

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: IRiS

Report Number: P106565

Luminaire Tested: **P3LED09FL40827-E3LWWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P106565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13686)  
Test Lab: PEACHTREE CITY  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: IRiS  
Catalog Number: P3LED09FL40827-E3LWWH  
Description: IRIS 3 INCH LED LENSED WALL WASH FIXTURE WITH  
SEMI SPECULAR CLEAR OPTICAL ELEMENT  
AND 40 DEGREE PRIMARY OPTIC, 20 DEGREE AIMING ANGLE  
Light Source: (1) 2700K 80CRI LED  
Ballast/Driver: (1) 340mA ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 587.8 lumens  
Efficiency: N/A  
Efficacy: 41.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.82 / 0.99  
Luminous Opening: Circular (Dia: 0.29' x H: 0')  
CIE Type: Direct

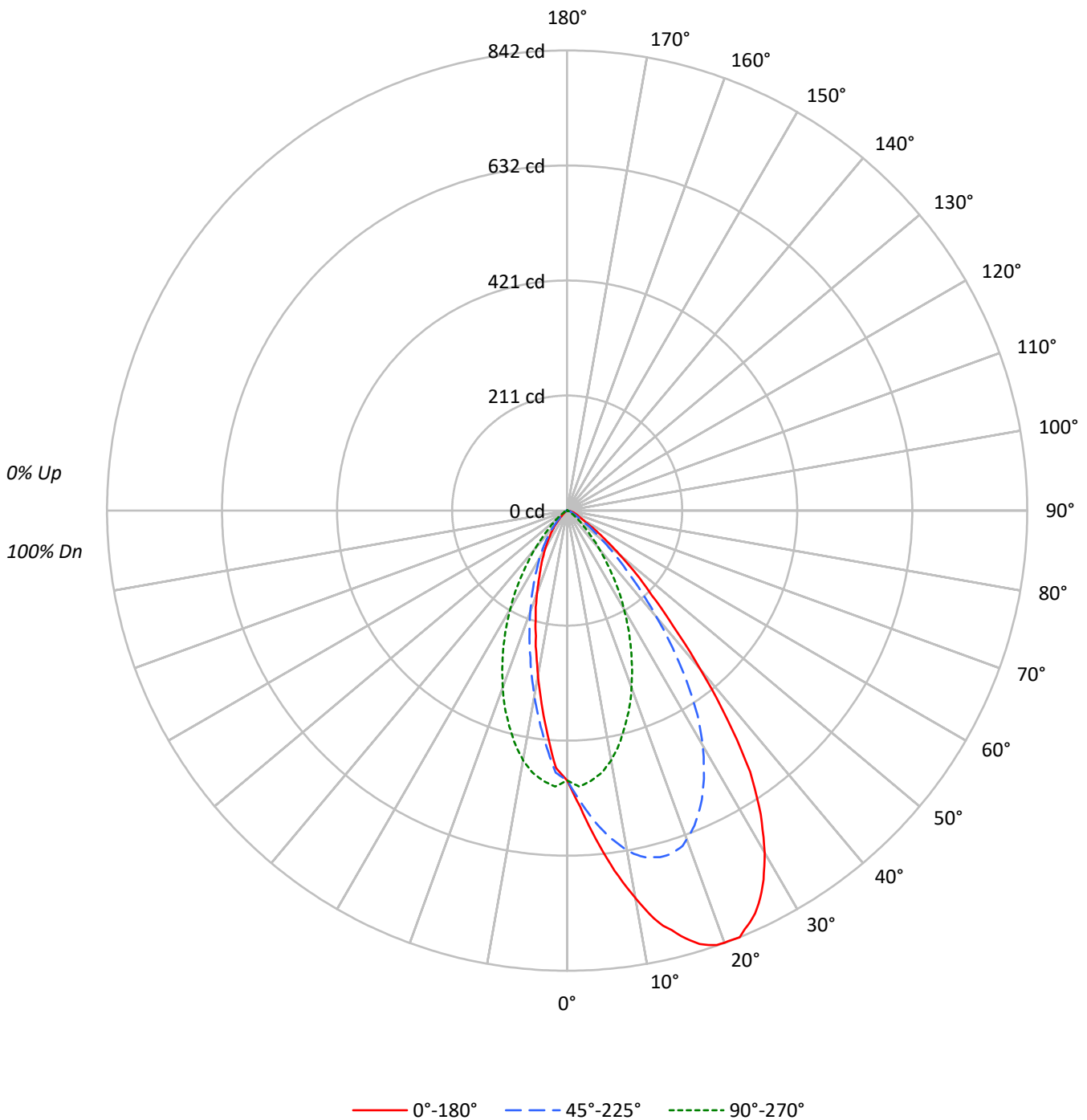
Input Watts (W): 14.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	103	102	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	93	90	93	90	88	90	88	86	84
3	100	93	88	83	98	92	87	82	89	85	81	86	83	80	84	81	79	77
4	94	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	73	68	87	79	73	68	77	72	67	75	70	67	73	69	66	65
6	84	74	67	63	82	73	67	62	72	66	62	70	65	61	69	64	61	59
7	79	69	62	58	78	68	62	57	67	61	57	66	61	57	64	60	56	55
8	75	64	58	53	74	64	58	53	63	57	53	62	56	53	61	56	52	51
9	71	60	54	49	70	60	54	49	59	53	49	58	53	49	57	52	49	47
10	67	57	50	46	66	56	50	46	55	50	46	54	49	46	54	49	46	44

