

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: P153490

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153490
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-E01-LED-E1-SLR
Description: TALON MEDIUM LED SITE LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2782.5 lumens
Efficiency: N/A
Efficacy: 112.6 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

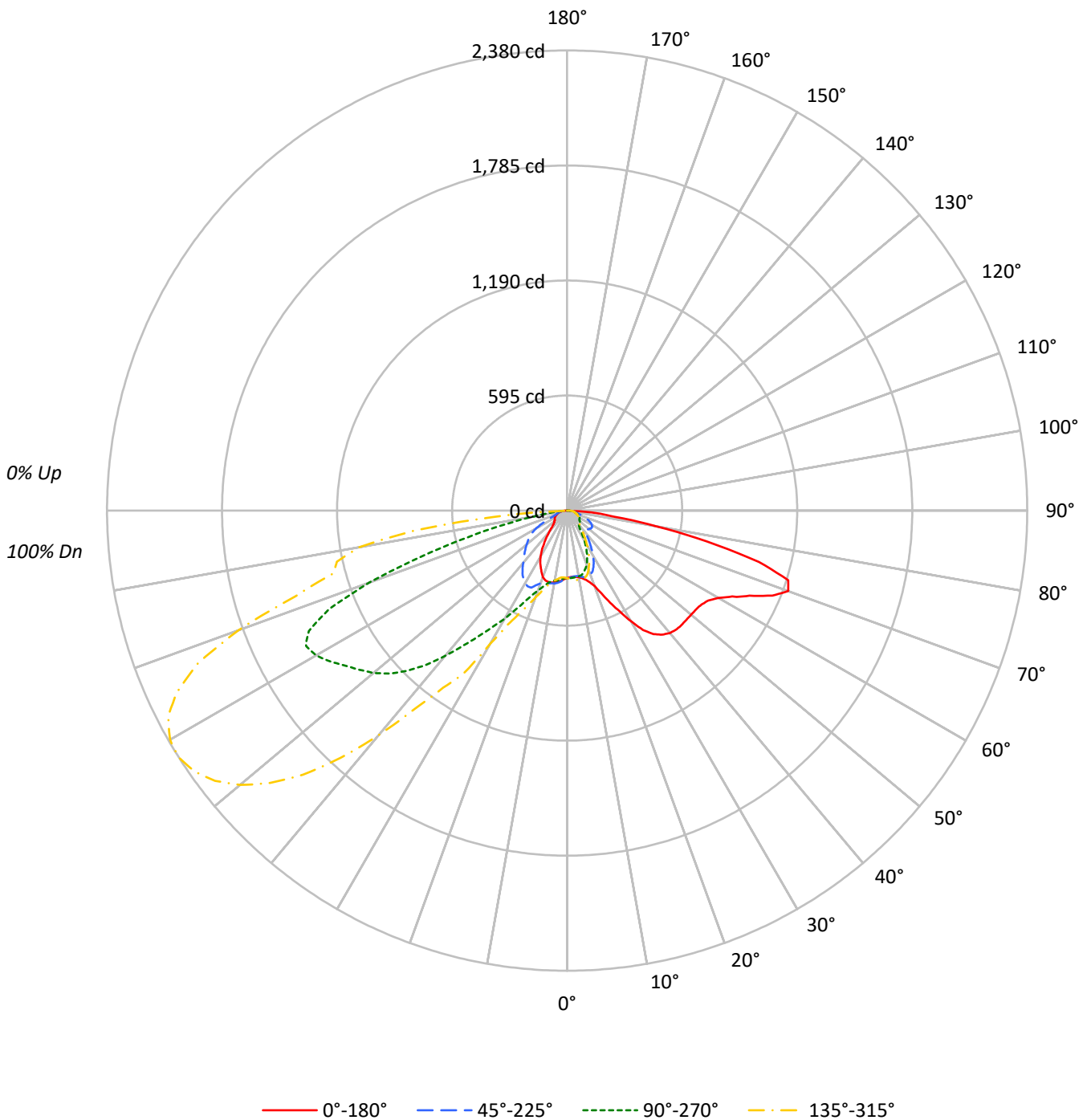
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	22142	22142	22142	22142
5°	21756	22138	23199	22710
10°	22503	22226	24239	23615
15°	24273	21632	25060	25519
20°	28051	19945	24709	29627
25°	36727	16837	22545	36280
30°	48400	13036	20106	47084
35°	60291	8912	16101	60932
40°	68331	7794	11795	81026
45°	74921	8175	8865	104946
50°	82477	8373	8471	128646
55°	93500	8577	8644	154358
60°	114351	9409	9409	189825
65°	155964	9783	9933	220881
70°	225244	10367	10497	201048
75°	251244	10935	11571	130148
80°	171740	11778	13236	63190
85°	111370	14530	15983	30730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	1.2
10°-20°	106.0	3.8
20°-30°	188.3	6.8
30°-40°	296.6	10.7
40°-50°	436.5	15.7
50°-60°	579.7	20.8
60°-70°	638.6	23.0
70°-80°	400.7	14.4
80°-90°	102.0	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°	328.4	11.8
0°-40°	625.0	22.5
0°-60°	1641.2	59.0
0°-90°	2782.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2782.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	350	350	350	350	350	
5°	342	348	365	357	342	33
15°	370	330	382	389	370	107
25°	526	241	323	519	526	248
35°	780	115	208	788	780	483
45°	837	91	99	1172	837	647
55°	847	78	78	1398	847	768
65°	1041	65	66	1474	1041	1048
75°	1027	45	47	532	1027	1004
85°	153	20	22	42	153	177
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°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	345.0	346.0	345.7	345.7	346.3	346.0	346.0	346.3	346.3	347.3	348.7
5°	342.3	342.0	341.3	342.0	342.0	342.0	340.7	341.7	342.0	342.7	342.7
7.5°	345.7	344.7	343.3	343.7	343.7	343.0	342.0	342.3	342.0	342.0	341.7
10°	350.0	347.7	346.0	346.0	346.0	345.3	343.7	344.7	344.7	344.3	344.7
12.5°	357.7	355.0	353.0	352.3	352.3	351.3	350.0	351.3	350.7	350.7	350.0
15°	370.3	367.3	365.0	363.0	363.3	363.3	361.7	360.7	359.3	357.7	354.3
17.5°	389.3	386.0	383.0	381.3	381.7	379.3	374.7	370.0	363.7	357.3	350.3
20°	416.3	415.3	411.3	409.7	405.7	400.0	387.0	376.0	363.7	351.7	339.7
