

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: P153496

Luminaire Tested: **TLM-F01-LED-E1-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153496
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-SLR-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (7) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2356.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
CIE Type: Direct

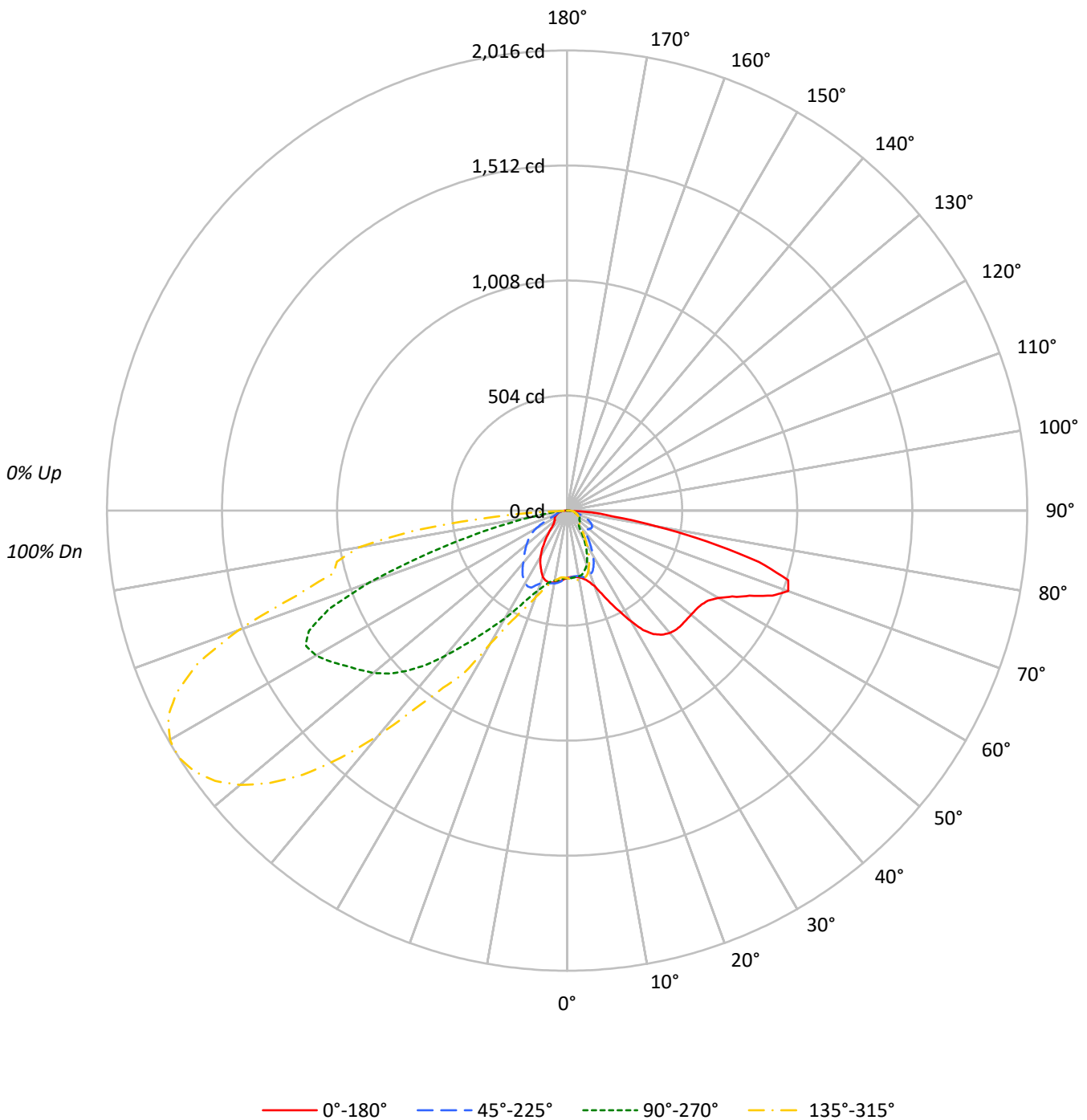
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F01-LED-E1-SLR-7050

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°	18755	18755	18755	18755
5°	18432	18756	19652	19239
10°	19063	18825	20529	20008
15°	20563	18321	21232	21619
20°	23765	16892	20928	25093
25°	31110	14259	19093	30733
30°	41001	11047	17028	39883
35°	51069	7552	13643	51618
40°	57875	6604	9985	68636
45°	63460	6931	7513	88899
50°	69869	7092	7171	108975
55°	79205	7264	7330	130757
60°	96863	7978	7978	160800
65°	132112	8285	8420	187112
70°	190792	8775	8886	170298
75°	212811	9247	9810	110234
80°	145487	9991	11231	53528
85°	94370	12278	13513	26081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	1.2
10°-20°	89.8	3.8
20°-30°	159.5	6.8
30°-40°	251.2	10.7
40°-50°	369.7	15.7
50°-60°	491.1	20.8
60°-70°	540.9	23.0
70°-80°	339.4	14.4
80°-90°	86.4	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°	278.2	11.8
0°-40°	529.4	22.5
0°-60°	1390.2	59.0
0°-90°	2356.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2356.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	296	296	296	296	296	
5°	290	295	309	303	290	28
15°	314	280	324	330	314	91
25°	445	204	273	440	445	210
35°	661	98	176	668	661	409
45°	709	77	84	993	709	548
55°	718	66	66	1184	718	651
65°	882	55	56	1249	882	888
75°	870	38	40	451	870	851
85°	130	17	19	36	130	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°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	292.2	293.1	292.8	292.8	293.4	293.1	293.1	293.4	293.4	294.2	295.3
5°	290.0	289.7	289.1	289.7	289.7	289.7	288.6	289.4	289.7	290.3	290.3
7.5°	292.8	292.0	290.8	291.1	291.1	290.5	289.7	290.0	289.7	289.7	289.4
10°	296.5	294.5	293.1	293.1	293.1	292.5	291.1	292.0	292.0	291.7	292.0
12.5°	303.0	300.7	299.0	298.5	298.5	297.6	296.5	297.6	297.0	297.0	296.5
15°	313.7	311.2	309.2	307.5	307.8	307.8	306.4	305.5	304.4	303.0	300.1
17.5°	329.8	327.0	324.4	323.0	323.3	321.3	317.4	313.4	308.1	302.7	296.8
