

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: P148930

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148930
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
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3123.9 lumens
Efficiency: N/A
Efficacy: 126.5 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

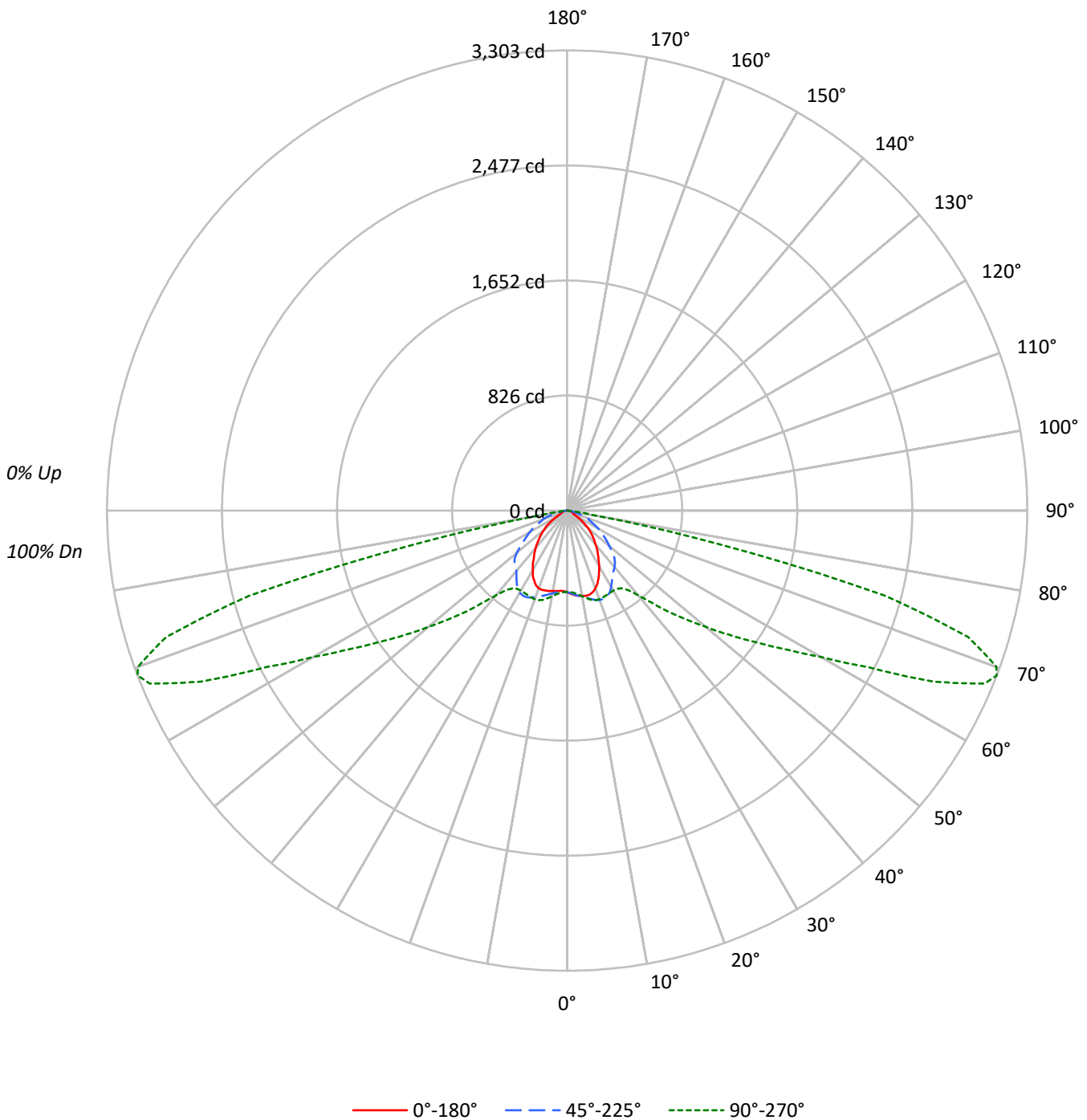
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P148930

