

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: P148933

Luminaire Tested: **TLM-F01-LED-E1-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148933
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-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

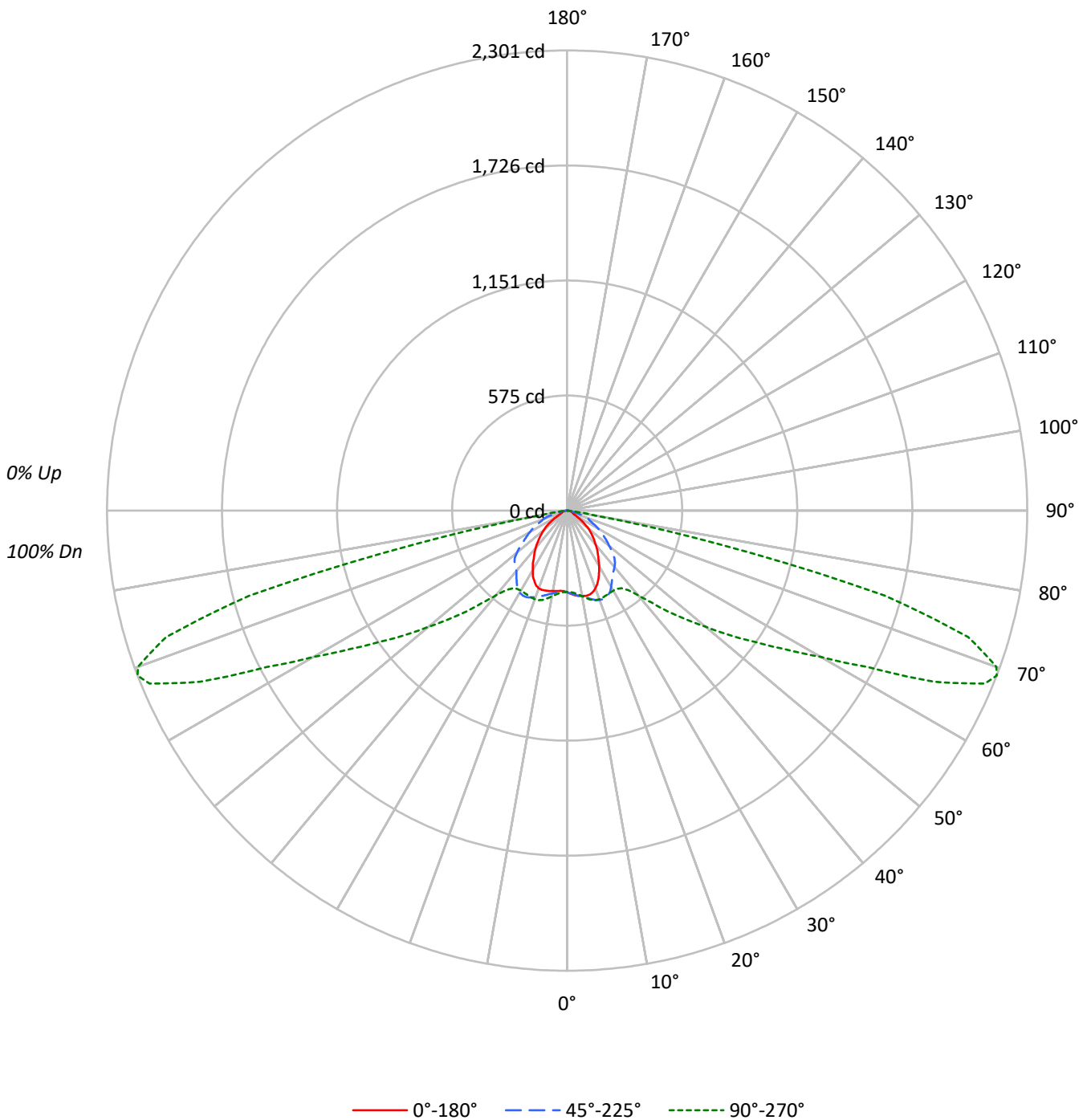
Lumens per Lamp: N/A
Luminaire Lumens: 2176.6 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

