

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: P153505

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P153505
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
Description: TALON MEDIUM LED SITE LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

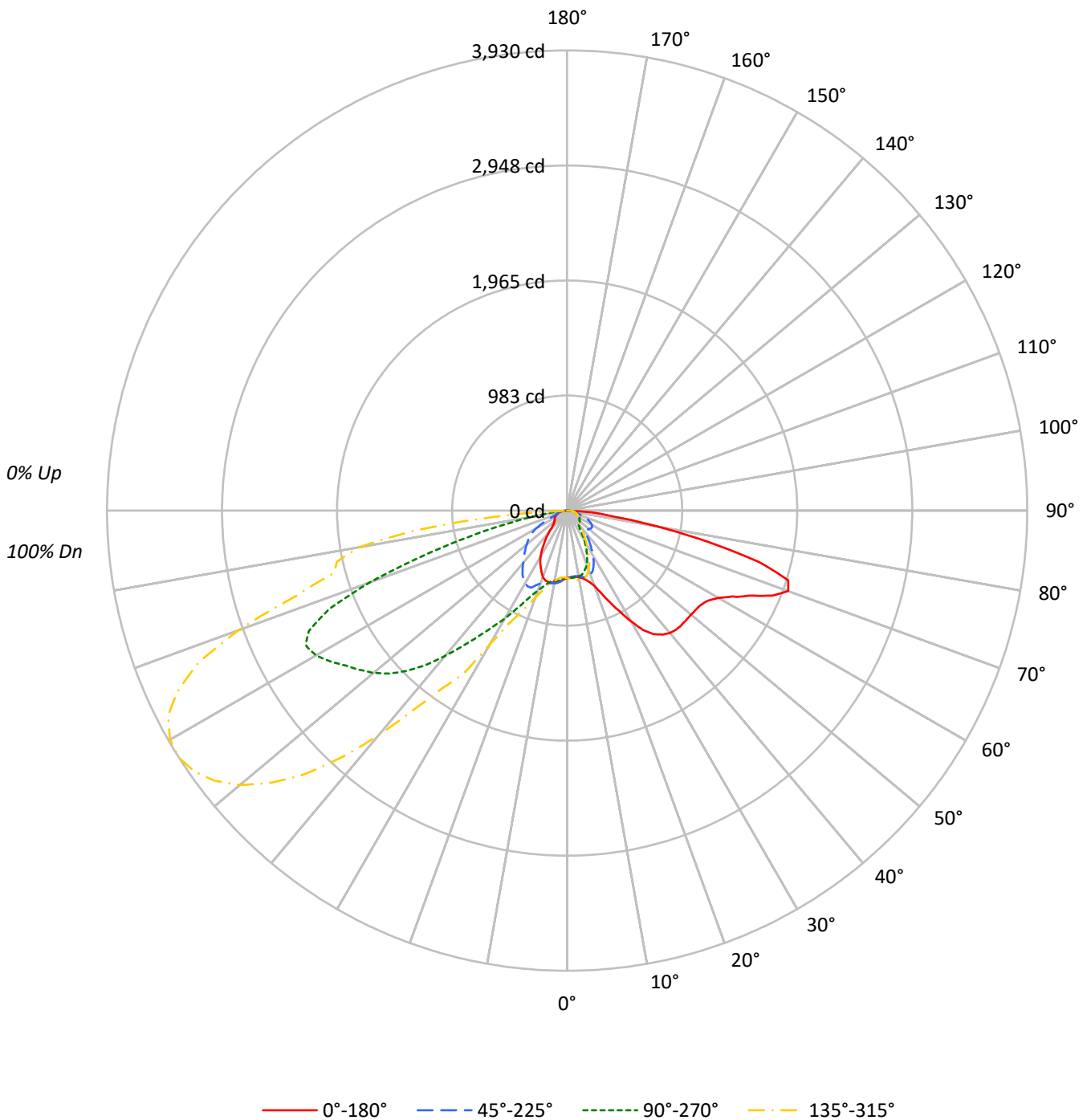
Lumens per Lamp: N/A
Luminaire Lumens: 4594.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.93 / 2.48 / 2.48
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
CIE Type: Direct

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°	18830	18830	18830	18830
5°	18506	18830	19731	19318
10°	19141	18902	20615	20088
15°	20646	18397	21318	21706
20°	23861	16963	21014	25197
25°	31236	14320	19172	30858
30°	41167	11088	17099	40048
35°	51279	7582	13698	51829
40°	58117	6630	10028	68919
45°	63722	6956	7542	89259
50°	70154	7119	7206	109420
55°	79524	7290	7353	131290
60°	97260	8004	8004	161452
65°	132650	8328	8451	187873
70°	191576	8822	8926	170996
75°	213690	9288	9843	110701
80°	146064	10031	11270	53760
85°	94760	12350	13585	26160



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	1.2
10°-20°	175.0	3.8
20°-30°	310.9	6.8
30°-40°	489.7	10.7
40°-50°	720.6	15.7
50°-60°	957.2	20.8
60°-70°	1054.4	23.0
70°-80°	661.5	14.4
80°-90°	168.5	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°	542.2	11.8
0°-40°	1031.8	22.5
0°-60°	2709.6	59.0
0°-90°	4594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4594.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	577	577	577	577	577	
5°	565	575	603	590	565	55
15°	611	545	631	643	611	177
25°	868	398	533	857	868	410
35°	1288	190	344	1302	1288	798
45°	1381	151	164	1935	1381	1068
55°	1398	128	129	2309	1398	1268
65°	1719	108	110	2434	1719	1730
75°	1696	74	78	878	1696	1658
85°	253	33	36	70	253	293
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°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	569.6	571.3	570.7	570.7	571.8	571.3	571.3	571.8	571.8	573.5	575.7
5°	565.2	564.7	563.6	564.7	564.7	564.7	562.5	564.1	564.7	565.8	565.8
7.5°	570.7	569.1	566.9	567.4	567.4	566.3	564.7	565.2	564.7	564.7	564.1
10°	577.9	574.0	571.3	571.3	571.3	570.2	567.4	569.1	569.1	568.5	569.1
12.5°	590.5	586.1	582.8	581.7	581.7	580.1	577.9	580.1	579.0	579.0	577.9
15°	611.4	606.5	602.6	599.3	599.9	599.9	597.1	595.5	593.3	590.5	585.0
17.5°	642.8	637.3	632.4	629.6	630.2	626.3	618.6	610.9	600.4	590.0	578.4
20°	687.4	685.7	679.1	676.4	669.8	660.4	639.0	620.8	600.4	580.6	560.8
22.5°	764.4	756.7	750.1	739.7	717.7	691.8	656.0	624.1	592.2	564.1	537.7