22.5°	463.0	458.3	454.3	448.0	434.7	419.0	397.3	378.0	358.7	341.7	325.7
25°	525.7	517.3	497.7	478.3	451.0	423.0	393.7	368.7	344.7	322.3	302.7
27.5°	587.3	562.0	527.0	492.0	452.0	415.3	378.7	349.0	321.0	296.7	275.0
30°	662.0	619.3	565.7	510.3	453.7	404.3	360.3	325.7	293.3	267.7	245.0
32.5°	732.0	670.3	600.0	527.3	457.3	394.0	339.3	300.0	266.7	234.3	212.0
35°	780.0	700.0	614.7	529.0	448.3	374.3	313.0	266.7	233.3	203.3	177.0
37.5°	808.7	713.0	615.3	517.0	427.3	347.7	279.7	233.7	203.0	174.3	153.7
40°	826.7	716.0	606.7	499.7	400.7	314.0	246.3	205.0	177.0	154.0	138.0
42.5°	835.3	711.3	592.7	477.7	373.7	284.0	223.0	184.0	159.7	143.3	131.3
45°	836.7	703.0	577.7	457.7	349.7	262.3	207.0	175.3	155.3	141.7	129.7
47.5°	836.7	695.7	565.7	443.0	334.0	253.0	205.7	179.0	159.3	144.0	129.7
50°	837.3	693.3	560.7	435.7	328.7	258.0	217.0	190.3	168.0	148.0	129.3
52.5°	840.3	696.3	564.7	441.3	338.3	278.0	238.3	207.3	179.3	152.7	129.3
55°	847.0	706.3	581.7	461.0	364.3	308.3	264.0	225.7	188.3	154.7	127.3
57.5°	865.7	731.7	612.7	499.0	408.7	343.3	287.3	238.7	191.7	153.0	123.3
60°	903.0	782.0	665.7	552.3	455.7	373.3	301.0	240.7	188.7	147.7	117.0
62.5°	962.7	839.7	730.0	610.3	497.3	390.0	302.7	235.7	180.7	138.0	107.7
63°	983.3	854.0	743.7	621.3	502.7	391.3	301.3	233.7	178.7	135.3	106.3
65°	1041.0	914.3	791.0	660.0	517.7	391.7	294.0	223.7	169.3	125.0	97.0
67.5°	1148.7	993.7	850.7	690.3	523.0	381.0	275.3	205.0	149.7	109.0	85.3
70°	1216.7	1038.0	873.7	691.0	507.3	350.7	243.0	174.7	124.7	90.3	73.3
72.5°	1199.0	994.3	813.0	628.7	439.7	293.0	195.3	137.3	97.3	72.3	61.0
75°	1027.0	827.7	663.3	487.0	332.3	215.3	143.0	98.0	72.0	56.7	51.0
77.5°	739.3	595.7	475.7	347.0	224.0	139.3	95.0	70.0	54.7	46.7	42.0
80°	471.0	349.3	291.0	208.7	131.0	86.3	65.3	53.0	45.0	39.0	36.0
82.5°	246.0	172.3	140.0	106.7	72.7	57.0	48.0	43.3	37.0	32.3	30.7
85°	153.3	101.7	75.3	52.7	36.3	32.7	30.0	29.3	26.3	23.3	22.3
87.5°	17.3	15.7	16.3	10.3	7.7	8.3	8.0	10.7	10.3	7.7	8.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	347.3	348.0	348.0	349.0	349.0	349.7	350.3	350.3	351.0	351.3	352.0
5°	343.3	343.3	343.3	344.7	345.0	347.0	347.7	348.3	349.0	351.3	352.7
7.5°	342.3	341.0	341.7	341.7	342.7	344.3	346.0	347.0	348.0	351.0	353.0
10°	344.3	343.3	342.3	342.3	342.7	343.3	344.7	345.7	346.3	349.3	351.0
12.5°	349.7	347.3	345.3	343.7	342.3	342.0	341.3	341.7	342.3	344.0	346.3
15°	350.7	346.3	342.0	337.7	334.3	332.3	330.7	330.0	330.0	331.0	333.7