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-8030

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									70									30									10									0
RW	70	50	30	10	70	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°	25821	25821	25821
5°	26968	26288	25608
10°	27891	27981	26296
15°	28528	30278	27131
20°	27842	31783	27902
25°	25975	32563	27142
30°	23381	33807	25114
35°	20769	36638	22454
40°	18316	45592	20234
45°	16010	63890	17676
50°	13475	89057	15170
55°	9714	126397	11922
60°	5800	185076	7117
65°	5214	303238	5214
70°	5332	422904	5424
75°	5676	402480	5969
80°	5761	51814	6272
85°	3705	13004	5231



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.0	1.8
10°-20°	126.2	5.8
20°-30°	204.4	9.4
30°-40°	254.8	11.7
40°-50°	318.4	14.6
50°-60°	393.1	18.1
60°-70°	488.5	22.4
70°-80°	324.3	14.9
80°-90°	26.8	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°	370.6	17.0
0°-40°	625.4	28.7
0°-60°	1337.0	61.4
0°-90°	2176.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2176.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	408	408	408	408	408	
5°	424	422	414	407	403	41
15°	435	458	462	439	414	122
25°	372	474	466	478	388	170
35°	269	396	474	440	290	168
45°	179	333	714	372	197	138
55°	88	226	1145	264	108	78
65°	35	131	2024	166	35	35
75°	23	52	1645	67	24	24
85°	5	10	18	13	7	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°	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8
2.5°	417.1	418.5	417.1	417.1	416.0	414.8	414.1	412.5	411.5	411.1	411.1
5°	424.3	424.1	424.3	424.3	423.2	421.8	420.8	419.4	418.0	417.8	417.6
7.5°	429.7	429.4	430.1	431.5	430.8	429.7	429.7	428.3	427.3	427.3	426.9
10°	433.8	434.1	435.5	437.5	438.0	437.8	439.4	438.9	438.5	438.9	438.5
12.5°	436.6	436.9	438.7	442.7	445.2	446.8	451.0	451.3	451.5	451.5	451.5
15°	435.2	435.2	438.9	446.4	452.6	457.5	462.9	463.8	462.9	463.6	463.1
17.5°	427.1	427.6	433.6	445.0	457.8	468.4	474.2	472.6	471.0	471.0	470.3
20°	413.2	414.1	422.2	438.2	458.5	475.4	484.5	479.1	474.7	474.0	473.3
22.5°	396.0	395.3	405.0	425.2	453.1	478.4	490.7	484.2	476.3	474.7	473.5
25°	371.8	372.3	382.5	405.0	439.6	473.5	492.6	489.3	480.1	478.0	475.4
27.5°	345.3	346.5	357.4	380.4	418.7	461.5	490.5	494.4	487.3	484.9	482.6
30°	319.8	320.5	332.8	357.4	393.0	440.1	484.9	500.0	496.3	494.4	492.4
32.5°	292.6	295.0	305.6	333.5	372.5	416.6	476.3	505.8	507.2	506.1	504.9
35°	268.7	270.6	282.6	311.9	352.8	395.7	465.9	512.1	521.6	521.4	521.2
37.5°	247.1	247.6	260.3	290.1	333.3	381.1	455.0	522.3	539.3	541.6	544.4
40°	221.6	223.9	237.1	269.2	314.0	368.6	445.7	536.0	563.9	569.0	572.9
42.5°	201.1	201.1	213.0	244.8	291.2	354.2	442.4	553.2	593.2	600.1	607.1
45°	178.8	179.5	190.9	219.9	265.2	333.3	442.0	572.3	625.9	635.9	644.5
47.5°	157.7	158.2	170.2	198.3	238.3	304.5	436.2	593.4	660.3	674.7	684.2
50°	136.8	136.1	147.7	176.3	214.4	274.7	417.6	620.8	703.0	717.4	728.3
52.5°	111.0	112.9	125.4	152.6	190.9	249.4	379.7	647.7	747.1	763.4	778.3
55°	88.0	87.8	102.0	126.6	165.6	225.5	334.9	666.8	790.1	808.9	825.4
57.5°	63.2	63.9	75.9	100.3	139.3	204.1	301.0	663.5	823.3	845.6	866.5
60°	45.8	47.1	56.2	74.1	111.2	179.5	277.3	625.9	846.1	876.5	901.8
62.5°	38.6	39.7	47.6	57.4	85.9	153.7	254.3	565.5	875.6	915.7	952.4
65°	34.8	35.8	43.7	49.2	66.0	130.8	239.9	522.8	914.3	975.4	1025.6
67.5°	31.4	32.7	39.7	43.9	56.0	116.8	235.7	516.3	921.8	1002.6	1073.9
