

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: P152923

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P152923
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-F01-LED-E1-SLL-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

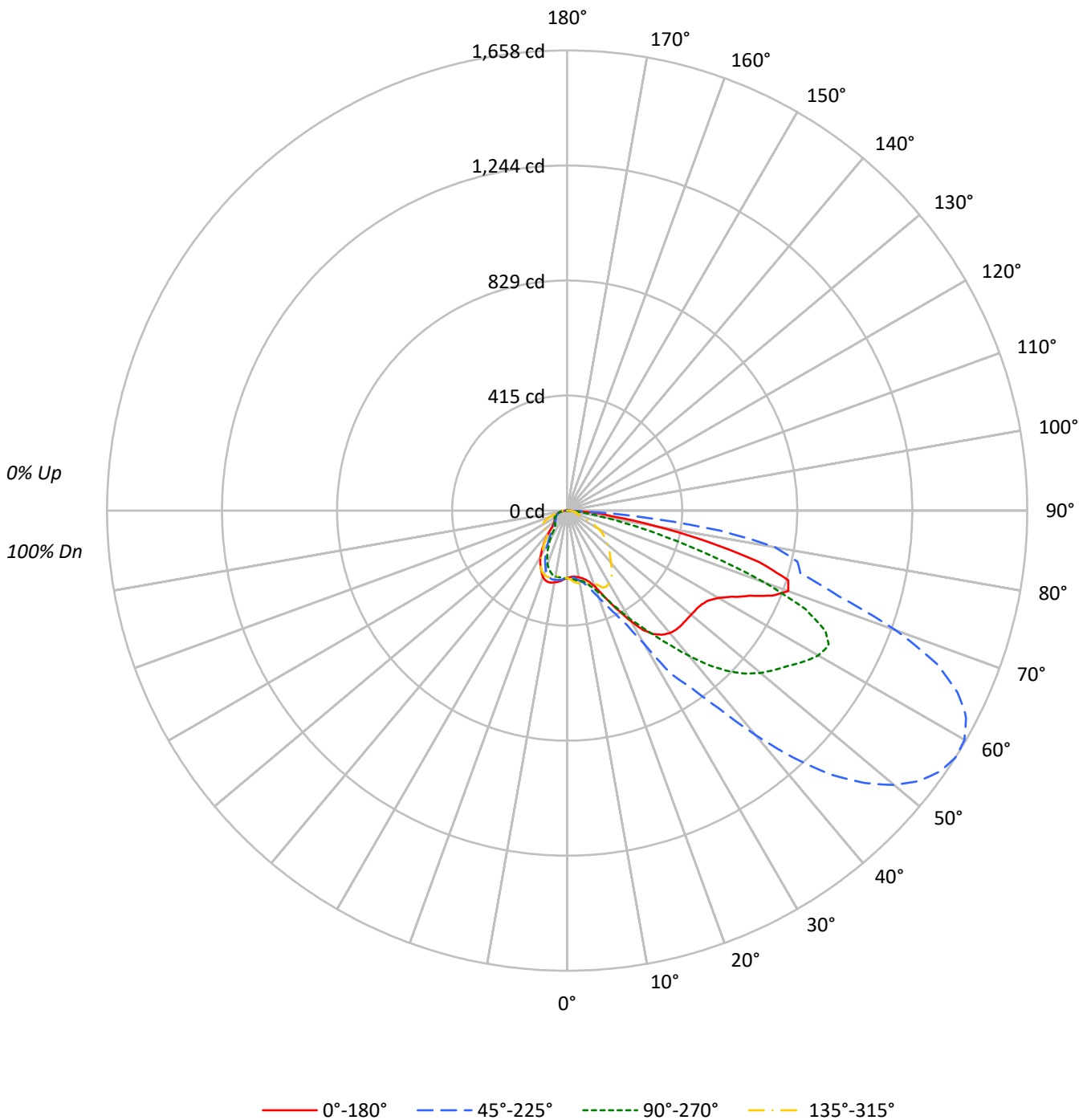
Lumens per Lamp: N/A
Luminaire Lumens: 1938.6 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.44
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 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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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	105	99	93	88	102	97	91	87	92	88	84	88	85	81	84	82	79	77					77			
2	93	82	73	66	90	80	72	65	76	70	64	73	67	62	70	65	61	58					58			
3	82	69	59	51	80	68	58	50	64	56	49	61	54	48	59	53	47	45					45			
4	74	59	48	40	71	58	48	40	55	46	39	52	45	39	50	44	38	35					35			
5	67	51	41	33	64	50	40	32	48	39	32	46	38	32	44	37	31	29					29			
6	61	45	35	27	59	44	34	27	42	33	27	40	32	26	39	32	26	24					24			
7	56	40	30	23	54	39	30	23	38	29	23	36	28	22	35	27	22	20					20			
8	52	36	26	20	50	35	26	20	34	25	19	33	25	19	31	24	19	17					17			
9	48	33	23	17	46	32	23	17	31	23	17	30	22	17	29	22	17	15					15			
10	45	30	21	15	43	29	21	15	28	20	15	27	20	15	26	20	15	13					13			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15424	15424	15424	15424
5°	15159	15826	16163	15426
10°	15681	16453	16890	15482
15°	16912	17784	17463	15070
20°	19547	20639	17216	13894
25°	25591	25276	15705	11730
30°	33719	32806	14008	9088
35°	42010	42459	11223	6215
40°	47609	56453	8216	5430
45°	52195	73122	6179	5695
50°	57467	89629	5900	5831
55°	65141	107553	6027	5972
60°	79678	132257	6560	6560
65°	108665	153896	6922	6817
70°	156932	140086	7313	7220
75°	175039	90688	8073	7608
80°	119671	44047	9225	8204
85°	77588	21431	11115	10098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.7	1.2
10°-20°	73.9	3.8
20°-30°	131.2	6.8
30°-40°	206.6	10.7
40°-50°	304.1	15.7
50°-60°	403.9	20.8
60°-70°	444.9	23.0
70°-80°	279.1	14.4
80°-90°	71.1	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°	228.8	11.8
0°-40°	435.4	22.5
0°-60°	1143.5	59.0
0°-90°	1938.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1938.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	244	244	244	244	244	
5°	238	249	254	243	238	23
15°	258	271	266	230	258	75
25°	366	362	225	168	366	173
35°	544	549	145	80	544	337
45°	583	817	69	64	583	451
55°	590	974	55	54	590	535
65°	725	1027	46	46	725	730
