

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: P108837

Luminaire Tested: **PN3LED12NFL25927-E3LWWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P108837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13685)  
Test Lab: PEACHTREE CITY  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: IRiS  
Catalog Number: PN3LED12NFL25927-E3LWWH  
Description: IRIS 3 INCH LED LENSED WALL WASH FIXTURE WITH  
SEMI SPECULAR CLEAR OPTICAL ELEMENT  
AND 25 DEGREE PRIMARY OPTIC, 20 DEGREE AIMING ANGLE  
Light Source: (1) 2700K 90CRI LED  
Ballast/Driver: (1) 450mA ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 511.9 lumens  
Efficiency: N/A  
Efficacy: 27.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 0.8 / 0.98  
Luminous Opening: Circular (Dia: 0.31' x H: 0')  
CIE Type: Direct

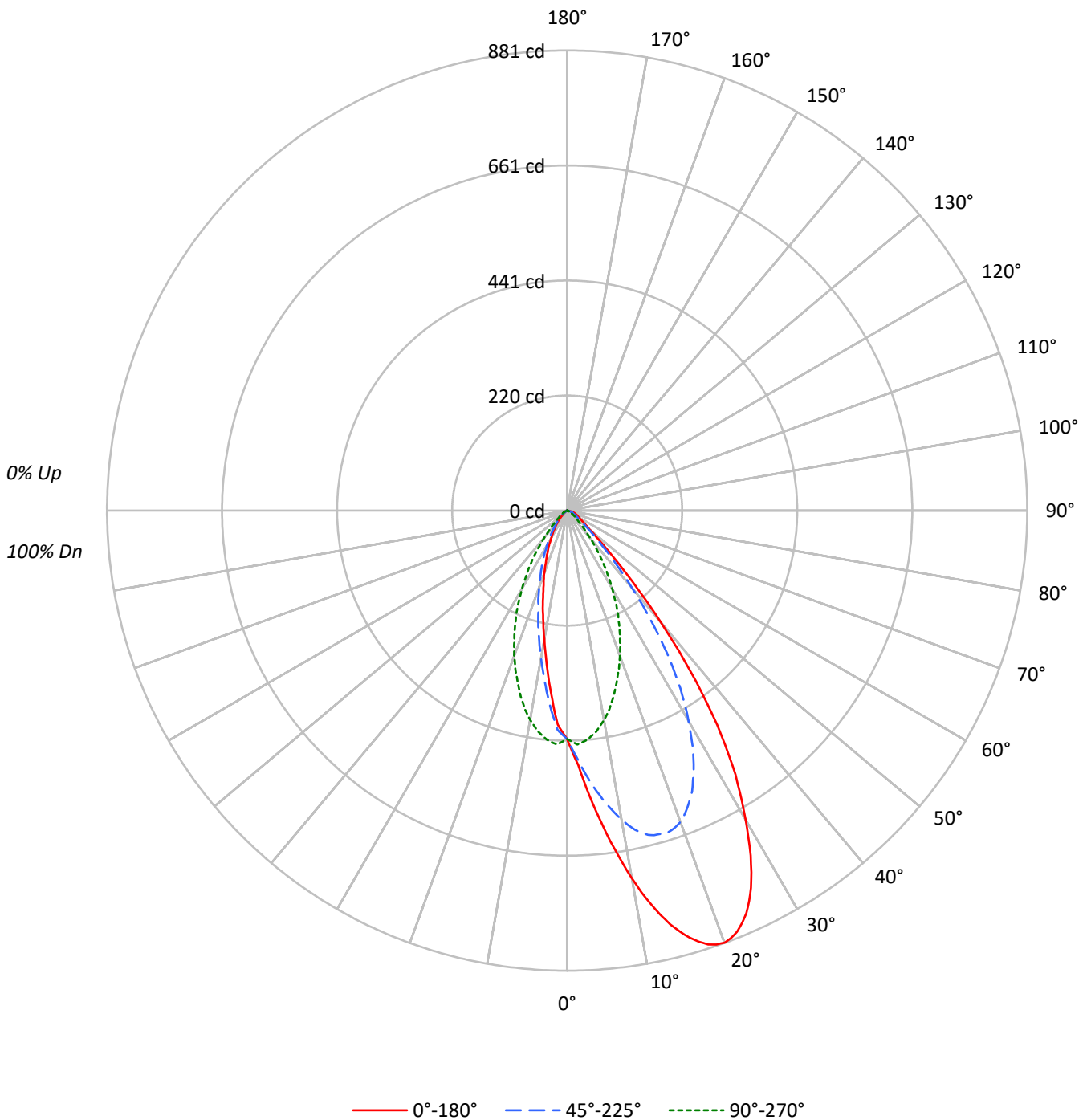
Input Watts (W): 18.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	100	96	95	94	92		
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92	92	92	92	92	92	92		
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85	85	85	85	85	85	85		
3	101	94	88	84	99	92	87	83	90	85	82	87	84	81	85	82	79	78	78	78	78	78	78	78		
4	95	87	81	76	93	86	80	76	83	79	75	81	77	74	79	76	73	71	71	71	71	71	71	71		
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	67	66	66	66	66	66	66	66		
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61	61	61	61	61	61	61		
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56	56	56	56	56	56	56		
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	53	53	53	53	53	53	53		
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49	49	49	49	49	49	49		
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	51	47	46	46	46	46	46	46	46		

