

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: P153503

Luminaire Tested: **TLM-F02-LED-E1-SLR-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P153503  
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-8030  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (14) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

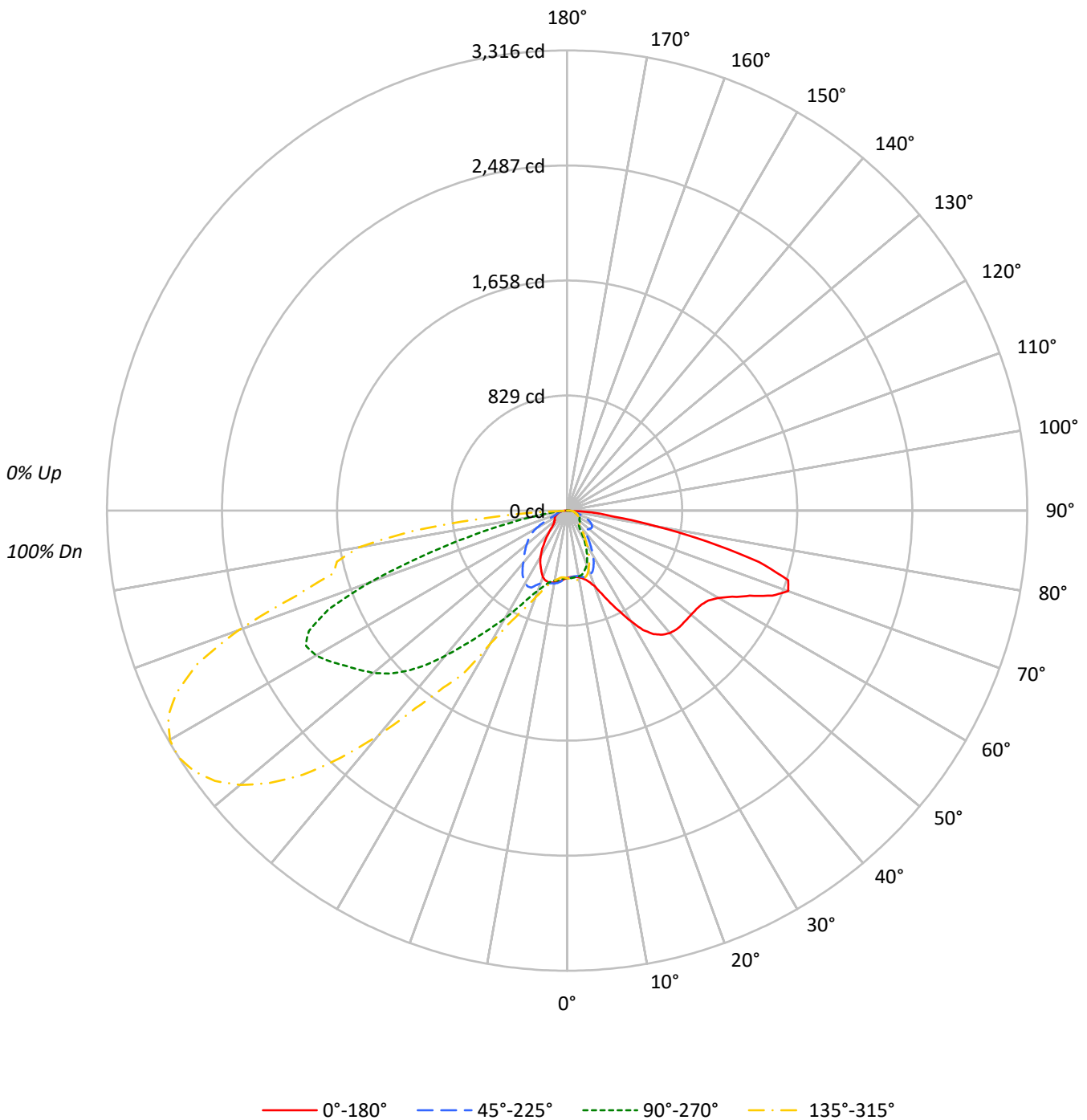
Lumens per Lamp: N/A  
Luminaire Lumens: 3877.3 lumens  
Efficiency: N/A  
Efficacy: 70.5 lumens/watt  
Spacing Criteria (0/90/45): 1.93 / 2.47 / 2.48  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
CIE Type: Direct

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°	15895	15895	15895	15895
5°	15618	15893	16653	16303
10°	16153	15954	17399	16955
15°	17425	15527	17992	18319
20°	20136	14318	17734	21268
25°	26363	12085	16181	26046
30°	34745	9359	14433	33800
35°	43279	6399	11559	43741
40°	49048	5599	8465	58168
45°	53781	5872	6366	75333
50°	59209	6008	6079	92350
55°	67121	6153	6210	110807
60°	82086	6758	6758	136265
65°	111958	7023	7131	158560
70°	161688	7439	7534	144321
75°	180356	7839	8318	93423
80°	123279	8472	9505	45363
85°	79977	10442	11489	22081



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.4	1.2
10°-20°	147.7	3.8
20°-30°	262.4	6.8
30°-40°	413.3	10.7
40°-50°	608.2	15.7
50°-60°	807.9	20.8
60°-70°	889.9	23.0
70°-80°	558.3	14.4
80°-90°	142.2	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°	457.6	11.8
0°-40°	870.9	22.5
0°-60°	2286.9	59.0
0°-90°	3877.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3877.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	487	487	487	487	487	
5°	477	485	509	498	477	46
15°	516	460	533	542	516	149
25°	732	336	450	724	732	346
35°	1087	161	290	1098	1087	673
45°	1166	127	138	1633	1166	901
55°	1180	108	109	1948	1180	1071
65°	1451	91	92	2054	1451	1460
75°	1431	62	66	741	1431	1400
85°	214	28	31	59	214	247
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°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	480.7	482.1	481.7	481.7	482.6	482.1	482.1	482.6	482.6	484.0	485.9
5°	477.0	476.6	475.6	476.6	476.6	476.6	474.7	476.1	476.6	477.5	477.5
7.5°	481.7	480.3	478.4	478.9	478.9	478.0	476.6	477.0	476.6	476.6	476.1
10°	487.7	484.5	482.1	482.1	482.1	481.2	478.9	480.3	480.3	479.8	480.3
12.5°	498.4	494.7	491.9	491.0	491.0	489.6	487.7	489.6	488.6	488.6	487.7
15°	516.0	511.9	508.6	505.8	506.3	506.3	504.0	502.6	500.7	498.4	493.8
17.5°	542.5	537.9	533.7	531.4	531.8	528.6	522.1	515.6	506.8	497.9	488.2
