	369.4	370.8
20°	351.4	355.6	358.4	367.1	374.7	380.9	388.8	395.3	397.8	403.4	409.1
22.5°	390.8	389.9	394.1	402.9	408.5	420.9	427.6	434.4	437.7	446.2	450.7
25°	443.7	448.2	457.4	458.3	463.6	478.0	486.7	493.5	493.7	496.3	501.0
27.5°	495.7	514.3	528.9	536.8	551.1	564.3	563.8	573.4	558.4	561.5	566.0
30°	558.7	589.7	617.2	635.8	650.4	665.9	673.5	678.9	672.4	669.6	664.2
32.5°	617.8	661.1	703.6	736.5	763.8	789.4	806.3	813.9	822.9	845.7	853.8
35°	658.3	719.6	772.5	820.1	865.7	906.4	936.0	952.9	946.4	943.3	941.6
37.5°	682.5	757.3	823.5	890.7	943.0	1004.1	1049.9	1094.4	1104.5	1086.8	1078.1
40°	697.7	786.3	871.3	950.6	1018.4	1097.2	1154.0	1220.7	1271.3	1278.1	1257.3
42.5°	705.0	805.7	904.8	994.5	1086.2	1182.7	1254.7	1335.5	1411.2	1463.2	1450.3
45°	706.1	818.4	929.2	1034.2	1143.3	1257.8	1350.7	1440.1	1541.4	1630.6	1633.1
47.5°	706.1	828.0	946.1	1062.9	1194.5	1323.1	1424.4	1530.2	1654.2	1759.7	1792.1
50°	706.7	834.4	961.9	1085.4	1233.6	1378.2	1492.7	1617.6	1748.2	1863.0	1925.4
52.5°	709.2	839.2	974.2	1101.4	1259.0	1417.1	1545.9	1690.0	1819.9	1937.8	2018.5
55°	714.9	846.0	983.2	1111.3	1275.8	1442.4	1584.5	1739.5	1866.3	1985.9	2098.7
57.5°	730.6	857.8	994.2	1120.0	1285.1	1459.0	1611.5	1760.8	1884.1	2008.7	2141.2
60°	762.1	882.8	1013.1	1137.4	1300.6	1489.6	1624.4	1746.5	1871.1	2001.9	2150.8
62.5°	812.5	921.9	1039.2	1167.0	1344.8	1537.2	1614.6	1703.7	1820.2	1962.8	2116.7
63°	829.9	930.4	1045.1	1173.4	1356.9	1545.9	1610.3	1691.1	1809.8	1950.5	2104.6
65°	878.6	967.8	1073.3	1206.1	1406.7	1554.6	1577.4	1625.2	1737.8	1879.8	2033.2
67.5°	969.5	1058.6	1133.8	1261.2	1448.6	1520.3	1475.3	1481.2	1598.8	1745.9	1883.8
70°	1026.9	1133.2	1172.3	1268.2	1441.0	1469.4	1343.1	1264.9	1359.1	1526.8	1647.5
72.5°	1011.9	1134.0	1129.8	1174.6	1289.1	1315.5	1184.7	1061.5	1117.4	1242.6	1320.8
75°	866.8	1012.8	981.8	972.8	1013.1	1030.5	932.3	913.5	984.1	1053.6	1054.7
77.5°	624.0	784.6	748.3	696.3	693.5	733.7	746.9	870.4	974.8	1029.7	1005.5
80°	397.5	571.7	534.0	443.1	441.7	494.0	610.2	778.2	888.7	919.4	856.4
82.5°	207.6	374.2	388.5	332.5	380.6	467.3	580.7	627.1	669.0	673.2	599.0
85°	129.4	230.1	270.6	279.4	343.8	414.4	413.6	397.2	378.7	324.1	293.1
87.5°	14.6	29.0	43.9	41.6	56.0	78.5	97.9	57.4	40.2	14.6	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°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	292.3	292.6	292.9	292.9	294.3	294.0	294.3	294.8	295.7	296.2	296.8