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

	0°	90°	180°
0°	61342	61342	61342
5°	79327	62070	49476
10°	101919	57985	35811
15°	121288	51549	25978
20°	131514	44251	19131
25°	127641	36188	13843
30°	110648	27954	9804
35°	85867	20011	7110
40°	50930	12384	4763
45°	23757	7264	2521
50°	12292	4607	1528
55°	8784	3279	1028
60°	7101	2161	589
65°	6774	930	232
70°	6935	862	1723
75°	5368	380	380
80°	3394	0	566
85°	2254	1127	1127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.7	8.3
10°-20°	120.6	23.6
20°-30°	156.3	30.5
30°-40°	119.4	23.3
40°-50°	46.0	9.0
50°-60°	15.3	3.0
60°-70°	7.4	1.4
70°-80°	3.3	0.7
80°-90°	0.9	0.2
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°	319.7	62.4
0°-40°	439.0	85.8
0°-60°	500.3	97.7
0°-90°	511.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	437	437	437	437	437	
5°	563	524	441	375	351	58
15°	835	643	355	214	179	236
25°	824	570	234	113	89	372
35°	501	333	117	52	42	304
45°	120	95	37	18	13	105
55°	36	28	13	4	4	34
65°	20	12	3	1	1	20
75°	10	6	1	1	1	11
85°	1	1	1	1	1	2
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°	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1
2.5°	487.8	487.8	488.5	486.4	485.7	484.3	483.6	480.8	479.4	477.9	474.4
5°	563.1	562.4	561.0	558.9	553.3	549.7	544.8	537.8	531.4	523.7	514.6
7.5°	639.8	638.4	636.3	630.7	623.0	614.5	603.9	592.7	579.3	564.5	551.2
10°	715.2	713.1	708.1	701.1	689.1	675.7	659.6	641.3	622.2	601.1	579.3
11°	744.0	741.9	735.6	727.8	714.5	698.3	680.0	659.6	637.0	613.8	589.2
12°	770.1	768.0	760.9	751.1	737.0	719.4	698.3	675.0	651.1	624.4	597.6
13°	794.7	793.3	784.8	772.9	758.1	739.1	715.9	690.5	662.4	633.5	602.5
14°	816.5	815.1	807.4	793.3	776.4	753.9	729.9	701.1	670.8	639.8	606.1
15°	834.8	833.4	824.3	809.5	791.2	767.3	740.5	709.5	677.9	643.4	608.9
16°	850.3	848.2	838.3	823.6	802.4	777.8	749.0	715.9	681.4	644.1	607.5
17°	863.0	860.2	850.3	834.1	812.3	786.3	756.0	720.1	685.6	646.2	605.4
18°	873.5	870.7	859.5	843.3	819.3	791.2	759.5	722.2	684.2	644.1	603.2
19°	878.5	874.2	863.7	846.1	822.2	792.6	759.5	720.8	681.4	639.8	597.6
20°	880.6	876.4	865.1	846.8	821.5	791.2	756.7	718.0	677.2	634.2	590.6
21°	876.4	872.8	861.6	841.9	817.2	785.6	750.4	710.2	668.0	625.1	581.4
22°	869.3	865.1	853.1	834.1	808.1	777.8	741.2	700.4	659.6	613.8	570.9
23°	857.4	854.5	841.2	822.2	796.8	765.8	728.5	688.4	646.2	601.8	558.2
24°	844.0	839.8	827.1	807.4	782.7	750.4	713.8	673.6	630.7	587.8	544.8
25°	824.3	820.7	808.8	789.1	763.7	731.4	695.5	655.3	613.8	570.2	527.2
26°	803.2	798.9	787.0	766.5	741.9	711.6	675.7	636.3	595.5	552.6	510.3
27°	777.1	772.9	760.9	743.3	718.7	687.7	652.5	615.2	574.4	532.9	492.0
28°	748.2	744.7	733.5	715.2	690.5	660.3	627.9	592.7	552.6	511.7	471.6
29°	715.9	712.3	701.8	682.8	660.3	632.1	599.0	564.5	527.2	487.1	449.1
30°	682.8	679.3	671.5	651.8	630.7	603.9	573.7	537.8	503.3	465.3	428.0
32.5°	599.7	596.2	587.8	572.3	551.2	526.5	499.8	468.1	437.1	403.3	369.5
35°	501.2	498.4	489.2	475.8	459.6	437.1	412.5	387.1	360.4	332.9	305.5
37.5°	387.8	386.4	378.7	367.4	354.1	337.2	318.9	299.2	279.4	259.7	239.3
40°	278.0	277.3	273.8	267.5	256.2	246.4	233.0	221.7	207.7	193.6	179.5
42.5°	185.8	185.1	183.7	178.8	173.9	168.9	161.9	153.5	146.4	138.0	128.8
45°	119.7	119.0	117.6	116.1	114.0	111.2	107.7	104.2	100.7	95.0	90.1
47.5°	80.2	79.5	78.8	77.4	76.7	74.6	71.8	70.4	68.3	65.5	62.6
50°	56.3	57.0	56.3	55.6	54.2	53.5	51.4	50.0	48.6	46.5	44.3
52.5°	44.3	45.0	43.6	43.6	41.5	40.1	39.4	38.0	36.6	35.9	32.4
55°	35.9	35.9	35.2	34.5	33.8	33.1	31.7	30.3	28.9	27.5	26.0
57.5°	29.6	29.6	28.9	28.2	28.9	27.5	25.3	24.6	24.6	21.1	21.1
60°	25.3	26.0	25.3	25.3	23.9	23.2	22.5	21.1	19.7	18.3	16.9