25°	867.9	854.1	821.7	789.8	744.6	698.4	650.0	608.7	569.1	532.2	499.7
27.5°	969.7	927.9	870.1	812.3	746.3	685.7	625.2	576.2	530.0	489.8	454.0
30°	1093.0	1022.6	933.9	842.6	749.0	667.6	594.9	537.7	484.3	441.9	404.5
32.5°	1208.6	1106.8	990.6	870.7	755.1	650.5	560.3	495.3	440.3	386.9	350.0
35°	1287.8	1155.7	1014.8	873.4	740.2	618.0	516.8	440.3	385.2	335.7	292.2
37.5°	1335.1	1177.2	1015.9	853.6	705.5	574.0	461.7	385.8	335.2	287.8	253.7
40°	1364.9	1182.2	1001.6	825.0	661.5	518.4	406.7	338.5	292.2	254.3	227.8
42.5°	1379.2	1174.4	978.5	788.7	616.9	468.9	368.2	303.8	263.6	236.7	216.8
45°	1381.4	1160.7	953.8	755.6	577.3	433.1	341.8	289.5	256.5	233.9	214.1
47.5°	1381.4	1148.6	933.9	731.4	551.5	417.7	339.6	295.5	263.1	237.8	214.1
50°	1382.5	1144.7	925.7	719.3	542.6	426.0	358.3	314.2	277.4	244.4	213.5
52.5°	1387.4	1149.7	932.3	728.7	558.6	459.0	393.5	342.3	296.1	252.1	213.5
55°	1398.4	1166.2	960.4	761.1	601.5	509.1	435.9	372.6	310.9	255.4	210.2
57.5°	1429.3	1208.0	1011.5	823.9	674.7	566.9	474.4	394.1	316.5	252.6	203.6
60°	1490.9	1291.1	1099.0	911.9	752.3	616.4	497.0	397.4	311.5	243.8	193.2
62.5°	1589.4	1386.3	1205.3	1007.7	821.1	643.9	499.7	389.1	298.3	227.8	177.8
63°	1623.5	1410.0	1227.8	1025.9	829.9	646.1	497.5	385.8	295.0	223.4	175.6
65°	1718.7	1509.6	1306.0	1089.7	854.7	646.7	485.4	369.3	279.6	206.4	160.2
67.5°	1896.5	1640.6	1404.5	1139.8	863.5	629.0	454.6	338.5	247.1	180.0	140.9
70°	2008.8	1713.8	1442.5	1140.9	837.6	579.0	401.2	288.4	205.8	149.1	121.1
72.5°	1979.6	1641.7	1342.3	1038.0	725.9	483.8	322.5	226.7	160.7	119.4	100.7
75°	1695.6	1366.5	1095.2	804.1	548.7	355.5	236.1	161.8	118.9	93.6	84.2
77.5°	1220.7	983.5	785.3	572.9	369.8	230.0	156.8	115.6	90.3	77.0	69.3
80°	777.6	576.8	480.5	344.5	216.3	142.5	107.9	87.5	74.3	64.4	59.4
82.5°	406.2	284.5	231.1	176.1	120.0	94.1	79.3	71.5	61.1	53.4	50.6
85°	253.2	167.9	124.4	87.0	60.0	53.9	49.5	48.4	43.5	38.5	36.9
87.5°	28.6	25.9	27.0	17.1	12.7	13.8	13.2	17.6	17.1	12.7	13.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	573.5	574.6	574.6	576.2	576.2	577.3	578.4	578.4	579.5	580.1	581.2
5°	566.9	566.9	566.9	569.1	569.6	572.9	574.0	575.1	576.2	580.1	582.3
7.5°	565.2	563.0	564.1	564.1	565.8	568.5	571.3	572.9	574.6	579.5	582.8
10°	568.5	566.9	565.2	565.2	565.8	566.9	569.1	570.7	571.8	576.8	579.5
12.5°	577.3	573.5	570.2	567.4	565.2	564.7	563.6	564.1	565.2	568.0	571.8
15°	579.0	571.8	564.7	557.5	552.0	548.7	545.9	544.8	544.8	546.5	550.9
17.5°	568.0	555.9	545.4	536.0	530.0	523.9	521.2	519.0	517.9	520.1	520.6