5°	294.6	294.6	295.7	296.5	298.2	299.3	299.9	301.6	303.6	303.0	304.7
7.5°	301.9	301.6	302.7	303.3	304.7	306.7	306.4	307.8	309.5	310.0	311.4
10°	311.7	310.9	310.9	310.3	310.6	310.0	310.0	310.0	311.2	310.9	312.0
12.5°	321.8	321.6	321.0	319.3	319.3	317.1	315.9	314.5	314.2	312.3	312.6
15°	342.7	342.7	341.5	338.2	335.3	333.4	330.6	328.6	325.8	322.1	320.2
17.5°	373.0	369.1	367.7	367.1	362.6	360.9	354.8	348.3	345.2	340.1	337.3
20°	410.2	409.3	403.7	400.9	395.3	387.4	379.5	371.1	366.0	359.8	356.4
22.5°	452.1	445.9	443.1	438.9	430.2	421.2	409.3	398.1	390.2	386.0	383.5
25°	501.0	494.9	492.0	486.4	475.7	466.2	451.5	438.3	431.3	424.2	420.3
27.5°	566.0	560.1	556.8	542.1	538.5	522.7	504.7	486.7	477.4	467.0	460.3
30°	663.1	663.4	645.9	628.2	609.9	582.6	563.8	543.5	528.3	513.4	498.5
32.5°	827.1	785.2	752.8	714.9	675.2	646.2	622.9	598.7	577.6	555.9	531.2
35°	927.3	907.0	865.1	795.6	755.7	720.5	694.6	665.3	639.5	601.2	563.5
37.5°	1040.4	993.4	942.5	903.9	858.6	817.8	774.5	741.3	696.6	645.1	591.6
40°	1205.5	1138.3	1076.9	1025.2	966.7	923.9	875.5	827.4	768.0	693.5	620.1
42.5°	1378.0	1308.5	1227.4	1160.2	1091.3	1041.2	981.3	913.8	826.5	734.3	644.5
45°	1558.9	1466.0	1369.0	1286.8	1215.1	1152.9	1078.6	989.2	882.8	770.8	667.3
47.5°	1737.2	1630.6	1515.0	1426.6	1333.2	1257.3	1166.1	1053.0	926.7	805.4	690.1
50°	1894.5	1791.8	1652.5	1540.3	1445.8	1352.1	1238.4	1102.3	961.3	835.3	710.6
52.5°	2030.1	1941.7	1795.2	1653.4	1544.5	1439.3	1296.7	1141.9	996.2	862.8	727.5
55°	2129.7	2070.9	1935.8	1760.0	1631.4	1506.0	1345.9	1180.2	1029.1	884.8	738.5
57.5°	2204.8	2172.2	2056.2	1860.4	1711.3	1570.7	1396.8	1226.0	1061.7	903.6	743.6
60°	2245.9	2254.9	2147.4	1948.2	1781.9	1624.7	1447.7	1265.1	1085.9	914.6	740.7
62.5°	2241.9	2297.1	2215.8	2002.2	1823.0	1656.8	1482.0	1283.4	1082.6	897.2	715.1
63°	2234.3	2298.5	2223.4	2005.9	1825.6	1657.9	1482.9	1280.9	1075.5	888.7	705.0
65°	2168.8	2266.1	2216.9	1989.3	1803.0	1636.8	1465.2	1244.3	1026.0	843.4	653.0
67.5°	1993.2	2115.0	2101.0	1872.0	1696.4	1549.6	1374.6	1126.4	903.6	732.0	553.4
70°	1703.2	1817.7	1820.2	1628.1	1481.5	1337.4	1192.0	916.6	716.3	567.4	412.7
72.5°	1305.4	1379.1	1404.7	1278.1	1179.9	1078.6	948.1	665.3	510.6	386.0	268.7
75°	1010.8	990.6	990.3	936.8	896.9	847.4	703.9	449.0	335.3	250.9	164.3
77.5°	908.7	818.7	731.5	667.3	635.2	618.6	461.7	270.6	197.8	144.3	94.5
80°	749.5	616.7	498.2	429.0	401.5	420.6	257.4	146.3	108.3	82.1	61.3