62.5°	23.2	23.2	22.5	22.5	22.5	22.5	19.0	19.0	16.9	15.5	14.1
65°	20.4	19.7	19.0	19.0	17.6	16.9	15.5	14.8	14.1	12.0	10.6
67.5°	17.6	17.6	17.6	16.9	15.5	15.5	14.1	12.0	11.3	10.6	9.9
70°	16.9	16.9	15.5	15.5	14.1	12.7	12.7	11.3	9.9	9.9	7.7
72.5°	12.7	12.7	12.0	11.3	11.3	9.9	8.4	7.7	7.7	6.3	5.6
75°	9.9	9.9	9.9	9.9	7.7	7.7	7.0	7.0	5.6	6.3	3.5
77.5°	7.0	7.0	7.0	6.3	5.6	5.6	4.9	4.2	4.2	3.5	3.5
80°	4.2	4.2	4.9	3.5	4.2	4.9	3.5	3.5	3.5	2.1	2.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	2.1	2.8	2.1	2.8	2.1	2.1	2.1	2.1	1.4	1.4	0.7
85°	1.4	2.1	2.1	2.1	1.4	0.7	1.4	1.4	1.4	0.7	0.7
87.5°	0.7	0.0	0.0	0.0	0.7	0.7	0.0	0.7	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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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
0°	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1	437.1
2.5°	470.9	468.8	466.0	461.8	458.9	455.4	451.2	448.4	434.3	420.2	413.9
5°	506.1	497.0	488.5	478.7	468.8	460.4	451.2	440.6	403.3	375.2	356.2
7.5°	535.7	519.5	503.3	487.1	472.3	456.8	440.6	426.6	368.8	329.4	306.2
10°	557.5	534.3	511.0	489.2	467.4	447.0	426.6	406.9	334.4	286.5	260.4
11°	564.5	538.5	512.4	487.8	464.6	440.6	418.1	397.7	321.0	271.7	245.0
12°	568.8	540.6	511.7	485.0	458.9	435.7	410.4	388.6	308.3	256.2	228.1
13°	571.6	540.6	510.3	480.8	453.3	426.6	401.9	377.3	294.2	241.4	214.0
14°	573.7	540.6	508.2	477.2	447.0	418.1	392.1	367.4	280.2	228.1	200.6
15°	572.3	537.1	502.6	469.5	437.8	409.0	380.1	354.8	266.8	214.0	187.2
16°	570.9	533.6	497.0	461.1	428.7	397.7	368.8	342.8	252.0	199.2	173.9
17°	565.9	527.2	489.2	453.3	418.8	386.4	356.9	330.8	239.3	187.9	162.6
18°	562.4	521.6	482.2	444.9	409.7	377.3	347.0	320.3	228.8	178.8	152.7
19°	555.4	513.1	474.4	435.0	399.1	365.3	335.8	306.9	216.1	166.8	144.3
20°	547.6	505.4	463.9	425.2	388.6	354.1	324.5	296.3	204.8	157.0	133.7
21°	537.1	493.4	452.6	413.2	376.6	342.1	311.1	283.0	194.3	147.1	125.3
22°	525.1	482.2	440.6	401.2	363.2	330.1	297.8	270.3	183.0	137.3	116.1
23°	513.1	468.8	427.3	387.8	351.2	317.5	285.8	259.0	172.5	129.5	109.1
24°	500.5	455.4	413.9	374.5	337.9	304.1	274.5	245.7	162.6	120.4	101.4
25°	483.6	439.9	398.4	359.7	323.8	290.0	260.4	233.7	152.0	112.6	94.3
26°	467.4	425.2	383.6	346.3	310.4	277.3	248.5	222.4	142.9	105.6	88.7
27°	449.8	407.6	368.1	331.5	296.3	264.7	235.8	209.8	133.0	97.8	82.4
28°	430.1	390.0	352.0	316.8	281.6	250.6	223.1	197.8	124.6	91.5	76.0
29°	409.0	371.0	332.9	299.2	265.4	235.1	209.1	183.7	114.0	83.1	69.0
30°	390.0	353.4	317.5	282.3	250.6	221.0	194.3	172.5	105.6	76.7	64.8
32.5°	336.5	303.4	270.3	240.7	212.6	185.8	163.3	143.6	87.3	64.1	54.9
35°	278.0	250.6	222.4	197.1	173.9	153.5	133.7	116.8	71.8	52.1	44.3
37.5°	217.5	196.4	176.0	156.3	137.3	119.7	104.2	90.8	54.9	40.8	35.9
40°	164.0	149.2	134.4	119.0	104.2	90.8	79.5	67.6	42.2	32.4	28.9
42.5°	119.0	108.4	97.8	87.3	76.0	66.2	57.0	50.0	32.4	24.6	20.4
45°	83.8	77.4	69.7	61.9	53.5	46.5	41.5	36.6	25.3	18.3	14.1
47.5°	59.1	55.6	50.0	43.6	38.0	34.5	30.3	27.5	20.4	14.1	9.9
50°	42.2	38.7	35.9	31.0	28.9	26.0	23.9	21.1	14.8	10.6	7.7
52.5°	31.7	28.9	27.5	23.2	21.8	20.4	18.3	16.9	10.6	7.0	4.9
55°	23.9	22.5	20.4	18.3	16.9	15.5	14.1	13.4	7.7	4.2	3.5
57.5°	19.0	16.9	16.2	14.1	12.7	11.3	12.0	9.9	7.0	2.8	2.1
60°	16.2	14.8	12.0	11.3	9.9	9.2	8.4	7.7	4.2	2.8	2.1
62.5°	12.7	12.0	9.9	9.2	8.4	7.0	7.0	6.3	2.8	2.1	2.1
65°	9.2	8.4	7.0	6.3	6.3	4.9	4.2	2.8	1.4	0.7	0.0
67.5°	8.4	6.3	7.0	5.6	4.2	3.5	2.8	3.5	1.4	1.4	1.4
70°	7.0	6.3	5.6	5.6	3.5	3.5	2.8	2.1	1.4	1.4	1.4
72.5°	4.9	4.2	3.5	2.1	2.1	1.4	2.1	0.7	0.7	0.7	0.7
75°	3.5	2.8	3.5	2.8	2.1	1.4	3.5	0.7	0.7	0.7	0.7
77.5°	2.8	2.1	1.4	1.4	0.7	1.4	0.7	0.7	0.7	0.0	0.7
80°	4.2	2.8	1.4	0.7	0.7	2.1	2.8	0.0	2.8	0.7	0.7





