

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P685235

Luminaire Tested: **LX6C08D010 EX6089050 6LCSWLI**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P685235  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C08D010 EX6089050 6LCSWLI  
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

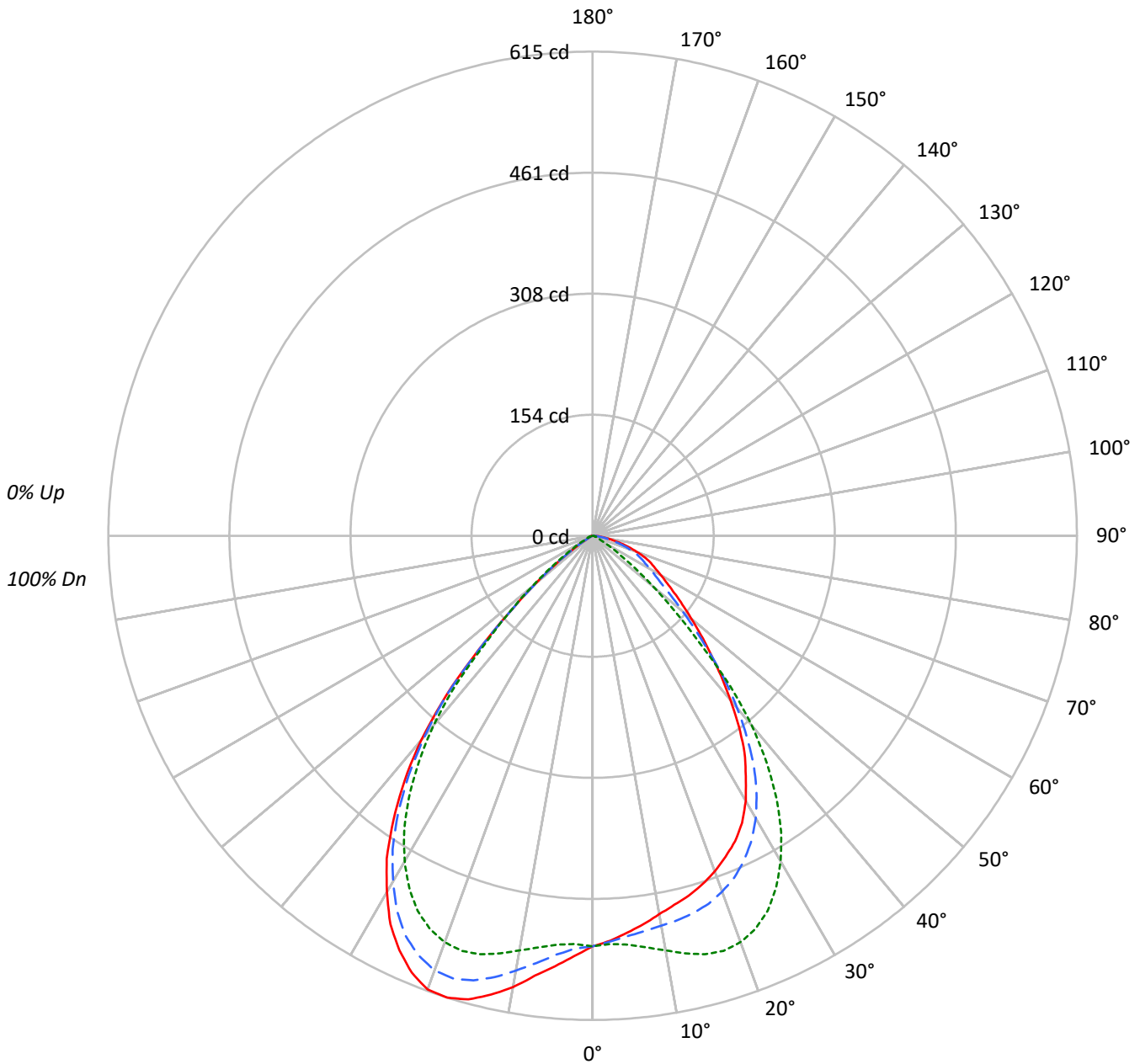
Lumens per Lamp: N/A  
Luminaire Lumens: 953.0 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.9  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: P685235