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

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°	37060	37060	37060
5°	38707	37735	36756
10°	40036	40164	37741
15°	40950	43460	38937
20°	39957	45617	40044
25°	37286	46738	38962
30°	33559	48525	36044
35°	29813	52584	32232
40°	26284	65438	29037
45°	22986	91693	25368
50°	19336	127829	21769
55°	13942	181404	17110
60°	8320	265641	10219
65°	7491	435230	7491
70°	7646	606976	7775
75°	8146	577665	8562
80°	8277	74384	9006
85°	5303	18671	7483



TEST NUMBER: P148930

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	1.8
10°-20°	181.1	5.8
20°-30°	293.4	9.4
30°-40°	365.7	11.7
40°-50°	457.0	14.6
50°-60°	564.3	18.1
60°-70°	701.1	22.4
70°-80°	465.5	14.9
80°-90°	38.4	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°	532.0	17.0
0°-40°	897.7	28.7
0°-60°	1918.9	61.4
0°-90°	3123.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3123.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	585	585	585	585	585	
5°	609	605	594	584	578	58
15°	625	657	663	630	594	175
25°	534	680	669	686	558	244
35°	386	568	680	632	417	242
45°	257	478	1024	534	283	198
55°	126	324	1643	379	155	113
65°	50	188	2905	239	50	50
75°	33	74	2361	96	35	35
85°	7	14	26	18	10	9
90°	0	0	0	0	0	



TEST NUMBER: P148930

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	598.7	600.7	598.7	598.7	597.0	595.3	594.3	592.0	590.7	590.0	590.0
5°	609.0	608.7	609.0	609.0	607.3	605.3	604.0	602.0	600.0	599.7	599.3
7.5°	616.7	616.3	617.3	619.3	618.3	616.7	616.7	614.7	613.3	613.3	612.7
10°	622.7	623.0	625.0	628.0	628.7	628.3	630.7	630.0	629.3	630.0	629.3
12.5°	626.7	627.0	629.7	635.3	639.0	641.3	647.3	647.7	648.0	648.0	648.0
15°	624.7	624.7	630.0	640.7	649.7	656.7	664.3	665.7	664.3	665.3	664.7
17.5°	613.0	613.7	622.3	638.7	657.0	672.3	680.7	678.3	676.0	676.0	675.0
20°	593.0	594.3	606.0	629.0	658.0	682.3	695.3	687.7	681.3	680.3	679.3
22.5°	568.3	567.3	581.3	610.3	650.3	686.7	704.3	695.0	683.7	681.3	679.7
25°	533.7	534.3	549.0	581.3	631.0	679.7	707.0	702.3	689.0	686.0	682.3
27.5°	495.7	497.3	513.0	546.0	601.0	662.3	704.0	709.7	699.3	696.0	692.7
30°	459.0	460.0	477.7	513.0	564.0	631.7	696.0	717.7	712.3	709.7	706.7
32.5°	420.0	423.3	438.7	478.7	534.7	598.0	683.7	726.0	728.0	726.3	724.7
35°	385.7	388.3	405.7	447.7	506.3	568.0	668.7	735.0	748.7	748.3	748.0
37.5°	354.7	355.3	373.7	416.3	478.3	547.0	653.0	749.7	774.0	777.3	781.3
40°	318.0	321.3	340.3	386.3	450.7	529.0	639.7	769.3	809.3	816.7	822.3
42.5°	288.7	288.7	305.7	351.3	418.0	508.3	635.0	794.0	851.3	861.3	871.3
45°	256.7	257.7	274.0	315.7	380.7	478.3	634.3	821.3	898.3	912.7	925.0
47.5°	226.3	227.0	244.3	284.7	342.0	437.0	626.0	851.7	947.7	968.3	982.0
50°	196.3	195.3	212.0	253.0	307.7	394.3	599.3	891.0	1009.0	1029.7	1045.3
52.5°	159.3	162.0	180.0	219.0	274.0	358.0	545.0	929.7	1072.3	1095.7	1117.0
55°	126.3	126.0	146.3	181.7	237.7	323.7	480.7	957.0	1134.0	1161.0	1184.7
57.5°	90.7	91.7	109.0	144.0	200.0	293.0	432.0	952.3	1181.7	1213.7	1243.7
60°	65.7	67.7	80.7	106.3	159.7	257.7	398.0	898.3	1214.3	1258.0	1294.3
62.5°	55.3	57.0	68.3	82.3	123.3	220.7	365.0	811.7	1256.7	1314.3	1367.0
65°	50.0	51.3	62.7	70.7	94.7	187.7	344.3	750.3	1312.3	1400.0	1472.0
67.5°	45.0	47.0	57.0	63.0	80.3	167.7	338.3	741.0	1323.0	1439.0	1541.3
69°	42.7	44.7	53.7	59.0	75.7	161.3	327.0	707.3	1253.3	1378.0	1492.7
70°	41.3	43.0	51.0	56.7	74.3	155.3	311.0	658.0	1179.3	1305.0	1428.3
72.5°	38.0	39.0	45.7	51.3	68.3	119.3	235.7	475.3	880.3	1004.7	1125.7
75°	33.3	34.3	40.3	46.0	53.0	74.0	143.0	282.0	540.3	624.0	745.3
77.5°	28.7	29.7	34.7	43.3	42.0	48.3	87.3	168.7	283.3	325.0	402.7
80°	22.7	24.0	29.0	41.7	35.0	38.3	64.0	124.7	172.3	189.7	210.0
82.5°	16.0	16.7	22.0	33.3	26.3	29.0	48.0	103.7	138.3	151.0	157.0
85°	7.3	7.7	13.0	19.7	15.7	14.0	25.7	66.3	91.7	95.3	100.7
87.5°	0.0	0.0	1.3	1.3	2.7	1.7	3.0	8.3	14.0	14.0	17.0
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: P148930

