

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: P153498

Luminaire Tested: **TLM-E02-LED-E1-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153498
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-E02-LED-E1-SLR-8030
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4696.7 lumens
Efficiency: N/A
Efficacy: 90.1 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

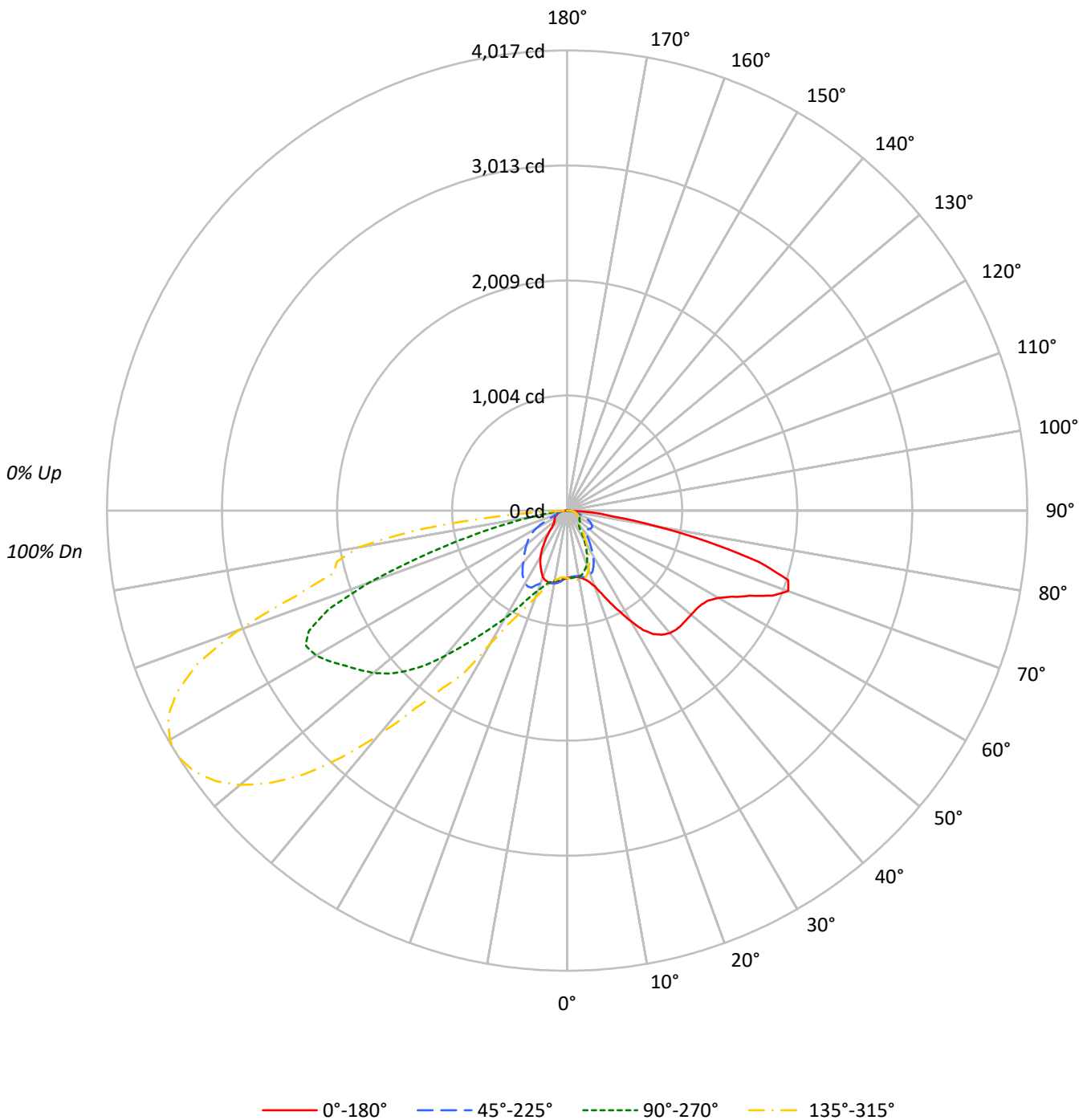
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P153498

CATALOG NUMBER: TLM-E02-LED-E1-SLR-8030

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°	19251	19251	19251	19251
5°	18922	19253	20173	19750
10°	19568	19326	21078	20538
15°	21109	18809	21794	22193
20°	24395	17342	21483	25759
25°	31934	14641	19604	31549
30°	42086	11337	17484	40944
35°	52426	7753	14004	52987
40°	59416	6779	10253	70461
45°	65148	7113	7708	91256
50°	71722	7282	7368	111866
55°	81304	7455	7518	134230
60°	99432	8187	8187	165066
65°	135622	8513	8644	192072
70°	195858	9012	9127	174820
75°	218479	9502	10069	113171
80°	149332	10256	11515	54962
85°	96856	12650	13885	26759



