

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: P153506

Luminaire Tested: **TLM-F02-LED-E1-SLR-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P153506  
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-F02-LED-E1-SLR-7050  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4713.9 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
CIE Type: Direct

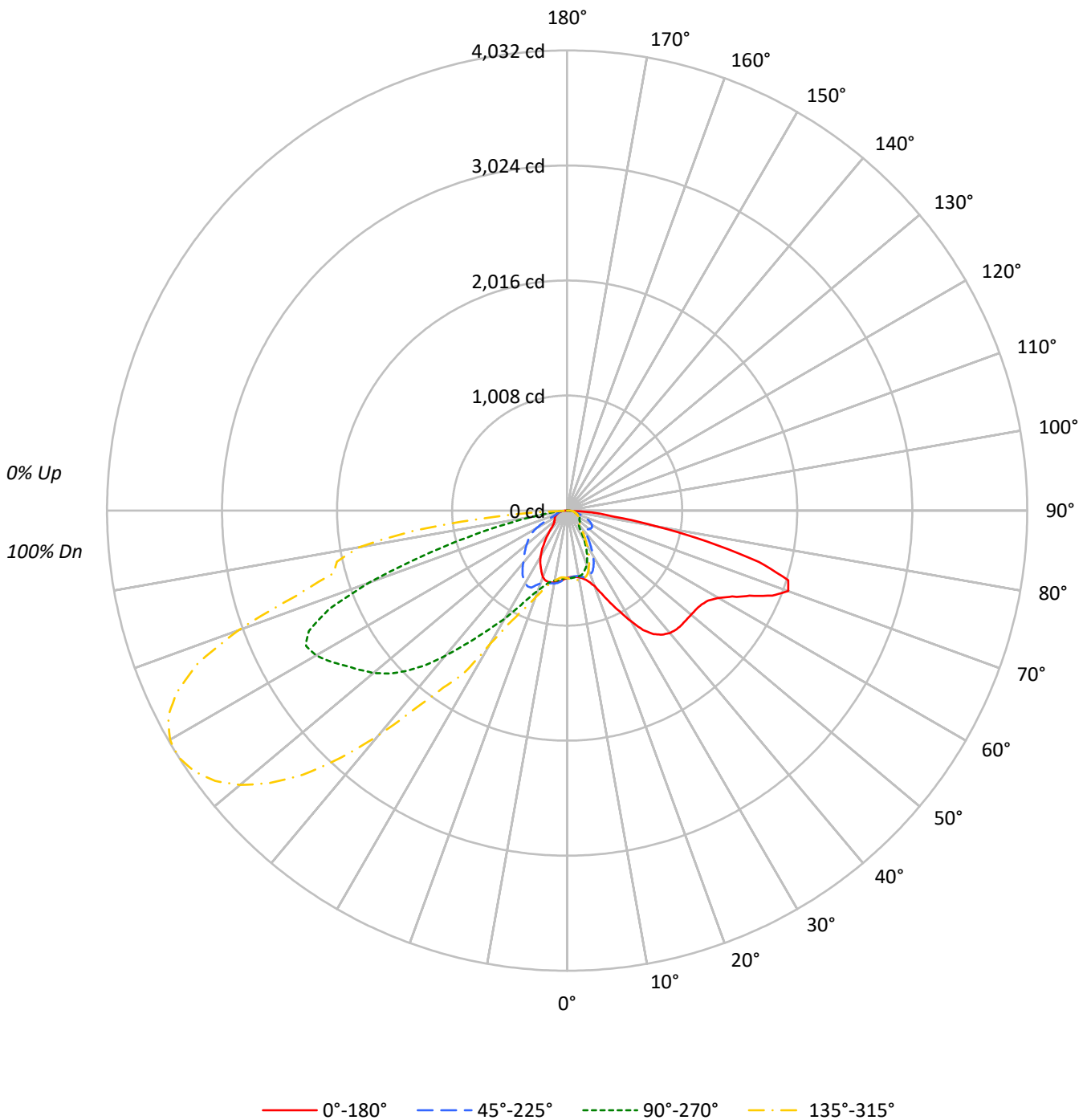
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	19323	19323	19323	19323
5°	18991	19321	20248	19822
10°	19641	19396	21154	20611
15°	21186	18880	21872	22274
20°	24482	17408	21563	25856
25°	32053	14695	19672	31664
30°	42240	11378	17548	41091
35°	52617	7781	14052	53182
40°	59633	6804	10292	70716
45°	65383	7136	7736	91589
50°	71986	7307	7393	112277
55°	81599	7484	7546	134719
60°	99798	8213	8213	165666
65°	136116	8544	8675	192774
70°	196573	9050	9155	175459
75°	219273	9540	10107	113587
80°	149877	10294	11571	55168
85°	97230	12687	13959	26834



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.7	1.2
10°-20°	179.6	3.8
20°-30°	319.1	6.8
30°-40°	502.4	10.7
40°-50°	739.4	15.7
50°-60°	982.2	20.8
60°-70°	1081.9	23.0
70°-80°	678.8	14.4
80°-90°	172.9	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°	556.3	11.8
0°-40°	1058.8	22.5
0°-60°	2780.4	59.0
0°-90°	4713.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4713.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	592	592	592	592	592	
5°	580	590	618	605	580	56
15°	627	559	648	660	627	182
25°	891	408	547	880	891	420
35°	1321	195	353	1336	1321	819
45°	1417	155	168	1986	1417	1096
55°	1435	132	133	2369	1435	1302
65°	1764	111	112	2498	1764	1775
75°	1740	76	80	901	1740	1701
85°	260	34	37	72	260	300
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°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	584.5	586.2	585.6	585.6	586.7	586.2	586.2	586.7	586.7	588.4	590.7
5°	580.0	579.4	578.3	579.4	579.4	579.4	577.1	578.8	579.4	580.5	580.5
7.5°	585.6	583.9	581.7	582.2	582.2	581.1	579.4	580.0	579.4	579.4	578.8
10°	593.0	589.0	586.2	586.2	586.2	585.0	582.2	583.9	583.9	583.4	583.9
12.5°	605.9	601.4	598.0	596.9	596.9	595.2	593.0	595.2	594.1	594.1	593.0
15°	627.4	622.3	618.4	615.0	615.5	615.5	612.7	611.0	608.8	605.9	600.3
17.5°	659.6	653.9	648.9	646.0	646.6	642.6	634.7	626.8	616.1	605.4	593.5
20°	705.3	703.6	696.9	694.0	687.3	677.7	655.6	637.0	616.1	595.8	575.4
22.5°	784.4	776.5	769.7	759.0	736.4	709.8	673.1	640.4	607.6	578.8	551.7
25°	890.6	876.4	843.1	810.4	764.1	716.6	666.9	624.6	583.9	546.1	512.8