20°	544.3	530.0	515.7	504.7	493.7	492.0	487.6	488.7	489.8	493.1	494.8
22.5°	511.8	494.8	477.2	465.6	456.8	449.1	444.1	446.3	448.0	451.3	452.9
25°	472.2	447.4	428.7	417.2	407.8	401.2	395.7	397.9	395.7	399.6	405.6
27.5°	425.4	396.3	376.4	363.2	356.6	351.1	345.6	345.6	351.1	351.1	356.1
30°	368.7	347.3	321.4	307.6	299.4	296.1	295.5	294.4	298.3	300.5	306.0
32.5°	315.4	288.9	264.2	251.0	243.8	240.0	240.5	241.1	242.7	246.0	254.8
35°	261.4	238.3	220.7	205.8	198.7	191.5	191.5	190.4	192.1	195.9	206.4
37.5°	226.7	206.4	192.6	181.1	173.9	169.5	165.7	164.0	164.0	165.7	169.5
40°	207.5	192.6	180.0	170.1	163.5	159.6	157.4	155.7	154.6	154.6	155.2
42.5°	198.7	183.3	170.6	161.8	156.8	154.6	154.1	153.5	151.9	151.3	150.8
45°	194.3	176.7	162.4	155.2	151.3	150.2	150.8	150.8	150.2	149.1	146.9
47.5°	191.0	170.6	156.3	149.7	148.0	148.0	148.0	148.0	147.5	146.9	145.3
50°	185.5	161.3	145.8	140.9	139.8	139.8	140.3	140.3	141.4	140.3	139.2
52.5°	179.4	152.4	137.0	132.6	132.1	131.5	131.5	131.5	132.1	132.1	131.5
55°	172.8	145.8	132.6	129.3	129.9	129.3	128.8	128.2	128.2	127.7	126.6
57.5°	166.2	140.3	129.3	127.1	127.7	127.7	126.6	125.5	124.9	123.3	122.2
60°	156.3	132.6	122.7	121.6	123.3	123.3	123.3	122.7	122.7	122.2	119.4
62.5°	143.1	121.6	113.9	114.5	115.0	116.1	116.1	116.1	116.1	115.0	112.3
63°	140.3	119.4	112.3	112.3	113.9	113.9	114.5	113.9	114.5	113.4	110.1
65°	129.3	112.3	106.8	107.3	108.4	108.4	108.4	107.9	107.9	106.2	104.6
67.5°	116.7	103.5	100.2	100.7	101.3	102.4	101.8	101.8	102.4	101.3	99.6
70°	102.4	94.1	91.9	92.5	93.0	93.0	92.5	92.5	93.0	91.9	90.3
72.5°	91.4	88.1	86.4	86.4	85.3	85.3	84.2	83.7	83.1	83.1	81.5
75°	77.0	76.5	77.0	78.1	77.0	75.9	75.4	73.7	72.6	72.6	72.1
77.5°	66.0	66.0	67.1	68.8	69.3	69.3	67.7	64.9	64.4	64.4	64.4
80°	57.2	56.1	56.1	57.8	59.4	58.9	56.1	53.4	53.4	56.1	56.7
82.5°	50.1	50.1	48.4	49.0	48.4	47.9	45.1	43.5	42.9	45.1	47.3
85°	39.6	40.2	39.6	39.1	38.5	36.9	34.7	33.0	32.5	34.7	38.0
87.5°	16.0	15.4	14.9	15.4	14.9	16.0	15.4	14.3	13.8	15.4	18.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	581.7	582.8	583.9	583.9	585.0	584.5	585.0	585.6	585.6	586.1	586.1
5°	585.0	586.7	588.9	591.1	591.6	593.3	594.9	593.8	595.5	597.7	597.7
7.5°	586.1	590.0	591.6	594.9	595.5	597.7	601.5	598.8	602.1	603.7	604.3
10°	584.5	588.3	591.1	594.9	596.6	600.4	604.3	603.2	607.0	609.8	610.3
12.5°	574.6	578.4	584.5	590.0	594.4	600.4	607.6	605.4	610.9	614.2	615.8
15°	555.3	559.2	565.8	574.6	582.8	592.2	601.5	603.2	608.7	612.5	614.2