20°	580.1	578.8	573.2	570.9	565.3	557.4	539.3	523.9	506.8	490.0	473.3
22.5°	645.2	638.7	633.1	624.3	605.7	583.9	553.7	526.7	499.8	476.1	453.8
25°	732.5	720.9	693.5	666.5	628.5	589.4	548.6	513.7	480.3	449.2	421.8
27.5°	818.4	783.1	734.4	685.6	629.8	578.8	527.7	486.3	447.3	413.4	383.2
30°	922.5	863.0	788.2	711.1	632.2	563.4	502.1	453.8	408.8	373.0	341.4
32.5°	1020.0	934.1	836.1	734.8	637.3	549.0	472.9	418.0	371.6	326.5	295.4
35°	1086.9	975.4	856.5	737.1	624.7	521.6	436.2	371.6	325.1	283.3	246.6
37.5°	1126.9	993.5	857.4	720.4	595.5	484.5	389.7	325.6	282.9	242.9	214.1
40°	1151.9	997.7	845.4	696.3	558.3	437.5	343.3	285.7	246.6	214.6	192.3
42.5°	1164.0	991.2	825.9	665.6	520.7	395.7	310.7	256.4	222.5	199.7	183.0
45°	1165.9	979.6	805.0	637.7	487.3	365.6	288.4	244.3	216.5	197.4	180.7
47.5°	1165.9	969.4	788.2	617.3	465.4	352.5	286.6	249.4	222.0	200.7	180.7
50°	1166.8	966.1	781.3	607.1	458.0	359.5	302.4	265.2	234.1	206.2	180.2
52.5°	1171.0	970.3	786.8	615.0	471.5	387.4	332.1	288.9	249.9	212.7	180.2
55°	1180.3	984.3	810.5	642.4	507.7	429.7	367.9	314.5	262.4	215.5	177.4
57.5°	1206.3	1019.6	853.7	695.3	569.5	478.4	400.4	332.6	267.1	213.2	171.9
60°	1258.3	1089.7	927.6	769.7	635.0	520.2	419.4	335.4	262.9	205.8	163.0
62.5°	1341.4	1170.1	1017.2	850.5	693.0	543.5	421.8	328.4	251.8	192.3	150.0
63°	1370.2	1190.0	1036.3	865.8	700.5	545.3	419.9	325.6	249.0	188.6	148.2
65°	1450.6	1274.1	1102.2	919.7	721.4	545.8	409.7	311.7	236.0	174.2	135.2
67.5°	1600.6	1384.6	1185.4	962.0	728.8	530.9	383.7	285.7	208.6	151.9	118.9
70°	1695.4	1446.4	1217.4	962.9	707.0	488.6	338.6	243.4	173.7	125.9	102.2
72.5°	1670.8	1385.6	1132.9	876.0	612.7	408.3	272.2	191.4	135.6	100.8	85.0
75°	1431.1	1153.3	924.3	678.6	463.1	300.1	199.3	136.6	100.3	79.0	71.1
77.5°	1030.2	830.0	662.8	483.5	312.1	194.2	132.4	97.5	76.2	65.0	58.5
80°	656.3	486.8	405.5	290.8	182.5	120.3	91.0	73.9	62.7	54.3	50.2
82.5°	342.8	240.1	195.1	148.6	101.3	79.4	66.9	60.4	51.6	45.1	42.7
85°	213.7	141.7	105.0	73.4	50.6	45.5	41.8	40.9	36.7	32.5	31.1
87.5°	24.2	21.8	22.8	14.4	10.7	11.6	11.1	14.9	14.4	10.7	11.1
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°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	484.0	484.9	484.9	486.3	486.3	487.3	488.2	488.2	489.1	489.6	490.5
5°	478.4	478.4	478.4	480.3	480.7	483.5	484.5	485.4	486.3	489.6	491.4
7.5°	477.0	475.2	476.1	476.1	477.5	479.8	482.1	483.5	484.9	489.1	491.9
10°	479.8	478.4	477.0	477.0	477.5	478.4	480.3	481.7	482.6	486.8	489.1
12.5°	487.3	484.0	481.2	478.9	477.0	476.6	475.6	476.1	477.0	479.4	482.6