82.5°	516.8	429.0	326.1	270.1	231.8	242.5	131.7	74.8	50.1	45.9	38.0
85°	269.2	236.0	199.2	171.0	151.1	132.8	68.4	35.7	20.8	18.3	16.6
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°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	297.6	297.4	297.9	298.2	299.1	299.6	299.9	299.3	300.2	301.0	300.5
5°	305.5	307.5	307.8	308.6	308.6	310.3	310.3	310.3	310.0	310.3	309.7
7.5°	312.3	314.8	315.1	316.2	316.5	318.5	317.6	318.2	318.2	316.8	316.2
10°	313.1	315.7	317.1	318.5	320.4	323.0	323.0	324.4	324.4	323.2	323.0
12.5°	313.4	315.4	316.8	318.7	321.6	325.2	327.2	329.2	330.0	329.7	328.9
15°	319.3	319.3	319.6	321.3	323.2	327.7	330.6	332.8	334.2	333.7	332.3
17.5°	334.8	332.5	330.8	328.0	328.6	330.8	332.5	334.5	334.8	334.2	332.0
20°	352.8	350.0	345.8	341.3	339.0	337.3	336.2	336.2	335.3	332.5	328.9
22.5°	378.4	374.7	368.8	362.1	357.6	352.2	345.8	339.6	332.8	326.1	318.2
25°	413.8	408.8	402.6	392.2	382.6	371.4	358.1	344.3	328.3	314.2	302.7
27.5°	449.6	438.3	422.3	407.9	390.2	373.3	354.5	337.6	317.1	300.2	287.5
30°	479.1	457.7	434.7	411.9	388.5	365.7	343.2	323.0	300.5	283.3	270.9
32.5°	501.9	472.4	440.3	410.5	381.8	353.9	328.0	305.5	282.7	265.0	251.8
35°	523.0	481.9	441.1	404.3	368.8	339.8	310.6	286.1	261.9	243.4	229.0
37.5°	538.7	486.4	436.1	392.7	351.9	319.6	289.8	264.7	240.0	219.7	203.4
40°	548.9	483.6	425.1	376.1	332.0	297.9	267.5	241.7	217.7	195.5	175.8
42.5°	557.0	479.9	414.1	360.9	316.2	279.1	247.9	220.0	195.8	171.6	149.9
45°	569.1	482.8	409.3	350.3	302.1	263.0	228.7	199.7	174.4	150.8	130.0
47.5°	580.9	484.2	402.3	337.0	284.4	246.4	211.6	183.4	157.5	135.9	116.8
50°	591.6	483.3	391.3	320.2	267.3	229.8	196.1	168.0	142.4	122.4	104.4
52.5°	596.7	478.5	377.8	303.8	253.5	215.2	180.9	153.6	128.3	109.4	92.8
55°	596.1	466.2	360.1	288.4	238.3	199.7	166.0	139.0	116.2	98.7	84.4
57.5°	587.7	447.0	341.3	271.2	218.3	180.6	148.5	122.4	103.2	88.6	76.5
60°	570.0	422.6	316.5	246.2	193.3	157.0	126.9	104.4	88.9	77.6	69.8
62.5°	536.8	387.4	285.6	211.3	159.5	126.3	100.2	85.5	74.0	67.2	63.6
63°	526.9	377.8	272.3	202.8	151.6	119.3	94.5	79.3	70.9	65.0	61.6
65°	478.0	330.8	227.9	163.7	117.9	92.0	76.0	64.4	59.4	56.8	56.5
67.5°	387.1	260.2	161.2	112.3	80.2	66.4	58.2	53.5	51.2	50.6	51.2
70°	271.8	164.3	102.4	74.6	59.4	53.5	49.8	47.8	46.4	46.7	47.3
72.5°	173.3	98.5	70.3	56.5	50.1	47.0	45.3	44.7	44.5	44.2	44.2
75°	98.7	65.5	54.0	49.0	45.6	43.0	41.6	41.1	41.4	41.6	41.1
77.5°	65.3	54.0	48.1	44.7	41.6	38.8	38.0	37.7	38.3	38.8	38.8