CATALOG NUMBER: LX6C08D010 EX6089050 6LCSWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P685235

CATALOG NUMBER: LX6C08D010 EX6089050 6LCSWLI

**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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			80
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			72
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			53
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			48
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	28583	28583	28583
5°	27839	28692	30200
10°	27165	29770	32409
15°	26845	31232	34597
20°	26462	32045	35767
25°	25901	31804	35125
30°	24611	30226	33068
35°	22513	27251	29520
40°	19472	22506	24217
45°	16420	14761	15847
50°	13944	8546	8034
55°	12100	4100	3097
60°	10931	1908	767
65°	10598	1103	259
70°	9505	882	240
75°	7816	635	106
80°	5809	316	0
85°	5032	0	0



TEST NUMBER: P685235

CATALOG NUMBER: LX6C08D010 EX6089050 6LCSWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.4	5.3
10°-20°	153.5	16.1
20°-30°	234.5	24.6
30°-40°	245.3	25.7
40°-50°	159.1	16.7
50°-60°	63.2	6.6
60°-70°	30.0	3.1
70°-80°	14.3	1.5
80°-90°	2.9	0.3
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°	438.3	46.0
0°-40°	683.6	71.7
0°-60°	905.9	95.1
0°-90°	953.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	953.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	521	521	521	521	521	
5°	506	510	521	534	549	48
15°	473	496	550	585	610	133
25°	428	455	526	561	581	196
35°	336	357	407	431	441	208
45°	212	210	190	202	204	165
55°	127	108	43	33	32	115
65°	82	68	8	2	2	80
75°	37	30	3	1	0	40
85°	8	5	0	0	0	9
90°	0	0	0	0	0	



TEST NUMBER: P685235

CATALOG NUMBER: LX6C08D010 EX6089050 6LCSWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
2.5°	514.9	515.9	510.4	508.9	512.9	514.4	514.9	513.4	513.9	515.9	515.9
5°	505.9	506.9	501.9	500.4	504.4	505.4	506.9	506.4	507.9	510.9	510.4
7.5°	497.4	498.9	493.5	491.5	496.5	498.9	499.9	499.9	501.9	505.9	506.4
10°	488.0	490.0	485.0	484.0	489.5	492.0	492.5	493.5	496.5	501.9	502.9
12.5°	480.0	482.0	478.5	477.0	483.0	485.5	486.5	488.5	492.0	498.9	499.9
15°	473.0	474.5	470.5	469.5	475.5	478.5	479.0	482.0	486.5	494.4	495.9
17.5°	464.0	465.0	462.1	461.1	467.0	470.0	470.5	474.0	479.5	487.5	490.0
20°	453.6	454.6	451.6	450.6	456.6	460.1	460.6	463.6	470.0	478.5	481.0
22.5°	441.1	443.1	439.6	438.6	444.6	447.6	449.1	451.6	458.1	466.5	470.0
25°	428.2	428.2	425.7	425.2	430.7	434.1	433.6	437.1	443.6	452.1	455.1
27.5°	411.2	410.7	408.2	407.7	413.7	416.7	415.7	419.2	425.2	433.6	436.6
30°	388.8	389.8	386.3	385.3	390.3	395.3	394.8	398.2	404.2	412.2	414.2
32.5°	361.9	362.9	362.4	360.9	365.4	367.8	369.3	371.8	376.8	385.3	387.3
35°	336.4	334.9	333.0	333.0	337.4	341.4	339.9	342.9	347.9	356.4	356.9
37.5°	305.0	304.5	303.5	302.6	307.5	308.5	309.0	311.0	315.5	322.5	321.5
40°	272.1	272.6	272.1	270.1	273.1	277.1	276.6	277.6	281.6	286.6	285.1
42.5°	241.2	241.2	241.2	239.3	242.7	244.7	245.7	245.2	246.2	250.7	248.7
45°	211.8	212.3	211.8	211.3	211.8	212.8	211.8	211.3	211.3	212.8	209.8
47.5°	186.4	186.4	184.9	183.4	184.9	185.4	183.9	182.4	181.9	181.4	176.5
50°	163.5	163.0	162.5	160.0	161.5	162.0	160.0	159.0	157.0	154.5	148.5
52.5°	143.6	143.1	142.5	140.1	141.1	141.6	139.6	137.6	135.1	133.1	125.6
55°	126.6	126.1	126.1	124.6	123.6	124.6	122.6	121.1	117.6	115.1	107.7
57.5°	112.1	112.1	111.1	109.7	110.2	110.2	108.2	106.2	103.2	100.2	94.2
60°	99.7	99.7	99.7	98.2	98.2	98.2	97.2	95.2	92.7	89.7	83.7
62.5°	89.7	89.7	89.2	87.7	88.2	88.2	87.2	85.2	82.7	80.7	74.8
65°	81.7	81.7	81.7	80.3	80.3	80.7	79.8	77.8	75.8	73.3	67.8
67.5°	71.8	71.3	71.3	70.3	70.8	71.3	70.3	68.8	66.3	64.8	59.8
70°	59.3	59.8	60.3	58.8	59.3	59.3	58.8	57.3	55.8	54.3	49.9
72.5°	48.4	48.4	47.8	47.4	47.4	47.8	46.9	45.4	44.4	43.4	39.9
75°	36.9	36.4	36.9	35.9	35.9	35.9	34.9	34.4	33.9	32.4	29.9
77.5°	26.9	26.4	26.4	25.4	25.9	25.9	25.4	24.4	23.4	22.9	20.9
80°	18.4	18.4	18.4	17.9	17.9	17.4	17.4	17.0	15.9	15.5	14.5
82.5°	12.5	12.5	12.5	12.0	12.0	12.0	11.5	11.0	10.5	10.0	9.0
85°	8.0	8.0	8.0	7.5	7.5	7.5	7.0	7.0	6.5	6.0	5.0
87.5°	4.5	4.5	4.5	4.0	4.0	4.0	4.0	4.0	3.5	3.0	2.5
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: P685235