75°	716	371	33	31	716	700
85°	107	30	15	14	107	124
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°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6
2.5°	240.4	240.8	240.8	240.6	240.6	241.1	240.8	240.6	239.9	240.8	240.8
5°	238.5	239.0	239.0	239.4	239.9	240.4	240.4	240.8	240.6	241.5	242.2
7.5°	240.8	241.3	242.2	243.4	244.1	245.7	245.7	246.9	247.3	248.0	247.8
10°	243.9	245.0	247.1	249.0	250.4	252.2	253.6	255.2	255.2	255.9	256.4
12.5°	249.2	250.4	252.7	255.0	257.1	259.4	261.5	263.1	264.8	265.2	266.2
15°	258.0	259.4	262.9	266.2	268.7	271.7	274.5	277.8	280.8	281.5	281.9
17.5°	271.3	274.0	276.6	282.4	286.1	290.1	294.5	299.1	300.1	304.9	306.1
20°	290.1	293.6	295.9	303.1	309.4	314.5	321.0	326.3	328.4	333.0	337.7
22.5°	322.6	321.9	325.4	332.6	337.2	347.4	353.0	358.6	361.4	368.3	372.1
25°	366.3	370.0	377.6	378.3	382.7	394.6	401.8	407.4	407.6	409.7	413.6
27.5°	409.2	424.5	436.6	443.1	455.0	465.9	465.4	473.3	461.0	463.6	467.3
30°	461.2	486.8	509.5	524.9	537.0	549.7	556.0	560.4	555.1	552.7	548.3
32.5°	510.0	545.8	580.8	608.0	630.5	651.7	665.6	671.9	679.3	698.1	704.9
35°	543.5	594.1	637.7	677.0	714.6	748.3	772.7	786.6	781.3	778.7	777.3
37.5°	563.4	625.2	679.8	735.3	778.5	828.9	866.7	903.4	911.8	897.2	890.0
40°	576.0	649.1	719.3	784.8	840.7	905.8	952.7	1007.7	1049.5	1055.1	1037.9
42.5°	582.0	665.2	746.9	821.0	896.7	976.4	1035.8	1102.5	1164.9	1207.9	1197.2
45°	582.9	675.6	767.1	853.7	943.8	1038.4	1115.0	1188.9	1272.5	1346.1	1348.2
47.5°	582.9	683.5	781.0	877.4	986.1	1092.2	1175.9	1263.2	1365.6	1452.7	1479.4
50°	583.4	688.8	794.0	896.0	1018.4	1137.8	1232.3	1335.4	1443.2	1537.9	1589.5
52.5°	585.5	692.8	804.3	909.2	1039.3	1169.8	1276.2	1395.1	1502.4	1599.7	1666.4
55°	590.1	698.4	811.7	917.4	1053.2	1190.7	1308.0	1436.0	1540.7	1639.4	1732.5
57.5°	603.1	708.1	820.8	924.6	1060.9	1204.4	1330.3	1453.6	1555.3	1658.2	1767.6
60°	629.2	728.8	836.3	939.0	1073.7	1229.7	1341.0	1441.8	1544.7	1652.7	1775.5
62.5°	670.7	761.1	857.9	963.4	1110.1	1269.0	1332.9	1406.5	1502.6	1620.4	1747.4
63°	685.1	768.0	862.8	968.7	1120.1	1276.2	1329.4	1396.0	1494.0	1610.2	1737.4
65°	725.3	798.9	886.0	995.6	1161.2	1283.4	1302.2	1341.7	1434.6	1551.9	1678.4
67.5°	800.3	873.9	935.9	1041.2	1195.8	1255.1	1217.9	1222.8	1319.8	1441.3	1555.1
70°	847.7	935.5	967.8	1047.0	1189.6	1213.0	1108.7	1044.2	1122.0	1260.4	1360.0
72.5°	835.4	936.2	932.7	969.6	1064.1	1086.0	978.0	876.3	922.5	1025.8	1090.4
75°	715.5	836.1	810.5	803.1	836.3	850.7	769.7	754.1	812.4	869.8	870.7