80°	51.5	48.1	44.7	41.4	36.3	34.3	34.9	35.2	34.9	35.2	34.3
82.5°	36.3	35.7	36.6	35.2	30.1	28.4	27.9	28.1	27.6	27.6	27.0
85°	16.9	16.9	17.7	17.7	17.2	17.4	18.8	20.5	21.4	20.5	19.4
87.5°	0.0	0.0	0.0	0.0	0.0	2.5	5.1	7.3	7.9	9.8	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: P152918

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	299.6	300.2	299.9	299.6	300.2	299.6	299.9	299.6	299.6	299.3	299.3
5°	309.2	310.0	308.3	308.1	307.5	306.1	306.1	305.5	305.5	304.4	303.6
7.5°	315.4	315.7	314.2	314.0	312.6	311.2	310.0	308.9	308.6	307.8	306.1
10°	321.3	320.7	319.6	318.2	316.8	314.8	313.4	312.0	311.7	310.3	308.3
12.5°	326.3	326.1	323.8	322.4	320.2	318.2	316.5	314.8	314.0	312.3	309.5
15°	329.7	328.0	325.2	322.7	320.2	317.9	315.9	314.0	313.1	311.2	308.3
17.5°	328.3	325.2	321.6	318.5	315.1	312.3	310.6	308.6	307.2	306.1	302.1
20°	323.2	318.7	313.1	309.5	305.0	301.3	300.2	298.2	297.1	292.9	287.8
22.5°	310.0	303.6	296.5	291.2	286.1	282.5	279.6	277.7	274.9	272.3	264.5
25°	293.4	286.1	278.8	272.3	265.6	259.9	254.9	250.1	248.7	243.4	235.8
27.5°	277.4	269.2	261.9	254.3	245.6	238.6	229.8	223.1	218.6	213.0	205.9
30°	260.2	252.1	242.2	232.1	222.0	214.4	204.5	196.4	190.7	184.8	178.4
32.5°	238.6	228.7	216.9	205.7	196.4	187.4	177.5	169.6	164.0	158.7	152.5
35°	213.8	200.9	188.2	175.8	166.0	158.4	149.7	143.8	139.8	135.0	128.6
37.5°	185.4	170.8	157.3	147.7	139.0	131.7	125.5	121.8	117.6	115.1	111.1
40°	156.7	142.4	129.1	120.4	113.1	108.9	105.5	104.7	101.8	98.5	95.9
42.5°	131.4	117.6	104.7	97.6	92.8	91.7	90.0	90.0	88.6	86.1	84.4
45°	114.2	99.9	88.6	83.6	81.0	80.7	79.9	79.9	79.6	78.5	76.5
47.5°	101.8	88.9	80.2	77.1	76.5	76.0	75.1	74.8	74.6	73.7	72.6
50°	90.6	79.6	74.0	72.6	72.9	72.0	71.2	70.3	70.1	69.2	68.1
52.5°	80.2	72.3	68.6	67.8	67.8	67.8	67.2	67.2	66.7	66.4	65.3
55°	74.3	68.4	66.4	66.1	65.8	65.5	65.0	65.0	64.4	64.1	62.7
57.5°	69.2	65.5	64.4	63.9	63.6	63.0	62.7	62.7	62.7	62.7	61.0
60°	65.3	63.6	63.3	62.7	62.5	61.3	60.8	60.5	60.8	61.0	59.4
62.5°	61.0	60.8	60.5	59.9	59.6	58.5	57.7	57.1	57.7	58.2	58.0
63°	59.9	59.6	59.6	59.4	59.1	57.7	56.8	56.3	56.8	57.4	57.4
65°	56.0	56.3	56.3	56.0	55.7	54.9	53.7	53.2	53.5	54.3	54.6
67.5°	51.8	52.0	51.8	52.0	51.8	51.2	50.4	49.8	49.5	49.8	50.1
70°	47.8	48.4	48.1	47.8	47.5	47.5	47.0	46.1	45.9	45.6	45.6
72.5°	44.5	44.5	43.9	43.9	43.6	43.6	43.0	42.2	41.9	41.9	41.4
75°	40.8	40.8	39.9	39.9	39.4	39.7	39.1	38.3	38.0	38.0	37.7