17.5°	344.0	336.7	330.3	324.7	321.0	317.3	315.7	314.3	313.7	315.0	315.3
20°	329.7	321.0	312.3	305.7	299.0	298.0	295.3	296.0	296.7	298.7	299.7
22.5°	310.0	299.7	289.0	282.0	276.7	272.0	269.0	270.3	271.3	273.3	274.3
25°	286.0	271.0	259.7	252.7	247.0	243.0	239.7	241.0	239.7	242.0	245.7
27.5°	257.7	240.0	228.0	220.0	216.0	212.7	209.3	209.3	212.7	212.7	215.7
30°	223.3	210.3	194.7	186.3	181.3	179.3	179.0	178.3	180.7	182.0	185.3
32.5°	191.0	175.0	160.0	152.0	147.7	145.3	145.7	146.0	147.0	149.0	154.3
35°	158.3	144.3	133.7	124.7	120.3	116.0	116.0	115.3	116.3	118.7	125.0
37.5°	137.3	125.0	116.7	109.7	105.3	102.7	100.3	99.3	99.3	100.3	102.7
40°	125.7	116.7	109.0	103.0	99.0	96.7	95.3	94.3	93.7	93.7	94.0
42.5°	120.3	111.0	103.3	98.0	95.0	93.7	93.3	93.0	92.0	91.7	91.3
45°	117.7	107.0	98.3	94.0	91.7	91.0	91.3	91.3	91.0	90.3	89.0
47.5°	115.7	103.3	94.7	90.7	89.7	89.7	89.7	89.7	89.3	89.0	88.0
50°	112.3	97.7	88.3	85.3	84.7	84.7	85.0	85.0	85.7	85.0	84.3
52.5°	108.7	92.3	83.0	80.3	80.0	79.7	79.7	79.7	80.0	80.0	79.7
55°	104.7	88.3	80.3	78.3	78.7	78.3	78.0	77.7	77.7	77.3	76.7
57.5°	100.7	85.0	78.3	77.0	77.3	77.3	76.7	76.0	75.7	74.7	74.0
60°	94.7	80.3	74.3	73.7	74.7	74.7	74.7	74.3	74.3	74.0	72.3
62.5°	86.7	73.7	69.0	69.3	69.7	70.3	70.3	70.3	70.3	69.7	68.0
63°	85.0	72.3	68.0	68.0	69.0	69.0	69.3	69.0	69.3	68.7	66.7
65°	78.3	68.0	64.7	65.0	65.7	65.7	65.7	65.3	65.3	64.3	63.3
67.5°	70.7	62.7	60.7	61.0	61.3	62.0	61.7	61.7	62.0	61.3	60.3
70°	62.0	57.0	55.7	56.0	56.3	56.3	56.0	56.0	56.3	55.7	54.7
72.5°	55.3	53.3	52.3	52.3	51.7	51.7	51.0	50.7	50.3	50.3	49.3
75°	46.7	46.3	46.7	47.3	46.7	46.0	45.7	44.7	44.0	44.0	43.7
77.5°	40.0	40.0	40.7	41.7	42.0	42.0	41.0	39.3	39.0	39.0	39.0
80°	34.7	34.0	34.0	35.0	36.0	35.7	34.0	32.3	32.3	34.0	34.3
82.5°	30.3	30.3	29.3	29.7	29.3	29.0	27.3	26.3	26.0	27.3	28.7
85°	24.0	24.3	24.0	23.7	23.3	22.3	21.0	20.0	19.7	21.0	23.0
87.5°	9.7	9.3	9.0	9.3	9.0	9.7	9.3	8.7	8.3	9.3	11.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	352.3	353.0	353.7	353.7	354.3	354.0	354.3	354.7	354.7	355.0	355.0
5°	354.3	355.3	356.7	358.0	358.3	359.3	360.3	359.7	360.7	362.0	362.0
7.5°	355.0	357.3	358.3	360.3	360.7	362.0	364.3	362.7	364.7	365.7	366.0
10°	354.0	356.3	358.0	360.3	361.3	363.7	366.0	365.3	367.7	369.3	369.7
12.5°	348.0	350.3	354.0	357.3	360.0	363.7	368.0	366.7	370.0	372.0	373.0
15°	336.3	338.7	342.7	348.0	353.0	358.7	364.3	365.3	368.7	371.0	372.0
