

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: P108834

Luminaire Tested: **PN3LED12NFL25830-E3LWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P108834
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: PN3LED12NFL25830-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) 3000K 80CRI LED
Ballast/Driver: (1) 450mA ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 725.1 lumens
Efficiency: N/A
Efficacy: 39.4 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

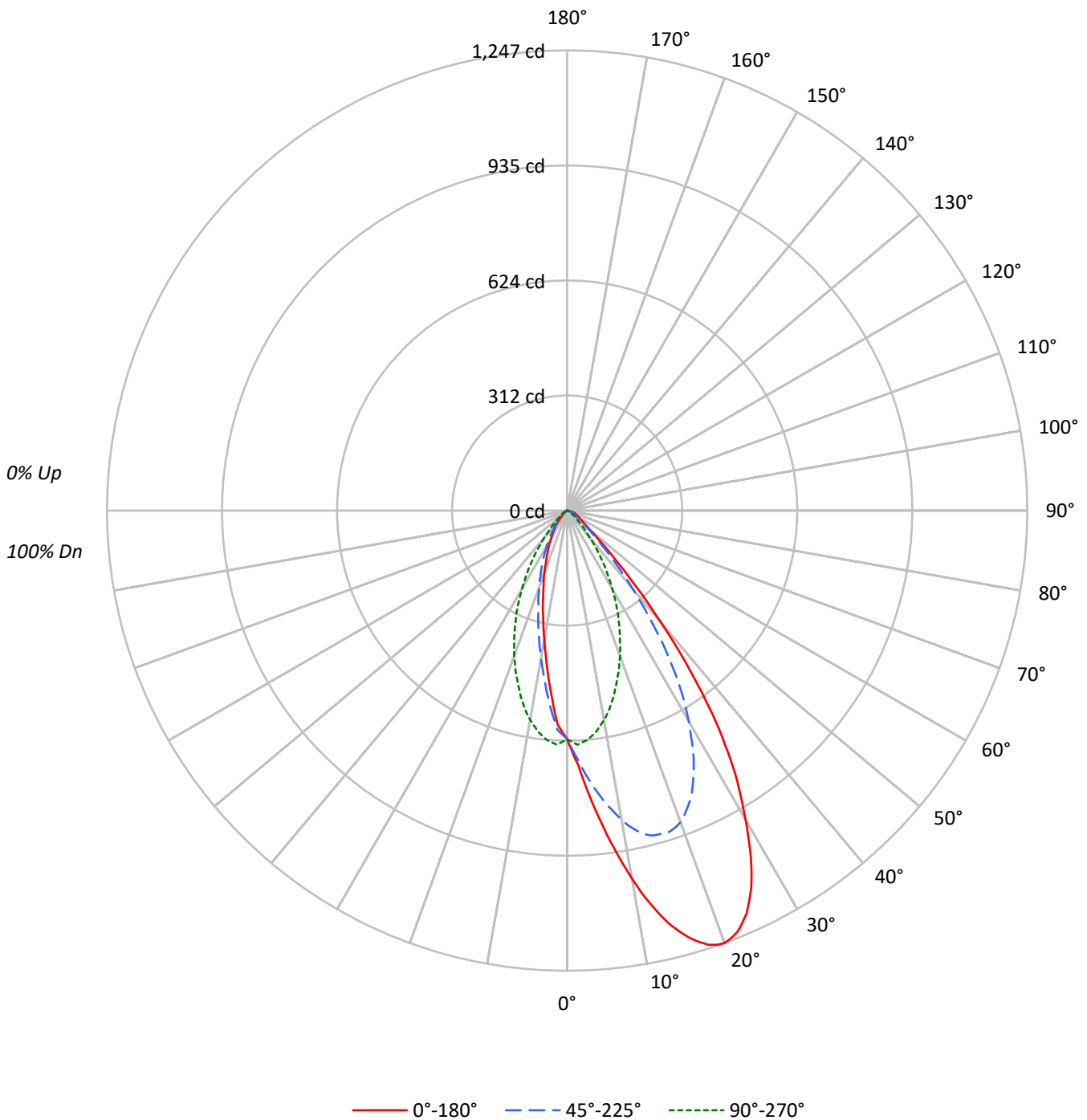
Input Watts (W): 18.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	86884	86884	86884
5°	112362	87921	70086
10°	144343	82125	50717
15°	171791	73008	36787
20°	186265	62681	27091
25°	180785	51255	19604
30°	156719	39589	13888
35°	121605	28354	10074
40°	72144	17532	6760
45°	33641	10281	3553
50°	17423	6528	2183
55°	12429	4624	1468
60°	10076	3087	842
65°	9597	1328	332
70°	9807	1231	2462
75°	7591	542	542
80°	4849	0	808
85°	3220	1610	1610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	8.3
10°-20°	170.8	23.6
20°-30°	221.4	30.5
30°-40°	169.1	23.3
40°-50°	65.1	9.0
50°-60°	21.7	3.0
60°-70°	10.4	1.4
70°-80°	4.8	0.7
80°-90°	1.2	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°	452.7	62.4
0°-40°	621.8	85.8
0°-60°	708.6	97.7
0°-90°	725.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	619	619	619	619	619	
5°	798	742	624	531	498	83
15°	1182	911	502	303	253	334
25°	1168	808	331	160	127	527
35°	710	472	166	74	59	431
45°	170	135	52	26	18	148
55°	51	39	19	6	6	47
65°	29	17	4	1	1	29
75°	14	9	1	1	1	15
85°	2	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°	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
2.5°	690.9	690.9	691.9	688.9	687.9	685.9	684.9	680.9	678.9	676.9	672.0
5°	797.6	796.6	794.6	791.6	783.6	778.6	771.7	761.7	752.7	741.7	728.8
7.5°	906.2	904.3	901.3	893.3	882.3	870.4	855.4	839.5	820.5	799.6	780.6
10°	1012.9	1009.9	1003.0	993.0	976.0	957.1	934.2	908.2	881.3	851.4	820.5
11°	1053.8	1050.8	1041.8	1030.9	1011.9	989.0	963.1	934.2	902.3	869.4	834.5
12°	1090.7	1087.7	1077.7	1063.8	1043.8	1018.9	989.0	956.1	922.2	884.3	846.4
13°	1125.6	1123.6	1111.6	1094.7	1073.7	1046.8	1013.9	978.0	938.2	897.3	853.4
