

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: P153499

Luminaire Tested: **TLM-E02-LED-E1-SLR-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P153499  
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-7030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (42) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5082.7 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

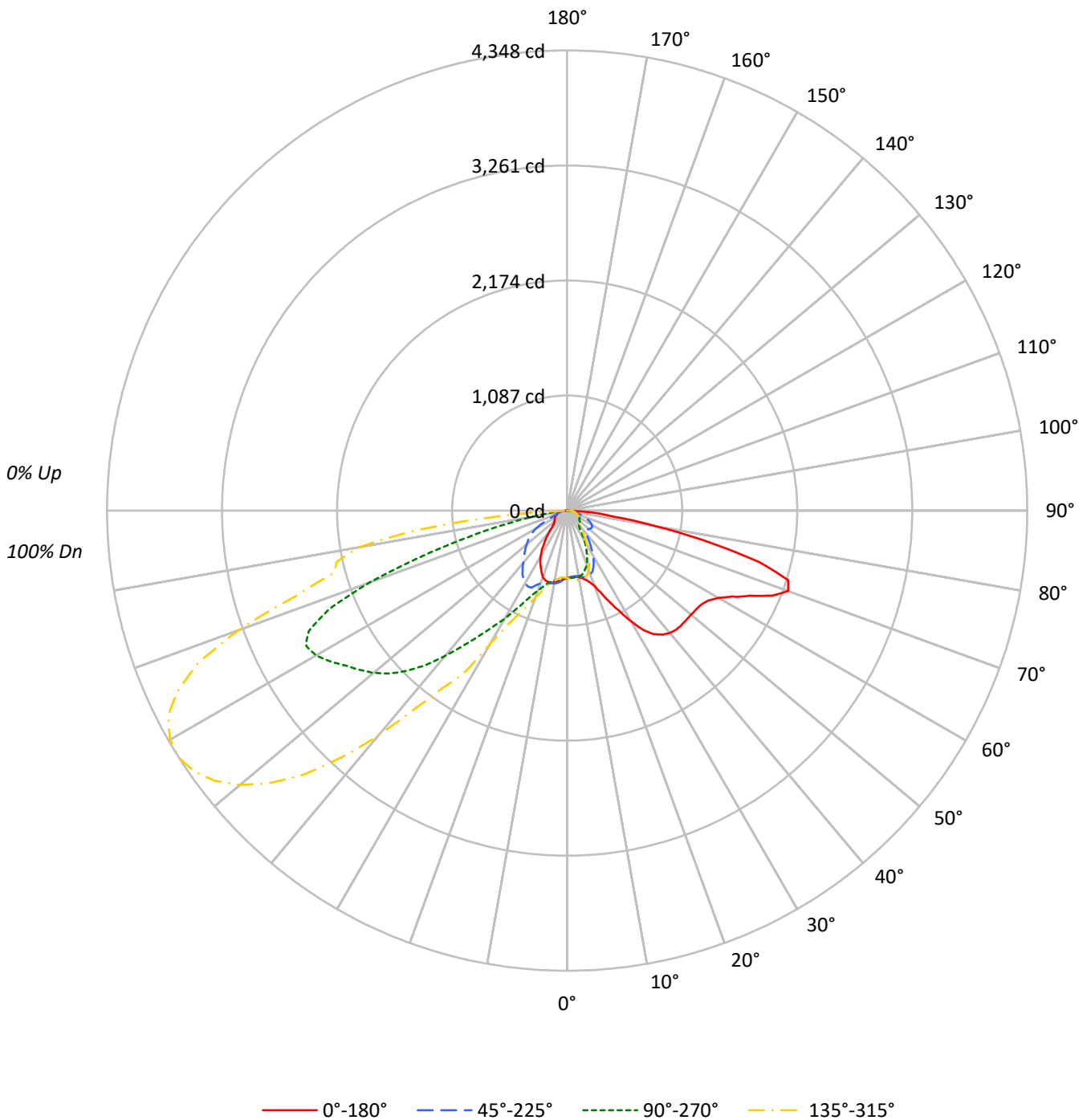
Input Watts (W): 52.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	20833	20833	20833	20833
5°	20474	20834	21829	21371
10°	21174	20913	22811	22224
15°	22844	20356	23584	24016
20°	26398	18768	23250	27877
25°	34557	15843	21212	34144
30°	45547	12271	18919	44308
35°	56734	8390	15155	57340
40°	64300	7336	11096	76252
45°	70499	7694	8340	98757
50°	77619	7881	7972	121061
55°	87986	8070	8138	145257
60°	107607	8859	8859	178629
65°	146767	9208	9354	207863
70°	211956	9756	9871	189192
75°	236425	10284	10901	122472
80°	161617	11101	12473	59470
85°	104827	13660	15045	28929



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.2	1.2
10°-20°	193.6	3.8
20°-30°	344.0	6.8
30°-40°	541.7	10.7
40°-50°	797.3	15.7
50°-60°	1059.0	20.8
60°-70°	1166.5	23.0
70°-80°	731.9	14.4
80°-90°	186.4	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°	599.8	11.8
0°-40°	1141.6	22.5
0°-60°	2997.9	59.0
0°-90°	5082.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5082.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	639	639	639	639	639	
5°	625	636	667	653	625	60
15°	676	603	698	711	676	196
25°	960	440	589	949	960	453
35°	1425	211	381	1440	1425	883
45°	1528	167	181	2141	1528	1182
55°	1547	142	143	2554	1547	1403
65°	1902	119	121	2693	1902	1914
75°	1876	82	86	972	1876	1835
85°	280	36	40	77	280	324
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°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	630.2	632.0	631.4	631.4	632.6	632.0	632.0	632.6	632.6	634.5	636.9
5°	625.3	624.7	623.5	624.7	624.7	624.7	622.3	624.1	624.7	625.9	625.9
7.5°	631.4	629.6	627.2	627.8	627.8	626.6	624.7	625.3	624.7	624.7	624.1
10°	639.3	635.1	632.0	632.0	632.0	630.8	627.8	629.6	629.6	629.0	629.6
12.5°	653.3	648.5	644.8	643.6	643.6	641.8	639.3	641.8	640.6	640.6	639.3
15°	676.5	671.0	666.7	663.1	663.7	663.7	660.7	658.8	656.4	653.3	647.3
17.5°	711.2	705.1	699.6	696.6	697.2	692.9	684.4	675.9	664.3	652.7	640.0
20°	760.5	758.7	751.4	748.3	741.0	730.7	706.9	686.8	664.3	642.4	620.5
22.5°	845.8	837.2	829.9	818.4	794.0	765.4	725.8	690.5	655.2	624.1	594.9