27.5°	995.0	952.1	892.8	833.5	765.8	703.6	641.5	591.3	543.8	502.6	465.9
30°	1121.5	1049.2	958.3	864.6	768.6	685.0	610.5	551.7	497.0	453.5	415.1
32.5°	1240.1	1135.6	1016.5	893.4	774.8	667.5	574.9	508.2	451.8	397.0	359.2
35°	1321.4	1185.9	1041.3	896.2	759.5	634.2	530.3	451.8	395.3	344.5	299.9
37.5°	1370.0	1207.9	1042.5	875.9	724.0	589.0	473.8	395.9	343.9	295.3	260.3
40°	1400.5	1213.0	1027.8	846.5	678.8	532.0	417.3	347.3	299.9	260.9	233.8
42.5°	1415.2	1205.1	1004.1	809.2	633.0	481.1	377.8	311.7	270.5	242.8	222.5
45°	1417.4	1191.0	978.7	775.4	592.4	444.4	350.7	297.0	263.2	240.0	219.7
47.5°	1417.4	1178.6	958.3	750.5	565.8	428.6	348.4	303.3	269.9	244.0	219.7
50°	1418.6	1174.6	949.9	738.1	556.8	437.1	367.6	322.5	284.6	250.7	219.1
52.5°	1423.7	1179.7	956.6	747.7	573.2	471.0	403.8	351.3	303.8	258.6	219.1
55°	1434.9	1196.6	985.4	781.0	617.2	522.4	447.3	382.3	319.1	262.0	215.7
57.5°	1466.6	1239.6	1037.9	845.4	692.3	581.7	486.8	404.3	324.7	259.2	208.9
60°	1529.8	1324.8	1127.7	935.7	772.0	632.5	509.9	407.7	319.6	250.2	198.2
62.5°	1630.9	1422.5	1236.7	1034.0	842.6	660.7	512.8	399.3	306.1	233.8	182.4
63°	1665.9	1446.8	1259.9	1052.6	851.6	663.0	510.5	395.9	302.7	229.3	180.1
65°	1763.6	1549.0	1340.1	1118.1	877.0	663.5	498.1	378.9	286.9	211.8	164.3
67.5°	1946.0	1683.4	1441.2	1169.5	886.0	645.5	466.5	347.3	253.6	184.7	144.6
70°	2061.2	1758.5	1480.1	1170.7	859.5	594.1	411.7	295.9	211.2	153.0	124.2
72.5°	2031.3	1684.6	1377.3	1065.1	744.9	496.4	330.9	232.7	164.9	122.5	103.3
75°	1739.9	1402.2	1123.8	825.1	563.0	364.8	242.3	166.0	122.0	96.0	86.4
77.5°	1252.5	1009.1	805.9	587.9	379.5	236.1	160.9	118.6	92.6	79.1	71.2
80°	797.9	591.8	493.0	353.5	221.9	146.3	110.7	89.8	76.2	66.1	61.0
82.5°	416.8	292.0	237.2	180.7	123.1	96.6	81.3	73.4	62.7	54.8	52.0
85°	259.8	172.2	127.6	89.2	61.6	55.3	50.8	49.7	44.6	39.5	37.8
87.5°	29.4	26.5	27.7	17.5	13.0	14.1	13.6	18.1	17.5	13.0	13.6
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°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	588.4	589.6	589.6	591.3	591.3	592.4	593.5	593.5	594.6	595.2	596.3
5°	581.7	581.7	581.7	583.9	584.5	587.9	589.0	590.1	591.3	595.2	597.5
7.5°	580.0	577.7	578.8	578.8	580.5	583.4	586.2	587.9	589.6	594.6	598.0
10°	583.4	581.7	580.0	580.0	580.5	581.7	583.9	585.6	586.7	591.8	594.6
12.5°	592.4	588.4	585.0	582.2	580.0	579.4	578.3	578.8	580.0	582.8	586.7
15°	594.1	586.7	579.4	572.1	566.4	563.0	560.2	559.1	559.1	560.8	565.3
17.5°	582.8	570.4	559.6	550.0	543.8	537.6	534.8	532.5	531.4	533.7	534.2