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

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	590.3	590.0	590.3	590.3	590.7	589.3	589.0	588.7	588.3	588.7	588.0
5°	599.3	599.0	599.0	599.3	599.0	598.0	597.7	597.7	596.7	596.3	596.3
7.5°	613.0	612.3	611.3	612.0	612.3	612.0	612.3	611.3	611.3	610.3	610.7
10°	630.0	629.3	629.0	629.7	630.0	629.7	630.0	628.7	628.3	628.0	627.3
12.5°	648.7	647.3	648.3	648.3	648.7	650.0	648.3	649.0	647.7	647.7	647.3
15°	665.0	664.7	665.3	665.3	665.0	666.0	665.7	666.0	664.3	663.7	665.3
17.5°	675.3	674.3	674.7	674.3	674.3	674.3	675.0	675.0	674.0	673.7	674.3
20°	678.0	676.3	676.0	675.7	675.0	675.0	675.3	674.7	674.0	673.3	674.0
22.5°	677.3	675.3	673.3	672.3	671.3	670.0	669.7	669.0	668.0	668.0	668.3
25°	679.7	676.0	673.0	671.0	668.3	666.7	665.3	663.7	662.0	661.0	661.3
27.5°	687.7	683.7	679.7	675.7	671.7	668.3	665.7	662.7	660.0	658.0	657.0
30°	702.7	697.3	692.7	688.0	683.0	678.3	674.0	669.3	664.3	661.3	658.7
32.5°	720.0	716.3	713.3	708.0	702.7	697.0	691.7	687.7	680.3	674.7	670.0
35°	746.3	745.0	743.3	739.3	733.3	730.3	726.0	719.7	711.0	706.0	699.0
37.5°	782.7	783.0	781.7	780.0	780.7	775.0	772.3	771.7	763.0	759.7	749.3
40°	827.3	832.3	836.7	836.7	840.0	840.3	839.7	845.3	839.0	840.3	829.3
42.5°	877.0	889.0	895.7	900.7	911.7	916.7	925.0	937.3	938.0	944.3	945.0
45°	935.7	949.0	961.7	974.7	989.3	1006.7	1024.0	1036.7	1056.7	1061.0	1075.3
47.5°	996.7	1016.0	1030.7	1047.3	1072.3	1094.7	1120.3	1146.3	1169.3	1185.7	1195.0
50°	1064.0	1083.7	1105.0	1123.7	1150.3	1181.7	1217.3	1253.0	1282.7	1311.7	1335.0
52.5°	1138.7	1160.3	1180.3	1204.7	1231.7	1269.0	1308.0	1357.0	1396.7	1436.3	1465.0
55°	1210.3	1234.7	1253.0	1284.0	1312.0	1350.3	1398.7	1456.7	1511.7	1559.7	1598.7
57.5°	1272.7	1296.7	1322.3	1349.0	1383.0	1421.3	1480.7	1546.7	1609.3	1672.3	1730.0
60°	1331.0	1363.3	1391.3	1426.7	1460.7	1505.0	1575.7	1657.3	1743.0	1821.3	1879.0
62.5°	1419.0	1460.3	1493.3	1537.0	1584.3	1636.7	1714.7	1804.7	1916.3	2017.3	2107.0
65°	1542.0	1605.3	1658.7	1712.3	1770.0	1842.0	1926.3	2040.7	2164.0	2313.3	2431.7
67.5°	1629.7	1709.0	1778.0	1845.3	1911.7	1991.3	2095.7	2229.7	2389.3	2546.3	2696.7
69°	1594.3	1678.3	1755.0	1822.0	1892.0	1971.7	2073.3	2220.3	2383.0	2555.7	2704.7
70°	1520.0	1610.7	1692.7	1756.7	1828.3	1907.3	2019.7	2160.0	2326.0	2504.7	2650.7
72.5°	1222.3	1318.0	1399.0	1470.0	1545.0	1637.7	1737.7	1872.3	2056.3	2231.3	2361.3
75°	842.0	931.3	1023.0	1076.0	1162.0	1228.0	1323.0	1461.0	1614.7	1743.3	1863.7
77.5°	476.3	524.3	593.7	615.3	677.0	721.0	771.3	856.3	936.3	1011.0	1032.7
80°	216.7	202.3	209.3	198.7	210.3	203.0	194.7	199.3	198.3	213.3	199.3
82.5°	156.0	134.7	112.0	96.7	85.0	72.0	61.3	55.0	54.3	57.0	56.0
85°	99.7	91.0	71.3	57.3	44.0	34.0	28.3	25.7	25.7	27.3	27.0
87.5°	17.3	15.0	9.3	8.0	7.0	4.7	3.0	3.0	2.7	3.3	4.3
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: P148930