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

	0°	90°	180°
0°	79505	79505	79505
5°	97533	80326	66483
10°	117882	75889	50238
15°	134464	68166	37344
20°	144252	58959	27568
25°	144589	49044	20193
30°	134497	38694	14733
35°	114836	28478	10384
40°	79727	19348	6730
45°	49941	11483	3463
50°	31480	7018	2005
55°	18425	4045	899
60°	10568	2062	516
65°	8234	2135	1220
70°	6783	754	377
75°	5478	498	0
80°	4453	742	0
85°	1479	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.5	8.1
10°-20°	129.4	22.0
20°-30°	167.4	28.5
30°-40°	140.7	23.9
40°-50°	69.2	11.8
50°-60°	22.5	3.8
60°-70°	7.4	1.3
70°-80°	3.1	0.5
80°-90°	0.7	0.1
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°	344.3	58.6
0°-40°	485.0	82.5
0°-60°	576.7	98.1
0°-90°	587.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	587.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	494	494	494	494	494	
5°	603	570	497	434	411	61
15°	806	657	409	264	224	228
25°	813	583	276	143	114	370
35°	584	382	145	67	53	353
45°	219	152	50	22	15	178
55°	66	44	14	6	3	61
65°	22	12	6	2	3	22
75°	9	4	1	1	0	10
85°	1	0	0	0	0	1
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°	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5
2.5°	542.3	542.3	542.3	540.7	539.9	538.3	536.7	535.1	533.5	531.1	528.7
5°	603.1	603.9	602.3	600.7	596.7	592.7	587.9	583.1	576.7	570.3	564.7
7.5°	664.6	663.0	660.7	656.7	651.9	643.9	635.9	625.5	615.1	603.9	591.1
10°	720.6	719.0	715.0	708.6	700.6	690.2	677.4	663.0	647.9	631.1	613.5
11°	741.4	738.2	735.0	727.8	719.0	705.4	693.4	675.8	658.3	639.9	619.1
12°	763.0	759.0	755.0	746.2	735.0	720.6	706.2	687.0	667.0	646.3	623.9
13°	779.8	777.4	771.0	761.4	750.2	734.2	716.6	696.6	674.2	651.9	627.9
14°	791.0	789.4	783.8	774.2	759.8	743.8	725.4	703.0	678.2	653.5	627.1
15°	806.2	804.6	798.2	787.0	773.4	755.0	734.2	710.2	683.8	656.7	627.9
16°	818.2	816.6	809.4	799.8	780.6	761.4	739.8	712.6	685.4	656.7	625.5
17°	829.4	827.0	819.0	805.4	787.8	768.6	743.8	717.4	687.0	655.9	623.1
18°	835.8	832.6	824.6	811.8	794.2	771.8	745.4	717.4	686.2	652.7	619.1
19°	840.6	836.6	827.8	814.2	795.8	771.8	744.6	714.2	681.4	648.7	612.7
20°	841.4	839.0	830.2	815.0	795.0	770.2	742.2	710.2	676.6	639.9	603.9
21°	841.4	837.4	827.8	812.6	791.8	766.2	736.6	703.8	667.8	631.1	595.1
22°	842.2	834.2	827.0	810.2	787.0	760.6	730.2	695.8	659.1	621.5	583.9
23°	831.8	827.8	817.4	801.4	778.2	751.0	720.6	683.8	648.7	609.5	570.3
24°	823.8	823.0	810.2	793.4	768.6	741.4	709.4	674.2	636.7	596.7	557.5
25°	813.4	809.4	798.2	780.6	757.4	728.6	696.6	659.9	622.3	583.1	542.3
26°	799.8	795.8	785.4	767.0	743.8	715.0	683.0	646.3	607.9	567.1	527.9
27°	783.8	779.0	768.6	751.8	726.2	697.4	665.4	629.5	591.1	551.1	510.3
28°	765.4	761.4	750.2	731.8	707.8	679.8	647.1	610.3	572.7	532.7	492.7
29°	743.8	739.8	730.2	711.8	689.4	661.5	627.1	591.1	554.3	515.1	475.9
30°	723.0	720.6	711.0	692.6	667.8	640.7	607.1	572.7	535.1	495.9	456.7
32.5°	659.1	655.1	646.3	629.5	607.1	579.9	549.5	515.9	479.9	443.9	407.1
35°	583.9	577.5	567.1	551.9	530.3	505.5	477.5	446.3	415.1	381.5	348.7
37.5°	481.5	479.1	470.3	456.7	440.7	418.3	397.5	371.1	343.9	316.7	289.5
40°	379.1	375.9	370.3	360.7	349.5	335.1	316.7	296.7	276.7	255.1	234.3
42.5°	287.9	287.1	282.3	276.7	267.9	256.7	243.9	229.5	216.0	200.0	183.2
45°	219.2	218.4	215.2	210.4	203.2	195.2	184.8	174.4	163.2	152.0	140.0
47.5°	171.2	167.2	164.8	160.0	154.4	147.2	140.8	132.0	124.0	114.4	104.8
50°	125.6	124.8	122.4	119.2	114.4	109.6	104.8	97.6	91.2	84.0	78.4
52.5°	89.6	91.2	89.6	86.4	84.8	79.2	76.0	71.2	66.4	60.8	55.2
55°	65.6	64.8	64.0	62.4	60.0	57.6	55.2	52.0	48.0	44.0	40.0
57.5°	42.4	41.6	42.4	40.0	38.4	38.4	34.4	32.8	28.8	26.4	25.6