15°	488.6	482.6	476.6	470.5	465.9	463.1	460.8	459.8	459.8	461.2	465.0
17.5°	479.4	469.1	460.3	452.4	447.3	442.2	439.9	438.0	437.1	438.9	439.4
20°	459.4	447.3	435.2	425.9	416.6	415.3	411.5	412.5	413.4	416.2	417.6
22.5°	432.0	417.6	402.7	393.0	385.5	379.0	374.8	376.7	378.1	380.9	382.3
25°	398.5	377.6	361.8	352.1	344.2	338.6	334.0	335.8	334.0	337.2	342.3
27.5°	359.1	334.4	317.7	306.6	301.0	296.3	291.7	291.7	296.3	296.3	300.5
30°	311.2	293.1	271.3	259.7	252.7	249.9	249.4	248.5	251.8	253.6	258.3
32.5°	266.2	243.9	223.0	211.8	205.8	202.5	203.0	203.4	204.8	207.6	215.1
35°	220.6	201.1	186.3	173.7	167.7	161.6	161.6	160.7	162.1	165.4	174.2
37.5°	191.4	174.2	162.6	152.8	146.8	143.1	139.8	138.4	138.4	139.8	143.1
40°	175.1	162.6	151.9	143.5	138.0	134.7	132.8	131.5	130.5	130.5	131.0
42.5°	167.7	154.7	144.0	136.6	132.4	130.5	130.1	129.6	128.2	127.7	127.3
45°	164.0	149.1	137.0	131.0	127.7	126.8	127.3	127.3	126.8	125.9	124.0
47.5°	161.2	144.0	131.9	126.3	124.9	124.9	124.9	124.9	124.5	124.0	122.6
50°	156.5	136.1	123.1	118.9	118.0	118.0	118.4	118.4	119.4	118.4	117.5
52.5°	151.4	128.7	115.7	111.9	111.5	111.0	111.0	111.0	111.5	111.5	111.0
55°	145.8	123.1	111.9	109.2	109.6	109.2	108.7	108.2	108.2	107.8	106.8
57.5°	140.3	118.4	109.2	107.3	107.8	107.8	106.8	105.9	105.4	104.0	103.1
60°	131.9	111.9	103.6	102.7	104.0	104.0	104.0	103.6	103.6	103.1	100.8
62.5°	120.8	102.7	96.1	96.6	97.1	98.0	98.0	98.0	98.0	97.1	94.8
63°	118.4	100.8	94.8	94.8	96.1	96.1	96.6	96.1	96.6	95.7	92.9
65°	109.2	94.8	90.1	90.6	91.5	91.5	91.5	91.0	91.0	89.6	88.3
67.5°	98.5	87.3	84.5	85.0	85.5	86.4	85.9	85.9	86.4	85.5	84.1
70°	86.4	79.4	77.6	78.0	78.5	78.5	78.0	78.0	78.5	77.6	76.2
72.5°	77.1	74.3	72.9	72.9	72.0	72.0	71.1	70.6	70.1	70.1	68.7
75°	65.0	64.6	65.0	66.0	65.0	64.1	63.6	62.2	61.3	61.3	60.8
77.5°	55.7	55.7	56.7	58.1	58.5	58.5	57.1	54.8	54.3	54.3	54.3
80°	48.3	47.4	47.4	48.8	50.2	49.7	47.4	45.1	45.1	47.4	47.8
82.5°	42.3	42.3	40.9	41.3	40.9	40.4	38.1	36.7	36.2	38.1	39.9
85°	33.4	33.9	33.4	33.0	32.5	31.1	29.3	27.9	27.4	29.3	32.0
87.5°	13.5	13.0	12.5	13.0	12.5	13.5	13.0	12.1	11.6	13.0	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



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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	491.0	491.9	492.8	492.8	493.8	493.3	493.8	494.2	494.2	494.7	494.7
5°	493.8	495.1	497.0	498.9	499.3	500.7	502.1	501.2	502.6	504.4	504.4
7.5°	494.7	497.9	499.3	502.1	502.6	504.4	507.7	505.4	508.2	509.5	510.0