17.5°	525.0	530.0	537.1	546.5	557.0	572.9	585.0	591.1	598.8	601.0	603.7
20°	497.0	501.9	506.3	511.8	519.5	534.9	550.9	563.0	572.9	581.2	583.4
22.5°	459.5	463.9	469.4	473.9	479.4	490.4	503.6	517.3	532.7	537.7	543.2
25°	414.4	417.2	424.9	427.6	431.5	440.8	451.3	461.2	476.1	486.5	489.3
27.5°	366.0	368.7	375.9	377.5	382.5	391.3	399.0	402.9	416.6	427.6	436.4
30°	309.8	317.0	325.8	326.9	332.4	337.9	345.1	348.9	361.6	373.1	384.1
32.5°	261.4	268.6	275.7	280.1	282.9	287.3	294.4	298.3	310.4	320.9	331.9
35°	211.9	220.7	228.4	234.4	236.7	242.2	247.7	251.5	264.2	273.5	281.2
37.5°	174.5	181.1	189.3	195.4	201.4	205.3	211.9	217.4	225.1	230.0	238.3
40°	156.3	159.6	164.0	169.0	173.9	178.3	183.3	187.7	192.6	199.2	204.7
42.5°	150.2	150.8	150.8	152.4	155.2	157.4	161.8	165.1	168.4	173.4	176.1
45°	145.8	145.3	144.2	143.1	143.6	144.7	147.5	149.7	153.5	155.7	156.3
47.5°	143.6	141.4	139.2	137.6	137.0	137.6	139.8	142.0	144.2	145.8	146.4
50°	136.5	134.8	131.5	129.3	128.2	129.3	132.1	133.2	135.4	137.0	137.6
52.5°	129.3	127.1	124.9	122.7	122.7	123.3	125.5	127.7	129.9	130.4	131.5
55°	124.9	121.6	119.4	117.8	116.7	118.3	120.0	122.7	125.5	126.0	127.1
57.5°	120.5	117.2	115.0	113.4	112.3	113.9	115.6	119.4	122.7	122.7	122.7
60°	117.8	115.0	111.7	110.1	108.4	110.1	112.3	116.1	119.4	118.9	118.3
62.5°	110.1	107.3	105.7	105.7	104.0	106.8	109.0	113.4	113.9	112.8	111.7
63°	107.9	105.7	104.6	104.6	103.5	106.2	108.4	112.3	112.3	111.2	110.1
65°	102.4	100.7	99.6	100.7	100.7	103.5	104.0	106.8	106.2	104.6	104.0
67.5°	98.0	96.9	95.8	95.8	95.8	96.3	96.9	98.0	97.4	96.9	97.4
70°	90.8	90.3	89.2	89.2	88.6	88.6	88.6	89.2	89.2	89.7	90.3
72.5°	82.0	80.9	80.9	81.5	80.4	80.9	81.5	80.9	82.0	82.0	82.6
75°	72.1	71.5	72.6	73.7	73.2	73.2	73.7	73.7	74.3	74.3	74.8
77.5°	64.4	64.9	65.5	66.6	67.1	67.1	67.1	66.6	67.1	67.1	67.7
80°	57.2	58.3	59.4	60.5	61.1	61.1	61.1	60.5	60.5	60.5	60.5
82.5°	51.7	53.4	54.5	55.0	55.0	55.0	55.0	55.0	55.0	53.9	52.8
85°	43.5	46.8	46.8	47.3	45.7	44.6	43.5	44.0	44.6	42.4	41.8
87.5°	22.0	22.0	23.1	24.2	24.8	24.8	28.1	26.4	25.9	25.3	24.2
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: P153505

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

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	586.7	586.1	587.2	586.1	586.7	587.2	586.1	587.8	588.9	587.2	585.6
5°	598.8	598.8	601.5	602.6	603.2	606.5	604.8	605.9	607.0	606.5	607.0
7.5°	606.5	608.7	611.4	614.2	614.7	617.5	616.9	618.6	619.7	622.4	622.4
10°	613.1	615.8	619.7	622.4	625.2	627.4	628.5	631.8	632.4	634.6	634.6