77.5°	515.1	647.7	617.8	574.8	572.5	605.7	616.6	718.6	804.7	850.0	830.0
80°	328.2	471.9	440.8	365.8	364.6	407.8	503.7	642.4	733.7	759.0	707.0
82.5°	171.4	308.9	320.7	274.5	314.2	385.8	479.4	517.7	552.3	555.8	494.4
85°	106.8	190.0	223.4	230.6	283.8	342.1	341.4	327.9	312.6	267.5	242.0
87.5°	12.1	23.9	36.2	34.4	46.2	64.8	80.8	47.4	33.2	12.1	16.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6
2.5°	241.3	241.5	241.8	241.8	242.9	242.7	242.9	243.4	244.1	244.6	245.0
5°	243.2	243.2	244.1	244.8	246.2	247.1	247.6	249.0	250.6	250.1	251.5
7.5°	249.2	249.0	249.9	250.4	251.5	253.1	252.9	254.1	255.5	255.9	257.1
10°	257.3	256.6	256.6	256.2	256.4	255.9	255.9	255.9	256.9	256.6	257.6
12.5°	265.7	265.5	265.0	263.6	263.6	261.7	260.8	259.7	259.4	257.8	258.0
15°	282.9	282.9	281.9	279.2	276.8	275.2	272.9	271.3	268.9	265.9	264.3
17.5°	308.0	304.7	303.5	303.1	299.4	298.0	292.9	287.5	285.0	280.8	278.5
20°	338.6	337.9	333.3	330.9	326.3	319.8	313.3	306.3	302.2	297.0	294.3
22.5°	373.2	368.1	365.8	362.3	355.1	347.7	337.9	328.6	322.1	318.6	316.6
25°	413.6	408.5	406.2	401.6	392.7	384.8	372.8	361.8	356.0	350.2	347.0
27.5°	467.3	462.4	459.6	447.5	444.5	431.5	416.6	401.8	394.1	385.5	380.0
30°	547.4	547.6	533.2	518.6	503.5	481.0	465.4	448.7	436.2	423.8	411.5
32.5°	682.8	648.2	621.5	590.1	557.4	533.5	514.2	494.2	476.8	458.9	438.5
35°	765.5	748.8	714.2	656.8	623.8	594.8	573.4	549.3	527.9	496.3	465.2
37.5°	858.8	820.1	778.0	746.2	708.8	675.1	639.4	612.0	575.0	532.5	488.4
40°	995.2	939.7	889.0	846.3	798.0	762.7	722.7	683.0	634.0	572.5	511.9
42.5°	1137.5	1080.2	1013.3	957.8	900.9	859.5	810.1	754.3	682.3	606.2	532.1
45°	1286.9	1210.2	1130.1	1062.3	1003.1	951.7	890.4	816.6	728.8	636.4	550.9
47.5°	1434.1	1346.1	1250.6	1177.7	1100.6	1037.9	962.7	869.3	765.0	664.9	569.7
50°	1563.9	1479.2	1364.2	1271.5	1193.5	1116.2	1022.3	909.9	793.6	689.5	586.7
52.5°	1675.9	1603.0	1482.0	1364.9	1275.0	1188.2	1070.4	942.7	822.4	712.3	600.6
55°	1758.1	1709.6	1598.1	1452.9	1346.8	1243.2	1111.1	974.3	849.6	730.4	609.6
57.5°	1820.1	1793.2	1697.5	1535.8	1412.7	1296.6	1153.1	1012.1	876.5	746.0	613.8
60°	1854.0	1861.4	1772.7	1608.3	1471.0	1341.2	1195.1	1044.4	896.5	755.0	611.5
62.5°	1850.8	1896.3	1829.2	1652.9	1504.9	1367.7	1223.5	1059.5	893.7	740.6	590.4
63°	1844.5	1897.4	1835.4	1655.9	1507.0	1368.6	1224.2	1057.4	887.9	733.7	582.0
65°	1790.4	1870.7	1830.1	1642.2	1488.5	1351.2	1209.5	1027.2	847.0	696.3	539.0
67.5°	1645.5	1746.0	1734.4	1545.4	1400.4	1279.2	1134.7	929.9	746.0	604.3	456.8