17.5°	318.0	321.0	325.3	331.0	337.3	347.0	354.3	358.0	362.7	364.0	365.7
20°	301.0	304.0	306.7	310.0	314.7	324.0	333.7	341.0	347.0	352.0	353.3
22.5°	278.3	281.0	284.3	287.0	290.3	297.0	305.0	313.3	322.7	325.7	329.0
25°	251.0	252.7	257.3	259.0	261.3	267.0	273.3	279.3	288.3	294.7	296.3
27.5°	221.7	223.3	227.7	228.7	231.7	237.0	241.7	244.0	252.3	259.0	264.3
30°	187.7	192.0	197.3	198.0	201.3	204.7	209.0	211.3	219.0	226.0	232.7
32.5°	158.3	162.7	167.0	169.7	171.3	174.0	178.3	180.7	188.0	194.3	201.0
35°	128.3	133.7	138.3	142.0	143.3	146.7	150.0	152.3	160.0	165.7	170.3
37.5°	105.7	109.7	114.7	118.3	122.0	124.3	128.3	131.7	136.3	139.3	144.3
40°	94.7	96.7	99.3	102.3	105.3	108.0	111.0	113.7	116.7	120.7	124.0
42.5°	91.0	91.3	91.3	92.3	94.0	95.3	98.0	100.0	102.0	105.0	106.7
45°	88.3	88.0	87.3	86.7	87.0	87.7	89.3	90.7	93.0	94.3	94.7
47.5°	87.0	85.7	84.3	83.3	83.0	83.3	84.7	86.0	87.3	88.3	88.7
50°	82.7	81.7	79.7	78.3	77.7	78.3	80.0	80.7	82.0	83.0	83.3
52.5°	78.3	77.0	75.7	74.3	74.3	74.7	76.0	77.3	78.7	79.0	79.7
55°	75.7	73.7	72.3	71.3	70.7	71.7	72.7	74.3	76.0	76.3	77.0
57.5°	73.0	71.0	69.7	68.7	68.0	69.0	70.0	72.3	74.3	74.3	74.3
60°	71.3	69.7	67.7	66.7	65.7	66.7	68.0	70.3	72.3	72.0	71.7
62.5°	66.7	65.0	64.0	64.0	63.0	64.7	66.0	68.7	69.0	68.3	67.7
63°	65.3	64.0	63.3	63.3	62.7	64.3	65.7	68.0	68.0	67.3	66.7
65°	62.0	61.0	60.3	61.0	61.0	62.7	63.0	64.7	64.3	63.3	63.0
67.5°	59.3	58.7	58.0	58.0	58.0	58.3	58.7	59.3	59.0	58.7	59.0
70°	55.0	54.7	54.0	54.0	53.7	53.7	53.7	54.0	54.0	54.3	54.7
72.5°	49.7	49.0	49.0	49.3	48.7	49.0	49.3	49.0	49.7	49.7	50.0
75°	43.7	43.3	44.0	44.7	44.3	44.3	44.7	44.7	45.0	45.0	45.3
77.5°	39.0	39.3	39.7	40.3	40.7	40.7	40.7	40.3	40.7	40.7	41.0
80°	34.7	35.3	36.0	36.7	37.0	37.0	37.0	36.7	36.7	36.7	36.7
82.5°	31.3	32.3	33.0	33.3	33.3	33.3	33.3	33.3	33.3	32.7	32.0
85°	26.3	28.3	28.3	28.7	27.7	27.0	26.3	26.7	27.0	25.7	25.3
87.5°	13.3	13.3	14.0	14.7	15.0	15.0	17.0	16.0	15.7	15.3	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: P153490

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	355.3	355.0	355.7	355.0	355.3	355.7	355.0	356.0	356.7	355.7	354.7
5°	362.7	362.7	364.3	365.0	365.3	367.3	366.3	367.0	367.7	367.3	367.7
7.5°	367.3	368.7	370.3	372.0	372.3	374.0	373.7	374.7	375.3	377.0	377.0
10°	371.3	373.0	375.3	377.0	378.7	380.0	380.7	382.7	383.0	384.3	384.3
12.5°	375.0	377.0	379.3	382.0	383.7	386.3	386.7	389.7	390.7	391.0	390.0