20°	352.7	351.8	348.4	347.0	343.6	338.8	327.8	318.5	308.1	297.9	287.7
22.5°	392.2	388.2	384.9	379.5	368.2	354.9	336.6	320.2	303.8	289.4	275.9
25°	445.3	438.2	421.6	405.2	382.0	358.3	333.5	312.3	292.0	273.0	256.4
27.5°	497.5	476.1	446.4	416.8	382.9	351.8	320.8	295.6	271.9	251.3	232.9
30°	560.8	524.6	479.2	432.3	384.3	342.5	305.2	275.9	248.5	226.7	207.5
32.5°	620.1	567.8	508.2	446.7	387.4	333.7	287.4	254.1	225.9	198.5	179.6
35°	660.7	593.0	520.7	448.1	379.8	317.1	265.1	225.9	197.7	172.2	149.9
37.5°	685.0	604.0	521.2	437.9	362.0	294.5	236.9	197.9	172.0	147.7	130.2
40°	700.2	606.5	513.9	423.3	339.4	266.0	208.7	173.7	149.9	130.4	116.9
42.5°	707.6	602.6	502.0	404.6	316.5	240.6	188.9	155.9	135.2	121.4	111.2
45°	708.7	595.5	489.3	387.7	296.2	222.2	175.3	148.5	131.6	120.0	109.8
47.5°	708.7	589.3	479.2	375.3	282.9	214.3	174.2	151.6	135.0	122.0	109.8
50°	709.3	587.3	474.9	369.0	278.4	218.5	183.8	161.2	142.3	125.4	109.6
52.5°	711.8	589.8	478.3	373.8	286.6	235.5	201.9	175.6	151.9	129.3	109.6
55°	717.5	598.3	492.7	390.5	308.6	261.2	223.6	191.2	159.5	131.0	107.9
57.5°	733.3	619.8	519.0	422.7	346.2	290.8	243.4	202.2	162.4	129.6	104.5
60°	764.9	662.4	563.9	467.9	386.0	316.2	255.0	203.9	159.8	125.1	99.1
62.5°	815.5	711.3	618.4	517.0	421.3	330.4	256.4	199.6	153.0	116.9	91.2
63°	833.0	723.4	629.9	526.3	425.8	331.5	255.3	197.9	151.3	114.6	90.1
65°	881.8	774.5	670.0	559.1	438.5	331.8	249.0	189.5	143.4	105.9	82.2
67.5°	973.0	841.7	720.6	584.8	443.0	322.7	233.2	173.7	126.8	92.3	72.3
70°	1030.6	879.3	740.1	585.3	429.7	297.0	205.8	148.0	105.6	76.5	62.1
72.5°	1015.6	842.3	688.7	532.5	372.4	248.2	165.5	116.3	82.4	61.3	51.7
75°	869.9	701.1	561.9	412.5	281.5	182.4	121.1	83.0	61.0	48.0	43.2
77.5°	626.3	504.6	402.9	293.9	189.7	118.0	80.5	59.3	46.3	39.5	35.6
80°	399.0	295.9	246.5	176.8	111.0	73.1	55.3	44.9	38.1	33.0	30.5
82.5°	208.4	146.0	118.6	90.4	61.6	48.3	40.7	36.7	31.3	27.4	26.0
85°	129.9	86.1	63.8	44.6	30.8	27.7	25.4	24.8	22.3	19.8	18.9
87.5°	14.7	13.3	13.8	8.8	6.5	7.1	6.8	9.0	8.8	6.5	6.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	294.2	294.8	294.8	295.6	295.6	296.2	296.8	296.8	297.3	297.6	298.2
5°	290.8	290.8	290.8	292.0	292.2	293.9	294.5	295.1	295.6	297.6	298.7
7.5°	290.0	288.9	289.4	289.4	290.3	291.7	293.1	293.9	294.8	297.3	299.0
10°	291.7	290.8	290.0	290.0	290.3	290.8	292.0	292.8	293.4	295.9	297.3
12.5°	296.2	294.2	292.5	291.1	290.0	289.7	289.1	289.4	290.0	291.4	293.4