69°	29.7	31.1	37.4	41.1	52.7	112.4	227.8	492.8	873.2	960.1	1040.0
70°	28.8	30.0	35.5	39.5	51.8	108.2	216.7	458.5	821.7	909.2	995.2
72.5°	26.5	27.2	31.8	35.8	47.6	83.1	164.2	331.2	613.4	700.0	784.3
75°	23.2	23.9	28.1	32.0	36.9	51.6	99.6	196.5	376.5	434.8	519.3
77.5°	20.0	20.7	24.2	30.2	29.3	33.7	60.8	117.5	197.4	226.4	280.6
80°	15.8	16.7	20.2	29.0	24.4	26.7	44.6	86.9	120.1	132.1	146.3
82.5°	11.1	11.6	15.3	23.2	18.3	20.2	33.4	72.2	96.4	105.2	109.4
85°	5.1	5.3	9.1	13.7	10.9	9.8	17.9	46.2	63.9	66.4	70.1
87.5°	0.0	0.0	0.9	0.9	1.9	1.2	2.1	5.8	9.8	9.8	11.8
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°	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8
2.5°	411.3	411.1	411.3	411.3	411.5	410.6	410.4	410.1	409.9	410.1	409.7
5°	417.6	417.3	417.3	417.6	417.3	416.6	416.4	416.4	415.7	415.5	415.5
7.5°	427.1	426.6	425.9	426.4	426.6	426.4	426.6	425.9	425.9	425.2	425.5
10°	438.9	438.5	438.2	438.7	438.9	438.7	438.9	438.0	437.8	437.5	437.1
12.5°	451.9	451.0	451.7	451.7	451.9	452.9	451.7	452.2	451.3	451.3	451.0
15°	463.3	463.1	463.6	463.6	463.3	464.0	463.8	464.0	462.9	462.4	463.6
17.5°	470.5	469.8	470.1	469.8	469.8	469.8	470.3	470.3	469.6	469.4	469.8
20°	472.4	471.2	471.0	470.8	470.3	470.3	470.5	470.1	469.6	469.1	469.6
22.5°	471.9	470.5	469.1	468.4	467.7	466.8	466.6	466.1	465.4	465.4	465.7
25°	473.5	471.0	468.9	467.5	465.7	464.5	463.6	462.4	461.2	460.5	460.8
27.5°	479.1	476.3	473.5	470.8	468.0	465.7	463.8	461.7	459.8	458.5	457.8
30°	489.6	485.9	482.6	479.4	475.9	472.6	469.6	466.3	462.9	460.8	458.9
32.5°	501.6	499.1	497.0	493.3	489.6	485.6	481.9	479.1	474.0	470.1	466.8
35°	520.0	519.1	517.9	515.1	510.9	508.8	505.8	501.4	495.4	491.9	487.0
37.5°	545.3	545.5	544.6	543.5	543.9	540.0	538.1	537.6	531.6	529.3	522.1
40°	576.4	579.9	582.9	582.9	585.3	585.5	585.0	589.0	584.6	585.5	577.8
42.5°	611.0	619.4	624.0	627.5	635.2	638.7	644.5	653.1	653.5	658.0	658.4
45°	651.9	661.2	670.0	679.1	689.3	701.4	713.5	722.3	736.2	739.2	749.2
47.5°	694.4	707.9	718.1	729.7	747.1	762.7	780.6	798.7	814.7	826.1	832.6
50°	741.3	755.0	769.9	782.9	801.5	823.3	848.2	873.0	893.7	913.9	930.1
52.5°	793.3	808.4	822.4	839.3	858.1	884.2	911.3	945.5	973.1	1000.7	1020.7
55°	843.3	860.2	873.0	894.6	914.1	940.8	974.5	1014.9	1053.2	1086.7	1113.8
57.5°	886.7	903.4	921.3	939.9	963.6	990.3	1031.6	1077.6	1121.3	1165.2	1205.4
60°	927.4	949.9	969.4	994.0	1017.7	1048.6	1097.8	1154.7	1214.4	1269.0	1309.2
62.5°	988.7	1017.5	1040.5	1070.9	1103.9	1140.3	1194.7	1257.4	1335.2	1405.5	1468.0
65°	1074.4	1118.5	1155.7	1193.0	1233.2	1283.4	1342.1	1421.8	1507.7	1611.8	1694.2
67.5°	1135.4	1190.7	1238.8	1285.7	1331.9	1387.4	1460.1	1553.5	1664.7	1774.1	1878.9
69°	1110.8	1169.4	1222.8	1269.5	1318.2	1373.7	1444.6	1547.0	1660.3	1780.6	1884.4
70°	1059.0	1122.2	1179.3	1223.9	1273.9	1328.9	1407.2	1504.9	1620.6	1745.1	1846.8
72.5°	851.6	918.3	974.7	1024.2	1076.5	1141.0	1210.7	1304.5	1432.7	1554.6	1645.2
75°	586.7	648.9	712.8	749.7	809.6	855.6	921.8	1017.9	1125.0	1214.6	1298.5
77.5°	331.9	365.3	413.6	428.7	471.7	502.3	537.4	596.6	652.4	704.4	719.5
80°	151.0	141.0	145.8	138.4	146.5	141.4	135.6	138.9	138.2	148.6	138.9
82.5°	108.7	93.8	78.0	67.4	59.2	50.2	42.7	38.3	37.9	39.7	39.0
85°	69.4	63.4	49.7	39.9	30.7	23.7	19.7	17.9	17.9	19.0	18.8
87.5°	12.1	10.5	6.5	5.6	4.9	3.3	2.1	2.1	1.9	2.3	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