14°	1156.5	1154.5	1143.5	1123.6	1099.7	1067.8	1033.9	993.0	950.1	906.2	858.4
15°	1182.4	1180.4	1167.5	1146.5	1120.6	1086.7	1048.8	1005.0	960.1	911.2	862.4
16°	1204.3	1201.4	1187.4	1166.5	1136.6	1101.7	1060.8	1013.9	965.1	912.2	860.4
17°	1222.3	1218.3	1204.3	1181.4	1150.5	1113.6	1070.8	1019.9	971.1	915.2	857.4
18°	1237.2	1233.3	1217.3	1194.4	1160.5	1120.6	1075.7	1022.9	969.1	912.2	854.4
19°	1244.2	1238.2	1223.3	1198.4	1164.5	1122.6	1075.7	1020.9	965.1	906.2	846.4
20°	1247.2	1241.2	1225.3	1199.4	1163.5	1120.6	1071.7	1016.9	959.1	898.3	836.5
21°	1241.2	1236.2	1220.3	1192.4	1157.5	1112.6	1062.8	1005.9	946.1	885.3	823.5
22°	1231.3	1225.3	1208.3	1181.4	1144.5	1101.7	1049.8	992.0	934.2	869.4	808.5
23°	1214.3	1210.3	1191.4	1164.5	1128.6	1084.7	1031.9	975.0	915.2	852.4	790.6
24°	1195.4	1189.4	1171.4	1143.5	1108.6	1062.8	1010.9	954.1	893.3	832.5	771.7
25°	1167.5	1162.5	1145.5	1117.6	1081.7	1035.9	985.0	928.2	869.4	807.5	746.7
26°	1137.5	1131.6	1114.6	1085.7	1050.8	1007.9	957.1	901.3	843.4	782.6	722.8
27°	1100.7	1094.7	1077.7	1052.8	1017.9	974.0	924.2	871.4	813.5	754.7	696.9
28°	1059.8	1054.8	1038.8	1012.9	978.0	935.2	889.3	839.5	782.6	724.8	668.0
29°	1013.9	1008.9	994.0	967.1	935.2	895.3	848.4	799.6	746.7	689.9	636.1
30°	967.1	962.1	951.1	923.2	893.3	855.4	812.5	761.7	712.8	659.0	606.2
32.5°	849.4	844.4	832.5	810.5	780.6	745.7	707.9	663.0	619.1	571.3	523.4
35°	709.8	705.9	692.9	674.0	651.0	619.1	584.2	548.3	510.5	471.6	432.7
37.5°	549.3	547.3	536.4	520.4	501.5	477.6	451.6	423.7	395.8	367.9	339.0
40°	393.8	392.8	387.8	378.9	362.9	348.9	330.0	314.0	294.1	274.2	254.2
42.5°	263.2	262.2	260.2	253.2	246.3	239.3	229.3	217.3	207.4	195.4	182.4
45°	169.5	168.5	166.5	164.5	161.5	157.5	152.5	147.6	142.6	134.6	127.6
47.5°	113.7	112.7	111.7	109.7	108.7	105.7	101.7	99.7	96.7	92.7	88.7
50°	79.8	80.8	79.8	78.8	76.8	75.8	72.8	70.8	68.8	65.8	62.8
52.5°	62.8	63.8	61.8	61.8	58.8	56.8	55.8	53.8	51.8	50.8	45.9
55°	50.8	50.8	49.8	48.9	47.9	46.9	44.9	42.9	40.9	38.9	36.9
57.5°	41.9	41.9	40.9	39.9	40.9	38.9	35.9	34.9	34.9	29.9	29.9
60°	35.9	36.9	35.9	35.9	33.9	32.9	31.9	29.9	27.9	25.9	23.9
62.5°	32.9	32.9	31.9	31.9	31.9	31.9	26.9	26.9	23.9	21.9	19.9
65°	28.9	27.9	26.9	26.9	24.9	23.9	21.9	20.9	19.9	16.9	15.0