TEST NUMBER: P153498

CATALOG NUMBER: TLM-E02-LED-E1-SLR-8030

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	1.2
10°-20°	178.9	3.8
20°-30°	317.9	6.8
30°-40°	500.6	10.7
40°-50°	736.7	15.7
50°-60°	978.6	20.8
60°-70°	1077.9	23.0
70°-80°	676.3	14.4
80°-90°	172.3	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°	554.3	11.8
0°-40°	1054.9	22.5
0°-60°	2770.3	59.0
0°-90°	4696.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4696.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	590	590	590	590	590	
5°	578	588	616	603	578	56
15°	625	557	645	657	625	181
25°	887	407	545	877	887	419
35°	1317	195	352	1331	1317	816
45°	1412	154	167	1978	1412	1092
55°	1430	131	132	2360	1430	1297
65°	1757	110	112	2489	1757	1769
75°	1734	75	80	898	1734	1695
85°	259	34	37	72	259	299
90°	0	0	0	0	0	



TEST NUMBER: P153498

CATALOG NUMBER: TLM-E02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	582.4	584.0	583.5	583.5	584.6	584.0	584.0	584.6	584.6	586.3	588.5
5°	577.9	577.3	576.2	577.3	577.3	577.3	575.0	576.7	577.3	578.4	578.4
7.5°	583.5	581.8	579.5	580.1	580.1	579.0	577.3	577.9	577.3	577.3	576.7
10°	590.8	586.9	584.0	584.0	584.0	582.9	580.1	581.8	581.8	581.2	581.8
12.5°	603.7	599.2	595.9	594.7	594.7	593.0	590.8	593.0	591.9	591.9	590.8
15°	625.1	620.1	616.1	612.7	613.3	613.3	610.5	608.8	606.5	603.7	598.1
17.5°	657.2	651.6	646.5	643.7	644.2	640.3	632.4	624.6	613.9	603.2	591.4
20°	702.8	701.1	694.3	691.5	684.8	675.2	653.2	634.7	613.9	593.6	573.4
22.5°	781.5	773.7	766.9	756.2	733.7	707.3	670.7	638.1	605.4	576.7	549.7
25°	887.3	873.2	840.1	807.4	761.3	714.0	664.5	622.3	581.8	544.1	510.9
27.5°	991.4	948.6	889.6	830.5	763.0	701.1	639.2	589.1	541.8	500.8	464.2
30°	1117.4	1045.4	954.8	861.4	765.8	682.5	608.2	549.7	495.1	451.8	413.6
32.5°	1235.6	1131.5	1012.8	890.1	772.0	665.1	572.8	506.4	450.1	395.6	357.9
35°	1316.6	1181.6	1037.5	892.9	756.8	631.9	528.3	450.1	393.9	343.2	298.8
37.5°	1365.0	1203.5	1038.7	872.7	721.3	586.9	472.1	394.4	342.7	294.3	259.4
40°	1395.4	1208.6	1024.0	843.4	676.3	530.0	415.8	346.0	298.8	259.9	232.9
42.5°	1410.0	1200.7	1000.4	806.3	630.7	479.4	376.4	310.6	269.5	241.9	221.7
45°	1412.3	1186.7	975.1	772.5	590.2	442.8	349.4	296.0	262.2	239.1	218.9
47.5°	1412.3	1174.3	954.8	747.8	563.8	427.1	347.2	302.1	269.0	243.1	218.9
50°	1413.4	1170.3	946.4	735.4	554.8	435.5	366.3	321.3	283.6	249.8	218.3
52.5°	1418.5	1175.4	953.1	745.0	571.1	469.3	402.3	350.0	302.7	257.7	218.3
55°	1429.7	1192.3	981.8	778.2	615.0	520.5	445.6	380.9	317.9	261.1	214.9
57.5°	1461.2	1235.0	1034.2	842.3	689.8	579.5	485.0	402.9	323.5	258.3	208.2
60°	1524.2	1320.0	1123.6	932.3	769.2	630.2	508.1	406.2	318.5	249.3	197.5
62.5°	1625.0	1417.3	1232.2	1030.2	839.5	658.3	510.9	397.8	305.0	232.9	181.7
63°	1659.8	1441.5	1255.3	1048.8	848.5	660.6	508.6	394.4	301.6	228.4	179.5
65°	1757.2	1543.4	1335.2	1114.1	873.8	661.1	496.3	377.5	285.8	211.0	163.7
67.5°	1938.9	1677.3	1435.9	1165.3	882.8	643.1	464.8	346.0	252.6	184.0	144.0
70°	2053.7	1752.1	1474.7	1166.4	856.4	591.9	410.2	294.8	210.4	152.5	123.8
72.5°	2023.9	1678.4	1372.3	1061.2	742.1	494.6	329.7	231.8	164.3	122.1	103.0
75°	1733.6	1397.1	1119.7	822.0	561.0	363.5	241.4	165.4	121.5	95.7	86.1
77.5°	1248.0	1005.5	802.9	585.7	378.1	235.2	160.4	118.2	92.3	78.8	70.9
80°	795.0	589.7	491.2	352.2	221.1	145.7	110.3	89.5	76.0	65.8	60.8
82.5°	415.2	290.9	236.3	180.1	122.7	96.2	81.0	73.1	62.5	54.6	51.8
85°	258.8	171.6	127.2	88.9	61.3	55.1	50.6	49.5	44.5	39.4	37.7
87.5°	29.3	26.4	27.6	17.4	12.9	14.1	13.5	18.0	17.4	12.9	13.5
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: P153498