70°	1406.0	1500.5	1502.6	1344.0	1223.0	1104.1	984.0	756.7	591.3	468.4	340.7
72.5°	1077.6	1138.5	1159.6	1055.1	974.0	890.4	782.7	549.3	421.5	318.6	221.8
75°	834.5	817.7	817.5	773.4	740.4	699.5	581.1	370.7	276.8	207.2	135.6
77.5°	750.2	675.8	603.8	550.9	524.4	510.7	381.1	223.4	163.3	119.1	78.0
80°	618.7	509.1	411.3	354.2	331.4	347.2	212.5	120.8	89.4	67.8	50.6
82.5°	426.6	354.2	269.2	223.0	191.4	200.2	108.7	61.8	41.3	37.9	31.4
85°	222.3	194.9	164.4	141.2	124.7	109.6	56.4	29.5	17.2	15.1	13.7
87.5°	0.0	0.2	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°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6
2.5°	245.7	245.5	245.9	246.2	246.9	247.3	247.6	247.1	247.8	248.5	248.0
5°	252.2	253.8	254.1	254.8	254.8	256.2	256.2	256.2	255.9	256.2	255.7
7.5°	257.8	259.9	260.1	261.0	261.3	262.9	262.2	262.7	262.7	261.5	261.0
10°	258.5	260.6	261.7	262.9	264.5	266.6	266.6	267.8	267.8	266.8	266.6
12.5°	258.7	260.3	261.5	263.1	265.5	268.5	270.1	271.7	272.4	272.2	271.5
15°	263.6	263.6	263.8	265.2	266.8	270.6	272.9	274.7	275.9	275.4	274.3
17.5°	276.4	274.5	273.1	270.8	271.3	273.1	274.5	276.1	276.4	275.9	274.0
20°	291.2	288.9	285.4	281.7	279.9	278.5	277.5	277.5	276.8	274.5	271.5
22.5°	312.4	309.4	304.5	298.9	295.2	290.8	285.4	280.3	274.7	269.2	262.7
25°	341.6	337.5	332.3	323.7	315.9	306.6	295.6	284.3	271.0	259.4	249.9
27.5°	371.1	361.8	348.6	336.8	322.1	308.2	292.6	278.7	261.7	247.8	237.4
30°	395.5	377.9	358.8	340.0	320.7	301.9	283.3	266.6	248.0	233.9	223.7
32.5°	414.3	389.9	363.5	338.8	315.2	292.2	270.8	252.2	233.4	218.8	207.9
35°	431.7	397.8	364.2	333.7	304.5	280.6	256.4	236.2	216.2	200.9	189.0
37.5°	444.7	401.6	360.0	324.2	290.5	263.8	239.2	218.5	198.1	181.4	167.9
40°	453.1	399.2	350.9	310.5	274.0	245.9	220.9	199.5	179.8	161.4	145.2
42.5°	459.8	396.2	341.9	298.0	261.0	230.4	204.6	181.6	161.6	141.7	123.8
45°	469.8	398.5	337.9	289.1	249.4	217.1	188.8	164.9	144.0	124.5	107.3
47.5°	479.6	399.7	332.1	278.2	234.8	203.4	174.6	151.4	130.1	112.2	96.4
50°	488.4	399.0	323.1	264.3	220.6	189.7	161.9	138.7	117.5	101.0	86.2
52.5°	492.6	395.0	311.9	250.8	209.3	177.7	149.3	126.8	105.9	90.3	76.6
55°	492.1	384.8	297.3	238.1	196.7	164.9	137.0	114.7	95.9	81.5	69.7
57.5°	485.2	369.0	281.7	223.9	180.2	149.1	122.6	101.0	85.2	73.2	63.2
60°	470.5	348.8	261.3	203.2	159.6	129.6	104.7	86.2	73.4	64.1	57.6
62.5°	443.1	319.8	235.7	174.4	131.7	104.3	82.7	70.6	61.1	55.5	52.5
63°	435.0	311.9	224.8	167.4	125.2	98.5	78.0	65.5	58.5	53.6	50.9