20°	558.5	543.8	529.1	517.8	506.6	504.9	500.3	501.5	502.6	506.0	507.7
22.5°	525.2	507.7	489.6	477.8	468.7	460.8	455.7	458.0	459.7	463.1	464.8
25°	484.5	459.1	439.9	428.1	418.5	411.7	406.0	408.3	406.0	410.0	416.2
27.5°	436.5	406.6	386.3	372.7	365.9	360.3	354.6	354.6	360.3	360.3	365.4
30°	378.4	356.3	329.8	315.7	307.2	303.8	303.3	302.1	306.1	308.3	314.0
32.5°	323.6	296.5	271.1	257.5	250.2	246.2	246.8	247.3	249.0	252.4	261.5
35°	268.2	244.5	226.5	211.2	203.9	196.5	196.5	195.4	197.1	201.0	211.8
37.5°	232.7	211.8	197.7	185.8	178.5	173.9	170.0	168.3	168.3	170.0	173.9
40°	212.9	197.7	184.7	174.5	167.7	163.8	161.5	159.8	158.7	158.7	159.3
42.5°	203.9	188.1	175.1	166.0	160.9	158.7	158.1	157.6	155.9	155.3	154.7
45°	199.3	181.3	166.6	159.3	155.3	154.2	154.7	154.7	154.2	153.0	150.8
47.5°	196.0	175.1	160.4	153.6	151.9	151.9	151.9	151.9	151.3	150.8	149.1
50°	190.3	165.5	149.7	144.6	143.4	143.4	144.0	144.0	145.1	144.0	142.9
52.5°	184.1	156.4	140.6	136.1	135.5	135.0	135.0	135.0	135.5	135.5	135.0
55°	177.3	149.7	136.1	132.7	133.3	132.7	132.1	131.6	131.6	131.0	129.9
57.5°	170.5	144.0	132.7	130.4	131.0	131.0	129.9	128.8	128.2	126.5	125.4
60°	160.4	136.1	125.9	124.8	126.5	126.5	126.5	125.9	125.9	125.4	122.5
62.5°	146.8	124.8	116.9	117.5	118.0	119.2	119.2	119.2	119.2	118.0	115.2
63°	144.0	122.5	115.2	115.2	116.9	116.9	117.5	116.9	117.5	116.3	112.9
65°	132.7	115.2	109.6	110.1	111.2	111.2	111.2	110.7	110.7	109.0	107.3
67.5°	119.7	106.2	102.8	103.3	103.9	105.0	104.5	104.5	105.0	103.9	102.2
70°	105.0	96.6	94.3	94.9	95.4	95.4	94.9	94.9	95.4	94.3	92.6
72.5°	93.7	90.4	88.7	88.7	87.5	87.5	86.4	85.8	85.3	85.3	83.6
75°	79.1	78.5	79.1	80.2	79.1	77.9	77.4	75.7	74.5	74.5	74.0
77.5°	67.8	67.8	68.9	70.6	71.2	71.2	69.5	66.6	66.1	66.1	66.1
80°	58.7	57.6	57.6	59.3	61.0	60.4	57.6	54.8	54.8	57.6	58.2
82.5°	51.4	51.4	49.7	50.3	49.7	49.1	46.3	44.6	44.0	46.3	48.6
85°	40.7	41.2	40.7	40.1	39.5	37.8	35.6	33.9	33.3	35.6	39.0
87.5°	16.4	15.8	15.2	15.8	15.2	16.4	15.8	14.7	14.1	15.8	19.2
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°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	596.9	598.0	599.2	599.2	600.3	599.7	600.3	600.9	600.9	601.4	601.4
5°	600.3	602.0	604.2	606.5	607.1	608.8	610.5	609.3	611.0	613.3	613.3
7.5°	601.4	605.4	607.1	610.5	611.0	613.3	617.2	614.4	617.8	619.5	620.1
10°	599.7	603.7	606.5	610.5	612.2	616.1	620.1	618.9	622.9	625.7	626.3
12.5°	589.6	593.5	599.7	605.4	609.9	616.1	623.4	621.2	626.8	630.2	631.9
15°	569.8	573.8	580.5	589.6	598.0	607.6	617.2	618.9	624.6	628.5	630.2