CATALOG NUMBER: TLM-E02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	586.3	587.4	587.4	589.1	589.1	590.2	591.4	591.4	592.5	593.0	594.2
5°	579.5	579.5	579.5	581.8	582.4	585.7	586.9	588.0	589.1	593.0	595.3
7.5°	577.9	575.6	576.7	576.7	578.4	581.2	584.0	585.7	587.4	592.5	595.9
10°	581.2	579.5	577.9	577.9	578.4	579.5	581.8	583.5	584.6	589.7	592.5
12.5°	590.2	586.3	582.9	580.1	577.9	577.3	576.2	576.7	577.9	580.7	584.6
15°	591.9	584.6	577.3	570.0	564.3	561.0	558.2	557.0	557.0	558.7	563.2
17.5°	580.7	568.3	557.6	548.0	541.8	535.7	532.8	530.6	529.5	531.7	532.3
20°	556.5	541.8	527.2	516.0	504.7	503.0	498.5	499.6	500.8	504.1	505.8
22.5°	523.3	505.8	487.8	476.0	467.0	459.1	454.1	456.3	458.0	461.4	463.1
25°	482.8	457.4	438.3	426.5	416.9	410.2	404.6	406.8	404.6	408.5	414.7
27.5°	434.9	405.1	384.9	371.4	364.6	359.0	353.4	353.4	359.0	359.0	364.0
30°	377.0	355.0	328.6	314.5	306.1	302.7	302.1	301.0	305.0	307.2	312.8
32.5°	322.4	295.4	270.1	256.6	249.3	245.3	245.9	246.4	248.1	251.5	260.5
35°	267.3	243.6	225.6	210.4	203.1	195.8	195.8	194.7	196.4	200.3	211.0
37.5°	231.8	211.0	196.9	185.1	177.8	173.3	169.4	167.7	167.7	169.4	173.3
40°	212.1	196.9	184.0	173.9	167.1	163.2	160.9	159.2	158.1	158.1	158.7
42.5°	203.1	187.4	174.4	165.4	160.4	158.1	157.5	157.0	155.3	154.7	154.2
45°	198.6	180.6	166.0	158.7	154.7	153.6	154.2	154.2	153.6	152.5	150.2
47.5°	195.2	174.4	159.8	153.0	151.4	151.4	151.4	151.4	150.8	150.2	148.5
50°	189.6	164.9	149.1	144.0	142.9	142.9	143.5	143.5	144.6	143.5	142.4
52.5°	183.4	155.9	140.1	135.6	135.0	134.5	134.5	134.5	135.0	135.0	134.5
55°	176.7	149.1	135.6	132.2	132.8	132.2	131.7	131.1	131.1	130.5	129.4
57.5°	169.9	143.5	132.2	130.0	130.5	130.5	129.4	128.3	127.7	126.0	124.9
60°	159.8	135.6	125.5	124.3	126.0	126.0	126.0	125.5	125.5	124.9	122.1
62.5°	146.3	124.3	116.5	117.0	117.6	118.7	118.7	118.7	118.7	117.6	114.8
63°	143.5	122.1	114.8	114.8	116.5	116.5	117.0	116.5	117.0	115.9	112.5
65°	132.2	114.8	109.2	109.7	110.8	110.8	110.8	110.3	110.3	108.6	106.9
67.5°	119.3	105.8	102.4	103.0	103.5	104.7	104.1	104.1	104.7	103.5	101.8
70°	104.7	96.2	94.0	94.5	95.1	95.1	94.5	94.5	95.1	94.0	92.3
72.5°	93.4	90.0	88.3	88.3	87.2	87.2	86.1	85.5	85.0	85.0	83.3
75°	78.8	78.2	78.8	79.9	78.8	77.6	77.1	75.4	74.3	74.3	73.7
77.5°	67.5	67.5	68.6	70.3	70.9	70.9	69.2	66.4	65.8	65.8	65.8
80°	58.5	57.4	57.4	59.1	60.8	60.2	57.4	54.6	54.6	57.4	58.0
82.5°	51.2	51.2	49.5	50.1	49.5	49.0	46.1	44.5	43.9	46.1	48.4
85°	40.5	41.1	40.5	39.9	39.4	37.7	35.4	33.8	33.2	35.4	38.8
87.5°	16.3	15.8	15.2	15.8	15.2	16.3	15.8	14.6	14.1	15.8	19.1
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: P153498