65°	394.6	273.1	188.1	135.2	97.3	75.9	62.7	53.2	49.0	46.9	46.7
67.5°	319.6	214.8	133.1	92.7	66.2	54.8	48.1	44.1	42.3	41.8	42.3
70°	224.3	135.6	84.5	61.5	49.0	44.1	41.1	39.5	38.3	38.6	39.0
72.5°	143.1	81.3	58.1	46.7	41.3	38.8	37.4	36.9	36.7	36.5	36.5
75°	81.5	54.1	44.6	40.4	37.6	35.5	34.4	33.9	34.1	34.4	33.9
77.5°	53.9	44.6	39.7	36.9	34.4	32.0	31.4	31.1	31.6	32.0	32.0
80°	42.5	39.7	36.9	34.1	30.0	28.3	28.8	29.0	28.8	29.0	28.3
82.5°	30.0	29.5	30.2	29.0	24.9	23.5	23.0	23.2	22.8	22.8	22.3
85°	13.9	13.9	14.6	14.6	14.2	14.4	15.6	17.0	17.7	17.0	16.0
87.5°	0.0	0.0	0.0	0.0	0.0	2.1	4.2	6.0	6.5	8.1	7.9
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: P152923

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6
2.5°	247.3	247.8	247.6	247.3	247.8	247.3	247.6	247.3	247.3	247.1	247.1
5°	255.2	255.9	254.5	254.3	253.8	252.7	252.7	252.2	252.2	251.3	250.6
7.5°	260.3	260.6	259.4	259.2	258.0	256.9	255.9	255.0	254.8	254.1	252.7
10°	265.2	264.8	263.8	262.7	261.5	259.9	258.7	257.6	257.3	256.2	254.5
12.5°	269.4	269.2	267.3	266.2	264.3	262.7	261.3	259.9	259.2	257.8	255.5
15°	272.2	270.8	268.5	266.4	264.3	262.4	260.8	259.2	258.5	256.9	254.5
17.5°	271.0	268.5	265.5	262.9	260.1	257.8	256.4	254.8	253.6	252.7	249.4
20°	266.8	263.1	258.5	255.5	251.8	248.7	247.8	246.2	245.3	241.8	237.6
22.5°	255.9	250.6	244.8	240.4	236.2	233.2	230.9	229.2	226.9	224.8	218.3
25°	242.2	236.2	230.2	224.8	219.2	214.6	210.4	206.5	205.3	200.9	194.6
27.5°	229.0	222.3	216.2	209.9	202.8	196.9	189.7	184.2	180.5	175.8	170.0
30°	214.8	208.1	200.0	191.6	183.2	177.0	168.8	162.1	157.5	152.6	147.2
32.5°	196.9	188.8	179.1	169.8	162.1	154.7	146.5	140.0	135.4	131.0	125.9
35°	176.5	165.8	155.4	145.2	137.0	130.8	123.6	118.7	115.4	111.5	106.1
37.5°	153.0	141.0	129.8	121.9	114.7	108.7	103.6	100.6	97.1	95.0	91.7
40°	129.4	117.5	106.6	99.4	93.4	89.9	87.1	86.4	84.1	81.3	79.2
42.5°	108.5	97.1	86.4	80.6	76.6	75.7	74.3	74.3	73.2	71.1	69.7
45°	94.3	82.4	73.2	69.0	66.9	66.7	66.0	66.0	65.7	64.8	63.2
47.5°	84.1	73.4	66.2	63.6	63.2	62.7	62.0	61.8	61.5	60.8	59.9
50°	74.8	65.7	61.1	59.9	60.2	59.5	58.8	58.1	57.8	57.1	56.2
52.5°	66.2	59.7	56.7	56.0	56.0	56.0	55.5	55.5	55.0	54.8	53.9
55°	61.3	56.4	54.8	54.6	54.3	54.1	53.6	53.6	53.2	53.0	51.8
57.5°	57.1	54.1	53.2	52.7	52.5	52.0	51.8	51.8	51.8	51.8	50.4
60°	53.9	52.5	52.3	51.8	51.6	50.6	50.2	49.9	50.2	50.4	49.0
62.5°	50.4	50.2	49.9	49.5	49.2	48.3	47.6	47.1	47.6	48.1	47.8
63°	49.5	49.2	49.2	49.0	48.8	47.6	46.9	46.4	46.9	47.4	47.4