25°	960.2	945.0	909.1	873.8	823.8	772.7	719.1	673.4	629.6	588.8	552.9
27.5°	1072.9	1026.6	962.7	898.7	825.7	758.7	691.7	637.5	586.4	541.9	502.3
30°	1209.3	1131.3	1033.3	932.2	828.7	738.6	658.2	594.9	535.8	488.9	447.5
32.5°	1337.1	1224.5	1096.0	963.3	835.4	719.7	619.9	548.0	487.1	428.1	387.3
35°	1424.8	1278.7	1122.8	966.3	819.0	683.8	571.8	487.1	426.2	371.4	323.3
37.5°	1477.2	1302.4	1124.0	944.4	780.6	635.1	510.9	426.8	370.8	318.5	280.7
40°	1510.1	1307.9	1108.2	912.7	731.9	573.6	450.0	374.5	323.3	281.3	252.1
42.5°	1525.9	1299.4	1082.6	872.6	682.6	518.8	407.4	336.1	291.7	261.8	239.9
45°	1528.3	1284.2	1055.2	836.0	638.7	479.2	378.1	320.3	283.7	258.8	236.9
47.5°	1528.3	1270.8	1033.3	809.2	610.1	462.2	375.7	327.0	291.1	263.0	236.9
50°	1529.6	1266.5	1024.2	795.8	600.4	471.3	396.4	347.7	306.9	270.4	236.3
52.5°	1535.0	1272.0	1031.5	806.2	618.0	507.8	435.4	378.7	327.6	278.9	236.3
55°	1547.2	1290.3	1062.5	842.1	665.5	563.2	482.2	412.2	344.0	282.5	232.6
57.5°	1581.3	1336.5	1119.2	911.5	746.5	627.2	524.9	436.0	350.1	279.5	225.3
60°	1649.5	1428.5	1216.0	1008.9	832.4	682.0	549.8	439.6	344.6	269.7	213.7
62.5°	1758.5	1533.8	1333.5	1114.9	908.5	712.4	552.9	430.5	330.0	252.1	196.7
63°	1796.3	1560.0	1358.5	1135.0	918.2	714.8	550.4	426.8	326.4	247.2	194.2
65°	1901.6	1670.2	1444.9	1205.6	945.6	715.5	537.0	408.6	309.3	228.3	177.2
67.5°	2098.3	1815.1	1553.9	1261.0	955.4	696.0	503.0	374.5	273.4	199.1	155.9
70°	2222.5	1896.1	1595.9	1262.3	926.7	640.6	443.9	319.1	227.7	165.0	134.0
72.5°	2190.2	1816.3	1485.1	1148.4	803.1	535.2	356.8	250.9	177.8	132.1	111.4
75°	1876.0	1511.9	1211.7	889.6	607.1	393.3	261.2	179.0	131.5	103.5	93.2
77.5°	1350.5	1088.1	868.9	633.9	409.2	254.5	173.5	127.9	99.9	85.2	76.7
80°	860.4	638.1	531.6	381.2	239.3	157.7	119.3	96.8	82.2	71.2	65.8
82.5°	449.4	314.8	255.7	194.8	132.7	104.1	87.7	79.2	67.6	59.1	56.0
85°	280.1	185.7	137.6	96.2	66.4	59.7	54.8	53.6	48.1	42.6	40.8
87.5°	31.7	28.6	29.8	18.9	14.0	15.2	14.6	19.5	18.9	14.0	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	634.5	635.7	635.7	637.5	637.5	638.7	640.0	640.0	641.2	641.8	643.0
5°	627.2	627.2	627.2	629.6	630.2	633.9	635.1	636.3	637.5	641.8	644.2
7.5°	625.3	622.9	624.1	624.1	625.9	629.0	632.0	633.9	635.7	641.2	644.8
10°	629.0	627.2	625.3	625.3	625.9	627.2	629.6	631.4	632.6	638.1	641.2
12.5°	638.7	634.5	630.8	627.8	625.3	624.7	623.5	624.1	625.3	628.4	632.6
15°	640.6	632.6	624.7	616.8	610.7	607.1	604.0	602.8	602.8	604.6	609.5
17.5°	628.4	615.0	603.4	593.1	586.4	579.7	576.6	574.2	573.0	575.4	576.0