17.5°	538.7	543.8	551.2	560.8	571.5	587.9	600.3	606.5	614.4	616.7	619.5
20°	509.9	515.0	519.5	525.2	533.1	548.9	565.3	577.7	587.9	596.3	598.6
22.5°	471.5	476.1	481.7	486.2	491.9	503.2	516.7	530.8	546.6	551.7	557.4
25°	425.2	428.1	436.0	438.8	442.7	452.3	463.1	473.2	488.5	499.2	502.0
27.5°	375.5	378.4	385.7	387.4	392.5	401.5	409.4	413.4	427.5	438.8	447.8
30°	317.9	325.3	334.3	335.4	341.1	346.7	354.1	358.0	371.0	382.9	394.2
32.5°	268.2	275.6	282.9	287.4	290.3	294.8	302.1	306.1	318.5	329.2	340.5
35°	217.4	226.5	234.4	240.6	242.8	248.5	254.1	258.1	271.1	280.7	288.6
37.5°	179.0	185.8	194.3	200.5	206.7	210.6	217.4	223.1	231.0	236.1	244.5
40°	160.4	163.8	168.3	173.4	178.5	183.0	188.1	192.6	197.7	204.4	210.1
42.5°	154.2	154.7	154.7	156.4	159.3	161.5	166.0	169.4	172.8	177.9	180.7
45°	149.7	149.1	148.0	146.8	147.4	148.5	151.3	153.6	157.6	159.8	160.4
47.5°	147.4	145.1	142.9	141.2	140.6	141.2	143.4	145.7	148.0	149.7	150.2
50°	140.0	138.4	135.0	132.7	131.6	132.7	135.5	136.7	138.9	140.6	141.2
52.5°	132.7	130.4	128.2	125.9	125.9	126.5	128.8	131.0	133.3	133.8	135.0
55°	128.2	124.8	122.5	120.8	119.7	121.4	123.1	125.9	128.8	129.3	130.4
57.5°	123.7	120.3	118.0	116.3	115.2	116.9	118.6	122.5	125.9	125.9	125.9
60°	120.8	118.0	114.6	112.9	111.2	112.9	115.2	119.2	122.5	122.0	121.4
62.5°	112.9	110.1	108.4	108.4	106.7	109.6	111.8	116.3	116.9	115.8	114.6
63°	110.7	108.4	107.3	107.3	106.2	109.0	111.2	115.2	115.2	114.1	112.9
65°	105.0	103.3	102.2	103.3	103.3	106.2	106.7	109.6	109.0	107.3	106.7
67.5°	100.5	99.4	98.3	98.3	98.3	98.8	99.4	100.5	100.0	99.4	100.0
70°	93.2	92.6	91.5	91.5	90.9	90.9	90.9	91.5	91.5	92.0	92.6
72.5°	84.1	83.0	83.0	83.6	82.4	83.0	83.6	83.0	84.1	84.1	84.7
75°	74.0	73.4	74.5	75.7	75.1	75.1	75.7	75.7	76.2	76.2	76.8
77.5°	66.1	66.6	67.2	68.3	68.9	68.9	68.9	68.3	68.9	68.9	69.5
80°	58.7	59.9	61.0	62.1	62.7	62.7	62.7	62.1	62.1	62.1	62.1
82.5°	53.1	54.8	55.9	56.5	56.5	56.5	56.5	56.5	56.5	55.3	54.2
85°	44.6	48.0	48.0	48.6	46.9	45.7	44.6	45.2	45.7	43.5	42.9
87.5°	22.6	22.6	23.7	24.8	25.4	25.4	28.8	27.1	26.5	26.0	24.8
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: P153506

CATALOG NUMBER: TLM-F02-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	602.0	601.4	602.6	601.4	602.0	602.6	601.4	603.1	604.2	602.6	600.9
5°	614.4	614.4	617.2	618.4	618.9	622.3	620.6	621.8	622.9	622.3	622.9
7.5°	622.3	624.6	627.4	630.2	630.8	633.6	633.0	634.7	635.9	638.7	638.7
10°	629.1	631.9	635.9	638.7	641.5	643.8	644.9	648.3	648.9	651.1	651.1