10°	493.3	496.5	498.9	502.1	503.5	506.8	510.0	509.1	512.3	514.7	515.1
12.5°	484.9	488.2	493.3	497.9	501.6	506.8	512.8	510.9	515.6	518.4	519.8
15°	468.7	471.9	477.5	484.9	491.9	499.8	507.7	509.1	513.7	517.0	518.4
17.5°	443.1	447.3	453.3	461.2	470.1	483.5	493.8	498.9	505.4	507.2	509.5
20°	419.4	423.6	427.3	432.0	438.5	451.5	465.0	475.2	483.5	490.5	492.4
22.5°	387.8	391.6	396.2	399.9	404.6	413.9	425.0	436.6	449.6	453.8	458.5
25°	349.8	352.1	358.6	360.9	364.2	372.1	380.9	389.2	401.8	410.6	412.9
27.5°	308.9	311.2	317.2	318.6	322.8	330.3	336.8	340.0	351.6	360.9	368.3
30°	261.5	267.5	275.0	275.9	280.6	285.2	291.2	294.5	305.2	314.9	324.2
32.5°	220.6	226.7	232.7	236.4	238.7	242.5	248.5	251.8	262.0	270.8	280.1
35°	178.8	186.3	192.8	197.9	199.7	204.4	209.0	212.3	223.0	230.9	237.4
37.5°	147.2	152.8	159.8	164.9	170.0	173.3	178.8	183.5	190.0	194.2	201.1
40°	131.9	134.7	138.4	142.6	146.8	150.5	154.7	158.4	162.6	168.1	172.8
42.5°	126.8	127.3	127.3	128.7	131.0	132.8	136.6	139.3	142.1	146.3	148.6
45°	123.1	122.6	121.7	120.8	121.2	122.2	124.5	126.3	129.6	131.5	131.9
47.5°	121.2	119.4	117.5	116.1	115.7	116.1	118.0	119.8	121.7	123.1	123.6
50°	115.2	113.8	111.0	109.2	108.2	109.2	111.5	112.4	114.3	115.7	116.1
52.5°	109.2	107.3	105.4	103.6	103.6	104.0	105.9	107.8	109.6	110.1	111.0
55°	105.4	102.7	100.8	99.4	98.5	99.9	101.3	103.6	105.9	106.4	107.3
57.5°	101.7	98.9	97.1	95.7	94.8	96.1	97.5	100.8	103.6	103.6	103.6
60°	99.4	97.1	94.3	92.9	91.5	92.9	94.8	98.0	100.8	100.3	99.9
62.5°	92.9	90.6	89.2	89.2	87.8	90.1	92.0	95.7	96.1	95.2	94.3
63°	91.0	89.2	88.3	88.3	87.3	89.6	91.5	94.8	94.8	93.8	92.9
65°	86.4	85.0	84.1	85.0	85.0	87.3	87.8	90.1	89.6	88.3	87.8
67.5°	82.7	81.8	80.8	80.8	80.8	81.3	81.8	82.7	82.2	81.8	82.2
70°	76.6	76.2	75.2	75.2	74.8	74.8	74.8	75.2	75.2	75.7	76.2
72.5°	69.2	68.3	68.3	68.7	67.8	68.3	68.7	68.3	69.2	69.2	69.7
75°	60.8	60.4	61.3	62.2	61.8	61.8	62.2	62.2	62.7	62.7	63.2
77.5°	54.3	54.8	55.3	56.2	56.7	56.7	56.7	56.2	56.7	56.7	57.1
80°	48.3	49.2	50.2	51.1	51.6	51.6	51.6	51.1	51.1	51.1	51.1
82.5°	43.7	45.1	46.0	46.4	46.4	46.4	46.4	46.4	46.4	45.5	44.6
85°	36.7	39.5	39.5	39.9	38.6	37.6	36.7	37.2	37.6	35.8	35.3
87.5°	18.6	18.6	19.5	20.4	20.9	20.9	23.7	22.3	21.8	21.4	20.4
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: P153503

CATALOG NUMBER: TLM-F02-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	495.1	494.7	495.6	494.7	495.1	495.6	494.7	496.1	497.0	495.6	494.2
5°	505.4	505.4	507.7	508.6	509.1	511.9	510.5	511.4	512.3	511.9	512.3