60°	32.8	32.0	31.2	30.4	28.8	28.0	26.4	24.0	22.4	20.0	19.2
62.5°	25.6	25.6	24.8	24.0	23.2	21.6	20.8	19.2	17.6	16.0	13.6
65°	21.6	20.8	20.8	20.0	19.2	18.4	16.8	16.0	13.6	12.0	12.0
67.5°	18.4	16.0	16.8	15.2	14.4	14.4	12.8	10.4	9.6	8.0	8.0
70°	14.4	14.4	14.4	14.4	12.8	12.0	10.4	12.0	9.6	8.0	7.2
72.5°	12.8	12.0	12.8	12.8	11.2	10.4	9.6	9.6	7.2	6.4	6.4
75°	8.8	8.0	9.6	7.2	7.2	6.4	4.8	4.8	5.6	4.0	4.0
77.5°	5.6	5.6	5.6	5.6	4.8	4.8	4.8	3.2	3.2	2.4	1.6
80°	4.8	4.8	5.6	4.0	4.0	4.0	3.2	4.0	2.4	2.4	2.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	1.6	2.4	2.4	1.6	2.4	2.4	1.6	1.6	0.8	0.8	1.6
85°	0.8	1.6	0.8	0.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.8	0.8	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
0°	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5	493.5
2.5°	526.3	523.1	520.7	518.3	514.3	511.1	508.7	505.5	491.9	479.9	472.7
5°	555.9	547.9	539.9	530.3	523.1	514.3	505.5	496.7	461.5	433.5	416.7
7.5°	579.1	564.7	551.1	538.3	524.7	510.3	495.9	483.9	428.7	388.7	365.5
10°	595.1	575.1	556.7	537.5	518.3	499.1	480.7	463.9	394.3	344.7	315.9
11°	598.3	576.7	555.9	534.3	513.5	493.5	472.7	453.5	379.1	327.1	298.3
12°	601.5	578.3	555.1	531.1	507.9	485.5	465.5	443.9	365.5	311.1	280.7
13°	602.3	576.7	551.9	526.3	502.3	477.5	455.1	432.7	350.3	295.1	263.9
14°	599.1	571.9	544.7	517.5	492.7	467.1	442.3	419.9	333.5	277.5	246.3
15°	599.1	568.7	541.5	511.9	485.5	458.3	432.7	408.7	320.7	263.9	233.5
16°	595.1	563.9	534.3	504.7	475.1	447.1	419.9	395.9	305.5	250.3	220.0
17°	590.3	558.3	527.9	496.7	466.3	435.9	409.5	384.7	291.9	235.9	207.2
18°	584.7	551.1	518.3	486.3	454.3	424.7	397.5	371.9	279.1	223.1	192.8
19°	576.7	539.9	507.1	474.3	443.1	411.9	384.7	359.1	266.3	209.6	180.8
20°	567.1	531.1	496.7	461.5	429.5	399.1	371.1	343.9	251.9	196.8	168.8
21°	557.5	518.3	483.1	447.9	415.9	384.7	356.7	330.3	238.3	184.8	158.4
22°	544.7	507.1	471.1	435.9	403.1	371.9	344.7	317.5	226.3	174.4	148.0
23°	531.1	491.9	456.7	422.3	388.7	356.7	328.7	302.3	212.0	162.4	137.6
24°	517.5	479.1	441.5	407.1	373.5	343.9	315.9	289.5	201.6	152.0	128.0
25°	503.9	463.9	428.7	392.7	359.1	329.5	301.5	275.9	189.6	143.2	119.2
26°	488.7	447.9	413.5	378.3	344.7	315.1	287.9	261.5	179.2	133.6	112.8
27°	471.1	431.9	397.5	361.5	330.3	299.1	273.5	248.7	167.2	124.0	104.8
28°	454.3	416.7	380.7	345.5	315.1	284.7	259.1	234.3	156.8	116.0	96.8
29°	439.1	399.9	364.7	331.9	299.1	270.3	244.7	221.5	146.4	108.0	90.4
30°	419.9	382.3	347.9	315.1	284.7	256.7	230.3	208.0	136.8	101.6	84.8
32.5°	371.1	335.9	303.1	272.7	244.7	217.6	196.0	176.8	113.6	83.2	69.6
35°	315.1	283.9	257.5	230.3	204.8	182.4	162.4	144.8	90.4	67.2	56.0
37.5°	263.1	235.9	212.0	188.8	167.2	148.0	131.2	116.0	71.2	52.8	43.2
40°	213.6	191.2	170.4	152.0	135.2	117.6	104.0	92.0	55.2	41.6	35.2
42.5°	166.4	149.6	133.6	117.6	103.2	90.4	78.4	68.8	42.4	30.4	25.6
45°	127.2	113.6	100.8	89.6	76.8	66.4	57.6	50.4	31.2	21.6	16.8
47.5°	95.2	84.8	76.8	66.4	58.4	50.4	44.0	37.6	24.0	16.8	12.0
50°	69.6	63.2	55.2	47.2	40.8	36.0	32.0	28.0	17.6	10.4	6.4
52.5°	49.6	43.2	39.2	35.2	29.6	25.6	21.6	19.2	12.0	6.4	6.4
55°	35.2	31.2	28.0	24.8	20.0	17.6	16.0	14.4	8.8	5.6	4.0
57.5°	20.8	18.4	14.4	12.0	10.4	9.6	8.0	6.4	1.6	0.0	0.0
60°	16.8	14.4	13.6	11.2	9.6	8.8	8.0	6.4	4.0	2.4	2.4
62.5°	12.8	11.2	10.4	9.6	8.8	8.0	7.2	5.6	3.2	2.4	2.4
65°	10.4	9.6	8.0	7.2	6.4	5.6	4.0	5.6	2.4	1.6	0.8
67.5°	6.4	4.0	4.0	3.2	2.4	2.4	2.4	0.8	0.0	0.0	0.0
70°	6.4	5.6	6.4	4.0	4.0	3.2	2.4	1.6	1.6	0.0	0.0
72.5°	4.8	4.0	4.8	3.2	3.2	2.4	2.4	1.6	0.8	1.6	1.6
75°	4.0	3.2	3.2	1.6	2.4	1.6	0.0	0.8	1.6	0.8	0.8
77.5°	2.4	0.8	1.6	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8
80°	2.4	2.4	1.6	1.6	0.8	1.6	3.2	0.8	0.8	0.8	1.6