12.5°	635.3	638.7	642.6	647.2	650.0	654.5	655.1	660.2	661.8	662.4	660.7
15°	634.2	638.1	642.6	647.7	652.8	658.5	661.8	666.9	669.8	670.9	668.1
17.5°	623.4	626.8	632.5	639.3	645.5	652.8	659.0	666.4	670.9	672.0	671.4
20°	602.6	604.8	612.2	621.2	628.5	639.8	648.9	660.2	667.5	673.1	674.8
22.5°	561.3	567.0	574.3	584.5	595.2	609.3	622.3	638.7	654.5	668.1	681.6
25°	511.6	521.8	533.1	546.6	559.6	574.3	589.0	607.6	630.8	659.0	691.2
27.5°	461.4	478.9	493.0	510.5	525.8	540.4	556.8	577.1	602.6	636.4	677.7
30°	410.5	430.3	445.6	465.9	486.2	506.0	522.4	543.8	568.7	603.1	648.3
32.5°	356.3	376.1	394.2	412.8	435.4	459.1	478.9	505.4	532.0	567.5	613.3
35°	300.4	317.9	333.2	352.9	377.8	403.2	429.2	459.7	488.5	525.8	574.3
37.5°	251.9	264.3	279.0	296.5	315.7	342.8	372.1	408.3	441.0	481.7	531.4
40°	211.8	218.5	227.0	241.7	259.2	285.7	314.5	352.9	392.5	437.1	485.1
42.5°	180.7	184.1	186.4	196.0	210.1	236.1	263.7	301.0	344.5	393.0	441.6
45°	160.4	162.1	162.6	167.7	177.9	200.5	229.3	260.9	302.7	350.1	400.9
47.5°	150.8	152.5	153.6	154.7	160.9	178.5	204.4	234.4	272.8	316.2	368.2
50°	142.9	144.6	146.3	145.7	148.5	159.8	181.8	209.5	245.7	285.7	337.1
52.5°	135.0	136.1	136.1	136.1	137.8	145.1	160.9	186.4	219.7	257.5	308.3
55°	130.4	131.6	132.1	132.7	133.3	137.2	149.1	169.4	198.2	233.2	279.0
57.5°	125.9	126.5	127.6	128.2	129.3	131.6	138.9	153.6	177.9	207.3	245.7
60°	122.0	123.1	125.4	125.9	127.1	127.6	131.0	140.0	155.9	178.5	209.5
62.5°	115.8	117.5	119.7	120.3	121.4	122.0	122.5	127.6	135.0	148.5	171.7
63°	114.1	115.8	118.6	119.2	119.7	119.7	120.3	123.7	130.4	142.3	159.3
65°	107.9	110.1	111.8	112.4	112.9	112.9	112.4	113.5	114.1	119.2	129.3
67.5°	101.1	102.8	103.9	104.5	103.9	104.5	103.9	102.8	101.6	102.8	107.3
70°	94.3	95.4	95.4	96.0	96.6	97.1	96.0	94.9	93.7	93.2	96.0
72.5°	86.4	87.5	87.5	88.1	88.1	89.2	89.2	88.7	88.7	89.2	89.8
75°	78.5	79.6	79.1	80.2	80.2	81.9	81.9	82.4	83.6	83.0	82.4
77.5°	71.2	71.7	71.7	72.3	72.8	75.7	77.4	77.9	77.9	76.8	75.7
80°	63.2	63.2	62.1	61.6	62.1	64.9	68.3	68.9	70.6	70.0	70.6
82.5°	53.1	50.8	49.1	49.1	50.3	52.0	53.1	54.2	55.3	55.3	56.5
85°	40.7	38.4	36.7	37.3	39.0	39.5	39.0	39.0	41.2	42.9	41.2
87.5°	24.3	22.0	20.9	19.2	19.8	21.5	20.9	19.2	19.8	15.8	14.7
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: P153506

CATALOG NUMBER: TLM-F02-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	602.0	601.4	600.3	598.6	598.0	596.9	597.5	595.8	594.6	593.5	591.8
5°	622.9	622.9	619.5	619.5	617.8	617.2	613.3	611.6	608.2	609.3	605.4