CATALOG NUMBER: LX6C08D010 EX6089050 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
2.5°	519.4	512.4	516.9	516.9	515.4	519.4	521.9	523.9	523.4	518.9	518.4
5°	515.4	509.4	514.4	514.9	513.4	518.9	522.4	524.9	525.4	521.4	521.9
7.5°	512.4	507.4	513.9	515.9	515.4	520.4	524.4	528.3	530.3	527.3	527.8
10°	510.9	506.9	513.9	516.9	517.4	522.9	528.8	534.3	536.8	534.8	536.3
12.5°	508.9	506.4	514.4	518.9	520.9	526.4	533.8	540.3	544.3	543.3	546.3
15°	506.9	504.9	514.4	520.9	523.4	528.3	536.8	546.3	550.8	550.3	554.3
17.5°	501.9	501.4	511.4	518.4	521.9	527.8	535.8	547.3	551.8	552.8	557.7
20°	494.0	494.0	504.9	512.4	516.4	521.9	531.8	542.8	548.3	549.3	554.8
22.5°	483.0	484.0	494.4	501.9	507.9	511.9	522.4	533.8	538.8	540.3	546.3
25°	468.5	469.5	479.5	487.0	493.5	497.9	507.9	518.4	524.4	525.8	530.3
27.5°	449.6	451.6	461.1	468.5	474.0	477.0	487.5	498.4	502.9	504.4	508.9
30°	427.7	428.2	437.6	444.1	449.6	452.1	461.1	472.5	476.0	477.5	484.0
32.5°	400.7	400.3	409.2	415.2	419.7	422.7	432.1	439.6	443.1	445.6	449.1
35°	368.3	367.8	374.3	381.3	384.8	385.8	395.3	403.2	405.2	407.2	411.7
37.5°	332.0	332.0	337.4	340.9	344.9	346.4	350.9	359.9	363.4	362.9	366.3
40°	293.6	291.6	295.6	299.1	300.1	300.5	305.0	312.0	314.5	314.5	317.0
42.5°	253.2	250.2	250.7	252.7	253.7	250.2	253.2	257.7	256.2	258.2	258.7
45°	210.3	205.8	203.9	199.4	200.4	196.9	194.9	195.9	195.4	190.4	191.4
47.5°	175.4	167.5	164.0	157.5	156.0	152.0	149.5	145.0	141.1	141.1	138.6
50°	146.1	138.1	131.1	123.6	121.1	117.6	112.1	106.2	103.2	100.2	97.7
52.5°	122.6	114.1	105.7	97.7	94.2	89.7	82.2	76.3	70.8	67.8	64.8
55°	103.7	94.2	85.2	76.8	72.3	67.8	60.3	53.3	46.9	42.9	40.4
57.5°	89.2	80.3	70.8	61.8	57.8	52.8	44.9	37.4	31.4	26.9	24.4
60°	78.8	69.8	61.3	51.8	47.8	42.9	34.4	27.4	21.4	17.4	14.5
62.5°	69.8	61.8	52.8	44.4	40.4	35.4	27.4	20.4	14.9	11.0	8.5
65°	63.3	55.3	47.8	39.4	35.9	30.9	23.4	17.0	12.0	8.5	6.0
67.5°	55.8	48.8	41.4	34.4	30.9	26.9	19.9	14.5	10.0	7.0	5.0
70°	46.9	41.4	34.9	28.4	25.9	22.4	16.4	12.0	8.0	5.5	4.0
72.5°	37.4	32.9	27.9	22.9	20.9	17.4	13.5	9.5	6.0	4.0	3.0
75°	28.4	24.9	20.9	17.4	15.5	13.5	10.0	7.0	4.5	3.0	2.0
77.5°	19.4	17.9	14.9	12.0	11.0	9.5	6.5	4.5	3.0	2.0	1.0
80°	13.5	12.0	10.0	8.0	7.0	6.0	4.0	3.0	1.5	1.0	0.5
82.5°	8.5	7.0	6.0	5.0	4.5	3.5	2.5	1.5	1.0	0.5	0.5
85°	4.5	4.0	3.5	2.5	2.5	2.0	1.5	1.0	0.5	0.0	0.0
87.5°	2.5	2.0	1.5	1.0	1.0	0.5	0.5	0.5	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: P685235