20°	602.2	586.4	570.5	558.4	546.2	544.4	539.5	540.7	541.9	545.6	547.4
22.5°	566.3	547.4	527.9	515.1	505.4	496.9	491.4	493.8	495.6	499.3	501.1
25°	522.4	495.0	474.3	461.5	451.2	443.9	437.8	440.2	437.8	442.1	448.8
27.5°	470.7	438.4	416.5	401.9	394.6	388.5	382.4	382.4	388.5	388.5	394.0
30°	408.0	384.2	355.6	340.4	331.2	327.6	327.0	325.8	330.0	332.5	338.5
32.5°	348.9	319.7	292.3	277.7	269.7	265.5	266.1	266.7	268.5	272.2	281.9
35°	289.2	263.7	244.2	227.7	219.8	211.9	211.9	210.7	212.5	216.8	228.3
37.5°	250.9	228.3	213.1	200.3	192.4	187.5	183.3	181.5	181.5	183.3	187.5
40°	229.6	213.1	199.1	188.2	180.8	176.6	174.1	172.3	171.1	171.1	171.7
42.5°	219.8	202.8	188.8	179.0	173.5	171.1	170.5	169.9	168.1	167.4	166.8
45°	214.9	195.5	179.6	171.7	167.4	166.2	166.8	166.8	166.2	165.0	162.6
47.5°	211.3	188.8	172.9	165.6	163.8	163.8	163.8	163.8	163.2	162.6	160.7
50°	205.2	178.4	161.4	155.9	154.7	154.7	155.3	155.3	156.5	155.3	154.1
52.5°	198.5	168.7	151.6	146.7	146.1	145.5	145.5	145.5	146.1	146.1	145.5
55°	191.2	161.4	146.7	143.1	143.7	143.1	142.5	141.9	141.9	141.3	140.0
57.5°	183.9	155.3	143.1	140.7	141.3	141.3	140.0	138.8	138.2	136.4	135.2
60°	172.9	146.7	135.8	134.6	136.4	136.4	136.4	135.8	135.8	135.2	132.1
62.5°	158.3	134.6	126.0	126.7	127.3	128.5	128.5	128.5	128.5	127.3	124.2
63°	155.3	132.1	124.2	124.2	126.0	126.0	126.7	126.0	126.7	125.4	121.8
65°	143.1	124.2	118.1	118.7	120.0	120.0	120.0	119.3	119.3	117.5	115.7
67.5°	129.1	114.5	110.8	111.4	112.0	113.3	112.6	112.6	113.3	112.0	110.2
70°	113.3	104.1	101.7	102.3	102.9	102.9	102.3	102.3	102.9	101.7	99.9
72.5°	101.1	97.4	95.6	95.6	94.4	94.4	93.2	92.6	91.9	91.9	90.1
75°	85.2	84.6	85.2	86.5	85.2	84.0	83.4	81.6	80.4	80.4	79.8
77.5°	73.1	73.1	74.3	76.1	76.7	76.7	74.9	71.9	71.2	71.2	71.2
80°	63.3	62.1	62.1	63.9	65.8	65.2	62.1	59.1	59.1	62.1	62.7
82.5°	55.4	55.4	53.6	54.2	53.6	53.0	49.9	48.1	47.5	49.9	52.4
85°	43.8	44.4	43.8	43.2	42.6	40.8	38.4	36.5	35.9	38.4	42.0
87.5°	17.7	17.0	16.4	17.0	16.4	17.7	17.0	15.8	15.2	17.0	20.7
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°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	643.6	644.8	646.0	646.0	647.3	646.7	647.3	647.9	647.9	648.5	648.5
5°	647.3	649.1	651.5	654.0	654.6	656.4	658.2	657.0	658.8	661.3	661.3
7.5°	648.5	652.7	654.6	658.2	658.8	661.3	665.5	662.5	666.1	668.0	668.6
10°	646.7	650.9	654.0	658.2	660.0	664.3	668.6	667.4	671.6	674.7	675.3
12.5°	635.7	640.0	646.7	652.7	657.6	664.3	672.2	669.8	675.9	679.5	681.4
15°	614.4	618.6	625.9	635.7	644.8	655.2	665.5	667.4	673.4	677.7	679.5