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CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8
2.5°	409.7	409.4	409.0	408.8	408.8	408.3	408.1	408.5	408.8	409.0	408.3
5°	415.5	414.8	414.6	414.8	413.6	413.9	413.6	413.9	413.9	413.9	413.4
7.5°	424.8	424.1	424.5	424.1	423.4	423.2	423.2	422.5	421.5	421.3	421.5
10°	437.5	436.6	436.9	437.1	436.4	435.9	435.2	434.3	434.3	434.1	433.6
12.5°	451.3	450.8	450.8	451.0	450.8	449.9	448.9	448.5	448.2	448.2	448.2
15°	463.1	462.9	463.1	462.9	462.9	462.4	461.9	461.2	461.0	461.2	461.5
17.5°	469.8	469.1	469.8	470.1	469.8	469.8	469.8	469.4	469.1	469.1	469.4
20°	470.3	469.8	470.3	471.0	471.0	471.2	471.7	471.9	471.7	472.2	472.4
22.5°	465.7	465.7	466.3	467.0	468.2	468.7	469.6	470.1	470.5	471.2	471.7
25°	461.0	460.8	461.5	462.9	463.8	465.0	466.1	467.0	468.0	468.9	469.8
27.5°	457.8	457.5	458.0	459.1	460.3	461.7	463.6	465.0	466.1	467.3	468.0
30°	458.0	457.1	456.8	457.8	458.9	460.5	462.4	464.0	465.7	466.6	467.3
32.5°	464.7	462.4	461.5	461.2	461.7	462.9	464.3	465.9	467.0	468.0	468.2
35°	482.1	477.7	476.8	473.8	474.2	474.0	474.0	474.9	475.9	475.9	474.2
37.5°	517.4	511.2	506.8	503.7	500.7	500.5	500.0	499.6	497.2	495.8	495.6
40°	572.5	569.9	561.6	559.2	554.1	550.7	551.6	549.7	544.2	542.1	541.1
42.5°	652.8	654.2	649.6	638.7	634.3	627.5	622.0	621.0	615.9	611.7	608.5
45°	747.1	749.7	746.2	738.3	730.4	720.2	713.5	700.5	695.3	688.8	684.4
47.5°	844.0	850.9	845.4	838.4	834.0	818.0	804.0	788.9	781.3	772.0	767.8
50°	940.1	952.4	949.2	942.7	937.8	917.6	904.1	883.2	878.8	869.5	864.4
52.5°	1036.3	1048.4	1055.6	1049.5	1046.0	1029.8	1020.5	1003.8	991.2	985.4	985.2
55°	1133.4	1152.9	1164.2	1162.2	1156.3	1154.3	1145.0	1143.3	1133.6	1127.3	1119.0
57.5°	1228.3	1249.0	1268.8	1280.4	1285.2	1283.6	1288.0	1287.6	1289.0	1288.3	1274.6
60°	1349.1	1381.9	1410.7	1429.0	1446.4	1458.5	1461.5	1479.4	1474.3	1485.4	1464.1
62.5°	1519.6	1562.1	1605.7	1625.0	1646.4	1685.6	1694.9	1716.1	1719.3	1722.1	1710.7
65°	1757.2	1812.9	1878.9	1908.4	1941.8	1992.2	2024.0	2046.5	2045.8	2030.5	2015.9
67.5°	1959.9	2025.9	2086.5	2137.8	2187.7	2227.0	2260.4	2290.9	2292.5	2283.0	2257.9
69°	1977.3	2046.3	2112.3	2174.0	2223.5	2267.2	2301.1	2324.8	2329.9	2321.5	2298.3
70°	1945.1	2014.7	2086.5	2145.7	2201.7	2247.9	2284.4	2307.1	2314.1	2305.5	2283.7
72.5°	1746.5	1814.1	1867.7	1937.4	2017.0	2046.1	2102.3	2120.9	2138.0	2126.7	2113.7
75°	1368.2	1431.8	1487.3	1523.5	1560.0	1631.8	1645.2	1680.1	1691.9	1680.8	1695.2
77.5°	712.8	755.7	774.3	745.3	749.7	806.4	774.3	811.9	833.5	839.8	848.9
80°	136.3	143.3	148.6	146.8	148.6	152.8	142.1	136.3	144.0	142.4	142.4
82.5°	40.2	39.5	39.5	41.6	41.3	42.3	42.3	40.6	41.8	41.8	42.0
85°	18.3	17.4	17.2	17.4	17.2	17.2	17.9	17.9	19.3	18.1	18.3
87.5°	2.3	2.1	2.3	2.3	1.9	1.9	2.1	2.3	2.3	2.1	2.1
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: P148933