7.5°	511.9	513.7	516.0	518.4	518.8	521.2	520.7	522.1	523.0	525.3	525.3
10°	517.4	519.8	523.0	525.3	527.7	529.5	530.4	533.2	533.7	535.6	535.6
12.5°	522.6	525.3	528.6	532.3	534.6	538.3	538.8	543.0	544.4	544.8	543.5
15°	521.6	524.9	528.6	532.8	537.0	541.6	544.4	548.6	550.9	551.8	549.5
17.5°	512.8	515.6	520.2	525.8	530.9	537.0	542.1	548.1	551.8	552.7	552.3
20°	495.6	497.5	503.5	510.9	517.0	526.3	533.7	543.0	549.0	553.7	555.1
22.5°	461.7	466.3	472.4	480.7	489.6	501.2	511.9	525.3	538.3	549.5	560.6
25°	420.8	429.2	438.5	449.6	460.3	472.4	484.5	499.8	518.8	542.1	568.5
27.5°	379.5	393.9	405.5	419.9	432.4	444.5	458.0	474.7	495.6	523.5	557.4
30°	337.7	353.9	366.5	383.2	399.9	416.2	429.7	447.3	467.7	496.1	533.2
32.5°	293.1	309.4	324.2	339.5	358.1	377.6	393.9	415.7	437.5	466.8	504.4
35°	247.1	261.5	274.0	290.3	310.7	331.6	353.0	378.1	401.8	432.4	472.4
37.5°	207.2	217.4	229.5	243.9	259.7	281.9	306.1	335.8	362.8	396.2	437.1
40°	174.2	179.8	186.7	198.8	213.2	235.0	258.7	290.3	322.8	359.5	399.0
42.5°	148.6	151.4	153.3	161.2	172.8	194.2	216.9	247.6	283.3	323.3	363.2
45°	131.9	133.3	133.8	138.0	146.3	164.9	188.6	214.6	249.0	288.0	329.8
47.5°	124.0	125.4	126.3	127.3	132.4	146.8	168.1	192.8	224.3	260.1	302.8
50°	117.5	118.9	120.3	119.8	122.2	131.5	149.6	172.3	202.1	235.0	277.3
52.5°	111.0	111.9	111.9	111.9	113.3	119.4	132.4	153.3	180.7	211.8	253.6
55°	107.3	108.2	108.7	109.2	109.6	112.9	122.6	139.3	163.0	191.8	229.5
57.5°	103.6	104.0	105.0	105.4	106.4	108.2	114.3	126.3	146.3	170.5	202.1
60°	100.3	101.3	103.1	103.6	104.5	105.0	107.8	115.2	128.2	146.8	172.3
62.5°	95.2	96.6	98.5	98.9	99.9	100.3	100.8	105.0	111.0	122.2	141.2
63°	93.8	95.2	97.5	98.0	98.5	98.5	98.9	101.7	107.3	117.1	131.0
65°	88.7	90.6	92.0	92.4	92.9	92.9	92.4	93.4	93.8	98.0	106.4
67.5°	83.1	84.5	85.5	85.9	85.5	85.9	85.5	84.5	83.6	84.5	88.3
70°	77.6	78.5	78.5	79.0	79.4	79.9	79.0	78.0	77.1	76.6	79.0
72.5°	71.1	72.0	72.0	72.5	72.5	73.4	73.4	72.9	72.9	73.4	73.9
75°	64.6	65.5	65.0	66.0	66.0	67.4	67.4	67.8	68.7	68.3	67.8
77.5°	58.5	59.0	59.0	59.5	59.9	62.2	63.6	64.1	64.1	63.2	62.2
80°	52.0	52.0	51.1	50.6	51.1	53.4	56.2	56.7	58.1	57.6	58.1
82.5°	43.7	41.8	40.4	40.4	41.3	42.7	43.7	44.6	45.5	45.5	46.4
85°	33.4	31.6	30.2	30.7	32.0	32.5	32.0	32.0	33.9	35.3	33.9
87.5°	20.0	18.1	17.2	15.8	16.3	17.7	17.2	15.8	16.3	13.0	12.1
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: P153503

CATALOG NUMBER: TLM-F02-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	495.1	494.7	493.8	492.4	491.9	491.0	491.4	490.0	489.1	488.2	486.8