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	1.4	0.7	0.7	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.0	0.7	0.7	0.7	1.4	2.1	0.7	1.4	0.7	0.7
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



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**CANDELA DISTRIBUTION (continued):**

	180°
0°	437.1
2.5°	410.4
5°	351.2
7.5°	297.8
10°	251.3
11°	235.1
12°	219.6
13°	204.8
14°	192.9
15°	178.8
16°	166.1
17°	154.9
18°	145.7
19°	137.3
20°	128.1
21°	118.3
22°	109.8
23°	102.8
24°	96.4
25°	89.4
26°	83.8
27°	78.1
28°	72.5
29°	65.5
30°	60.5
32.5°	50.7
35°	41.5
37.5°	33.8
40°	26.0
42.5°	19.0
45°	12.7
47.5°	11.3
50°	7.0
52.5°	6.3
55°	4.2
57.5°	1.4
60°	2.1
62.5°	1.4
65°	0.7
67.5°	0.7
70°	4.2
72.5°	0.7
75°	0.7
77.5°	0.0
80°	0.7



TEST NUMBER: P108837

CATALOG NUMBER: PN3LED12NFL25927-E3LWWH

**CANDELA DISTRIBUTION (continued):**

	180°
82.5°	0.0
85°	0.7
87.5°	0.0
90°	0.0

(END OF REPORT)