12.5°	619.1	622.4	626.3	630.7	633.5	637.9	638.4	643.4	645.0	645.6	643.9
15°	618.0	621.9	626.3	631.3	636.2	641.7	645.0	650.0	652.7	653.8	651.1
17.5°	607.6	610.9	616.4	623.0	629.0	636.2	642.3	649.4	653.8	654.9	654.4
20°	587.2	589.4	596.6	605.4	612.5	623.5	632.4	643.4	650.5	656.0	657.7
22.5°	547.0	552.6	559.7	569.6	580.1	593.8	606.5	622.4	637.9	651.1	664.3
25°	498.6	508.5	519.5	532.7	545.4	559.7	574.0	592.2	614.7	642.3	673.6
27.5°	449.6	466.7	480.5	497.5	512.4	526.7	542.6	562.5	587.2	620.2	660.4
30°	400.1	419.4	434.2	454.0	473.9	493.1	509.1	530.0	554.2	587.8	631.8
32.5°	347.3	366.5	384.1	402.3	424.3	447.4	466.7	492.6	518.4	553.1	597.7
35°	292.8	309.8	324.7	344.0	368.2	392.9	418.3	448.0	476.1	512.4	559.7
37.5°	245.5	257.6	271.9	288.9	307.6	334.1	362.7	397.9	429.8	469.4	517.9
40°	206.4	213.0	221.2	235.5	252.6	278.5	306.5	344.0	382.5	426.0	472.8
42.5°	176.1	179.4	181.6	191.0	204.7	230.0	257.0	293.3	335.7	383.0	430.4
45°	156.3	158.0	158.5	163.5	173.4	195.4	223.4	254.3	295.0	341.2	390.7
47.5°	146.9	148.6	149.7	150.8	156.8	173.9	199.2	228.4	265.8	308.2	358.8
50°	139.2	140.9	142.5	142.0	144.7	155.7	177.2	204.2	239.4	278.5	328.6
52.5°	131.5	132.6	132.6	132.6	134.3	141.4	156.8	181.6	214.1	251.0	300.5
55°	127.1	128.2	128.8	129.3	129.9	133.7	145.3	165.1	193.2	227.3	271.9
57.5°	122.7	123.3	124.4	124.9	126.0	128.2	135.4	149.7	173.4	202.0	239.4
60°	118.9	120.0	122.2	122.7	123.8	124.4	127.7	136.5	151.9	173.9	204.2
62.5°	112.8	114.5	116.7	117.2	118.3	118.9	119.4	124.4	131.5	144.7	167.3
63°	111.2	112.8	115.6	116.1	116.7	116.7	117.2	120.5	127.1	138.7	155.2
65°	105.1	107.3	109.0	109.5	110.1	110.1	109.5	110.6	111.2	116.1	126.0
67.5°	98.5	100.2	101.3	101.8	101.3	101.8	101.3	100.2	99.1	100.2	104.6
70°	91.9	93.0	93.0	93.6	94.1	94.7	93.6	92.5	91.4	90.8	93.6
72.5°	84.2	85.3	85.3	85.9	85.9	87.0	87.0	86.4	86.4	87.0	87.5
75°	76.5	77.6	77.0	78.1	78.1	79.8	79.8	80.4	81.5	80.9	80.4
77.5°	69.3	69.9	69.9	70.4	71.0	73.7	75.4	75.9	75.9	74.8	73.7
80°	61.6	61.6	60.5	60.0	60.5	63.3	66.6	67.1	68.8	68.2	68.8
82.5°	51.7	49.5	47.9	47.9	49.0	50.6	51.7	52.8	53.9	53.9	55.0
85°	39.6	37.4	35.8	36.3	38.0	38.5	38.0	38.0	40.2	41.8	40.2
87.5°	23.7	21.5	20.4	18.7	19.3	20.9	20.4	18.7	19.3	15.4	14.3
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: P153505

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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	586.7	586.1	585.0	583.4	582.8	581.7	582.3	580.6	579.5	578.4	576.8
5°	607.0	607.0	603.7	603.7	602.1	601.5	597.7	596.0	592.7	593.8	590.0