15°	297.0	293.4	289.7	286.0	283.2	281.5	280.1	279.5	279.5	280.4	282.6
17.5°	291.4	285.2	279.8	275.0	271.9	268.8	267.4	266.3	265.7	266.8	267.1
20°	279.3	271.9	264.6	258.9	253.3	252.4	250.2	250.7	251.3	253.0	253.8
22.5°	262.6	253.8	244.8	238.9	234.4	230.4	227.9	229.0	229.8	231.5	232.4
25°	242.3	229.6	220.0	214.0	209.2	205.8	203.0	204.1	203.0	205.0	208.1
27.5°	218.3	203.3	193.1	186.4	183.0	180.1	177.3	177.3	180.1	180.1	182.7
30°	189.2	178.2	164.9	157.8	153.6	151.9	151.6	151.1	153.0	154.2	157.0
32.5°	161.8	148.2	135.5	128.8	125.1	123.1	123.4	123.7	124.5	126.2	130.7
35°	134.1	122.3	113.2	105.6	101.9	98.3	98.3	97.7	98.5	100.5	105.9
37.5°	116.3	105.9	98.8	92.9	89.2	87.0	85.0	84.1	84.1	85.0	87.0
40°	106.4	98.8	92.3	87.2	83.9	81.9	80.8	79.9	79.3	79.3	79.6
42.5°	101.9	94.0	87.5	83.0	80.5	79.3	79.1	78.8	77.9	77.6	77.4
45°	99.7	90.6	83.3	79.6	77.6	77.1	77.4	77.4	77.1	76.5	75.4
47.5°	98.0	87.5	80.2	76.8	76.0	76.0	76.0	76.0	75.7	75.4	74.5
50°	95.2	82.7	74.8	72.3	71.7	71.7	72.0	72.0	72.6	72.0	71.4
52.5°	92.0	78.2	70.3	68.0	67.8	67.5	67.5	67.5	67.8	67.8	67.5
55°	88.7	74.8	68.0	66.4	66.6	66.4	66.1	65.8	65.8	65.5	64.9
57.5°	85.3	72.0	66.4	65.2	65.5	65.5	64.9	64.4	64.1	63.2	62.7
60°	80.2	68.0	63.0	62.4	63.2	63.2	63.2	63.0	63.0	62.7	61.3
62.5°	73.4	62.4	58.4	58.7	59.0	59.6	59.6	59.6	59.6	59.0	57.6
63°	72.0	61.3	57.6	57.6	58.4	58.4	58.7	58.4	58.7	58.2	56.5
65°	66.4	57.6	54.8	55.1	55.6	55.6	55.6	55.3	55.3	54.5	53.6
67.5°	59.9	53.1	51.4	51.7	52.0	52.5	52.2	52.2	52.5	52.0	51.1
70°	52.5	48.3	47.2	47.4	47.7	47.7	47.4	47.4	47.7	47.2	46.3
72.5°	46.9	45.2	44.3	44.3	43.8	43.8	43.2	42.9	42.6	42.6	41.8
75°	39.5	39.2	39.5	40.1	39.5	39.0	38.7	37.8	37.3	37.3	37.0
77.5°	33.9	33.9	34.4	35.3	35.6	35.6	34.7	33.3	33.0	33.0	33.0
80°	29.4	28.8	28.8	29.6	30.5	30.2	28.8	27.4	27.4	28.8	29.1
82.5°	25.7	25.7	24.8	25.1	24.8	24.6	23.2	22.3	22.0	23.2	24.3
85°	20.3	20.6	20.3	20.0	19.8	18.9	17.8	16.9	16.7	17.8	19.5
87.5°	8.2	7.9	7.6	7.9	7.6	8.2	7.9	7.3	7.1	7.9	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



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	298.5	299.0	299.6	299.6	300.1	299.9	300.1	300.4	300.4	300.7	300.7
5°	300.1	301.0	302.1	303.3	303.5	304.4	305.2	304.7	305.5	306.6	306.6
7.5°	300.7	302.7	303.5	305.2	305.5	306.6	308.6	307.2	308.9	309.7	310.0
10°	299.9	301.8	303.3	305.2	306.1	308.1	310.0	309.5	311.4	312.9	313.1
12.5°	294.8	296.8	299.9	302.7	304.9	308.1	311.7	310.6	313.4	315.1	316.0