CATALOG NUMBER: TLM-E02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	594.7	595.9	597.0	597.0	598.1	597.5	598.1	598.7	598.7	599.2	599.2
5°	598.1	599.8	602.0	604.3	604.9	606.5	608.2	607.1	608.8	611.0	611.0
7.5°	599.2	603.2	604.9	608.2	608.8	611.0	615.0	612.2	615.6	617.2	617.8
10°	597.5	601.5	604.3	608.2	609.9	613.9	617.8	616.7	620.6	623.4	624.0
12.5°	587.4	591.4	597.5	603.2	607.7	613.9	621.2	618.9	624.6	627.9	629.6
15°	567.7	571.7	578.4	587.4	595.9	605.4	615.0	616.7	622.3	626.2	627.9
17.5°	536.8	541.8	549.2	558.7	569.4	585.7	598.1	604.3	612.2	614.4	617.2
20°	508.1	513.1	517.6	523.3	531.2	546.9	563.2	575.6	585.7	594.2	596.4
22.5°	469.8	474.3	479.9	484.5	490.1	501.3	514.8	528.9	544.7	549.7	555.3
25°	423.7	426.5	434.4	437.2	441.1	450.7	461.4	471.5	486.7	497.4	500.2
27.5°	374.2	377.0	384.3	386.0	391.0	400.1	407.9	411.9	425.9	437.2	446.2
30°	316.8	324.1	333.1	334.2	339.8	345.5	352.8	356.7	369.7	381.5	392.7
32.5°	267.3	274.6	281.9	286.4	289.2	293.7	301.0	305.0	317.3	328.0	339.3
35°	216.6	225.6	233.5	239.7	241.9	247.6	253.2	257.1	270.1	279.6	287.5
37.5°	178.4	185.1	193.6	199.7	205.9	209.9	216.6	222.3	230.1	235.2	243.6
40°	159.8	163.2	167.7	172.7	177.8	182.3	187.4	191.9	196.9	203.7	209.3
42.5°	153.6	154.2	154.2	155.9	158.7	160.9	165.4	168.8	172.2	177.2	180.1
45°	149.1	148.5	147.4	146.3	146.9	148.0	150.8	153.0	157.0	159.2	159.8
47.5°	146.9	144.6	142.4	140.7	140.1	140.7	142.9	145.2	147.4	149.1	149.7
50°	139.5	137.9	134.5	132.2	131.1	132.2	135.0	136.2	138.4	140.1	140.7
52.5°	132.2	130.0	127.7	125.5	125.5	126.0	128.3	130.5	132.8	133.4	134.5
55°	127.7	124.3	122.1	120.4	119.3	121.0	122.7	125.5	128.3	128.8	130.0
57.5°	123.2	119.8	117.6	115.9	114.8	116.5	118.2	122.1	125.5	125.5	125.5
60°	120.4	117.6	114.2	112.5	110.8	112.5	114.8	118.7	122.1	121.5	121.0
62.5°	112.5	109.7	108.0	108.0	106.3	109.2	111.4	115.9	116.5	115.3	114.2
63°	110.3	108.0	106.9	106.9	105.8	108.6	110.8	114.8	114.8	113.7	112.5
65°	104.7	103.0	101.8	103.0	103.0	105.8	106.3	109.2	108.6	106.9	106.3
67.5°	100.2	99.0	97.9	97.9	97.9	98.5	99.0	100.2	99.6	99.0	99.6
70°	92.8	92.3	91.2	91.2	90.6	90.6	90.6	91.2	91.2	91.7	92.3
72.5°	83.8	82.7	82.7	83.3	82.1	82.7	83.3	82.7	83.8	83.8	84.4
75°	73.7	73.1	74.3	75.4	74.8	74.8	75.4	75.4	76.0	76.0	76.5
77.5°	65.8	66.4	67.0	68.1	68.6	68.6	68.6	68.1	68.6	68.6	69.2
80°	58.5	59.6	60.8	61.9	62.5	62.5	62.5	61.9	61.9	61.9	61.9
82.5°	52.9	54.6	55.7	56.3	56.3	56.3	56.3	56.3	56.3	55.1	54.0
85°	44.5	47.8	47.8	48.4	46.7	45.6	44.5	45.0	45.6	43.3	42.8
87.5°	22.5	22.5	23.6	24.8	25.3	25.3	28.7	27.0	26.4	25.9	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: P153498