7.5°	621.3	623.0	619.1	618.6	616.4	615.8	610.9	609.2	606.5	605.4	602.1
10°	631.8	631.8	626.8	623.0	620.2	617.5	612.5	610.3	608.1	608.7	606.5
12.5°	640.1	636.2	629.0	623.5	619.7	616.9	613.1	611.4	610.9	614.7	615.3
15°	646.7	641.2	632.4	628.5	625.2	624.6	624.6	626.3	630.2	637.3	642.8
17.5°	650.5	647.2	642.8	641.7	647.2	650.5	654.9	659.9	665.4	675.3	681.3
20°	657.7	659.9	663.2	667.6	676.4	684.6	690.1	697.3	703.9	716.0	725.9
22.5°	676.4	689.0	699.5	708.3	721.5	733.1	740.2	750.1	755.1	763.3	778.7
25°	700.6	726.5	748.5	767.2	787.6	799.7	809.6	822.2	829.9	843.7	857.4
27.5°	693.4	730.3	763.3	798.0	826.1	857.4	879.5	900.4	913.6	933.9	952.1
30°	671.4	715.5	760.0	805.7	850.3	895.4	937.2	975.2	1004.4	1033.6	1063.3
32.5°	641.7	692.3	746.8	803.0	861.3	924.0	981.8	1039.1	1087.5	1129.9	1171.1
35°	607.6	664.8	721.5	790.9	862.9	942.7	1023.1	1102.4	1176.1	1250.9	1301.6
37.5°	566.9	625.2	688.5	768.3	853.0	951.6	1053.9	1157.4	1262.0	1362.7	1450.2
40°	523.4	582.8	649.4	735.8	831.6	946.1	1073.7	1213.0	1356.6	1502.5	1618.6
42.5°	484.9	545.9	618.6	706.1	810.1	938.9	1089.7	1260.9	1436.4	1616.9	1787.5
45°	447.4	514.6	591.1	685.2	800.8	944.4	1113.4	1305.4	1508.0	1727.0	1935.0
47.5°	413.9	482.1	556.4	659.3	787.0	947.2	1136.5	1350.0	1575.7	1812.9	2060.0
50°	383.6	449.6	522.8	626.3	765.5	945.5	1157.4	1390.2	1634.0	1880.5	2156.3
52.5°	353.9	421.0	495.9	594.4	739.1	936.1	1167.3	1423.2	1687.9	1948.8	2233.9
55°	324.7	390.7	466.1	564.1	704.4	911.9	1166.2	1444.7	1730.9	2013.2	2308.7
57.5°	290.6	353.3	427.1	530.5	667.6	874.5	1149.7	1454.6	1767.7	2077.0	2398.4
60°	248.2	307.1	378.1	481.6	619.1	826.6	1115.0	1449.1	1789.2	2124.4	2474.9
62.5°	195.9	247.1	312.0	413.3	558.6	757.8	1050.1	1399.0	1755.1	2117.7	2510.7
63°	184.9	233.3	296.6	396.8	532.7	739.1	1030.8	1379.2	1738.6	2104.0	2505.7
65°	148.6	180.0	230.6	320.3	445.8	647.2	935.0	1277.4	1649.9	2007.1	2434.2
67.5°	113.9	129.9	156.8	219.6	315.4	509.1	757.3	1082.5	1432.0	1767.7	2203.6
70°	97.4	104.6	116.1	145.8	200.3	321.4	531.6	807.4	1110.1	1401.2	1793.0
72.5°	88.6	91.9	98.0	110.6	137.6	192.6	339.0	525.6	755.1	998.9	1301.6
75°	81.5	84.2	89.2	95.8	105.7	128.2	193.2	321.4	490.9	656.0	878.4
77.5°	74.3	75.9	81.5	87.5	94.1	105.7	127.7	184.9	282.3	386.9	529.4
80°	68.2	67.1	71.0	80.9	87.5	94.1	100.7	120.0	160.7	211.9	286.2
82.5°	54.5	55.6	58.9	68.8	71.5	69.9	71.0	74.3	89.7	98.0	146.4
85°	36.9	34.1	33.6	34.7	34.7	33.0	33.0	32.5	35.8	40.7	69.9
87.5°	9.9	5.0	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: P153505

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