15°	284.9	286.9	290.3	294.8	299.0	303.8	308.6	309.5	312.3	314.3	315.1
17.5°	269.4	271.9	275.6	280.4	285.7	293.9	300.1	303.3	307.2	308.3	309.7
20°	255.0	257.5	259.8	262.6	266.5	274.5	282.6	288.9	293.9	298.2	299.3
22.5°	235.8	238.0	240.9	243.1	245.9	251.6	258.4	265.4	273.3	275.9	278.7
25°	212.6	214.0	218.0	219.4	221.4	226.2	231.5	236.6	244.2	249.6	251.0
27.5°	187.8	189.2	192.9	193.7	196.2	200.8	204.7	206.7	213.7	219.4	223.9
30°	159.0	162.6	167.2	167.7	170.5	173.4	177.0	179.0	185.5	191.4	197.1
32.5°	134.1	137.8	141.5	143.7	145.1	147.4	151.1	153.0	159.3	164.6	170.3
35°	108.7	113.2	117.2	120.3	121.4	124.2	127.1	129.0	135.5	140.3	144.3
37.5°	89.5	92.9	97.1	100.2	103.3	105.3	108.7	111.5	115.5	118.0	122.3
40°	80.2	81.9	84.1	86.7	89.2	91.5	94.0	96.3	98.8	102.2	105.0
42.5°	77.1	77.4	77.4	78.2	79.6	80.8	83.0	84.7	86.4	88.9	90.4
45°	74.8	74.5	74.0	73.4	73.7	74.3	75.7	76.8	78.8	79.9	80.2
47.5°	73.7	72.6	71.4	70.6	70.3	70.6	71.7	72.8	74.0	74.8	75.1
50°	70.0	69.2	67.5	66.4	65.8	66.4	67.8	68.3	69.5	70.3	70.6
52.5°	66.4	65.2	64.1	63.0	63.0	63.2	64.4	65.5	66.6	66.9	67.5
55°	64.1	62.4	61.3	60.4	59.9	60.7	61.6	63.0	64.4	64.7	65.2
57.5°	61.8	60.1	59.0	58.2	57.6	58.4	59.3	61.3	63.0	63.0	63.0
60°	60.4	59.0	57.3	56.5	55.6	56.5	57.6	59.6	61.3	61.0	60.7
62.5°	56.5	55.1	54.2	54.2	53.4	54.8	55.9	58.2	58.4	57.9	57.3
63°	55.3	54.2	53.6	53.6	53.1	54.5	55.6	57.6	57.6	57.0	56.5
65°	52.5	51.7	51.1	51.7	51.7	53.1	53.4	54.8	54.5	53.6	53.4
67.5°	50.3	49.7	49.1	49.1	49.1	49.4	49.7	50.3	50.0	49.7	50.0
70°	46.6	46.3	45.7	45.7	45.5	45.5	45.5	45.7	45.7	46.0	46.3
72.5°	42.1	41.5	41.5	41.8	41.2	41.5	41.8	41.5	42.1	42.1	42.4
75°	37.0	36.7	37.3	37.8	37.6	37.6	37.8	37.8	38.1	38.1	38.4
77.5°	33.0	33.3	33.6	34.2	34.4	34.4	34.4	34.2	34.4	34.4	34.7
80°	29.4	29.9	30.5	31.1	31.3	31.3	31.3	31.1	31.1	31.1	31.1
82.5°	26.5	27.4	28.0	28.2	28.2	28.2	28.2	28.2	28.2	27.7	27.1
85°	22.3	24.0	24.0	24.3	23.4	22.9	22.3	22.6	22.9	21.7	21.5
87.5°	11.3	11.3	11.9	12.4	12.7	12.7	14.4	13.6	13.3	13.0	12.4
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	301.0	300.7	301.3	300.7	301.0	301.3	300.7	301.6	302.1	301.3	300.4
5°	307.2	307.2	308.6	309.2	309.5	311.2	310.3	310.9	311.4	311.2	311.4
7.5°	311.2	312.3	313.7	315.1	315.4	316.8	316.5	317.4	317.9	319.3	319.3
10°	314.5	316.0	317.9	319.3	320.8	321.9	322.5	324.1	324.4	325.6	325.6
12.5°	317.7	319.3	321.3	323.6	325.0	327.3	327.5	330.1	330.9	331.2	330.4