7.5°	637.6	639.3	635.3	634.7	632.5	631.9	626.8	625.1	622.3	621.2	617.8
10°	648.3	648.3	643.2	639.3	636.4	633.6	628.5	626.3	624.0	624.6	622.3
12.5°	656.8	652.8	645.5	639.8	635.9	633.0	629.1	627.4	626.8	630.8	631.4
15°	663.5	657.9	648.9	644.9	641.5	641.0	641.0	642.6	646.6	653.9	659.6
17.5°	667.5	664.1	659.6	658.5	664.1	667.5	672.0	677.1	682.7	692.9	699.1
20°	674.8	677.1	680.5	685.0	694.0	702.5	708.2	715.5	722.3	734.7	744.9
22.5°	694.0	707.0	717.8	726.8	740.3	752.2	759.5	769.7	774.8	783.3	799.1
25°	718.9	745.4	768.0	787.2	808.1	820.5	830.7	843.7	851.6	865.7	879.8
27.5°	711.5	749.4	783.3	818.8	847.6	879.8	902.4	923.9	937.4	958.3	977.0
30°	689.0	734.1	779.9	826.7	872.5	918.8	961.7	1000.7	1030.6	1060.5	1091.0
32.5°	658.5	710.4	766.3	823.9	883.8	948.2	1007.5	1066.2	1115.9	1159.4	1201.7
35°	623.4	682.2	740.3	811.5	885.5	967.4	1049.8	1131.1	1206.8	1283.6	1335.6
37.5°	581.7	641.5	706.5	788.3	875.3	976.4	1081.4	1187.6	1294.9	1398.2	1488.0
40°	537.0	598.0	666.4	755.0	853.3	970.7	1101.8	1244.6	1392.0	1541.7	1660.8
42.5°	497.5	560.2	634.7	724.5	831.3	963.4	1118.1	1293.8	1473.9	1659.1	1834.2
45°	459.1	528.0	606.5	703.1	821.7	969.1	1142.4	1339.5	1547.3	1772.1	1985.5
47.5°	424.7	494.7	570.9	676.5	807.5	971.9	1166.1	1385.3	1616.8	1860.2	2113.7
50°	393.6	461.4	536.5	642.6	785.5	970.2	1187.6	1426.5	1676.6	1929.6	2212.6
52.5°	363.1	432.0	508.8	609.9	758.4	960.6	1197.8	1460.4	1732.0	1999.7	2292.2
55°	333.2	400.9	478.3	578.8	722.8	935.7	1196.6	1482.4	1776.0	2065.7	2369.0
57.5°	298.2	362.5	438.2	544.4	685.0	897.3	1179.7	1492.5	1813.9	2131.2	2461.0
60°	254.7	315.1	388.0	494.1	635.3	848.2	1144.1	1486.9	1835.9	2179.8	2539.5
62.5°	201.0	253.6	320.2	424.1	573.2	777.6	1077.5	1435.5	1800.9	2173.0	2576.2
63°	189.7	239.4	304.4	407.2	546.6	758.4	1057.7	1415.2	1783.9	2158.9	2571.2
65°	152.5	184.7	236.6	328.7	457.4	664.1	959.5	1310.7	1693.0	2059.5	2497.7
67.5°	116.9	133.3	160.9	225.3	323.6	522.4	777.1	1110.8	1469.4	1813.9	2261.1
70°	100.0	107.3	119.2	149.7	205.6	329.8	545.5	828.4	1139.0	1437.8	1839.8
72.5°	90.9	94.3	100.5	113.5	141.2	197.7	347.9	539.3	774.8	1025.0	1335.6
75°	83.6	86.4	91.5	98.3	108.4	131.6	198.2	329.8	503.7	673.1	901.3
77.5°	76.2	77.9	83.6	89.8	96.6	108.4	131.0	189.7	289.7	397.0	543.3
80°	70.0	68.9	72.8	83.0	89.8	96.6	103.3	123.1	164.9	217.4	293.7
82.5°	55.9	57.0	60.4	70.6	73.4	71.7	72.8	76.2	92.0	100.5	150.2
85°	37.8	35.0	34.4	35.6	35.6	33.9	33.9	33.3	36.7	41.8	71.7
87.5°	10.2	5.1	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



TEST NUMBER: P153506