CATALOG NUMBER: LX6C08D010 EX6089050 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
2.5°	524.4	524.4	523.9	529.8	522.9	529.8	526.4	529.8	524.9	524.4	524.9
5°	528.3	529.8	530.3	535.8	529.3	537.8	534.8	537.8	534.3	535.3	536.8
7.5°	536.3	538.8	538.3	545.3	538.8	548.3	546.3	550.8	547.3	548.3	550.3
10°	545.3	548.3	548.8	555.8	549.8	561.2	558.7	563.7	560.7	562.2	564.7
12.5°	555.8	559.2	559.8	567.7	561.2	573.2	571.7	576.7	574.2	575.7	578.7
15°	563.7	568.7	569.7	577.7	570.7	583.2	582.2	588.7	584.7	587.2	589.7
17.5°	567.7	572.2	574.2	581.7	575.7	588.2	587.2	592.7	589.7	592.1	595.1
20°	565.2	570.7	572.2	579.7	573.7	586.2	584.7	590.2	587.2	589.1	592.1
22.5°	556.3	561.7	563.7	570.7	565.2	576.7	576.2	581.2	577.2	579.7	582.2
25°	540.3	546.3	547.3	553.8	547.8	559.8	558.7	564.2	561.2	562.7	566.2
27.5°	517.4	524.4	525.8	531.3	526.9	536.8	536.8	541.3	537.8	537.8	541.3
30°	490.0	496.9	497.9	502.4	498.4	507.4	507.9	512.4	506.9	509.9	510.4
32.5°	456.6	461.1	464.0	468.0	462.1	473.5	472.0	475.5	472.5	472.5	475.0
35°	416.2	421.7	423.2	428.2	423.2	432.1	432.1	434.1	431.1	431.1	435.1
37.5°	372.3	376.3	376.8	381.8	377.8	385.3	384.8	386.3	383.3	385.3	385.3
40°	321.0	324.0	325.0	327.5	327.0	332.5	332.0	333.0	331.5	332.0	333.0
42.5°	261.2	265.2	267.2	269.2	266.2	273.6	272.1	273.6	273.1	273.6	275.1
45°	192.4	195.4	196.9	197.4	196.4	200.9	204.4	201.4	201.9	200.9	202.9
47.5°	139.1	139.6	138.6	141.6	139.1	141.1	142.1	142.5	139.6	139.1	141.1
50°	95.2	97.7	94.2	95.7	95.2	97.2	96.2	96.7	93.7	95.2	94.2
52.5°	63.3	62.8	61.8	62.3	61.3	61.3	61.3	62.3	60.3	59.3	58.3
55°	38.4	37.4	35.4	34.9	34.9	35.4	34.4	33.4	33.4	32.9	32.9
57.5°	22.4	20.9	19.9	19.4	18.4	17.9	17.4	17.4	16.4	16.4	16.4
60°	12.5	11.0	10.0	9.0	9.0	8.5	8.0	7.5	7.5	7.5	7.0
62.5°	6.5	5.5	4.5	4.0	4.0	3.5	3.0	3.0	3.0	3.0	2.5
65°	4.5	3.5	3.0	2.5	2.5	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	3.5	3.0	2.5	2.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5
70°	3.0	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
75°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0
80°	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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: P685235