15°	317.1	319.1	321.3	323.9	326.4	329.2	330.9	333.5	334.9	335.4	334.0
17.5°	311.7	313.4	316.2	319.6	322.7	326.4	329.5	333.2	335.4	336.0	335.7
20°	301.3	302.4	306.1	310.6	314.3	319.9	324.4	330.1	333.7	336.6	337.4
22.5°	280.7	283.5	287.2	292.2	297.6	304.7	311.2	319.3	327.3	334.0	340.8
25°	255.8	260.9	266.5	273.3	279.8	287.2	294.5	303.8	315.4	329.5	345.6
27.5°	230.7	239.4	246.5	255.3	262.9	270.2	278.4	288.6	301.3	318.2	338.8
30°	205.3	215.2	222.8	232.9	243.1	253.0	261.2	271.9	284.3	301.6	324.1
32.5°	178.2	188.1	197.1	206.4	217.7	229.6	239.4	252.7	266.0	283.8	306.6
35°	150.2	159.0	166.6	176.5	188.9	201.6	214.6	229.8	244.2	262.9	287.2
37.5°	125.9	132.1	139.5	148.2	157.8	171.4	186.1	204.1	220.5	240.9	265.7
40°	105.9	109.3	113.5	120.8	129.6	142.9	157.3	176.5	196.2	218.5	242.5
42.5°	90.4	92.0	93.2	98.0	105.0	118.0	131.9	150.5	172.2	196.5	220.8
45°	80.2	81.0	81.3	83.9	88.9	100.2	114.6	130.4	151.3	175.1	200.5
47.5°	75.4	76.2	76.8	77.4	80.5	89.2	102.2	117.2	136.4	158.1	184.1
50°	71.4	72.3	73.1	72.8	74.3	79.9	90.9	104.8	122.8	142.9	168.6
52.5°	67.5	68.0	68.0	68.0	68.9	72.6	80.5	93.2	109.8	128.8	154.2
55°	65.2	65.8	66.1	66.4	66.6	68.6	74.5	84.7	99.1	116.6	139.5
57.5°	63.0	63.2	63.8	64.1	64.7	65.8	69.5	76.8	88.9	103.6	122.8
60°	61.0	61.6	62.7	63.0	63.5	63.8	65.5	70.0	77.9	89.2	104.8
62.5°	57.9	58.7	59.9	60.1	60.7	61.0	61.3	63.8	67.5	74.3	85.8
63°	57.0	57.9	59.3	59.6	59.9	59.9	60.1	61.8	65.2	71.2	79.6
65°	53.9	55.1	55.9	56.2	56.5	56.5	56.2	56.8	57.0	59.6	64.7
67.5°	50.5	51.4	52.0	52.2	52.0	52.2	52.0	51.4	50.8	51.4	53.6
70°	47.2	47.7	47.7	48.0	48.3	48.6	48.0	47.4	46.9	46.6	48.0
72.5°	43.2	43.8	43.8	44.0	44.0	44.6	44.6	44.3	44.3	44.6	44.9
75°	39.2	39.8	39.5	40.1	40.1	40.9	40.9	41.2	41.8	41.5	41.2
77.5°	35.6	35.9	35.9	36.1	36.4	37.8	38.7	39.0	39.0	38.4	37.8
80°	31.6	31.6	31.1	30.8	31.1	32.5	34.2	34.4	35.3	35.0	35.3
82.5°	26.5	25.4	24.6	24.6	25.1	26.0	26.5	27.1	27.7	27.7	28.2
85°	20.3	19.2	18.4	18.6	19.5	19.8	19.5	19.5	20.6	21.5	20.6
87.5°	12.1	11.0	10.4	9.6	9.9	10.7	10.4	9.6	9.9	7.9	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



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	301.0	300.7	300.1	299.3	299.0	298.5	298.7	297.9	297.3	296.8	295.9
5°	311.4	311.4	309.7	309.7	308.9	308.6	306.6	305.8	304.1	304.7	302.7
7.5°	318.8	319.6	317.7	317.4	316.2	316.0	313.4	312.6	311.2	310.6	308.9
10°	324.1	324.1	321.6	319.6	318.2	316.8	314.3	313.1	312.0	312.3	311.2