CATALOG NUMBER: TLM-F02-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	590.7	590.1	590.7	587.9	587.9	587.3	586.7	585.6	585.6	583.4	585.0
5°	602.0	600.9	598.6	595.2	593.5	591.3	591.3	589.0	587.3	585.0	585.6
7.5°	615.0	615.5	611.6	608.8	607.6	605.4	605.9	602.6	603.1	601.4	600.3
10°	622.3	622.3	623.4	622.9	624.0	624.0	625.7	623.4	622.3	620.6	620.6
12.5°	634.2	636.4	641.0	641.0	644.3	645.5	646.0	647.2	644.9	643.8	639.8
15°	663.5	669.2	673.1	678.8	685.6	687.8	687.8	685.6	684.4	682.7	675.4
17.5°	712.1	724.5	727.9	737.0	738.1	740.9	748.8	744.3	741.5	729.6	727.4
20°	761.8	777.6	793.4	804.7	810.4	821.7	823.4	821.1	809.8	798.5	793.4
22.5°	821.7	845.4	863.5	881.0	889.4	895.1	907.5	904.7	895.6	878.7	871.9
25°	906.4	935.7	954.9	976.4	987.7	993.3	1005.8	1005.8	996.2	991.1	990.5
27.5°	1013.1	1049.2	1080.9	1088.2	1117.6	1124.4	1136.2	1136.2	1127.2	1121.0	1150.9
30°	1131.7	1169.5	1224.3	1261.0	1296.6	1331.6	1331.0	1333.3	1344.0	1349.7	1362.7
32.5°	1250.3	1297.2	1355.3	1434.9	1511.2	1576.1	1660.3	1713.9	1697.5	1651.8	1633.7
35°	1394.3	1446.2	1516.8	1597.0	1736.5	1820.6	1861.3	1890.1	1893.5	1899.7	1912.7
37.5°	1554.7	1641.6	1723.5	1814.4	1891.8	1994.0	2088.3	2164.0	2181.5	2217.1	2196.7
40°	1757.4	1854.5	1940.4	2057.8	2161.7	2284.8	2419.8	2523.7	2565.5	2552.0	2450.3
42.5°	1969.7	2090.0	2190.5	2328.9	2463.9	2626.5	2766.0	2911.1	2937.1	2832.6	2680.7
45°	2165.1	2314.2	2439.0	2583.0	2747.9	2942.7	3129.1	3278.2	3273.1	3094.1	2890.8
47.5°	2340.8	2523.7	2676.2	2863.7	3041.0	3273.1	3487.1	3597.2	3532.3	3320.5	3071.5
50°	2485.9	2714.0	2902.1	3091.8	3317.1	3596.7	3802.8	3864.9	3739.6	3509.2	3247.1
52.5°	2602.8	2889.1	3100.3	3318.8	3603.5	3897.7	4075.0	4051.8	3889.8	3653.2	3392.3
55°	2701.6	3022.9	3274.8	3532.9	3885.8	4156.9	4274.9	4212.8	3986.3	3746.3	3491.6
57.5°	2803.8	3152.8	3435.2	3734.5	4127.5	4360.2	4425.7	4298.1	4032.1	3781.9	3534.6
60°	2906.0	3261.2	3576.9	3910.7	4310.5	4526.2	4508.1	4317.3	4018.5	3755.9	3505.8
62.5°	2974.9	3325.6	3659.4	4019.1	4447.7	4610.9	4500.2	4248.9	3940.0	3653.7	3419.9
63°	2976.6	3327.9	3664.4	4026.4	4463.0	4613.7	4485.0	4224.6	3915.2	3632.8	3394.5
65°	2941.0	3285.5	3619.3	3993.1	4450.0	4548.8	4353.4	4081.2	3773.4	3488.3	3262.4
67.5°	2759.2	3110.5	3405.2	3757.6	4217.3	4245.5	4001.0	3781.3	3504.6	3209.3	2973.2
70°	2392.7	2684.7	2973.8	3268.0	3653.7	3648.6	3418.8	3307.0	3064.7	2728.1	2539.0
72.5°	1903.1	2165.1	2368.4	2565.5	2819.6	2768.2	2620.3	2651.3	2494.4	2243.1	2130.7
75°	1412.9	1700.9	1800.3	1880.5	1987.8	1988.4	2029.0	2117.1	2114.9	1975.4	1833.6