17.5°	580.9	586.4	594.3	604.6	616.2	633.9	647.3	654.0	662.5	664.9	668.0
20°	549.8	555.3	560.2	566.3	574.8	591.9	609.5	622.9	633.9	643.0	645.4
22.5°	508.4	513.3	519.4	524.3	530.4	542.5	557.1	572.4	589.4	594.9	601.0
25°	458.5	461.5	470.1	473.1	477.4	487.7	499.3	510.3	526.7	538.3	541.3
27.5°	404.9	408.0	415.9	417.7	423.2	432.9	441.5	445.7	460.9	473.1	482.9
30°	342.8	350.7	360.5	361.7	367.8	373.9	381.8	386.0	400.0	412.8	425.0
32.5°	289.2	297.1	305.1	309.9	313.0	317.8	325.8	330.0	343.4	355.0	367.2
35°	234.4	244.2	252.7	259.4	261.8	267.9	274.0	278.3	292.3	302.6	311.1
37.5°	193.0	200.3	209.5	216.2	222.9	227.1	234.4	240.5	249.0	254.5	263.7
40°	172.9	176.6	181.5	186.9	192.4	197.3	202.8	207.6	213.1	220.4	226.5
42.5°	166.2	166.8	166.8	168.7	171.7	174.1	179.0	182.7	186.3	191.8	194.8
45°	161.4	160.7	159.5	158.3	158.9	160.1	163.2	165.6	169.9	172.3	172.9
47.5°	158.9	156.5	154.1	152.2	151.6	152.2	154.7	157.1	159.5	161.4	162.0
50°	151.0	149.2	145.5	143.1	141.9	143.1	146.1	147.4	149.8	151.6	152.2
52.5°	143.1	140.7	138.2	135.8	135.8	136.4	138.8	141.3	143.7	144.3	145.5
55°	138.2	134.6	132.1	130.3	129.1	130.9	132.7	135.8	138.8	139.4	140.7
57.5°	133.3	129.7	127.3	125.4	124.2	126.0	127.9	132.1	135.8	135.8	135.8
60°	130.3	127.3	123.6	121.8	120.0	121.8	124.2	128.5	132.1	131.5	130.9
62.5°	121.8	118.7	116.9	116.9	115.1	118.1	120.6	125.4	126.0	124.8	123.6
63°	119.3	116.9	115.7	115.7	114.5	117.5	120.0	124.2	124.2	123.0	121.8
65°	113.3	111.4	110.2	111.4	111.4	114.5	115.1	118.1	117.5	115.7	115.1
67.5°	108.4	107.2	105.9	105.9	105.9	106.6	107.2	108.4	107.8	107.2	107.8
70°	100.5	99.9	98.6	98.6	98.0	98.0	98.0	98.6	98.6	99.3	99.9
72.5°	90.7	89.5	89.5	90.1	88.9	89.5	90.1	89.5	90.7	90.7	91.3
75°	79.8	79.2	80.4	81.6	81.0	81.0	81.6	81.6	82.2	82.2	82.8
77.5°	71.2	71.9	72.5	73.7	74.3	74.3	74.3	73.7	74.3	74.3	74.9
80°	63.3	64.5	65.8	67.0	67.6	67.6	67.6	67.0	67.0	67.0	67.0
82.5°	57.2	59.1	60.3	60.9	60.9	60.9	60.9	60.9	60.9	59.7	58.5
85°	48.1	51.8	51.8	52.4	50.5	49.3	48.1	48.7	49.3	46.9	46.3
87.5°	24.4	24.4	25.6	26.8	27.4	27.4	31.1	29.2	28.6	28.0	26.8
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: P153499

CATALOG NUMBER: TLM-E02-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	649.1	648.5	649.7	648.5	649.1	649.7	648.5	650.3	651.5	649.7	647.9
5°	662.5	662.5	665.5	666.7	667.4	671.0	669.2	670.4	671.6	671.0	671.6
7.5°	671.0	673.4	676.5	679.5	680.1	683.2	682.6	684.4	685.6	688.7	688.7
10°	678.3	681.4	685.6	688.7	691.7	694.1	695.4	699.0	699.6	702.1	702.1