CATALOG NUMBER: TLM-F01-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	105°	115°	125°	135°	145°
0°	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8	407.8
2.5°	408.1	407.8	407.8	407.8	407.6	407.4	407.1	406.4	405.7	405.5	404.3
5°	412.5	412.7	412.2	411.8	411.8	411.8	411.1	409.2	407.8	407.1	405.5
7.5°	421.8	421.3	420.6	420.4	419.9	420.1	418.7	416.4	413.9	412.2	409.7
10°	434.1	433.6	433.1	432.7	432.0	432.0	430.4	426.9	422.9	420.1	415.5
12.5°	448.5	448.0	447.5	447.3	446.1	445.9	443.6	439.4	434.3	429.0	422.2
15°	461.7	461.0	460.8	460.1	459.4	459.1	457.1	451.5	445.2	439.2	430.4
17.5°	470.1	469.6	468.9	468.4	468.2	468.0	465.0	460.3	455.4	449.4	438.7
20°	472.9	473.1	472.6	472.2	471.5	471.0	468.2	463.8	462.9	459.6	448.7
22.5°	472.4	472.4	472.2	471.2	470.8	469.6	465.7	463.6	468.7	470.1	456.1
25°	470.5	470.3	469.6	468.9	467.5	465.9	459.8	461.0	475.4	478.0	457.8
27.5°	468.4	468.2	467.0	465.4	463.3	461.0	453.3	461.0	481.7	479.6	451.0
30°	467.3	466.3	464.7	462.4	459.6	457.1	448.7	467.0	486.1	474.0	432.4
32.5°	467.5	465.9	463.6	460.5	457.3	454.3	448.5	477.7	487.7	460.5	406.2
35°	473.1	470.5	467.5	464.5	461.2	458.5	458.9	492.6	487.5	440.3	380.9
37.5°	493.3	488.9	486.8	483.5	478.9	476.6	485.9	509.1	484.2	415.7	358.6
40°	537.9	534.2	531.1	522.8	524.4	522.6	531.4	531.6	480.1	395.0	340.0
42.5°	602.9	602.9	596.4	595.2	590.8	592.9	596.9	558.1	475.9	382.7	321.7
45°	679.5	685.4	682.8	682.1	685.6	689.8	671.7	589.4	476.1	372.1	300.3
47.5°	770.6	775.5	778.0	782.2	786.6	784.1	746.7	622.4	480.3	356.7	272.9
50°	867.4	879.3	883.0	888.3	892.3	893.0	817.7	656.3	484.7	328.6	243.2
52.5°	987.5	998.7	1002.6	1006.3	1003.3	1000.7	887.4	696.5	481.2	295.2	217.8
55°	1128.7	1130.8	1130.1	1125.5	1122.9	1109.0	952.0	739.2	454.0	264.3	193.7
57.5°	1275.7	1276.7	1268.3	1252.0	1233.2	1220.0	1014.0	774.5	396.4	239.4	169.8
60°	1465.0	1446.0	1431.8	1406.9	1376.3	1348.0	1080.4	794.3	341.4	215.5	142.8
62.5°	1693.5	1655.4	1624.8	1599.7	1554.4	1504.5	1165.2	796.8	308.0	192.8	112.2
65°	1989.4	1949.2	1897.0	1854.0	1805.0	1737.7	1302.0	778.5	291.5	166.3	82.0
67.5°	2222.4	2181.7	2123.2	2075.1	2011.9	1933.4	1415.3	746.4	287.5	142.4	64.6
69°	2263.0	2218.6	2165.9	2105.8	2038.6	1954.8	1419.7	709.3	281.5	133.3	59.2
70°	2248.1	2201.9	2151.1	2087.2	2011.9	1925.8	1386.3	667.9	269.4	128.2	57.4
72.5°	2081.4	2011.0	1959.9	1905.3	1813.8	1726.5	1193.5	505.4	209.7	108.0	53.6
75°	1666.4	1606.2	1548.6	1521.4	1445.5	1371.4	896.0	321.0	137.0	67.1	42.0
77.5°	849.6	838.6	855.1	842.8	788.0	788.0	553.0	170.5	80.6	40.4	32.0
80°	152.6	159.1	156.1	162.6	151.2	167.9	194.4	114.5	57.1	30.9	26.2
82.5°	42.7	43.2	42.7	43.0	44.4	46.7	101.0	98.5	44.1	23.2	20.4
85°	20.0	20.2	20.7	20.7	22.5	23.0	67.8	70.6	25.8	12.8	13.7
87.5°	2.3	3.0	3.0	2.8	3.3	3.3	12.5	14.2	3.5	2.6	4.2
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: P148933