5°	512.3	512.3	509.5	509.5	508.2	507.7	504.4	503.0	500.3	501.2	497.9
7.5°	524.4	525.8	522.6	522.1	520.2	519.8	515.6	514.2	511.9	510.9	508.2
10°	533.2	533.2	529.1	525.8	523.5	521.2	517.0	515.1	513.3	513.7	511.9
12.5°	540.2	537.0	530.9	526.3	523.0	520.7	517.4	516.0	515.6	518.8	519.3
15°	545.8	541.1	533.7	530.4	527.7	527.2	527.2	528.6	531.8	537.9	542.5
17.5°	549.0	546.2	542.5	541.6	546.2	549.0	552.7	556.9	561.6	569.9	575.0
20°	555.1	556.9	559.7	563.4	570.9	577.8	582.5	588.5	594.1	604.3	612.7
22.5°	570.9	581.5	590.4	597.8	608.9	618.7	624.7	633.1	637.3	644.2	657.3
25°	591.3	613.1	631.7	647.5	664.7	674.9	683.3	693.9	700.5	712.1	723.7
27.5°	585.3	616.4	644.2	673.5	697.2	723.7	742.3	759.9	771.1	788.2	803.6
30°	566.7	603.8	641.5	680.0	717.6	755.7	791.0	823.1	847.7	872.3	897.4
32.5°	541.6	584.3	630.3	677.7	726.9	779.9	828.7	877.0	917.8	953.6	988.4
35°	512.8	561.1	608.9	667.5	728.3	795.7	863.5	930.4	992.6	1055.8	1098.5
37.5°	478.4	527.7	581.1	648.4	720.0	803.1	889.5	976.8	1065.1	1150.1	1223.9
40°	441.7	491.9	548.1	621.0	701.8	798.5	906.2	1023.7	1145.0	1268.1	1366.1
42.5°	409.2	460.8	522.1	595.9	683.7	792.4	919.7	1064.1	1212.3	1364.7	1508.7
45°	377.6	434.3	498.9	578.3	675.8	797.1	939.7	1101.8	1272.7	1457.6	1633.1
47.5°	349.3	406.9	469.6	556.5	664.2	799.4	959.2	1139.4	1329.8	1530.0	1738.6
50°	323.7	379.5	441.3	528.6	646.1	798.0	976.8	1173.3	1379.1	1587.2	1819.9
52.5°	298.7	355.3	418.5	501.6	623.8	790.1	985.2	1201.2	1424.6	1644.8	1885.4
55°	274.0	329.8	393.4	476.1	594.5	769.7	984.3	1219.3	1460.8	1699.1	1948.5
57.5°	245.3	298.2	360.4	447.8	563.4	738.1	970.3	1227.6	1491.9	1753.0	2024.2
60°	209.5	259.2	319.1	406.4	522.6	697.7	941.1	1223.0	1510.1	1792.9	2088.8
62.5°	165.4	208.6	263.4	348.8	471.5	639.6	886.2	1180.7	1481.3	1787.4	2119.0
63°	156.1	196.9	250.4	334.9	449.6	623.8	870.0	1164.0	1467.3	1775.7	2114.8
65°	125.4	151.9	194.6	270.3	376.2	546.2	789.2	1078.1	1392.5	1694.0	2054.4
67.5°	96.1	109.6	132.4	185.3	266.2	429.7	639.1	913.7	1208.6	1491.9	1859.8
70°	82.2	88.3	98.0	123.1	169.1	271.3	448.7	681.4	936.9	1182.6	1513.3
72.5°	74.8	77.6	82.7	93.4	116.1	162.6	286.1	443.6	637.3	843.1	1098.5
75°	68.7	71.1	75.2	80.8	89.2	108.2	163.0	271.3	414.3	553.7	741.3
77.5°	62.7	64.1	68.7	73.9	79.4	89.2	107.8	156.1	238.3	326.5	446.8
80°	57.6	56.7	59.9	68.3	73.9	79.4	85.0	101.3	135.6	178.8	241.5
82.5°	46.0	46.9	49.7	58.1	60.4	59.0	59.9	62.7	75.7	82.7	123.6
85°	31.1	28.8	28.3	29.3	29.3	27.9	27.9	27.4	30.2	34.4	59.0
87.5°	8.4	4.2	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: P153503