77.5°	38.5	37.7	36.3	36.0	35.7	35.7	35.4	34.6	34.3	34.3	34.0
80°	34.0	32.4	30.9	30.7	30.9	31.5	31.5	30.9	30.9	30.9	30.9
82.5°	26.4	25.9	25.0	24.5	24.5	25.3	26.4	27.0	27.6	28.1	28.1
85°	19.4	19.7	19.4	18.6	18.3	19.1	20.3	21.4	21.7	22.8	22.5
87.5°	10.4	10.7	9.8	9.6	10.4	11.0	12.1	12.4	12.9	13.2	13.5
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: P152918

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	299.1	298.8	299.1	298.5	298.5	297.9	297.4	297.1	296.5	296.2	295.7
5°	304.1	303.3	302.4	302.1	301.0	299.9	299.1	297.6	296.5	294.6	294.0
7.5°	307.5	305.5	304.4	304.1	302.4	301.6	299.6	297.9	296.2	293.7	292.9
10°	308.9	306.9	305.0	304.1	302.1	300.7	298.8	296.2	294.8	292.3	291.7
12.5°	310.6	306.9	303.8	301.6	298.8	295.7	293.7	292.3	290.3	288.9	288.4
15°	307.5	302.7	297.9	293.7	289.2	285.8	283.9	281.6	279.4	278.5	278.5
17.5°	299.1	292.9	284.7	279.4	274.6	270.9	268.4	266.1	265.9	264.7	265.3
20°	281.6	273.5	265.6	261.6	258.8	256.6	254.0	252.9	252.1	250.4	249.8
22.5°	257.4	250.7	245.0	242.2	240.0	237.2	234.9	231.5	230.7	229.0	228.2
25°	230.7	225.3	220.6	218.6	217.2	213.2	211.8	207.3	204.2	202.3	203.4
27.5°	204.0	200.0	195.5	193.0	192.1	188.5	187.1	182.0	179.5	179.5	176.7
30°	176.4	172.7	169.9	167.1	166.5	162.0	158.4	156.4	153.6	152.5	150.5
32.5°	150.5	146.9	144.6	143.2	140.9	137.3	133.6	130.3	125.8	124.1	123.2
35°	126.6	123.8	121.0	119.8	116.8	112.8	108.3	105.5	100.2	98.2	97.3
37.5°	108.3	104.9	103.0	99.9	96.8	92.6	89.2	86.6	84.7	83.8	83.8
40°	93.7	91.2	88.9	86.4	83.8	81.6	79.9	79.3	79.1	79.1	79.6
42.5°	82.7	80.5	79.3	77.9	77.1	77.1	76.8	77.1	77.4	77.6	78.5
45°	75.4	74.0	73.4	73.1	73.7	74.3	74.6	75.1	76.2	76.8	77.1
47.5°	71.5	70.3	70.1	70.3	71.2	72.3	73.4	74.3	75.1	75.4	75.7
50°	67.5	66.1	65.5	66.1	67.2	68.9	69.8	71.2	71.7	72.3	71.7
52.5°	64.1	63.0	62.7	62.7	63.9	65.0	66.1	67.2	67.5	67.5	67.2
55°	61.3	60.5	59.6	60.2	61.0	62.2	63.9	64.7	65.3	65.5	65.5
57.5°	59.1	58.2	57.4	58.0	58.8	59.9	61.6	62.5	63.0	63.9	64.1
60°	57.4	56.3	55.4	56.3	57.1	58.8	60.2	61.0	62.5	62.7	62.7
62.5°	55.7	54.6	53.2	54.0	54.0	54.9	56.3	57.4	58.8	59.4	59.4
63°	55.4	54.3	52.9	53.5	53.5	54.0	55.1	56.3	58.0	58.5	58.2
65°	53.2	52.9	51.5	51.5	50.9	51.5	52.3	53.5	54.3	55.1	55.1
67.5°	49.5	49.2	49.0	49.0	49.0	49.5	50.1	50.9	51.8	52.3	52.0
70°	45.3	45.3	45.3	45.6	45.6	46.1	46.4	46.1	47.0	47.5	47.3
72.5°	41.6	41.4	41.1	41.6	41.4	41.4	41.9	41.6	42.5	42.5	42.8