CATALOG NUMBER: TLM-E02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	599.8	599.2	600.4	599.2	599.8	600.4	599.2	600.9	602.0	600.4	598.7
5°	612.2	612.2	615.0	616.1	616.7	620.1	618.4	619.5	620.6	620.1	620.6
7.5°	620.1	622.3	625.1	627.9	628.5	631.3	630.7	632.4	633.6	636.4	636.4
10°	626.8	629.6	633.6	636.4	639.2	641.4	642.6	645.9	646.5	648.7	648.7
12.5°	633.0	636.4	640.3	644.8	647.6	652.1	652.7	657.8	659.4	660.0	658.3
15°	631.9	635.8	640.3	645.4	650.4	656.1	659.4	664.5	667.3	668.4	665.6
17.5°	621.2	624.6	630.2	636.9	643.1	650.4	656.6	663.9	668.4	669.6	669.0
20°	600.4	602.6	609.9	618.9	626.2	637.5	646.5	657.8	665.1	670.7	672.4
22.5°	559.3	564.9	572.2	582.4	593.0	607.1	620.1	636.4	652.1	665.6	679.1
25°	509.8	519.9	531.2	544.7	557.6	572.2	586.9	605.4	628.5	656.6	688.7
27.5°	459.7	477.1	491.2	508.6	523.8	538.5	554.8	575.0	600.4	634.1	675.2
30°	409.1	428.7	443.9	464.2	484.5	504.1	520.5	541.8	566.6	600.9	645.9
32.5°	355.0	374.7	392.7	411.3	433.8	457.4	477.1	503.6	530.0	565.5	611.0
35°	299.3	316.8	332.0	351.7	376.4	401.7	427.6	458.0	486.7	523.8	572.2
37.5°	250.9	263.3	278.0	295.4	314.5	341.5	370.8	406.8	439.4	479.9	529.5
40°	211.0	217.7	226.2	240.8	258.3	284.7	313.4	351.7	391.0	435.5	483.3
42.5°	180.1	183.4	185.7	195.2	209.3	235.2	262.8	299.9	343.2	391.6	440.0
45°	159.8	161.5	162.0	167.1	177.2	199.7	228.4	259.9	301.6	348.8	399.5
47.5°	150.2	151.9	153.0	154.2	160.4	177.8	203.7	233.5	271.8	315.1	366.9
50°	142.4	144.0	145.7	145.2	148.0	159.2	181.2	208.7	244.8	284.7	335.9
52.5°	134.5	135.6	135.6	135.6	137.3	144.6	160.4	185.7	218.9	256.6	307.2
55°	130.0	131.1	131.7	132.2	132.8	136.7	148.5	168.8	197.5	232.4	278.0
57.5°	125.5	126.0	127.2	127.7	128.8	131.1	138.4	153.0	177.2	206.5	244.8
60°	121.5	122.7	124.9	125.5	126.6	127.2	130.5	139.5	155.3	177.8	208.7
62.5°	115.3	117.0	119.3	119.8	121.0	121.5	122.1	127.2	134.5	148.0	171.0
63°	113.7	115.3	118.2	118.7	119.3	119.3	119.8	123.2	130.0	141.8	158.7
65°	107.5	109.7	111.4	112.0	112.5	112.5	112.0	113.1	113.7	118.7	128.8
67.5°	100.7	102.4	103.5	104.1	103.5	104.1	103.5	102.4	101.3	102.4	106.9
70°	94.0	95.1	95.1	95.7	96.2	96.8	95.7	94.5	93.4	92.8	95.7
72.5°	86.1	87.2	87.2	87.8	87.8	88.9	88.9	88.3	88.3	88.9	89.5
75°	78.2	79.3	78.8	79.9	79.9	81.6	81.6	82.1	83.3	82.7	82.1
77.5°	70.9	71.5	71.5	72.0	72.6	75.4	77.1	77.6	77.6	76.5	75.4
80°	63.0	63.0	61.9	61.3	61.9	64.7	68.1	68.6	70.3	69.8	70.3
82.5°	52.9	50.6	49.0	49.0	50.1	51.8	52.9	54.0	55.1	55.1	56.3
85°	40.5	38.3	36.6	37.1	38.8	39.4	38.8	38.8	41.1	42.8	41.1
87.5°	24.2	21.9	20.8	19.1	19.7	21.4	20.8	19.1	19.7	15.8	14.6
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: P153498