12.5°	328.4	326.4	322.7	319.9	317.9	316.5	314.5	313.7	313.4	315.4	315.7
15°	331.8	328.9	324.4	322.5	320.8	320.5	320.5	321.3	323.3	327.0	329.8
17.5°	333.7	332.1	329.8	329.2	332.1	333.7	336.0	338.5	341.4	346.5	349.6
20°	337.4	338.5	340.2	342.5	347.0	351.3	354.1	357.7	361.1	367.3	372.4
22.5°	347.0	353.5	358.9	363.4	370.2	376.1	379.8	384.9	387.4	391.6	399.5
25°	359.4	372.7	384.0	393.6	404.1	410.3	415.3	421.8	425.8	432.9	439.9
27.5°	355.8	374.7	391.6	409.4	423.8	439.9	451.2	461.9	468.7	479.2	488.5
30°	344.5	367.1	389.9	413.4	436.2	459.4	480.9	500.3	515.3	530.3	545.5
32.5°	329.2	355.2	383.2	412.0	441.9	474.1	503.7	533.1	557.9	579.7	600.9
35°	311.7	341.1	370.2	405.7	442.7	483.7	524.9	565.6	603.4	641.8	667.8
37.5°	290.8	320.8	353.2	394.2	437.7	488.2	540.7	593.8	647.4	699.1	744.0
40°	268.5	299.0	333.2	377.5	426.6	485.4	550.9	622.3	696.0	770.8	830.4
42.5°	248.8	280.1	317.4	362.3	415.6	481.7	559.1	646.9	737.0	829.6	917.1
45°	229.6	264.0	303.3	351.5	410.8	484.5	571.2	669.8	773.7	886.0	992.8
47.5°	212.3	247.3	285.5	338.3	403.8	485.9	583.1	692.6	808.4	930.1	1056.9
50°	196.8	230.7	268.2	321.3	392.8	485.1	593.8	713.2	838.3	964.8	1106.3
52.5°	181.6	216.0	254.4	304.9	379.2	480.3	598.9	730.2	866.0	999.8	1146.1
55°	166.6	200.5	239.2	289.4	361.4	467.9	598.3	741.2	888.0	1032.9	1184.5
57.5°	149.1	181.3	219.1	272.2	342.5	448.7	589.8	746.3	906.9	1065.6	1230.5
60°	127.3	157.6	194.0	247.1	317.7	424.1	572.1	743.5	917.9	1089.9	1269.8
62.5°	100.5	126.8	160.1	212.1	286.6	388.8	538.7	717.8	900.4	1086.5	1288.1
63°	94.9	119.7	152.2	203.6	273.3	379.2	528.9	707.6	892.0	1079.5	1285.6
65°	76.2	92.3	118.3	164.3	228.7	332.1	479.7	655.4	846.5	1029.8	1248.9
67.5°	58.4	66.6	80.5	112.7	161.8	261.2	388.5	555.4	734.7	906.9	1130.6
70°	50.0	53.6	59.6	74.8	102.8	164.9	272.8	414.2	569.5	718.9	919.9
72.5°	45.5	47.2	50.3	56.8	70.6	98.8	173.9	269.7	387.4	512.5	667.8
75°	41.8	43.2	45.7	49.1	54.2	65.8	99.1	164.9	251.9	336.6	450.6
77.5°	38.1	39.0	41.8	44.9	48.3	54.2	65.5	94.9	144.8	198.5	271.6
80°	35.0	34.4	36.4	41.5	44.9	48.3	51.7	61.6	82.4	108.7	146.8
82.5°	28.0	28.5	30.2	35.3	36.7	35.9	36.4	38.1	46.0	50.3	75.1
85°	18.9	17.5	17.2	17.8	17.8	16.9	16.9	16.7	18.4	20.9	35.9
87.5°	5.1	2.5	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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CATALOG NUMBER: TLM-F01-LED-E1-SLR-7050