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	575.7	575.1	575.7	572.9	572.9	572.4	571.8	570.7	570.7	568.5	570.2
5°	586.7	585.6	583.4	580.1	578.4	576.2	576.2	574.0	572.4	570.2	570.7
7.5°	599.3	599.9	596.0	593.3	592.2	590.0	590.5	587.2	587.8	586.1	585.0
10°	606.5	606.5	607.6	607.0	608.1	608.1	609.8	607.6	606.5	604.8	604.8
12.5°	618.0	620.2	624.6	624.6	627.9	629.0	629.6	630.7	628.5	627.4	623.5
15°	646.7	652.2	656.0	661.5	668.1	670.3	670.3	668.1	667.0	665.4	658.2
17.5°	694.0	706.1	709.4	718.2	719.3	722.1	729.8	725.4	722.6	711.1	708.9
20°	742.4	757.8	773.2	784.2	789.8	800.8	802.4	800.2	789.2	778.2	773.2
22.5°	800.8	823.9	841.5	858.5	866.8	872.3	884.4	881.7	872.9	856.3	849.7
25°	883.3	911.9	930.6	951.6	962.6	968.1	980.2	980.2	970.8	965.9	965.3
27.5°	987.3	1022.6	1053.4	1060.5	1089.1	1095.7	1107.3	1107.3	1098.5	1092.4	1121.6
30°	1102.9	1139.8	1193.2	1228.9	1263.6	1297.7	1297.2	1299.4	1309.8	1315.3	1328.0
32.5°	1218.5	1264.2	1320.8	1398.4	1472.7	1536.0	1618.0	1670.3	1654.4	1609.8	1592.2
35°	1358.8	1409.4	1478.2	1556.4	1692.3	1774.3	1814.0	1842.0	1845.3	1851.4	1864.0
37.5°	1515.1	1599.9	1679.7	1768.3	1843.7	1943.3	2035.2	2108.9	2126.0	2160.7	2140.9
40°	1712.7	1807.3	1891.0	2005.5	2106.7	2226.7	2358.2	2459.5	2500.2	2487.0	2388.0
42.5°	1919.6	2036.8	2134.8	2269.6	2401.2	2559.7	2695.6	2837.1	2862.4	2760.6	2612.5
45°	2110.0	2255.3	2377.0	2517.3	2678.0	2867.9	3049.5	3194.8	3189.8	3015.4	2817.2
47.5°	2281.2	2459.5	2608.1	2790.8	2963.6	3189.8	3398.4	3505.7	3442.4	3236.1	2993.4
50°	2422.6	2645.0	2828.2	3013.2	3232.8	3505.2	3706.1	3766.6	3644.4	3419.9	3164.5
52.5°	2536.6	2815.6	3021.4	3234.4	3511.8	3798.5	3971.3	3948.8	3790.8	3560.2	3306.0
55°	2632.9	2946.0	3191.5	3443.0	3787.0	4051.1	4166.1	4105.6	3884.9	3651.0	3402.8
57.5°	2732.5	3072.6	3347.8	3639.5	4022.5	4249.3	4313.1	4188.7	3929.5	3685.7	3444.6
60°	2832.1	3178.3	3485.9	3811.2	4200.8	4411.1	4393.4	4207.4	3916.3	3660.4	3416.6
62.5°	2899.2	3241.0	3566.3	3916.8	4334.6	4493.6	4385.7	4140.8	3839.8	3560.8	3332.9
63°	2900.9	3243.2	3571.2	3924.0	4349.4	4496.4	4370.9	4117.2	3815.6	3540.4	3308.2
65°	2866.2	3201.9	3527.2	3891.5	4336.8	4433.1	4242.6	3977.4	3677.4	3399.5	3179.4
67.5°	2689.0	3031.3	3318.6	3662.0	4110.0	4137.5	3899.2	3685.1	3415.5	3127.6	2897.6
70°	2331.8	2616.4	2898.1	3184.9	3560.8	3555.8	3331.8	3222.8	2986.7	2658.7	2474.4
72.5°	1854.7	2110.0	2308.2	2500.2	2747.9	2697.8	2553.6	2583.9	2430.9	2186.0	2076.5
75°	1377.0	1657.7	1754.5	1832.7	1937.2	1937.8	1977.4	2063.3	2061.1	1925.1	1787.0