CATALOG NUMBER: TLM-E02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	599.8	599.2	598.1	596.4	595.9	594.7	595.3	593.6	592.5	591.4	589.7
5°	620.6	620.6	617.2	617.2	615.6	615.0	611.0	609.4	606.0	607.1	603.2
7.5°	635.2	636.9	633.0	632.4	630.2	629.6	624.6	622.9	620.1	618.9	615.6
10°	645.9	645.9	640.9	636.9	634.1	631.3	626.2	624.0	621.7	622.3	620.1
12.5°	654.4	650.4	643.1	637.5	633.6	630.7	626.8	625.1	624.6	628.5	629.1
15°	661.1	655.5	646.5	642.6	639.2	638.6	638.6	640.3	644.2	651.6	657.2
17.5°	665.1	661.7	657.2	656.1	661.7	665.1	669.6	674.6	680.3	690.4	696.6
20°	672.4	674.6	678.0	682.5	691.5	699.9	705.6	712.9	719.6	732.0	742.1
22.5°	691.5	704.5	715.1	724.1	737.6	749.5	756.8	766.9	772.0	780.4	796.2
25°	716.3	742.7	765.2	784.3	805.2	817.5	827.7	840.6	848.5	862.6	876.6
27.5°	709.0	746.7	780.4	815.9	844.6	876.6	899.1	920.5	934.0	954.8	973.4
30°	686.4	731.5	777.0	823.7	869.3	915.4	958.2	997.0	1026.9	1056.7	1087.1
32.5°	656.1	707.8	763.5	820.9	880.6	944.7	1003.8	1062.3	1111.8	1155.1	1197.3
35°	621.2	679.7	737.6	808.5	882.3	963.8	1046.0	1127.0	1202.4	1278.9	1330.7
37.5°	579.5	639.2	703.9	785.5	872.1	972.8	1077.5	1183.3	1290.2	1393.1	1482.6
40°	535.1	595.9	663.9	752.3	850.2	967.2	1097.8	1240.1	1387.0	1536.1	1654.8
42.5°	495.7	558.2	632.4	721.9	828.2	959.9	1114.1	1289.1	1468.5	1653.1	1827.5
45°	457.4	526.1	604.3	700.5	818.7	965.5	1138.3	1334.6	1541.7	1765.6	1978.3
47.5°	423.1	492.9	568.8	674.1	804.6	968.3	1161.9	1380.2	1610.9	1853.4	2106.0
50°	392.2	459.7	534.5	640.3	782.7	966.7	1183.3	1421.3	1670.5	1922.6	2204.5
52.5°	361.8	430.4	507.0	607.7	755.7	957.1	1193.4	1455.0	1725.7	1992.4	2283.8
55°	332.0	399.5	476.6	576.7	720.2	932.3	1192.3	1477.0	1769.6	2058.2	2360.4
57.5°	297.1	361.2	436.6	542.4	682.5	894.1	1175.4	1487.1	1807.3	2123.5	2452.1
60°	253.8	314.0	386.5	492.3	633.0	845.1	1140.0	1481.5	1829.2	2171.9	2530.3
62.5°	200.3	252.6	319.0	422.6	571.1	774.8	1073.6	1430.3	1794.3	2165.1	2566.9
63°	189.1	238.6	303.3	405.7	544.7	755.7	1053.9	1410.0	1777.4	2151.1	2561.8
65°	151.9	184.0	235.8	327.5	455.8	661.7	956.0	1305.9	1686.9	2052.0	2488.6
67.5°	116.5	132.8	160.4	224.5	322.4	520.5	774.2	1106.8	1464.0	1807.3	2252.9
70°	99.6	106.9	118.7	149.1	204.8	328.6	543.5	825.4	1134.9	1432.5	1833.1
72.5°	90.6	94.0	100.2	113.1	140.7	196.9	346.6	537.3	772.0	1021.2	1330.7
75°	83.3	86.1	91.2	97.9	108.0	131.1	197.5	328.6	501.9	670.7	898.0
77.5°	76.0	77.6	83.3	89.5	96.2	108.0	130.5	189.1	288.6	395.6	541.3
80°	69.8	68.6	72.6	82.7	89.5	96.2	103.0	122.7	164.3	216.6	292.6
82.5°	55.7	56.8	60.2	70.3	73.1	71.5	72.6	76.0	91.7	100.2	149.7
85°	37.7	34.9	34.3	35.4	35.4	33.8	33.8	33.2	36.6	41.6	71.5
87.5°	10.1	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: P153498