12.5°	685.0	688.7	692.9	697.8	700.8	705.7	706.3	711.8	713.6	714.2	712.4
15°	683.8	688.1	692.9	698.4	703.9	710.0	713.6	719.1	722.2	723.4	720.3
17.5°	672.2	675.9	682.0	689.3	696.0	703.9	710.6	718.5	723.4	724.6	724.0
20°	649.7	652.1	660.0	669.8	677.7	689.9	699.6	711.8	719.7	725.8	727.6
22.5°	605.2	611.3	619.3	630.2	641.8	657.0	671.0	688.7	705.7	720.3	734.9
25°	551.7	562.6	574.8	589.4	603.4	619.3	635.1	655.2	680.1	710.6	745.3
27.5°	497.5	516.3	531.6	550.4	566.9	582.7	600.4	622.3	649.7	686.2	730.7
30°	442.7	464.0	480.4	502.3	524.3	545.6	563.2	586.4	613.2	650.3	699.0
32.5°	384.2	405.5	425.0	445.1	469.5	495.0	516.3	545.0	573.6	611.9	661.3
35°	323.9	342.8	359.3	380.6	407.4	434.8	462.8	495.6	526.7	566.9	619.3
37.5°	271.6	285.0	300.8	319.7	340.4	369.6	401.3	440.2	475.6	519.4	573.0
40°	228.3	235.6	244.8	260.6	279.5	308.1	339.2	380.6	423.2	471.3	523.0
42.5°	194.8	198.5	200.9	211.3	226.5	254.5	284.4	324.5	371.4	423.8	476.2
45°	172.9	174.8	175.4	180.8	191.8	216.2	247.2	281.3	326.4	377.5	432.3
47.5°	162.6	164.4	165.6	166.8	173.5	192.4	220.4	252.7	294.1	341.0	397.0
50°	154.1	155.9	157.7	157.1	160.1	172.3	196.1	225.9	264.9	308.1	363.5
52.5°	145.5	146.7	146.7	146.7	148.6	156.5	173.5	200.9	236.9	277.7	332.5
55°	140.7	141.9	142.5	143.1	143.7	148.0	160.7	182.7	213.7	251.5	300.8
57.5°	135.8	136.4	137.6	138.2	139.4	141.9	149.8	165.6	191.8	223.5	264.9
60°	131.5	132.7	135.2	135.8	137.0	137.6	141.3	151.0	168.1	192.4	225.9
62.5°	124.8	126.7	129.1	129.7	130.9	131.5	132.1	137.6	145.5	160.1	185.1
63°	123.0	124.8	127.9	128.5	129.1	129.1	129.7	133.3	140.7	153.4	171.7
65°	116.3	118.7	120.6	121.2	121.8	121.8	121.2	122.4	123.0	128.5	139.4
67.5°	109.0	110.8	112.0	112.6	112.0	112.6	112.0	110.8	109.6	110.8	115.7
70°	101.7	102.9	102.9	103.5	104.1	104.7	103.5	102.3	101.1	100.5	103.5
72.5°	93.2	94.4	94.4	95.0	95.0	96.2	96.2	95.6	95.6	96.2	96.8
75°	84.6	85.9	85.2	86.5	86.5	88.3	88.3	88.9	90.1	89.5	88.9
77.5°	76.7	77.3	77.3	77.9	78.5	81.6	83.4	84.0	84.0	82.8	81.6
80°	68.2	68.2	67.0	66.4	67.0	70.0	73.7	74.3	76.1	75.5	76.1
82.5°	57.2	54.8	53.0	53.0	54.2	56.0	57.2	58.5	59.7	59.7	60.9
85°	43.8	41.4	39.6	40.2	42.0	42.6	42.0	42.0	44.4	46.3	44.4
87.5°	26.2	23.7	22.5	20.7	21.3	23.1	22.5	20.7	21.3	17.0	15.8
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: P153499

CATALOG NUMBER: TLM-E02-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	649.1	648.5	647.3	645.4	644.8	643.6	644.2	642.4	641.2	640.0	638.1
5°	671.6	671.6	668.0	668.0	666.1	665.5	661.3	659.4	655.8	657.0	652.7