65°	46.2	46.4	46.4	46.2	46.0	45.3	44.4	43.9	44.1	44.8	45.1
67.5°	42.7	43.0	42.7	43.0	42.7	42.3	41.6	41.1	40.9	41.1	41.3
70°	39.5	39.9	39.7	39.5	39.2	39.2	38.8	38.1	37.9	37.6	37.6
72.5°	36.7	36.7	36.2	36.2	36.0	36.0	35.5	34.8	34.6	34.6	34.1
75°	33.7	33.7	33.0	33.0	32.5	32.7	32.3	31.6	31.4	31.4	31.1
77.5°	31.8	31.1	30.0	29.7	29.5	29.5	29.3	28.6	28.3	28.3	28.1
80°	28.1	26.7	25.5	25.3	25.5	26.0	26.0	25.5	25.5	25.5	25.5
82.5°	21.8	21.4	20.7	20.2	20.2	20.9	21.8	22.3	22.8	23.2	23.2
85°	16.0	16.3	16.0	15.3	15.1	15.8	16.7	17.7	17.9	18.8	18.6
87.5°	8.6	8.8	8.1	7.9	8.6	9.1	10.0	10.2	10.7	10.9	11.1
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: P152923

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6
2.5°	246.9	246.6	246.9	246.4	246.4	245.9	245.5	245.3	244.8	244.6	244.1
5°	251.1	250.4	249.7	249.4	248.5	247.6	246.9	245.7	244.8	243.2	242.7
7.5°	253.8	252.2	251.3	251.1	249.7	249.0	247.3	245.9	244.6	242.5	241.8
10°	255.0	253.4	251.8	251.1	249.4	248.3	246.6	244.6	243.4	241.3	240.8
12.5°	256.4	253.4	250.8	249.0	246.6	244.1	242.5	241.3	239.7	238.5	238.1
15°	253.8	249.9	245.9	242.5	238.7	236.0	234.3	232.5	230.6	229.9	229.9
17.5°	246.9	241.8	235.0	230.6	226.7	223.7	221.6	219.7	219.5	218.5	219.0
20°	232.5	225.7	219.2	216.0	213.7	211.8	209.7	208.8	208.1	206.7	206.2
22.5°	212.5	206.9	202.3	200.0	198.1	195.8	193.9	191.1	190.4	189.0	188.4
25°	190.4	186.0	182.1	180.5	179.3	176.0	174.9	171.2	168.6	167.0	167.9
27.5°	168.4	165.1	161.4	159.3	158.6	155.6	154.4	150.3	148.2	148.2	145.8
30°	145.6	142.6	140.3	138.0	137.5	133.8	130.8	129.1	126.8	125.9	124.3
32.5°	124.3	121.2	119.4	118.2	116.4	113.3	110.3	107.5	103.8	102.4	101.7
35°	104.5	102.2	99.9	98.9	96.4	93.1	89.4	87.1	82.7	81.1	80.4
37.5°	89.4	86.6	85.0	82.4	79.9	76.4	73.6	71.5	69.9	69.2	69.2
40°	77.3	75.2	73.4	71.3	69.2	67.4	66.0	65.5	65.3	65.3	65.7
42.5°	68.3	66.4	65.5	64.3	63.6	63.6	63.4	63.6	63.9	64.1	64.8
45°	62.2	61.1	60.6	60.4	60.8	61.3	61.5	62.0	62.9	63.4	63.6
47.5°	59.0	58.1	57.8	58.1	58.8	59.7	60.6	61.3	62.0	62.2	62.5
50°	55.7	54.6	54.1	54.6	55.5	56.9	57.6	58.8	59.2	59.7	59.2
52.5°	53.0	52.0	51.8	51.8	52.7	53.6	54.6	55.5	55.7	55.7	55.5
55°	50.6	49.9	49.2	49.7	50.4	51.3	52.7	53.4	53.9	54.1	54.1
57.5°	48.8	48.1	47.4	47.8	48.5	49.5	50.9	51.6	52.0	52.7	53.0
60°	47.4	46.4	45.8	46.4	47.1	48.5	49.7	50.4	51.6	51.8	51.8
62.5°	46.0	45.1	43.9	44.6	44.6	45.3	46.4	47.4	48.5	49.0	49.0
63°	45.8	44.8	43.7	44.1	44.1	44.6	45.5	46.4	47.8	48.3	48.1