CATALOG NUMBER: TLM-E02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	588.5	588.0	588.5	585.7	585.7	585.2	584.6	583.5	583.5	581.2	582.9
5°	599.8	598.7	596.4	593.0	591.4	589.1	589.1	586.9	585.2	582.9	583.5
7.5°	612.7	613.3	609.4	606.5	605.4	603.2	603.7	600.4	600.9	599.2	598.1
10°	620.1	620.1	621.2	620.6	621.7	621.7	623.4	621.2	620.1	618.4	618.4
12.5°	631.9	634.1	638.6	638.6	642.0	643.1	643.7	644.8	642.6	641.4	637.5
15°	661.1	666.8	670.7	676.3	683.1	685.3	685.3	683.1	681.9	680.3	672.9
17.5°	709.5	721.9	725.3	734.3	735.4	738.2	746.1	741.6	738.8	727.0	724.7
20°	759.0	774.8	790.5	801.8	807.4	818.7	820.4	818.1	806.9	795.6	790.5
22.5°	818.7	842.3	860.3	877.8	886.2	891.8	904.2	901.4	892.4	875.5	868.7
25°	903.1	932.3	951.5	972.8	984.1	989.7	1002.1	1002.1	992.5	987.5	986.9
27.5°	1009.4	1045.4	1076.9	1084.2	1113.5	1120.3	1132.1	1132.1	1123.1	1116.9	1146.7
30°	1127.6	1165.3	1219.8	1256.4	1291.9	1326.8	1326.2	1328.4	1339.1	1344.8	1357.7
32.5°	1245.7	1292.4	1350.4	1429.7	1505.7	1570.4	1654.2	1707.7	1691.4	1645.8	1627.8
35°	1389.2	1441.0	1511.3	1591.2	1730.2	1814.0	1854.5	1883.2	1886.6	1892.8	1905.7
37.5°	1549.0	1635.7	1717.2	1807.8	1884.9	1986.8	2080.7	2156.1	2173.6	2209.0	2188.7
40°	1751.0	1847.8	1933.3	2050.3	2153.9	2276.5	2411.0	2514.5	2556.2	2542.7	2441.4
42.5°	1962.6	2082.4	2182.6	2320.4	2454.9	2616.9	2755.9	2900.5	2926.4	2822.3	2670.9
45°	2157.2	2305.8	2430.1	2573.6	2737.9	2932.0	3117.7	3266.2	3261.2	3082.8	2880.3
47.5°	2332.2	2514.5	2666.4	2853.3	3029.9	3261.2	3474.4	3584.1	3519.4	3308.4	3060.3
50°	2476.8	2704.1	2891.5	3080.6	3305.1	3583.6	3789.0	3850.8	3725.9	3496.4	3235.3
52.5°	2593.3	2878.6	3089.0	3306.8	3590.3	3883.5	4060.2	4037.1	3875.6	3639.9	3379.9
55°	2691.8	3011.9	3262.9	3520.0	3871.7	4141.7	4259.3	4197.4	3971.8	3732.7	3478.9
57.5°	2793.6	3141.3	3422.7	3720.9	4112.5	4344.3	4409.6	4282.4	4017.4	3768.1	3521.7
60°	2895.5	3249.4	3563.9	3896.4	4294.8	4509.7	4491.7	4301.5	4003.9	3742.3	3493.0
62.5°	2964.1	3313.5	3646.0	4004.5	4431.5	4594.1	4483.8	4233.5	3925.7	3640.4	3407.5
63°	2965.8	3315.8	3651.1	4011.8	4446.7	4596.9	4468.7	4209.3	3900.9	3619.6	3382.2
65°	2930.3	3273.6	3606.1	3978.6	4433.8	4532.2	4337.6	4066.3	3759.7	3475.6	3250.5
67.5°	2749.2	3099.1	3392.8	3743.9	4201.9	4230.1	3986.5	3767.6	3491.9	3197.6	2962.4
70°	2384.0	2674.9	2963.0	3256.1	3640.4	3635.4	3406.3	3294.9	3053.6	2718.2	2529.7
72.5°	1896.2	2157.2	2359.8	2556.2	2809.4	2758.2	2610.7	2641.7	2485.3	2234.9	2122.9
75°	1407.8	1694.7	1793.8	1873.7	1980.6	1981.1	2021.6	2109.4	2107.2	1968.2	1827.0
77.5°	923.3	1237.3	1270.5	1334.6	1462.9	1637.3	1817.4	2010.9	2059.3	1949.6	1740.9
80°	514.8	841.2	802.9	858.1	996.5	1233.4	1498.9	1712.7	1838.8	1777.4	1556.3
82.5°	263.3	485.0	463.6	540.2	652.1	858.1	1033.6	1197.9	1346.4	1338.0	1254.2
85°	136.7	265.6	302.1	342.1	398.4	472.1	538.5	586.3	648.2	757.3	794.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	40.5	29.3	80.5	114.8
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: P153498