CATALOG NUMBER: TLM-F02-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	485.9	485.4	485.9	483.5	483.5	483.1	482.6	481.7	481.7	479.8	481.2
5°	495.1	494.2	492.4	489.6	488.2	486.3	486.3	484.5	483.1	481.2	481.7
7.5°	505.8	506.3	503.0	500.7	499.8	497.9	498.4	495.6	496.1	494.7	493.8
10°	511.9	511.9	512.8	512.3	513.3	513.3	514.7	512.8	511.9	510.5	510.5
12.5°	521.6	523.5	527.2	527.2	530.0	530.9	531.4	532.3	530.4	529.5	526.3
15°	545.8	550.4	553.7	558.3	563.9	565.7	565.7	563.9	563.0	561.6	555.5
17.5°	585.7	595.9	598.7	606.2	607.1	609.4	615.9	612.2	609.9	600.1	598.3
20°	626.6	639.6	652.6	661.9	666.5	675.8	677.2	675.4	666.1	656.8	652.6
22.5°	675.8	695.3	710.2	724.6	731.6	736.2	746.4	744.1	736.7	722.7	717.2
25°	745.5	769.7	785.5	803.1	812.4	817.0	827.3	827.3	819.4	815.2	814.7
27.5°	833.3	863.0	889.0	895.1	919.2	924.8	934.6	934.6	927.1	922.0	946.6
30°	930.8	962.0	1007.0	1037.2	1066.5	1095.3	1094.8	1096.7	1105.5	1110.1	1120.8
32.5°	1028.4	1066.9	1114.8	1180.3	1243.0	1296.4	1365.6	1409.7	1396.3	1358.6	1343.8
35°	1146.8	1189.6	1247.6	1313.6	1428.3	1497.5	1531.0	1554.6	1557.4	1562.5	1573.2
37.5°	1278.7	1350.3	1417.6	1492.4	1556.0	1640.1	1717.7	1779.9	1794.3	1823.6	1806.9
40°	1445.5	1525.4	1596.0	1692.6	1778.1	1879.3	1990.3	2075.8	2110.2	2099.0	2015.4
42.5°	1620.1	1719.1	1801.8	1915.6	2026.6	2160.3	2275.1	2394.4	2415.8	2329.9	2204.9
45°	1780.9	1903.5	2006.1	2124.6	2260.2	2420.5	2573.7	2696.4	2692.2	2544.9	2377.7
47.5°	1925.3	2075.8	2201.2	2355.4	2501.3	2692.2	2868.2	2958.8	2905.4	2731.2	2526.4
50°	2044.7	2232.3	2387.0	2543.1	2728.4	2958.3	3127.9	3179.0	3075.9	2886.3	2670.8
52.5°	2140.8	2376.3	2550.1	2729.8	2963.9	3205.9	3351.8	3332.7	3199.4	3004.8	2790.2
55°	2222.1	2486.4	2693.6	2905.9	3196.2	3419.1	3516.2	3465.1	3278.8	3081.4	2871.9
57.5°	2306.2	2593.2	2825.5	3071.7	3395.0	3586.3	3640.2	3535.2	3316.5	3110.7	2907.2
60°	2390.3	2682.4	2942.1	3216.6	3545.5	3722.9	3708.0	3551.0	3305.3	3089.3	2883.6
62.5°	2446.9	2735.4	3009.9	3305.8	3658.3	3792.6	3701.5	3494.8	3240.7	3005.3	2813.0
63°	2448.3	2737.2	3014.1	3311.8	3670.9	3794.9	3689.0	3474.9	3220.3	2988.1	2792.1
65°	2419.1	2702.4	2976.9	3284.4	3660.2	3741.5	3580.8	3356.9	3103.7	2869.2	2683.4
67.5°	2269.5	2558.4	2800.9	3090.7	3468.8	3492.0	3290.9	3110.2	2882.6	2639.7	2445.5
70°	1968.0	2208.2	2446.0	2688.0	3005.3	3001.1	2812.0	2720.1	2520.8	2244.0	2088.3
72.5°	1565.3	1780.9	1948.1	2110.2	2319.2	2276.9	2155.2	2180.8	2051.7	1845.0	1752.5
75°	1162.2	1399.0	1480.8	1546.8	1635.0	1635.5	1668.9	1741.4	1739.5	1624.8	1508.2