CATALOG NUMBER: TLM-F01-LED-E1-RW-8030

CANDELA DISTRIBUTION (continued):

	155°	165°	175°	180°
0°	407.8	407.8	407.8	407.8
2.5°	403.4	402.5	401.6	402.2
5°	404.8	403.4	402.2	402.9
7.5°	408.5	406.2	406.0	406.0
10°	413.2	409.9	409.0	409.0
12.5°	418.0	413.6	412.0	412.0
15°	423.2	416.9	414.6	413.9
17.5°	429.0	420.1	416.0	416.0
20°	434.5	420.6	414.3	414.1
22.5°	435.5	415.3	406.2	405.7
25°	428.5	402.7	390.9	388.5
27.5°	412.0	383.2	370.7	370.2
30°	387.2	357.7	344.9	343.5
32.5°	362.8	331.4	319.6	319.6
35°	338.1	307.5	292.2	290.5
37.5°	315.4	282.2	268.5	268.2
40°	294.5	260.1	246.9	244.8
42.5°	273.6	236.9	221.8	221.3
45°	248.7	211.6	198.6	197.4
47.5°	222.3	188.8	175.1	174.9
50°	198.3	167.7	154.0	154.0
52.5°	176.5	147.0	133.3	131.9
55°	151.9	123.6	109.6	108.0
57.5°	125.2	97.3	84.8	81.3
60°	96.8	70.8	58.1	56.2
62.5°	70.6	51.8	42.3	40.9
65°	53.2	44.1	36.2	34.8
67.5°	45.8	39.7	33.0	31.6
69°	42.5	37.6	31.6	30.2
70°	41.1	36.2	30.4	29.3
72.5°	37.9	33.2	27.9	27.4
75°	34.6	30.2	25.1	24.4
77.5°	33.4	26.2	21.6	21.1
80°	34.1	21.4	17.7	17.2
82.5°	27.9	17.2	13.7	13.0
85°	17.4	11.6	7.2	7.2
87.5°	4.4	3.7	2.1	2.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)