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CATALOG NUMBER: P3LED09FL40827-E3LWWH

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8
85°	1.6	0.0	0.0	2.4	0.0	0.0	0.0	0.0	0.8	0.0	0.8
87.5°	0.0	0.0	0.8	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



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CATALOG NUMBER: P3LED09FL40827-E3LWWH

**CANDELA DISTRIBUTION (continued):**

	180°
0°	493.5
2.5°	471.1
5°	411.1
7.5°	356.7
10°	307.1
11°	287.9
12°	270.3
13°	255.1
14°	236.7
15°	223.9
16°	208.8
17°	196.8
18°	185.6
19°	172.0
20°	160.8
21°	149.6
22°	140.0
23°	129.6
24°	120.8
25°	113.6
26°	106.4
27°	98.4
28°	92.0
29°	85.6
30°	79.2
32.5°	64.8
35°	52.8
37.5°	40.8
40°	32.0
42.5°	23.2
45°	15.2
47.5°	11.2
50°	8.0
52.5°	4.0
55°	3.2
57.5°	0.0
60°	1.6
62.5°	2.4
65°	3.2
67.5°	0.0
70°	0.8
72.5°	0.8
75°	0.0
77.5°	0.0
80°	0.0



TEST NUMBER: P106565

CATALOG NUMBER: P3LED09FL40827-E3LWWH

**CANDELA DISTRIBUTION (continued):**

	180°
82.5°	0.8
85°	0.0
87.5°	0.0
90°	0.0

(END OF REPORT)