77.5°	762.2	1021.4	1048.8	1101.8	1207.7	1351.7	1500.3	1660.1	1700.0	1609.5	1437.1
80°	425.0	694.4	662.8	708.3	822.6	1018.2	1237.4	1413.9	1518.0	1467.3	1284.8
82.5°	217.4	400.4	382.7	445.9	538.3	708.3	853.3	988.9	1111.5	1104.6	1035.3
85°	112.9	219.2	249.4	282.4	328.9	389.7	444.5	484.0	535.1	625.2	655.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.0	33.4	24.2	66.4	94.8
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: P153503

CATALOG NUMBER: TLM-F02-LED-E1-SLR-8030

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	487.3	487.3	487.3	487.3	487.3	487.3	487.3
2.5°	481.7	482.1	481.2	481.2	481.7	481.7	480.7
5°	480.7	480.7	479.8	478.9	478.0	478.0	477.0
7.5°	491.4	491.4	488.2	486.8	484.5	482.6	481.7
10°	507.2	504.4	500.7	497.9	494.2	490.0	487.7
12.5°	523.0	518.8	514.2	510.0	505.4	500.7	498.4
15°	549.0	543.5	537.4	532.3	525.8	518.8	516.0
17.5°	589.0	580.1	572.3	564.8	553.2	548.1	542.5
20°	641.9	628.9	618.7	606.2	591.8	587.1	580.1
22.5°	706.0	694.9	674.4	665.2	650.8	643.8	645.2
25°	803.6	789.2	765.5	756.7	755.3	739.9	732.5
27.5°	930.8	931.8	909.9	886.2	873.2	849.1	818.4
30°	1112.0	1099.4	1073.9	1049.7	1019.1	973.6	922.5
32.5°	1331.2	1303.4	1261.1	1216.0	1161.7	1091.6	1020.0
35°	1545.4	1496.6	1429.2	1354.0	1275.5	1188.2	1086.9
37.5°	1733.5	1657.8	1557.0	1470.6	1359.6	1250.4	1126.9
40°	1905.3	1811.5	1681.5	1569.5	1438.5	1298.3	1151.9
42.5°	2071.6	1952.7	1793.4	1642.0	1493.8	1330.3	1164.0
45°	2230.0	2076.7	1887.7	1707.5	1534.2	1351.2	1165.9
47.5°	2351.7	2184.5	1972.2	1754.8	1562.1	1367.0	1165.9
50°	2464.6	2275.5	2036.8	1792.0	1588.1	1377.7	1166.8
52.5°	2552.4	2339.6	2078.6	1818.5	1608.5	1385.6	1171.0
55°	2616.0	2381.4	2106.5	1834.7	1623.4	1396.7	1180.3
57.5°	2660.6	2408.8	2121.8	1849.1	1641.5	1416.2	1206.3
60°	2682.0	2459.5	2147.3	1877.9	1672.6	1457.6	1258.3
62.5°	2665.7	2538.0	2220.3	1926.7	1715.8	1522.1	1341.4
63°	2658.7	2552.4	2240.2	1937.4	1725.6	1536.1	1370.2
65°	2604.4	2566.8	2322.5	1991.3	1772.0	1597.8	1450.6
67.5°	2435.8	2510.1	2391.7	2082.3	1871.9	1747.9	1600.6
70°	2217.5	2426.0	2379.1	2093.9	1935.5	1871.0	1695.4
72.5°	1956.0	2172.0	2128.3	1939.2	1865.4	1872.4	1670.8
75°	1539.3	1701.4	1672.6	1606.2	1621.1	1672.2	1431.1
77.5°	1233.2	1211.4	1145.0	1149.6	1235.5	1295.5	1030.2
80°	1007.5	815.6	729.2	731.6	881.6	943.8	656.3
82.5°	958.7	771.5	628.5	549.0	641.5	617.8	342.8
85°	682.8	684.2	567.6	461.2	446.8	380.0	213.7
87.5°	161.6	129.6	92.4	68.7	72.5	47.8	24.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)