15°	374.3	376.7	379.3	382.3	385.3	388.7	390.7	393.7	395.3	396.0	394.3
17.5°	368.0	370.0	373.3	377.3	381.0	385.3	389.0	393.3	396.0	396.7	396.3
20°	355.7	357.0	361.3	366.7	371.0	377.7	383.0	389.7	394.0	397.3	398.3
22.5°	331.3	334.7	339.0	345.0	351.3	359.7	367.3	377.0	386.3	394.3	402.3
25°	302.0	308.0	314.7	322.7	330.3	339.0	347.7	358.7	372.3	389.0	408.0
27.5°	272.3	282.7	291.0	301.3	310.3	319.0	328.7	340.7	355.7	375.7	400.0
30°	242.3	254.0	263.0	275.0	287.0	298.7	308.3	321.0	335.7	356.0	382.7
32.5°	210.3	222.0	232.7	243.7	257.0	271.0	282.7	298.3	314.0	335.0	362.0
35°	177.3	187.7	196.7	208.3	223.0	238.0	253.3	271.3	288.3	310.3	339.0
37.5°	148.7	156.0	164.7	175.0	186.3	202.3	219.7	241.0	260.3	284.3	313.7
40°	125.0	129.0	134.0	142.7	153.0	168.7	185.7	208.3	231.7	258.0	286.3
42.5°	106.7	108.7	110.0	115.7	124.0	139.3	155.7	177.7	203.3	232.0	260.7
45°	94.7	95.7	96.0	99.0	105.0	118.3	135.3	154.0	178.7	206.7	236.7
47.5°	89.0	90.0	90.7	91.3	95.0	105.3	120.7	138.3	161.0	186.7	217.3
50°	84.3	85.3	86.3	86.0	87.7	94.3	107.3	123.7	145.0	168.7	199.0
52.5°	79.7	80.3	80.3	80.3	81.3	85.7	95.0	110.0	129.7	152.0	182.0
55°	77.0	77.7	78.0	78.3	78.7	81.0	88.0	100.0	117.0	137.7	164.7
57.5°	74.3	74.7	75.3	75.7	76.3	77.7	82.0	90.7	105.0	122.3	145.0
60°	72.0	72.7	74.0	74.3	75.0	75.3	77.3	82.7	92.0	105.3	123.7
62.5°	68.3	69.3	70.7	71.0	71.7	72.0	72.3	75.3	79.7	87.7	101.3
63°	67.3	68.3	70.0	70.3	70.7	70.7	71.0	73.0	77.0	84.0	94.0
65°	63.7	65.0	66.0	66.3	66.7	66.7	66.3	67.0	67.3	70.3	76.3
67.5°	59.7	60.7	61.3	61.7	61.3	61.7	61.3	60.7	60.0	60.7	63.3
70°	55.7	56.3	56.3	56.7	57.0	57.3	56.7	56.0	55.3	55.0	56.7
72.5°	51.0	51.7	51.7	52.0	52.0	52.7	52.7	52.3	52.3	52.7	53.0
75°	46.3	47.0	46.7	47.3	47.3	48.3	48.3	48.7	49.3	49.0	48.7
77.5°	42.0	42.3	42.3	42.7	43.0	44.7	45.7	46.0	46.0	45.3	44.7
80°	37.3	37.3	36.7	36.3	36.7	38.3	40.3	40.7	41.7	41.3	41.7
82.5°	31.3	30.0	29.0	29.0	29.7	30.7	31.3	32.0	32.7	32.7	33.3
85°	24.0	22.7	21.7	22.0	23.0	23.3	23.0	23.0	24.3	25.3	24.3
87.5°	14.3	13.0	12.3	11.3	11.7	12.7	12.3	11.3	11.7	9.3	8.7
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: P153490

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	355.3	355.0	354.3	353.3	353.0	352.3	352.7	351.7	351.0	350.3	349.3
5°	367.7	367.7	365.7	365.7	364.7	364.3	362.0	361.0	359.0	359.7	357.3
7.5°	376.3	377.3	375.0	374.7	373.3	373.0	370.0	369.0	367.3	366.7	364.7