67.5°	24.9	24.9	24.9	23.9	21.9	21.9	19.9	16.9	16.0	15.0	14.0
70°	23.9	23.9	21.9	21.9	19.9	17.9	17.9	16.0	14.0	14.0	11.0
72.5°	17.9	17.9	16.9	16.0	16.0	14.0	12.0	11.0	11.0	9.0	8.0
75°	14.0	14.0	14.0	14.0	11.0	11.0	10.0	10.0	8.0	9.0	5.0
77.5°	10.0	10.0	10.0	9.0	8.0	8.0	7.0	6.0	6.0	5.0	5.0
80°	6.0	6.0	7.0	5.0	6.0	7.0	5.0	5.0	5.0	3.0	4.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	3.0	4.0	3.0	4.0	3.0	3.0	3.0	3.0	2.0	2.0	1.0
85°	2.0	3.0	3.0	3.0	2.0	1.0	2.0	2.0	2.0	1.0	1.0
87.5°	1.0	0.0	0.0	0.0	1.0	1.0	0.0	1.0	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):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
0°	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1	619.1
2.5°	667.0	664.0	660.0	654.0	650.0	645.0	639.1	635.1	615.1	595.2	586.2
5°	716.8	703.9	691.9	677.9	664.0	652.0	639.1	624.1	571.3	531.4	504.5
7.5°	758.7	735.8	712.8	689.9	669.0	647.0	624.1	604.2	522.4	466.6	433.7
10°	789.6	756.7	723.8	692.9	662.0	633.1	604.2	576.3	473.6	405.8	368.9
11°	799.6	762.7	725.8	690.9	658.0	624.1	592.2	563.3	454.6	384.8	346.9
12°	805.6	765.7	724.8	686.9	650.0	617.1	581.2	550.3	436.7	362.9	323.0
13°	809.5	765.7	722.8	680.9	642.1	604.2	569.3	534.4	416.7	342.0	303.1
14°	812.5	765.7	719.8	675.9	633.1	592.2	555.3	520.4	396.8	323.0	284.1
15°	810.5	760.7	711.8	665.0	620.1	579.2	538.4	502.5	377.9	303.1	265.2
16°	808.5	755.7	703.9	653.0	607.2	563.3	522.4	485.5	356.9	282.1	246.3
17°	801.6	746.7	692.9	642.1	593.2	547.3	505.5	468.6	339.0	266.2	230.3
18°	796.6	738.8	682.9	630.1	580.2	534.4	491.5	453.6	324.0	253.2	216.3
19°	786.6	726.8	672.0	616.1	565.3	517.4	475.6	434.7	306.1	236.3	204.4
20°	775.6	715.8	657.0	602.2	550.3	501.5	459.6	419.7	290.1	222.3	189.4
21°	760.7	698.9	641.1	585.2	533.4	484.5	440.7	400.8	275.2	208.4	177.5
22°	743.7	682.9	624.1	568.3	514.4	467.6	421.7	382.8	259.2	194.4	164.5
23°	726.8	664.0	605.2	549.3	497.5	449.6	404.8	366.9	244.3	183.4	154.5
24°	708.8	645.0	586.2	530.4	478.5	430.7	388.8	347.9	230.3	170.5	143.6
25°	684.9	623.1	564.3	509.5	458.6	410.8	368.9	331.0	215.3	159.5	133.6
26°	662.0	602.2	543.4	490.5	439.7	392.8	351.9	315.0	202.4	149.5	125.6
27°	637.1	577.2	521.4	469.6	419.7	374.9	334.0	297.1	188.4	138.6	116.6
28°	609.2	552.3	498.5	448.6	398.8	354.9	316.0	280.1	176.5	129.6	107.7