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	295.3	295.1	295.3	293.9	293.9	293.7	293.4	292.8	292.8	291.7	292.5
5°	301.0	300.4	299.3	297.6	296.8	295.6	295.6	294.5	293.7	292.5	292.8
7.5°	307.5	307.8	305.8	304.4	303.8	302.7	303.0	301.3	301.6	300.7	300.1
10°	311.2	311.2	311.7	311.4	312.0	312.0	312.9	311.7	311.2	310.3	310.3
12.5°	317.1	318.2	320.5	320.5	322.2	322.7	323.0	323.6	322.5	321.9	319.9
15°	331.8	334.6	336.6	339.4	342.8	343.9	343.9	342.8	342.2	341.4	337.7
17.5°	356.1	362.3	364.0	368.5	369.0	370.5	374.4	372.1	370.7	364.8	363.7
20°	380.9	388.8	396.7	402.4	405.2	410.8	411.7	410.5	404.9	399.3	396.7
22.5°	410.8	422.7	431.7	440.5	444.7	447.5	453.8	452.3	447.8	439.3	436.0
25°	453.2	467.9	477.5	488.2	493.8	496.7	502.9	502.9	498.1	495.5	495.3
27.5°	506.6	524.6	540.4	544.1	558.8	562.2	568.1	568.1	563.6	560.5	575.4
30°	565.8	584.8	612.2	630.5	648.3	665.8	665.5	666.6	672.0	674.8	681.3
32.5°	625.1	648.6	677.7	717.5	755.6	788.1	830.1	857.0	848.8	825.9	816.9
35°	697.1	723.1	758.4	798.5	868.3	910.3	930.7	945.1	946.7	949.9	956.3
37.5°	777.3	820.8	861.8	907.2	945.9	997.0	1044.2	1082.0	1090.8	1108.5	1098.4
40°	878.7	927.3	970.2	1028.9	1080.9	1142.4	1209.9	1261.9	1282.8	1276.0	1225.2
42.5°	984.9	1045.0	1095.3	1164.4	1231.9	1313.2	1383.0	1455.6	1468.5	1416.3	1340.4
45°	1082.6	1157.1	1219.5	1291.5	1374.0	1471.4	1564.5	1639.1	1636.6	1547.0	1445.4
47.5°	1170.4	1261.9	1338.1	1431.8	1520.5	1636.6	1743.6	1798.6	1766.2	1660.3	1535.7
50°	1242.9	1357.0	1451.0	1545.9	1658.6	1798.3	1901.4	1932.5	1869.8	1754.6	1623.6
52.5°	1301.4	1444.5	1550.1	1659.4	1801.7	1948.8	2037.5	2025.9	1944.9	1826.6	1696.1
55°	1350.8	1511.5	1637.4	1766.4	1942.9	2078.4	2137.5	2106.4	1993.2	1873.2	1745.8
57.5°	1401.9	1576.4	1717.6	1867.2	2063.8	2180.1	2212.8	2149.0	2016.0	1891.0	1767.3
60°	1453.0	1630.6	1788.5	1955.3	2155.2	2263.1	2254.1	2158.6	2009.3	1878.0	1752.9
62.5°	1487.5	1662.8	1829.7	2009.5	2223.9	2305.5	2250.1	2124.5	1970.0	1826.9	1710.0
63°	1488.3	1663.9	1832.2	2013.2	2231.5	2306.9	2242.5	2112.3	1957.6	1816.4	1697.3
65°	1470.5	1642.8	1809.6	1996.6	2225.0	2274.4	2176.7	2040.6	1886.7	1744.1	1631.2
67.5°	1379.6	1555.2	1702.6	1878.8	2108.7	2122.8	2000.5	1890.7	1752.3	1604.6	1486.6
70°	1196.4	1342.3	1486.9	1634.0	1826.9	1824.3	1709.4	1653.5	1532.4	1364.1	1269.5
72.5°	951.5	1082.6	1184.2	1282.8	1409.8	1384.1	1310.1	1325.7	1247.2	1121.5	1065.3
75°	706.5	850.5	900.2	940.3	993.9	994.2	1014.5	1058.6	1057.4	987.7	916.8