10°	382.7	382.7	379.7	377.3	375.7	374.0	371.0	369.7	368.3	368.7	367.3
12.5°	387.7	385.3	381.0	377.7	375.3	373.7	371.3	370.3	370.0	372.3	372.7
15°	391.7	388.3	383.0	380.7	378.7	378.3	378.3	379.3	381.7	386.0	389.3
17.5°	394.0	392.0	389.3	388.7	392.0	394.0	396.7	399.7	403.0	409.0	412.7
20°	398.3	399.7	401.7	404.3	409.7	414.7	418.0	422.3	426.3	433.7	439.7
22.5°	409.7	417.3	423.7	429.0	437.0	444.0	448.3	454.3	457.3	462.3	471.7
25°	424.3	440.0	453.3	464.7	477.0	484.3	490.3	498.0	502.7	511.0	519.3
27.5°	420.0	442.3	462.3	483.3	500.3	519.3	532.7	545.3	553.3	565.7	576.7
30°	406.7	433.3	460.3	488.0	515.0	542.3	567.7	590.7	608.3	626.0	644.0
32.5°	388.7	419.3	452.3	486.3	521.7	559.7	594.7	629.3	658.7	684.3	709.3
35°	368.0	402.7	437.0	479.0	522.7	571.0	619.7	667.7	712.3	757.7	788.3
37.5°	343.3	378.7	417.0	465.3	516.7	576.3	638.3	701.0	764.3	825.3	878.3
40°	317.0	353.0	393.3	445.7	503.7	573.0	650.3	734.7	821.7	910.0	980.3
42.5°	293.7	330.7	374.7	427.7	490.7	568.7	660.0	763.7	870.0	979.3	1082.7
45°	271.0	311.7	358.0	415.0	485.0	572.0	674.3	790.7	913.3	1046.0	1172.0
47.5°	250.7	292.0	337.0	399.3	476.7	573.7	688.3	817.7	954.3	1098.0	1247.7
50°	232.3	272.3	316.7	379.3	463.7	572.7	701.0	842.0	989.7	1139.0	1306.0
52.5°	214.3	255.0	300.3	360.0	447.7	567.0	707.0	862.0	1022.3	1180.3	1353.0
55°	196.7	236.7	282.3	341.7	426.7	552.3	706.3	875.0	1048.3	1219.3	1398.3
57.5°	176.0	214.0	258.7	321.3	404.3	529.7	696.3	881.0	1070.7	1258.0	1452.7
60°	150.3	186.0	229.0	291.7	375.0	500.7	675.3	877.7	1083.7	1286.7	1499.0
62.5°	118.7	149.7	189.0	250.3	338.3	459.0	636.0	847.3	1063.0	1282.7	1520.7
63°	112.0	141.3	179.7	240.3	322.7	447.7	624.3	835.3	1053.0	1274.3	1517.7
65°	90.0	109.0	139.7	194.0	270.0	392.0	566.3	773.7	999.3	1215.7	1474.3
67.5°	69.0	78.7	95.0	133.0	191.0	308.3	458.7	655.7	867.3	1070.7	1334.7
70°	59.0	63.3	70.3	88.3	121.3	194.7	322.0	489.0	672.3	848.7	1086.0
72.5°	53.7	55.7	59.3	67.0	83.3	116.7	205.3	318.3	457.3	605.0	788.3
75°	49.3	51.0	54.0	58.0	64.0	77.7	117.0	194.7	297.3	397.3	532.0
77.5°	45.0	46.0	49.3	53.0	57.0	64.0	77.3	112.0	171.0	234.3	320.7
80°	41.3	40.7	43.0	49.0	53.0	57.0	61.0	72.7	97.3	128.3	173.3
82.5°	33.0	33.7	35.7	41.7	43.3	42.3	43.0	45.0	54.3	59.3	88.7
85°	22.3	20.7	20.3	21.0	21.0	20.0	20.0	19.7	21.7	24.7	42.3
87.5°	6.0	3.0	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: P153490