75°	37.7	37.4	37.4	37.7	37.1	36.6	36.9	36.9	37.1	37.1	37.7
77.5°	34.3	34.3	34.3	34.0	33.5	33.2	32.9	32.9	32.9	32.9	33.2
80°	31.2	31.2	31.2	30.9	30.4	29.8	29.3	29.0	28.7	27.3	27.3
82.5°	28.1	28.1	28.1	28.1	27.9	27.3	26.4	24.2	23.1	21.9	22.2
85°	22.2	22.8	23.4	24.2	23.9	23.9	22.2	19.4	17.7	16.6	16.9
87.5°	14.3	12.7	12.7	12.4	11.8	11.3	11.3	9.6	7.9	7.0	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: P152918

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

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	295.7	295.1	294.6	294.6	293.7	293.7	293.1	294.3	293.1	292.3	292.3
5°	293.4	292.9	291.2	290.9	289.8	289.8	289.8	289.2	289.2	288.6	288.4
7.5°	292.0	290.6	289.2	288.4	288.4	287.8	288.9	288.4	288.6	288.6	288.9
10°	290.9	289.8	289.2	288.9	288.9	289.8	290.6	290.9	290.6	290.9	290.9
12.5°	288.1	288.6	288.9	290.1	291.5	293.1	295.1	295.4	296.0	296.0	296.5
15°	279.1	280.5	282.2	285.0	288.6	292.3	296.0	299.1	301.9	303.3	304.4
17.5°	266.4	267.8	270.9	274.0	278.8	284.1	290.3	295.7	301.6	306.9	312.3
20°	249.3	251.5	252.4	258.0	263.6	270.9	278.2	286.7	296.8	306.9	317.3
22.5°	227.0	229.6	233.5	238.0	243.9	252.9	261.6	274.9	288.4	302.7	319.0
25°	202.3	205.1	208.5	213.2	219.2	228.7	241.4	255.4	272.0	290.9	311.2
27.5°	176.7	179.5	182.3	185.7	192.4	202.6	217.5	232.1	250.4	270.9	294.6
30°	151.1	151.4	153.0	157.3	164.3	177.5	188.5	206.8	225.9	247.6	274.9
32.5°	122.9	122.7	124.6	128.3	135.0	147.7	161.2	178.9	197.8	225.1	253.2
35°	97.9	97.9	101.6	105.2	112.8	121.8	133.6	149.4	171.6	196.9	225.1
37.5°	84.7	86.6	88.9	92.6	98.5	105.5	115.9	129.7	147.1	171.3	197.2
40°	80.5	81.6	83.6	86.9	92.0	98.5	106.1	116.5	130.0	149.4	173.0
42.5°	78.8	79.1	80.2	82.7	87.2	93.7	101.6	110.8	121.0	134.8	155.3
45°	77.1	76.8	77.4	79.3	83.0	90.3	99.3	109.4	119.6	131.1	148.0
47.5°	75.7	75.7	75.7	76.5	79.9	87.2	97.6	109.4	121.5	134.5	151.1
50°	71.7	71.5	71.5	72.0	74.6	82.4	94.8	109.2	124.9	141.8	160.6
52.5°	67.2	67.2	67.5	67.8	70.1	77.9	91.7	109.2	128.8	151.4	175.0
55°	65.8	66.1	66.4	66.1	67.8	74.6	88.3	107.5	130.5	159.0	190.5
57.5°	64.7	65.3	65.3	65.0	66.1	71.7	85.0	104.1	129.1	161.8	201.4
60°	63.0	63.0	63.0	62.2	62.7	67.8	79.9	98.7	124.6	159.2	203.1
62.5°	59.4	59.4	58.8	58.5	58.2	62.2	73.1	90.9	116.5	152.5	198.9
63°	58.5	58.2	58.2	57.4	57.4	61.0	71.7	89.7	114.2	150.8	197.2
65°	55.4	55.4	55.4	54.9	54.6	57.4	66.1	81.9	105.5	142.9	188.8
67.5°	52.0	52.3	51.8	51.5	51.2	52.9	59.6	72.0	92.0	126.3	173.0