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

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	588.0	587.7	587.0	586.7	586.7	586.0	585.7	586.3	586.7	587.0	586.0
5°	596.3	595.3	595.0	595.3	593.7	594.0	593.7	594.0	594.0	594.0	593.3
7.5°	609.7	608.7	609.3	608.7	607.7	607.3	607.3	606.3	605.0	604.7	605.0
10°	628.0	626.7	627.0	627.3	626.3	625.7	624.7	623.3	623.3	623.0	622.3
12.5°	647.7	647.0	647.0	647.3	647.0	645.7	644.3	643.7	643.3	643.3	643.3
15°	664.7	664.3	664.7	664.3	664.3	663.7	663.0	662.0	661.7	662.0	662.3
17.5°	674.3	673.3	674.3	674.7	674.3	674.3	674.3	673.7	673.3	673.3	673.7
20°	675.0	674.3	675.0	676.0	676.0	676.3	677.0	677.3	677.0	677.7	678.0
22.5°	668.3	668.3	669.3	670.3	672.0	672.7	674.0	674.7	675.3	676.3	677.0
25°	661.7	661.3	662.3	664.3	665.7	667.3	669.0	670.3	671.7	673.0	674.3
27.5°	657.0	656.7	657.3	659.0	660.7	662.7	665.3	667.3	669.0	670.7	671.7
30°	657.3	656.0	655.7	657.0	658.7	661.0	663.7	666.0	668.3	669.7	670.7
32.5°	667.0	663.7	662.3	662.0	662.7	664.3	666.3	668.7	670.3	671.7	672.0
35°	692.0	685.7	684.3	680.0	680.7	680.3	680.3	681.7	683.0	683.0	680.7
37.5°	742.7	733.7	727.3	723.0	718.7	718.3	717.7	717.0	713.7	711.7	711.3
40°	821.7	818.0	806.0	802.7	795.3	790.3	791.7	789.0	781.0	778.0	776.7
42.5°	937.0	939.0	932.3	916.7	910.3	900.7	892.7	891.3	884.0	878.0	873.3
45°	1072.3	1076.0	1071.0	1059.7	1048.3	1033.7	1024.0	1005.3	998.0	988.7	982.3
47.5°	1211.3	1221.3	1213.3	1203.3	1197.0	1174.0	1154.0	1132.3	1121.3	1108.0	1102.0
50°	1349.3	1367.0	1362.3	1353.0	1346.0	1317.0	1297.7	1267.7	1261.3	1248.0	1240.7
52.5°	1487.3	1504.7	1515.0	1506.3	1501.3	1478.0	1464.7	1440.7	1422.7	1414.3	1414.0
55°	1626.7	1654.7	1671.0	1668.0	1659.7	1656.7	1643.3	1641.0	1627.0	1618.0	1606.0
57.5°	1763.0	1792.7	1821.0	1837.7	1844.7	1842.3	1848.7	1848.0	1850.0	1849.0	1829.3
60°	1936.3	1983.3	2024.7	2051.0	2076.0	2093.3	2097.7	2123.3	2116.0	2132.0	2101.3
62.5°	2181.0	2242.0	2304.7	2332.3	2363.0	2419.3	2432.7	2463.0	2467.7	2471.7	2455.3
65°	2522.0	2602.0	2696.7	2739.0	2787.0	2859.3	2905.0	2937.3	2936.3	2914.3	2893.3
67.5°	2813.0	2907.7	2994.7	3068.3	3140.0	3196.3	3244.3	3288.0	3290.3	3276.7	3240.7
69°	2838.0	2937.0	3031.7	3120.3	3191.3	3254.0	3302.7	3336.7	3344.0	3332.0	3298.7
70°	2791.7	2891.7	2994.7	3079.7	3160.0	3226.3	3278.7	3311.3	3321.3	3309.0	3277.7
72.5°	2506.7	2603.7	2680.7	2780.7	2895.0	2936.7	3017.3	3044.0	3068.7	3052.3	3033.7
75°	1963.7	2055.0	2134.7	2186.7	2239.0	2342.0	2361.3	2411.3	2428.3	2412.3	2433.0
77.5°	1023.0	1084.7	1111.3	1069.7	1076.0	1157.3	1111.3	1165.3	1196.3	1205.3	1218.3
80°	195.7	205.7	213.3	210.7	213.3	219.3	204.0	195.7	206.7	204.3	204.3
82.5°	57.7	56.7	56.7	59.7	59.3	60.7	60.7	58.3	60.0	60.0	60.3
85°	26.3	25.0	24.7	25.0	24.7	24.7	25.7	25.7	27.7	26.0	26.3
87.5°	3.3	3.0	3.3	3.3	2.7	2.7	3.0	3.3	3.3	3.0	3.0
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: P148930