7.5°	687.4	689.3	685.0	684.4	682.0	681.4	675.9	674.1	671.0	669.8	666.1
10°	699.0	699.0	693.5	689.3	686.2	683.2	677.7	675.3	672.8	673.4	671.0
12.5°	708.2	703.9	696.0	689.9	685.6	682.6	678.3	676.5	675.9	680.1	680.8
15°	715.5	709.4	699.6	695.4	691.7	691.1	691.1	692.9	697.2	705.1	711.2
17.5°	719.7	716.1	711.2	710.0	716.1	719.7	724.6	730.1	736.2	747.1	753.8
20°	727.6	730.1	733.7	738.6	748.3	757.5	763.6	771.5	778.8	792.2	803.1
22.5°	748.3	762.3	773.9	783.7	798.3	811.1	819.0	829.9	835.4	844.5	861.6
25°	775.1	803.7	828.1	848.8	871.3	884.7	895.7	909.7	918.2	933.4	948.7
27.5°	767.2	808.0	844.5	882.9	914.0	948.7	973.0	996.2	1010.8	1033.3	1053.4
30°	742.9	791.6	840.9	891.4	940.8	990.7	1037.0	1079.0	1111.2	1143.5	1176.4
32.5°	710.0	766.0	826.3	888.4	952.9	1022.3	1086.3	1149.6	1203.2	1250.1	1295.7
35°	672.2	735.6	798.3	875.0	954.8	1043.0	1131.9	1219.6	1301.2	1384.0	1440.0
37.5°	627.2	691.7	761.7	850.0	943.8	1052.8	1166.0	1280.5	1396.2	1507.6	1604.5
40°	579.1	644.8	718.5	814.1	920.0	1046.7	1188.0	1342.0	1500.9	1662.3	1790.8
42.5°	536.4	604.0	684.4	781.2	896.3	1038.8	1205.6	1395.0	1589.2	1788.9	1977.7
45°	495.0	569.3	654.0	758.1	885.9	1044.9	1231.8	1444.3	1668.4	1910.7	2140.9
47.5°	457.9	533.4	615.6	729.5	870.7	1047.9	1257.4	1493.6	1743.3	2005.7	2279.1
50°	424.4	497.5	578.5	692.9	847.0	1046.1	1280.5	1538.1	1807.8	2080.6	2385.7
52.5°	391.5	465.8	548.6	657.6	817.8	1035.7	1291.5	1574.6	1867.5	2156.1	2471.5
55°	359.3	432.3	515.7	624.1	779.4	1008.9	1290.3	1598.4	1915.0	2227.4	2554.3
57.5°	321.5	390.9	472.5	587.0	738.6	967.5	1272.0	1609.3	1955.8	2298.0	2653.6
60°	274.6	339.8	418.3	532.8	685.0	914.6	1233.6	1603.2	1979.5	2350.4	2738.2
62.5°	216.8	273.4	345.2	457.3	618.0	838.5	1161.8	1547.8	1941.8	2343.0	2777.8
63°	204.6	258.2	328.2	439.0	589.4	817.8	1140.5	1525.9	1923.5	2327.8	2772.3
65°	164.4	199.1	255.1	354.4	493.2	716.1	1034.5	1413.3	1825.5	2220.7	2693.2
67.5°	126.0	143.7	173.5	243.0	348.9	563.2	837.8	1197.7	1584.4	1955.8	2438.0
70°	107.8	115.7	128.5	161.4	221.6	355.6	588.2	893.3	1228.2	1550.3	1983.8
72.5°	98.0	101.7	108.4	122.4	152.2	213.1	375.1	581.5	835.4	1105.2	1440.0
75°	90.1	93.2	98.6	105.9	116.9	141.9	213.7	355.6	543.1	725.8	971.8
77.5°	82.2	84.0	90.1	96.8	104.1	116.9	141.3	204.6	312.4	428.1	585.8
80°	75.5	74.3	78.5	89.5	96.8	104.1	111.4	132.7	177.8	234.4	316.6
82.5°	60.3	61.5	65.2	76.1	79.2	77.3	78.5	82.2	99.3	108.4	162.0
85°	40.8	37.8	37.1	38.4	38.4	36.5	36.5	35.9	39.6	45.1	77.3
87.5°	11.0	5.5	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



TEST NUMBER: P153499