65°	43.9	43.7	42.5	42.5	42.0	42.5	43.2	44.1	44.8	45.5	45.5
67.5°	40.9	40.6	40.4	40.4	40.4	40.9	41.3	42.0	42.7	43.2	43.0
70°	37.4	37.4	37.4	37.6	37.6	38.1	38.3	38.1	38.8	39.2	39.0
72.5°	34.4	34.1	33.9	34.4	34.1	34.1	34.6	34.4	35.1	35.1	35.3
75°	31.1	30.9	30.9	31.1	30.7	30.2	30.4	30.4	30.7	30.7	31.1
77.5°	28.3	28.3	28.3	28.1	27.6	27.4	27.2	27.2	27.2	27.2	27.4
80°	25.8	25.8	25.8	25.5	25.1	24.6	24.2	23.9	23.7	22.5	22.5
82.5°	23.2	23.2	23.2	23.2	23.0	22.5	21.8	20.0	19.0	18.1	18.3
85°	18.3	18.8	19.3	20.0	19.7	19.7	18.3	16.0	14.6	13.7	13.9
87.5°	11.8	10.5	10.5	10.2	9.8	9.3	9.3	7.9	6.5	5.8	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: P152923

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6	243.6
2.5°	244.1	243.6	243.2	243.2	242.5	242.5	242.0	242.9	242.0	241.3	241.3
5°	242.2	241.8	240.4	240.1	239.2	239.2	239.2	238.7	238.7	238.3	238.1
7.5°	241.1	239.9	238.7	238.1	238.1	237.6	238.5	238.1	238.3	238.3	238.5
10°	240.1	239.2	238.7	238.5	238.5	239.2	239.9	240.1	239.9	240.1	240.1
12.5°	237.8	238.3	238.5	239.4	240.6	242.0	243.6	243.9	244.3	244.3	244.8
15°	230.4	231.5	232.9	235.3	238.3	241.3	244.3	246.9	249.2	250.4	251.3
17.5°	219.9	221.1	223.7	226.2	230.2	234.6	239.7	244.1	249.0	253.4	257.8
20°	205.8	207.6	208.3	213.0	217.6	223.7	229.7	236.7	245.0	253.4	262.0
22.5°	187.4	189.5	192.8	196.5	201.4	208.8	216.0	226.9	238.1	249.9	263.4
25°	167.0	169.3	172.1	176.0	180.9	188.8	199.3	210.9	224.6	240.1	256.9
27.5°	145.8	148.2	150.5	153.3	158.9	167.2	179.5	191.6	206.7	223.7	243.2
30°	124.7	124.9	126.3	129.8	135.6	146.5	155.6	170.7	186.5	204.4	226.9
32.5°	101.5	101.3	102.9	105.9	111.5	121.9	133.1	147.7	163.3	185.8	209.0
35°	80.8	80.8	83.8	86.9	93.1	100.6	110.3	123.3	141.7	162.6	185.8
37.5°	69.9	71.5	73.4	76.4	81.3	87.1	95.7	107.1	121.5	141.4	162.8
40°	66.4	67.4	69.0	71.8	75.9	81.3	87.6	96.1	107.3	123.3	142.8
42.5°	65.0	65.3	66.2	68.3	72.0	77.3	83.8	91.5	99.9	111.2	128.2
45°	63.6	63.4	63.9	65.5	68.5	74.6	82.0	90.3	98.7	108.2	122.2
47.5°	62.5	62.5	62.5	63.2	66.0	72.0	80.6	90.3	100.3	111.0	124.7
50°	59.2	59.0	59.0	59.5	61.5	68.0	78.3	90.1	103.1	117.1	132.6
52.5°	55.5	55.5	55.7	56.0	57.8	64.3	75.7	90.1	106.4	124.9	144.5
55°	54.3	54.6	54.8	54.6	56.0	61.5	72.9	88.7	107.8	131.2	157.2
57.5°	53.4	53.9	53.9	53.6	54.6	59.2	70.1	85.9	106.6	133.5	166.3
60°	52.0	52.0	52.0	51.3	51.8	56.0	66.0	81.5	102.9	131.5	167.7
62.5°	49.0	49.0	48.5	48.3	48.1	51.3	60.4	75.0	96.1	125.9	164.2
63°	48.3	48.1	48.1	47.4	47.4	50.4	59.2	74.1	94.3	124.5	162.8