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

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	585.7	585.3	585.3	585.3	585.0	584.7	584.3	583.3	582.3	582.0	580.3
5°	592.0	592.3	591.7	591.0	591.0	591.0	590.0	587.3	585.3	584.3	582.0
7.5°	605.3	604.7	603.7	603.3	602.7	603.0	601.0	597.7	594.0	591.7	588.0
10°	623.0	622.3	621.7	621.0	620.0	620.0	617.7	612.7	607.0	603.0	596.3
12.5°	643.7	643.0	642.3	642.0	640.3	640.0	636.7	630.7	623.3	615.7	606.0
15°	662.7	661.7	661.3	660.3	659.3	659.0	656.0	648.0	639.0	630.3	617.7
17.5°	674.7	674.0	673.0	672.3	672.0	671.7	667.3	660.7	653.7	645.0	629.7
20°	678.7	679.0	678.3	677.7	676.7	676.0	672.0	665.7	664.3	659.7	644.0
22.5°	678.0	678.0	677.7	676.3	675.7	674.0	668.3	665.3	672.7	674.7	654.7
25°	675.3	675.0	674.0	673.0	671.0	668.7	660.0	661.7	682.3	686.0	657.0
27.5°	672.3	672.0	670.3	668.0	665.0	661.7	650.7	661.7	691.3	688.3	647.3
30°	670.7	669.3	667.0	663.7	659.7	656.0	644.0	670.3	697.7	680.3	620.7
32.5°	671.0	668.7	665.3	661.0	656.3	652.0	643.7	685.7	700.0	661.0	583.0
35°	679.0	675.3	671.0	666.7	662.0	658.0	658.7	707.0	699.7	632.0	546.7
37.5°	708.0	701.7	698.7	694.0	687.3	684.0	697.3	730.7	695.0	596.7	514.7
40°	772.0	766.7	762.3	750.3	752.7	750.0	762.7	763.0	689.0	567.0	488.0
42.5°	865.3	865.3	856.0	854.3	848.0	851.0	856.7	801.0	683.0	549.3	461.7
45°	975.3	983.7	980.0	979.0	984.0	990.0	964.0	846.0	683.3	534.0	431.0
47.5°	1106.0	1113.0	1116.7	1122.7	1129.0	1125.3	1071.7	893.3	689.3	512.0	391.7
50°	1245.0	1262.0	1267.3	1275.0	1280.7	1281.7	1173.7	942.0	695.7	471.7	349.0
52.5°	1417.3	1433.3	1439.0	1444.3	1440.0	1436.3	1273.7	999.7	690.7	423.7	312.7
55°	1620.0	1623.0	1622.0	1615.3	1611.7	1591.7	1366.3	1061.0	651.7	379.3	278.0
57.5°	1831.0	1832.3	1820.3	1797.0	1770.0	1751.0	1455.3	1111.7	569.0	343.7	243.7
60°	2102.7	2075.3	2055.0	2019.3	1975.3	1934.7	1550.7	1140.0	490.0	309.3	205.0
62.5°	2430.7	2376.0	2332.0	2296.0	2231.0	2159.3	1672.3	1143.7	442.0	276.7	161.0
65°	2855.3	2797.7	2722.7	2661.0	2590.7	2494.0	1868.7	1117.3	418.3	238.7	117.7