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	348.7	348.3	348.7	347.0	347.0	346.7	346.3	345.7	345.7	344.3	345.3
5°	355.3	354.7	353.3	351.3	350.3	349.0	349.0	347.7	346.7	345.3	345.7
7.5°	363.0	363.3	361.0	359.3	358.7	357.3	357.7	355.7	356.0	355.0	354.3
10°	367.3	367.3	368.0	367.7	368.3	368.3	369.3	368.0	367.3	366.3	366.3
12.5°	374.3	375.7	378.3	378.3	380.3	381.0	381.3	382.0	380.7	380.0	377.7
15°	391.7	395.0	397.3	400.7	404.7	406.0	406.0	404.7	404.0	403.0	398.7
17.5°	420.3	427.7	429.7	435.0	435.7	437.3	442.0	439.3	437.7	430.7	429.3
20°	449.7	459.0	468.3	475.0	478.3	485.0	486.0	484.7	478.0	471.3	468.3
22.5°	485.0	499.0	509.7	520.0	525.0	528.3	535.7	534.0	528.7	518.7	514.7
25°	535.0	552.3	563.7	576.3	583.0	586.3	593.7	593.7	588.0	585.0	584.7
27.5°	598.0	619.3	638.0	642.3	659.7	663.7	670.7	670.7	665.3	661.7	679.3
30°	668.0	690.3	722.7	744.3	765.3	786.0	785.7	787.0	793.3	796.7	804.3
32.5°	738.0	765.7	800.0	847.0	892.0	930.3	980.0	1011.7	1002.0	975.0	964.3
35°	823.0	853.7	895.3	942.7	1025.0	1074.7	1098.7	1115.7	1117.7	1121.3	1129.0
37.5°	917.7	969.0	1017.3	1071.0	1116.7	1177.0	1232.7	1277.3	1287.7	1308.7	1296.7
40°	1037.3	1094.7	1145.3	1214.7	1276.0	1348.7	1428.3	1489.7	1514.3	1506.3	1446.3
42.5°	1162.7	1233.7	1293.0	1374.7	1454.3	1550.3	1632.7	1718.3	1733.7	1672.0	1582.3
45°	1278.0	1366.0	1439.7	1524.7	1622.0	1737.0	1847.0	1935.0	1932.0	1826.3	1706.3
47.5°	1381.7	1489.7	1579.7	1690.3	1795.0	1932.0	2058.3	2123.3	2085.0	1960.0	1813.0
50°	1467.3	1602.0	1713.0	1825.0	1958.0	2123.0	2244.7	2281.3	2207.3	2071.3	1916.7
52.5°	1536.3	1705.3	1830.0	1959.0	2127.0	2300.7	2405.3	2391.7	2296.0	2156.3	2002.3
55°	1594.7	1784.3	1933.0	2085.3	2293.7	2453.7	2523.3	2486.7	2353.0	2211.3	2061.0
57.5°	1655.0	1861.0	2027.7	2204.3	2436.3	2573.7	2612.3	2537.0	2380.0	2232.3	2086.3
60°	1715.3	1925.0	2111.3	2308.3	2544.3	2671.7	2661.0	2548.3	2372.0	2217.0	2069.3
62.5°	1756.0	1963.0	2160.0	2372.3	2625.3	2721.7	2656.3	2508.0	2325.7	2156.7	2018.7
63°	1757.0	1964.3	2163.0	2376.7	2634.3	2723.3	2647.3	2493.7	2311.0	2144.3	2003.7
65°	1736.0	1939.3	2136.3	2357.0	2626.7	2685.0	2569.7	2409.0	2227.3	2059.0	1925.7
67.5°	1628.7	1836.0	2010.0	2218.0	2489.3	2506.0	2361.7	2232.0	2068.7	1894.3	1755.0
70°	1412.3	1584.7	1755.3	1929.0	2156.7	2153.7	2018.0	1952.0	1809.0	1610.3	1498.7
72.5°	1123.3	1278.0	1398.0	1514.3	1664.3	1634.0	1546.7	1565.0	1472.3	1324.0	1257.7
75°	834.0	1004.0	1062.7	1110.0	1173.3	1173.7	1197.7	1249.7	1248.3	1166.0	1082.3