CATALOG NUMBER: TLM-E02-LED-E1-SLR-8030

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	590.2	590.2	590.2	590.2	590.2	590.2	590.2
2.5°	583.5	584.0	582.9	582.9	583.5	583.5	582.4
5°	582.4	582.4	581.2	580.1	579.0	579.0	577.9
7.5°	595.3	595.3	591.4	589.7	586.9	584.6	583.5
10°	614.4	611.0	606.5	603.2	598.7	593.6	590.8
12.5°	633.6	628.5	622.9	617.8	612.2	606.5	603.7
15°	665.1	658.3	651.0	644.8	636.9	628.5	625.1
17.5°	713.5	702.8	693.2	684.2	670.1	663.9	657.2
20°	777.6	761.8	749.5	734.3	716.8	711.2	702.8
22.5°	855.2	841.7	817.0	805.7	788.3	779.8	781.5
25°	973.4	956.0	927.3	916.6	914.9	896.3	887.3
27.5°	1127.6	1128.7	1102.3	1073.6	1057.8	1028.5	991.4
30°	1347.0	1331.8	1300.9	1271.6	1234.5	1179.3	1117.4
32.5°	1612.6	1578.8	1527.6	1473.0	1407.2	1322.3	1235.6
35°	1872.0	1812.9	1731.3	1640.2	1545.1	1439.3	1316.6
37.5°	2099.8	2008.1	1886.0	1781.4	1646.9	1514.7	1365.0
40°	2308.0	2194.4	2036.8	1901.2	1742.6	1572.6	1395.4
42.5°	2509.5	2365.4	2172.4	1989.0	1809.5	1611.5	1410.0
45°	2701.3	2515.7	2286.7	2068.3	1858.5	1636.8	1412.3
47.5°	2848.8	2646.2	2389.1	2125.7	1892.2	1655.9	1412.3
50°	2985.5	2756.5	2467.3	2170.7	1923.7	1668.9	1413.4
52.5°	3091.8	2834.1	2517.9	2202.8	1948.5	1678.4	1418.5
55°	3168.9	2884.8	2551.7	2222.5	1966.5	1691.9	1429.7
57.5°	3222.9	2918.0	2570.2	2240.0	1988.4	1715.6	1461.2
60°	3248.8	2979.3	2601.2	2274.8	2026.1	1765.6	1524.2
62.5°	3229.1	3074.4	2689.5	2333.9	2078.5	1843.8	1625.0
63°	3220.7	3091.8	2713.7	2346.9	2090.3	1860.7	1659.8
65°	3154.8	3109.3	2813.3	2412.1	2146.6	1935.6	1757.2
67.5°	2950.6	3040.6	2897.1	2522.4	2267.5	2117.3	1938.9
70°	2686.1	2938.8	2881.9	2536.5	2344.6	2266.4	2053.7
72.5°	2369.4	2631.0	2578.1	2349.1	2259.6	2268.1	2023.9
75°	1864.7	2061.0	2026.1	1945.7	1963.7	2025.6	1733.6
77.5°	1493.9	1467.4	1387.0	1392.6	1496.7	1569.3	1248.0
80°	1220.4	988.0	883.4	886.2	1067.9	1143.3	795.0
82.5°	1161.3	934.6	761.3	665.1	777.0	748.3	415.2
85°	827.1	828.8	687.6	558.7	541.3	460.3	258.8
87.5°	195.8	157.0	112.0	83.3	87.8	58.0	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)