29°	579.2	525.4	471.6	423.7	375.9	333.0	296.1	260.2	161.5	117.6	97.7
30°	552.3	500.5	449.6	399.8	354.9	313.0	275.2	244.3	149.5	108.7	91.7
32.5°	476.6	429.7	382.8	341.0	301.1	263.2	231.3	203.4	123.6	90.7	77.8
35°	393.8	354.9	315.0	279.2	246.3	217.3	189.4	165.5	101.7	73.8	62.8
37.5°	308.1	278.2	249.2	221.3	194.4	169.5	147.6	128.6	77.8	57.8	50.8
40°	232.3	211.4	190.4	168.5	147.6	128.6	112.7	95.7	59.8	45.9	40.9
42.5°	168.5	153.5	138.6	123.6	107.7	93.7	80.8	70.8	45.9	34.9	28.9
45°	118.6	109.7	98.7	87.7	75.8	65.8	58.8	51.8	35.9	25.9	19.9
47.5°	83.7	78.8	70.8	61.8	53.8	48.9	42.9	38.9	28.9	19.9	14.0
50°	59.8	54.8	50.8	43.9	40.9	36.9	33.9	29.9	20.9	15.0	11.0
52.5°	44.9	40.9	38.9	32.9	30.9	28.9	25.9	23.9	15.0	10.0	7.0
55°	33.9	31.9	28.9	25.9	23.9	21.9	19.9	18.9	11.0	6.0	5.0
57.5°	26.9	23.9	22.9	19.9	17.9	16.0	16.9	14.0	10.0	4.0	3.0
60°	22.9	20.9	16.9	16.0	14.0	13.0	12.0	11.0	6.0	4.0	3.0
62.5°	17.9	16.9	14.0	13.0	12.0	10.0	10.0	9.0	4.0	3.0	3.0
65°	13.0	12.0	10.0	9.0	9.0	7.0	6.0	4.0	2.0	1.0	0.0
67.5°	12.0	9.0	10.0	8.0	6.0	5.0	4.0	5.0	2.0	2.0	2.0
70°	10.0	9.0	8.0	8.0	5.0	5.0	4.0	3.0	2.0	2.0	2.0
72.5°	7.0	6.0	5.0	3.0	3.0	2.0	3.0	1.0	1.0	1.0	1.0
75°	5.0	4.0	5.0	4.0	3.0	2.0	5.0	1.0	1.0	1.0	1.0
77.5°	4.0	3.0	2.0	2.0	1.0	2.0	1.0	1.0	1.0	0.0	1.0
80°	6.0	4.0	2.0	1.0	1.0	3.0	4.0	0.0	4.0	1.0	1.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	2.0	1.0	1.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	0.0	1.0	1.0	1.0	2.0	3.0	1.0	2.0	1.0	1.0
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



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CANDELA DISTRIBUTION (continued):

	180°
0°	619.1
2.5°	581.2
5°	497.5
7.5°	421.7
10°	355.9
11°	333.0
12°	311.1
13°	290.1
14°	273.2
15°	253.2
16°	235.3
17°	219.3
18°	206.4
19°	194.4
20°	181.4
21°	167.5
22°	155.5
23°	145.6
24°	136.6
25°	126.6
26°	118.6
27°	110.7
28°	102.7
29°	92.7
30°	85.7
32.5°	71.8
35°	58.8
37.5°	47.9
40°	36.9
42.5°	26.9
45°	17.9
47.5°	16.0
50°	10.0
52.5°	9.0
55°	6.0
57.5°	2.0
60°	3.0
62.5°	2.0
65°	1.0
67.5°	1.0
70°	6.0
72.5°	1.0
75°	1.0
77.5°	0.0
80°	1.0



TEST NUMBER: P108834

CATALOG NUMBER: PN3LED12NFL25830-E3LWWH

CANDELA DISTRIBUTION (continued):

	180°
82.5°	0.0
85°	1.0
87.5°	0.0
90°	0.0

(END OF REPORT)