CATALOG NUMBER: TLM-E02-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	636.9	636.3	636.9	633.9	633.9	633.3	632.6	631.4	631.4	629.0	630.8
5°	649.1	647.9	645.4	641.8	640.0	637.5	637.5	635.1	633.3	630.8	631.4
7.5°	663.1	663.7	659.4	656.4	655.2	652.7	653.3	649.7	650.3	648.5	647.3
10°	671.0	671.0	672.2	671.6	672.8	672.8	674.7	672.2	671.0	669.2	669.2
12.5°	683.8	686.2	691.1	691.1	694.8	696.0	696.6	697.8	695.4	694.1	689.9
15°	715.5	721.5	725.8	731.9	739.2	741.6	741.6	739.2	738.0	736.2	728.2
17.5°	767.8	781.2	784.9	794.6	795.8	798.9	807.4	802.5	799.5	786.7	784.3
20°	821.4	838.5	855.5	867.7	873.8	885.9	887.8	885.3	873.2	861.0	855.5
22.5°	885.9	911.5	931.0	949.9	959.0	965.1	978.5	975.5	965.7	947.4	940.1
25°	977.3	1008.9	1029.7	1052.8	1065.0	1071.1	1084.5	1084.5	1074.1	1068.6	1068.0
27.5°	1092.4	1131.3	1165.4	1173.4	1205.0	1212.3	1225.1	1225.1	1215.4	1208.7	1240.9
30°	1220.2	1261.0	1320.1	1359.7	1398.0	1435.8	1435.2	1437.6	1449.2	1455.3	1469.3
32.5°	1348.1	1398.6	1461.4	1547.2	1629.4	1699.4	1790.2	1848.0	1830.4	1781.0	1761.5
35°	1503.4	1559.4	1635.5	1722.0	1872.4	1963.1	2006.9	2038.0	2041.6	2048.3	2062.3
37.5°	1676.3	1770.1	1858.4	1956.4	2039.8	2150.0	2251.7	2333.3	2352.2	2390.5	2368.6
40°	1894.9	1999.6	2092.2	2218.8	2330.9	2463.6	2609.1	2721.2	2766.2	2751.6	2642.0
42.5°	2123.8	2253.5	2361.9	2511.1	2656.6	2832.0	2982.4	3138.9	3166.9	3054.2	2890.4
45°	2334.5	2495.3	2629.8	2785.1	2962.9	3173.0	3373.9	3534.7	3529.2	3336.2	3117.0
47.5°	2523.9	2721.2	2885.6	3087.7	3278.9	3529.2	3760.0	3878.7	3808.7	3580.3	3311.8
50°	2680.4	2926.4	3129.1	3333.7	3576.7	3878.1	4100.3	4167.3	4032.1	3783.7	3501.2
52.5°	2806.4	3115.1	3342.9	3578.5	3885.4	4202.6	4393.8	4368.9	4194.1	3939.0	3657.7
55°	2913.0	3259.4	3531.0	3809.3	4189.8	4482.1	4609.4	4542.4	4298.2	4039.4	3764.8
57.5°	3023.2	3399.5	3703.9	4026.7	4450.5	4701.3	4772.0	4634.3	4347.5	4077.8	3811.1
60°	3133.4	3516.4	3856.8	4216.6	4647.7	4880.3	4860.9	4655.0	4332.9	4049.8	3780.1
62.5°	3207.7	3585.8	3945.7	4333.5	4795.7	4971.7	4852.3	4581.4	4248.3	3939.6	3687.5
63°	3209.5	3588.2	3951.2	4341.5	4812.1	4974.7	4835.9	4555.2	4221.5	3917.1	3660.1
65°	3171.2	3542.6	3902.4	4305.5	4798.1	4904.7	4694.0	4400.5	4068.7	3761.2	3517.6
67.5°	2975.1	3353.8	3671.7	4051.6	4547.3	4577.7	4314.1	4077.2	3778.8	3460.4	3205.9
70°	2579.9	2894.7	3206.5	3523.7	3939.6	3934.1	3686.3	3565.7	3304.5	2941.6	2737.6
72.5°	2052.0	2334.5	2553.7	2766.2	3040.2	2984.8	2825.3	2858.8	2689.5	2418.6	2297.4
75°	1523.5	1834.0	1941.2	2027.6	2143.3	2143.9	2187.8	2282.8	2280.3	2129.9	1977.1