67.5°	3189.7	3131.3	3047.3	2978.3	2887.7	2775.0	2031.3	1071.3	412.7	204.3	92.7
69°	3248.0	3184.3	3108.7	3022.3	2926.0	2805.7	2037.7	1018.0	404.0	191.3	85.0
70°	3226.7	3160.3	3087.3	2995.7	2887.7	2764.0	1989.7	958.7	386.7	184.0	82.3
72.5°	2987.3	2886.3	2813.0	2734.7	2603.3	2478.0	1713.0	725.3	301.0	155.0	77.0
75°	2391.7	2305.3	2222.7	2183.7	2074.7	1968.3	1286.0	460.7	196.7	96.3	60.3
77.5°	1219.3	1203.7	1227.3	1209.7	1131.0	1131.0	793.7	244.7	115.7	58.0	46.0
80°	219.0	228.3	224.0	233.3	217.0	241.0	279.0	164.3	82.0	44.3	37.7
82.5°	61.3	62.0	61.3	61.7	63.7	67.0	145.0	141.3	63.3	33.3	29.3
85°	28.7	29.0	29.7	29.7	32.3	33.0	97.3	101.3	37.0	18.3	19.7
87.5°	3.3	4.3	4.3	4.0	4.7	4.7	18.0	20.3	5.0	3.7	6.0
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: P148930

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

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	585.3	585.3	585.3	585.3
2.5°	579.0	577.7	576.3	577.3
5°	581.0	579.0	577.3	578.3
7.5°	586.3	583.0	582.7	582.7
10°	593.0	588.3	587.0	587.0
12.5°	600.0	593.7	591.3	591.3
15°	607.3	598.3	595.0	594.0
17.5°	615.7	603.0	597.0	597.0
20°	623.7	603.7	594.7	594.3
22.5°	625.0	596.0	583.0	582.3
25°	615.0	578.0	561.0	557.7
27.5°	591.3	550.0	532.0	531.3
30°	555.7	513.3	495.0	493.0
32.5°	520.7	475.7	458.7	458.7
35°	485.3	441.3	419.3	417.0
37.5°	452.7	405.0	385.3	385.0
40°	422.7	373.3	354.3	351.3
42.5°	392.7	340.0	318.3	317.7
45°	357.0	303.7	285.0	283.3
47.5°	319.0	271.0	251.3	251.0
50°	284.7	240.7	221.0	221.0
52.5°	253.3	211.0	191.3	189.3
55°	218.0	177.3	157.3	155.0
57.5°	179.7	139.7	121.7	116.7
60°	139.0	101.7	83.3	80.7
62.5°	101.3	74.3	60.7	58.7
65°	76.3	63.3	52.0	50.0
67.5°	65.7	57.0	47.3	45.3
69°	61.0	54.0	45.3	43.3
70°	59.0	52.0	43.7	42.0
72.5°	54.3	47.7	40.0	39.3
75°	49.7	43.3	36.0	35.0
77.5°	48.0	37.7	31.0	30.3
80°	49.0	30.7	25.3	24.7
82.5°	40.0	24.7	19.7	18.7
85°	25.0	16.7	10.3	10.3
87.5°	6.3	5.3	3.0	3.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)