77.5°	463.4	620.9	637.6	669.8	734.1	821.7	912.0	1009.1	1033.4	978.4	873.6
80°	258.4	422.1	402.9	430.6	500.1	618.9	752.2	859.5	922.7	892.0	781.0
82.5°	132.1	243.4	232.7	271.1	327.3	430.6	518.7	601.1	675.7	671.4	629.4
85°	68.6	133.3	151.6	171.7	199.9	236.9	270.2	294.2	325.3	380.1	398.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	20.3	14.7	40.4	57.6
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: P153496

CATALOG NUMBER: TLM-F01-LED-E1-SLR-7050

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	296.2	296.2	296.2	296.2	296.2	296.2	296.2
2.5°	292.8	293.1	292.5	292.5	292.8	292.8	292.2
5°	292.2	292.2	291.7	291.1	290.5	290.5	290.0
7.5°	298.7	298.7	296.8	295.9	294.5	293.4	292.8
10°	308.3	306.6	304.4	302.7	300.4	297.9	296.5
12.5°	317.9	315.4	312.6	310.0	307.2	304.4	303.0
15°	333.7	330.4	326.7	323.6	319.6	315.4	313.7
17.5°	358.0	352.7	347.9	343.3	336.3	333.2	329.8
20°	390.2	382.3	376.1	368.5	359.7	356.9	352.7
22.5°	429.2	422.4	410.0	404.3	395.6	391.3	392.2
25°	488.5	479.7	465.3	460.0	459.1	449.8	445.3
27.5°	565.8	566.4	553.1	538.7	530.8	516.2	497.5
30°	676.0	668.3	652.8	638.1	619.5	591.8	560.8
32.5°	809.2	792.3	766.6	739.2	706.2	663.5	620.1
35°	939.4	909.8	868.8	823.1	775.4	722.3	660.7
37.5°	1053.8	1007.7	946.5	893.9	826.5	760.1	685.0
40°	1158.2	1101.2	1022.1	954.1	874.5	789.2	700.2
42.5°	1259.3	1187.0	1090.2	998.1	908.1	808.7	707.6
45°	1355.6	1262.4	1147.5	1037.9	932.6	821.4	708.7
47.5°	1429.6	1327.9	1198.9	1066.8	949.6	831.0	708.7
50°	1498.2	1383.3	1238.1	1089.3	965.4	837.5	709.3
52.5°	1551.6	1422.2	1263.6	1105.4	977.8	842.3	711.8
55°	1590.2	1447.7	1280.5	1115.3	986.8	849.1	717.5
57.5°	1617.3	1464.3	1289.8	1124.1	997.9	860.9	733.3
60°	1630.3	1495.1	1305.3	1141.6	1016.8	886.0	764.9
62.5°	1620.5	1542.8	1349.7	1171.2	1043.0	925.3	815.5
63°	1616.2	1551.6	1361.8	1177.7	1049.0	933.8	833.0
65°	1583.2	1560.3	1411.8	1210.5	1077.2	971.3	881.8
67.5°	1480.7	1525.9	1453.9	1265.8	1137.9	1062.5	973.0
70°	1348.0	1474.8	1446.2	1272.9	1176.6	1137.3	1030.6
72.5°	1189.0	1320.3	1293.8	1178.8	1134.0	1138.2	1015.6
75°	935.7	1034.3	1016.8	976.4	985.4	1016.5	869.9
77.5°	749.7	736.4	696.0	698.8	751.1	787.5	626.3
80°	612.4	495.8	443.3	444.7	535.9	573.8	399.0
82.5°	582.8	469.0	382.0	333.7	389.9	375.5	208.4
85°	415.1	415.9	345.0	280.4	271.6	231.0	129.9
87.5°	98.3	78.8	56.2	41.8	44.0	29.1	14.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)