70°	47.3	47.5	47.5	47.3	47.0	48.1	52.3	61.9	76.2	105.2	147.4
72.5°	43.0	43.6	43.6	44.2	44.2	45.0	46.7	51.5	61.0	82.1	115.9
75°	38.5	38.8	39.4	39.9	39.4	39.1	39.4	43.0	47.8	60.8	82.7
77.5°	34.6	35.4	35.4	35.2	34.3	33.8	33.8	35.4	39.4	46.1	59.1
80°	28.7	30.1	30.4	29.5	28.7	28.7	29.3	30.4	32.9	38.0	44.7
82.5°	23.1	24.5	24.8	25.0	24.8	25.6	25.6	25.9	27.3	31.2	36.6
85°	17.7	18.8	19.7	20.0	20.3	20.5	20.3	18.8	19.7	22.2	24.8
87.5°	7.9	8.2	7.6	7.9	7.6	7.9	8.2	6.8	6.5	8.7	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: P152918

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

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	295.1	295.1	295.1	295.1	295.1	295.1	295.1
2.5°	292.0	292.0	292.3	291.7	291.7	292.0	291.2
5°	287.5	288.6	288.6	288.6	288.1	288.6	288.9
7.5°	288.6	289.5	290.1	290.1	289.8	290.9	291.7
10°	290.1	291.5	292.0	292.0	292.0	293.4	295.4
12.5°	295.4	296.5	297.4	297.4	297.9	299.6	301.9
15°	305.2	306.7	306.7	306.4	308.1	310.0	312.6
17.5°	316.2	320.2	322.1	321.8	323.2	325.8	328.6
20°	326.6	337.6	342.4	345.8	347.2	350.5	351.4
22.5°	335.3	353.6	366.9	378.1	383.5	386.8	390.8
25°	332.3	357.0	380.6	403.7	420.0	436.6	443.7
27.5°	319.6	350.5	381.5	415.2	444.8	474.3	495.7
30°	304.1	341.3	382.9	430.7	477.4	522.7	558.7
32.5°	286.4	332.5	386.0	445.1	506.4	565.8	617.8
35°	264.2	315.9	378.4	446.5	518.8	590.8	658.3
37.5°	236.0	293.4	360.7	436.3	519.3	601.8	682.5
40°	207.9	265.0	338.2	421.7	512.0	604.3	697.7
42.5°	188.2	239.7	315.4	403.1	500.2	600.4	705.0
45°	174.7	221.4	295.1	386.3	487.5	593.3	706.1
47.5°	173.6	213.5	281.9	373.9	477.4	587.1	706.1
50°	183.1	217.7	277.4	367.7	473.2	585.2	706.7
52.5°	201.2	234.6	285.6	372.5	476.6	587.7	709.2
55°	222.8	260.2	307.5	389.1	490.9	596.1	714.9
57.5°	242.5	289.8	344.9	421.2	517.1	617.5	730.6
60°	254.0	315.1	384.6	466.2	561.8	660.0	762.1
62.5°	255.4	329.2	419.7	515.1	616.1	708.7	812.5
63°	254.3	330.3	424.2	524.4	627.6	720.8	829.9
65°	248.1	330.6	436.9	557.0	667.6	771.7	878.6
67.5°	232.4	321.6	441.4	582.6	718.0	838.6	969.5
70°	205.1	296.0	428.2	583.2	737.4	876.1	1026.9
72.5°	164.9	247.3	371.1	530.6	686.2	839.2	1011.9
75°	120.7	181.7	280.5	411.0	559.8	698.5	866.8
77.5°	80.2	117.6	189.1	292.9	401.5	502.7	624.0
80°	55.1	72.9	110.6	176.1	245.6	294.8	397.5
82.5°	40.5	48.1	61.3	90.0	118.2	145.4	207.6
85°	25.3	27.6	30.7	44.5	63.6	85.8	129.4
87.5°	6.8	7.0	6.5	8.7	13.8	13.2	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)