77.5°	999.2	1339.0	1374.9	1444.3	1583.1	1771.9	1966.7	2176.2	2228.6	2109.8	1883.9
80°	557.1	910.3	868.9	928.6	1078.4	1334.7	1622.1	1853.5	1989.9	1923.5	1684.2
82.5°	285.0	524.9	501.7	584.5	705.7	928.6	1118.5	1296.3	1457.1	1448.0	1357.2
85°	148.0	287.4	327.0	370.2	431.1	510.9	582.7	634.5	701.5	819.6	859.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	43.8	31.7	87.1	124.2
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: P153499

CATALOG NUMBER: TLM-E02-LED-E1-SLR-7030

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	638.7	638.7	638.7	638.7	638.7	638.7	638.7
2.5°	631.4	632.0	630.8	630.8	631.4	631.4	630.2
5°	630.2	630.2	629.0	627.8	626.6	626.6	625.3
7.5°	644.2	644.2	640.0	638.1	635.1	632.6	631.4
10°	664.9	661.3	656.4	652.7	647.9	642.4	639.3
12.5°	685.6	680.1	674.1	668.6	662.5	656.4	653.3
15°	719.7	712.4	704.5	697.8	689.3	680.1	676.5
17.5°	772.1	760.5	750.2	740.4	725.2	718.5	711.2
20°	841.5	824.5	811.1	794.6	775.7	769.6	760.5
22.5°	925.5	910.9	884.1	871.9	853.1	843.9	845.8
25°	1053.4	1034.5	1003.5	991.9	990.1	970.0	960.2
27.5°	1220.2	1221.5	1192.8	1161.8	1144.7	1113.1	1072.9
30°	1457.7	1441.3	1407.8	1376.1	1335.9	1276.3	1209.3
32.5°	1745.1	1708.6	1653.2	1594.1	1522.9	1430.9	1337.1
35°	2025.8	1961.9	1873.6	1774.9	1672.0	1557.6	1424.8
37.5°	2272.4	2173.2	2041.0	1927.8	1782.3	1639.2	1477.2
40°	2497.7	2374.7	2204.2	2057.5	1885.8	1701.9	1510.1
42.5°	2715.7	2559.8	2351.0	2152.5	1958.2	1743.9	1525.9
45°	2923.3	2722.4	2474.6	2238.3	2011.2	1771.3	1528.3
47.5°	3082.9	2863.7	2585.4	2300.4	2047.7	1792.0	1528.3
50°	3230.8	2983.0	2670.0	2349.1	2081.8	1806.0	1529.6
52.5°	3345.9	3067.0	2724.8	2383.8	2108.6	1816.3	1535.0
55°	3429.3	3121.8	2761.4	2405.2	2128.1	1831.0	1547.2
57.5°	3487.8	3157.8	2781.5	2424.0	2151.9	1856.5	1581.3
60°	3515.8	3224.1	2814.9	2461.8	2192.6	1910.7	1649.5
62.5°	3494.5	3327.0	2910.5	2525.7	2249.3	1995.4	1758.5
63°	3485.3	3345.9	2936.7	2539.7	2262.1	2013.6	1796.3
65°	3414.1	3364.8	3044.5	2610.4	2323.0	2094.6	1901.6
67.5°	3193.1	3290.5	3135.2	2729.7	2453.9	2291.3	2098.3
70°	2906.9	3180.3	3118.8	2744.9	2537.3	2452.7	2222.5
72.5°	2564.1	2847.2	2790.0	2542.2	2445.3	2454.5	2190.2
75°	2017.9	2230.4	2192.6	2105.6	2125.1	2192.0	1876.0
77.5°	1616.6	1588.0	1500.9	1507.0	1619.7	1698.2	1350.5
80°	1320.7	1069.2	956.0	959.0	1155.7	1237.3	860.4
82.5°	1256.8	1011.4	823.8	719.7	840.9	809.8	449.4
85°	895.1	896.9	744.1	604.6	585.8	498.1	280.1
87.5°	211.9	169.9	121.2	90.1	95.0	62.7	31.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)