65°	45.8	45.8	45.8	45.3	45.1	47.4	54.6	67.6	87.1	118.0	155.8
67.5°	43.0	43.2	42.7	42.5	42.3	43.7	49.2	59.5	75.9	104.3	142.8
70°	39.0	39.2	39.2	39.0	38.8	39.7	43.2	51.1	62.9	86.9	121.7
72.5°	35.5	36.0	36.0	36.5	36.5	37.2	38.6	42.5	50.4	67.8	95.7
75°	31.8	32.0	32.5	33.0	32.5	32.3	32.5	35.5	39.5	50.2	68.3
77.5°	28.6	29.3	29.3	29.0	28.3	27.9	27.9	29.3	32.5	38.1	48.8
80°	23.7	24.9	25.1	24.4	23.7	23.7	24.2	25.1	27.2	31.4	36.9
82.5°	19.0	20.2	20.4	20.7	20.4	21.1	21.1	21.4	22.5	25.8	30.2
85°	14.6	15.6	16.3	16.5	16.7	17.0	16.7	15.6	16.3	18.3	20.4
87.5°	6.5	6.7	6.3	6.5	6.3	6.5	6.7	5.6	5.3	7.2	7.4
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: P152923

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	243.6	243.6	243.6	243.6	243.6	243.6	243.6
2.5°	241.1	241.1	241.3	240.8	240.8	241.1	240.4
5°	237.4	238.3	238.3	238.3	237.8	238.3	238.5
7.5°	238.3	239.0	239.4	239.4	239.2	240.1	240.8
10°	239.4	240.6	241.1	241.1	241.1	242.2	243.9
12.5°	243.9	244.8	245.5	245.5	245.9	247.3	249.2
15°	252.0	253.1	253.1	252.9	254.3	255.9	258.0
17.5°	261.0	264.3	265.9	265.7	266.8	268.9	271.3
20°	269.6	278.7	282.6	285.4	286.6	289.4	290.1
22.5°	276.8	291.9	302.8	312.1	316.6	319.3	322.6
25°	274.3	294.7	314.2	333.3	346.7	360.4	366.3
27.5°	263.8	289.4	314.9	342.8	367.2	391.6	409.2
30°	251.1	281.7	316.1	355.6	394.1	431.5	461.2
32.5°	236.4	274.5	318.6	367.4	418.0	467.0	510.0
35°	218.1	260.8	312.4	368.6	428.3	487.7	543.5
37.5°	194.9	242.2	297.7	360.2	428.7	496.8	563.4
40°	171.6	218.8	279.2	348.1	422.7	498.9	576.0
42.5°	155.4	197.9	260.3	332.8	412.9	495.6	582.0
45°	144.2	182.8	243.6	318.9	402.5	489.8	582.9
47.5°	143.3	176.3	232.7	308.7	394.1	484.7	582.9
50°	151.2	179.8	229.0	303.5	390.6	483.1	583.4
52.5°	166.1	193.7	235.7	307.5	393.4	485.2	585.5
55°	183.9	214.8	253.8	321.2	405.3	492.1	590.1
57.5°	200.2	239.2	284.7	347.7	426.9	509.8	603.1
60°	209.7	260.1	317.5	384.8	463.8	544.8	629.2
62.5°	210.9	271.7	346.5	425.2	508.6	585.0	670.7
63°	209.9	272.7	350.2	432.9	518.1	595.0	685.1
65°	204.8	272.9	360.7	459.8	551.1	637.0	725.3
67.5°	191.8	265.5	364.4	481.0	592.7	692.3	800.3
70°	169.3	244.3	353.5	481.4	608.7	723.2	847.7
72.5°	136.1	204.1	306.3	438.0	566.4	692.8	835.4
75°	99.6	150.0	231.5	339.3	462.2	576.7	715.5
77.5°	66.2	97.1	156.1	241.8	331.4	415.0	515.1
80°	45.5	60.2	91.3	145.4	202.8	243.4	328.2
82.5°	33.4	39.7	50.6	74.3	97.5	120.1	171.4
85°	20.9	22.8	25.3	36.7	52.5	70.8	106.8
87.5°	5.6	5.8	5.3	7.2	11.4	10.9	12.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)