77.5°	903.1	1210.2	1242.7	1305.4	1430.9	1601.5	1777.6	1967.0	2014.3	1907.0	1702.8
80°	503.6	822.8	785.3	839.3	974.7	1206.4	1466.1	1675.3	1798.5	1738.6	1522.3
82.5°	257.6	474.4	453.5	528.3	637.9	839.3	1011.0	1171.7	1317.0	1308.7	1226.7
85°	133.7	259.8	295.5	334.6	389.6	461.7	526.7	573.5	634.0	740.8	777.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	39.6	28.6	78.7	112.3
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: P153505

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

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	577.3	577.3	577.3	577.3	577.3	577.3	577.3
2.5°	570.7	571.3	570.2	570.2	570.7	570.7	569.6
5°	569.6	569.6	568.5	567.4	566.3	566.3	565.2
7.5°	582.3	582.3	578.4	576.8	574.0	571.8	570.7
10°	601.0	597.7	593.3	590.0	585.6	580.6	577.9
12.5°	619.7	614.7	609.2	604.3	598.8	593.3	590.5
15°	650.5	643.9	636.8	630.7	623.0	614.7	611.4
17.5°	697.8	687.4	678.0	669.2	655.5	649.4	642.8
20°	760.6	745.2	733.1	718.2	701.1	695.6	687.4
22.5°	836.5	823.3	799.1	788.1	771.0	762.8	764.4
25°	952.1	935.0	907.0	896.5	894.9	876.7	867.9
27.5°	1102.9	1104.0	1078.1	1050.1	1034.7	1006.0	969.7
30°	1317.5	1302.7	1272.4	1243.8	1207.5	1153.5	1093.0
32.5°	1577.3	1544.3	1494.2	1440.8	1376.4	1293.3	1208.6
35°	1831.0	1773.2	1693.4	1604.3	1511.3	1407.8	1287.8
37.5°	2053.9	1964.2	1844.8	1742.4	1610.9	1481.5	1335.1
40°	2257.5	2146.4	1992.3	1859.6	1704.4	1538.2	1364.9
42.5°	2454.6	2313.7	2124.9	1945.5	1769.9	1576.2	1379.2
45°	2642.2	2460.6	2236.6	2023.1	1817.8	1601.0	1381.4
47.5°	2786.4	2588.3	2336.8	2079.2	1850.8	1619.7	1381.4
50°	2920.2	2696.2	2413.3	2123.3	1881.6	1632.3	1382.5
52.5°	3024.2	2772.1	2462.8	2154.6	1905.9	1641.7	1387.4
55°	3099.6	2821.6	2495.8	2173.9	1923.5	1654.9	1398.4
57.5°	3152.4	2854.1	2514.0	2190.9	1944.9	1678.0	1429.3
60°	3177.7	2914.1	2544.3	2225.1	1981.8	1727.0	1490.9
62.5°	3158.5	3007.1	2630.7	2282.9	2033.0	1803.5	1589.4
63°	3150.2	3024.2	2654.3	2295.5	2044.6	1820.0	1623.5
65°	3085.8	3041.2	2751.7	2359.4	2099.6	1893.2	1718.7
67.5°	2886.0	2974.1	2833.8	2467.2	2217.9	2071.0	1896.5
70°	2627.4	2874.5	2818.9	2481.0	2293.3	2216.8	2008.8
72.5°	2317.5	2573.4	2521.7	2297.7	2210.2	2218.5	1979.6
75°	1823.9	2015.9	1981.8	1903.1	1920.7	1981.3	1695.6
77.5°	1461.2	1435.3	1356.6	1362.1	1463.9	1534.9	1220.7
80°	1193.7	966.4	864.0	866.8	1044.6	1118.3	777.6
82.5°	1135.9	914.1	744.6	650.5	760.0	732.0	406.2
85°	809.0	810.7	672.5	546.5	529.4	450.2	253.2
87.5°	191.5	153.5	109.5	81.5	85.9	56.7	28.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)