77.5°	547.0	733.0	752.7	790.7	866.7	970.0	1076.7	1191.3	1220.0	1155.0	1031.3
80°	305.0	498.3	475.7	508.3	590.3	730.7	888.0	1014.7	1089.3	1053.0	922.0
82.5°	156.0	287.3	274.7	320.0	386.3	508.3	612.3	709.7	797.7	792.7	743.0
85°	81.0	157.3	179.0	202.7	236.0	279.7	319.0	347.3	384.0	448.7	470.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	24.0	17.3	47.7	68.0
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: P153490

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	349.7	349.7	349.7	349.7	349.7	349.7	349.7
2.5°	345.7	346.0	345.3	345.3	345.7	345.7	345.0
5°	345.0	345.0	344.3	343.7	343.0	343.0	342.3
7.5°	352.7	352.7	350.3	349.3	347.7	346.3	345.7
10°	364.0	362.0	359.3	357.3	354.7	351.7	350.0
12.5°	375.3	372.3	369.0	366.0	362.7	359.3	357.7
15°	394.0	390.0	385.7	382.0	377.3	372.3	370.3
17.5°	422.7	416.3	410.7	405.3	397.0	393.3	389.3
20°	460.7	451.3	444.0	435.0	424.7	421.3	416.3
22.5°	506.7	498.7	484.0	477.3	467.0	462.0	463.0
25°	576.7	566.3	549.3	543.0	542.0	531.0	525.7
27.5°	668.0	668.7	653.0	636.0	626.7	609.3	587.3
30°	798.0	789.0	770.7	753.3	731.3	698.7	662.0
32.5°	955.3	935.3	905.0	872.7	833.7	783.3	732.0
35°	1109.0	1074.0	1025.7	971.7	915.3	852.7	780.0
37.5°	1244.0	1189.7	1117.3	1055.3	975.7	897.3	808.7
40°	1367.3	1300.0	1206.7	1126.3	1032.3	931.7	826.7
42.5°	1486.7	1401.3	1287.0	1178.3	1072.0	954.7	835.3
45°	1600.3	1490.3	1354.7	1225.3	1101.0	969.7	836.7
47.5°	1687.7	1567.7	1415.3	1259.3	1121.0	981.0	836.7
50°	1768.7	1633.0	1461.7	1286.0	1139.7	988.7	837.3
52.5°	1831.7	1679.0	1491.7	1305.0	1154.3	994.3	840.3
55°	1877.3	1709.0	1511.7	1316.7	1165.0	1002.3	847.0
57.5°	1909.3	1728.7	1522.7	1327.0	1178.0	1016.3	865.7
60°	1924.7	1765.0	1541.0	1347.7	1200.3	1046.0	903.0
62.5°	1913.0	1821.3	1593.3	1382.7	1231.3	1092.3	962.7
63°	1908.0	1831.7	1607.7	1390.3	1238.3	1102.3	983.3
65°	1869.0	1842.0	1666.7	1429.0	1271.7	1146.7	1041.0
67.5°	1748.0	1801.3	1716.3	1494.3	1343.3	1254.3	1148.7
70°	1591.3	1741.0	1707.3	1502.7	1389.0	1342.7	1216.7
72.5°	1403.7	1558.7	1527.3	1391.7	1338.7	1343.7	1199.0
75°	1104.7	1221.0	1200.3	1152.7	1163.3	1200.0	1027.0
77.5°	885.0	869.3	821.7	825.0	886.7	929.7	739.3
80°	723.0	585.3	523.3	525.0	632.7	677.3	471.0
82.5°	688.0	553.7	451.0	394.0	460.3	443.3	246.0
85°	490.0	491.0	407.3	331.0	320.7	272.7	153.3
87.5°	116.0	93.0	66.3	49.3	52.0	34.3	17.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)