CATALOG NUMBER: LX6C08D010 EX6089050 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	521.4	521.4	521.4	521.4	521.4	521.4	521.4	521.4
2.5°	529.3	528.8	529.3	530.3	528.3	534.3	531.3	534.3
5°	540.8	541.3	541.8	543.3	540.8	548.3	544.3	548.8
7.5°	555.8	556.3	556.8	558.3	556.8	564.2	559.8	563.7
10°	571.2	572.2	572.2	574.7	573.2	580.2	577.2	582.2
12.5°	585.7	586.7	587.7	589.1	588.2	595.6	593.1	597.1
15°	597.1	599.1	599.6	601.6	600.6	608.6	605.6	609.6
17.5°	602.6	604.6	604.6	607.1	606.1	614.6	610.6	615.1
20°	599.6	601.1	601.6	604.1	603.1	611.6	607.6	613.1
22.5°	590.2	590.6	591.2	593.6	593.1	600.6	597.1	600.6
25°	572.7	574.2	573.7	575.7	575.7	581.7	577.7	580.7
27.5°	547.8	549.3	549.3	551.8	549.8	555.8	551.8	556.3
30°	517.4	518.9	517.9	519.9	517.9	523.9	520.9	522.4
32.5°	481.0	481.0	481.5	482.0	481.0	486.5	483.5	486.5
35°	437.6	438.6	439.1	439.6	438.6	442.6	439.1	441.1
37.5°	388.8	391.3	390.8	391.3	389.8	394.8	391.8	392.8
40°	336.4	336.4	335.9	337.0	335.5	339.4	337.4	338.4
42.5°	275.6	277.1	275.1	277.6	273.6	279.1	277.1	275.6
45°	206.9	204.9	204.4	204.9	203.4	203.9	205.4	204.4
47.5°	141.1	141.1	140.1	138.6	140.6	141.1	139.1	139.1
50°	94.7	94.7	93.7	93.2	94.2	93.7	92.7	94.2
52.5°	60.3	58.3	58.3	59.3	58.3	57.3	58.8	57.8
55°	32.9	31.9	31.9	32.9	31.9	31.9	31.4	32.4
57.5°	15.9	16.4	15.9	15.9	15.9	15.9	15.5	15.9
60°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
62.5°	3.0	3.0	2.5	2.5	2.5	2.5	2.5	2.5
65°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
67.5°	1.5	1.5	1.5	1.5	1.5	2.0	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)