77.5°	926.7	1241.8	1275.1	1339.5	1468.3	1643.3	1824.0	2018.3	2066.9	1956.7	1747.2
80°	516.7	844.3	805.9	861.2	1000.1	1237.9	1504.4	1719.0	1845.5	1783.9	1562.0
82.5°	264.3	486.8	465.3	542.1	654.5	861.2	1037.4	1202.3	1351.4	1342.9	1258.8
85°	137.2	266.5	303.3	343.3	399.8	473.8	540.4	588.4	650.6	760.1	797.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	40.7	29.4	80.8	115.2
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: P153506

CATALOG NUMBER: TLM-F02-LED-E1-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	592.4	592.4	592.4	592.4	592.4	592.4	592.4
2.5°	585.6	586.2	585.0	585.0	585.6	585.6	584.5
5°	584.5	584.5	583.4	582.2	581.1	581.1	580.0
7.5°	597.5	597.5	593.5	591.8	589.0	586.7	585.6
10°	616.7	613.3	608.8	605.4	600.9	595.8	593.0
12.5°	635.9	630.8	625.1	620.1	614.4	608.8	605.9
15°	667.5	660.7	653.4	647.2	639.3	630.8	627.4
17.5°	716.1	705.3	695.7	686.7	672.6	666.4	659.6
20°	780.4	764.6	752.2	737.0	719.4	713.8	705.3
22.5°	858.4	844.8	820.0	808.7	791.2	782.7	784.4
25°	977.0	959.5	930.7	919.9	918.2	899.6	890.6
27.5°	1131.7	1132.8	1106.3	1077.5	1061.7	1032.3	995.0
30°	1351.9	1336.7	1305.6	1276.3	1239.0	1183.6	1121.5
32.5°	1618.5	1584.6	1533.2	1478.4	1412.4	1327.1	1240.1
35°	1878.8	1819.5	1737.6	1646.2	1550.7	1444.5	1321.4
37.5°	2107.5	2015.5	1892.9	1787.9	1652.9	1520.2	1370.0
40°	2316.5	2202.4	2044.3	1908.2	1748.9	1578.4	1400.5
42.5°	2518.6	2374.1	2180.4	1996.3	1816.1	1617.3	1415.2
45°	2711.2	2524.9	2295.0	2075.9	1865.3	1642.8	1417.4
47.5°	2859.2	2655.9	2397.8	2133.5	1899.1	1662.0	1417.4
50°	2996.4	2766.5	2476.3	2178.7	1930.8	1675.0	1418.6
52.5°	3103.1	2844.5	2527.1	2210.9	1955.6	1684.6	1423.7
55°	3180.5	2895.3	2561.0	2230.6	1973.7	1698.1	1434.9
57.5°	3234.7	2928.6	2579.6	2248.1	1995.7	1721.8	1466.6
60°	3260.7	2990.2	2610.7	2283.2	2033.5	1772.1	1529.8
62.5°	3240.9	3085.6	2699.3	2342.4	2086.1	1850.6	1630.9
63°	3232.4	3103.1	2723.6	2355.4	2097.9	1867.5	1665.9
65°	3166.4	3120.6	2823.6	2420.9	2154.4	1942.6	1763.6
67.5°	2961.4	3051.7	2907.7	2531.6	2275.8	2125.0	1946.0
70°	2696.0	2949.5	2892.5	2545.7	2353.2	2274.7	2061.2
72.5°	2378.0	2640.6	2587.5	2357.7	2267.9	2276.4	2031.3
75°	1871.5	2068.6	2033.5	1952.8	1970.9	2033.0	1739.9
77.5°	1499.3	1472.8	1392.0	1397.7	1502.1	1575.0	1252.5
80°	1224.9	991.6	886.6	889.4	1071.8	1147.5	797.9
82.5°	1165.6	938.0	764.1	667.5	779.9	751.1	416.8
85°	830.1	831.8	690.1	560.8	543.3	461.9	259.8
87.5°	196.5	157.6	112.4	83.6	88.1	58.2	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)