

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: P108835

Luminaire Tested: **PN3LED12NFL25835-E3LWWH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P108835
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: PN3LED12NFL25835-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) 3500K 80CRI LED
Ballast/Driver: (1) 450mA ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 764.1 lumens
Efficiency: N/A
Efficacy: 41.5 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

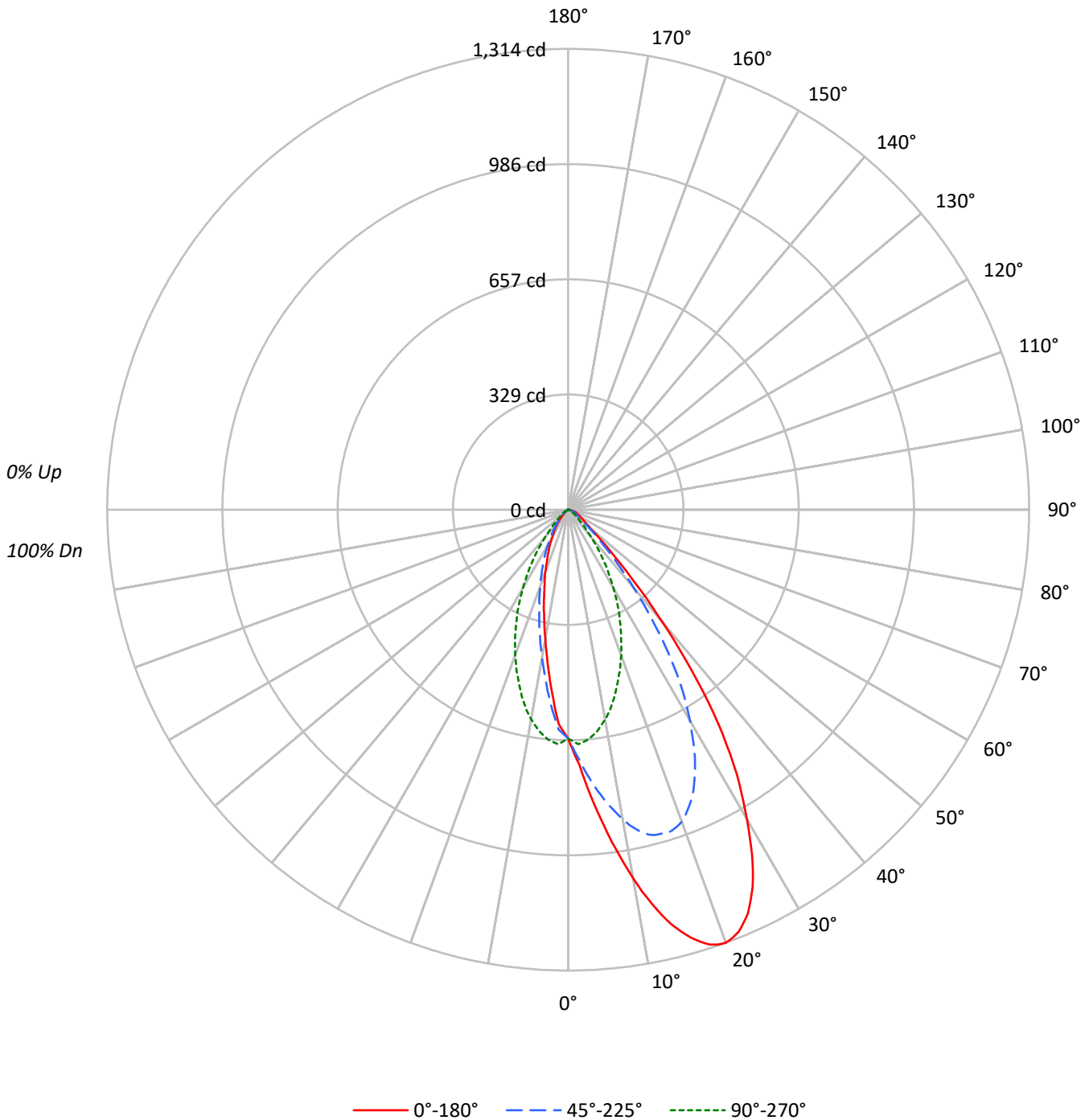
Input Watts (W): 18.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	91558	91558	91558
5°	118406	92654	73847
10°	152109	86529	53453
15°	181032	76931	38763
20°	196286	66056	28555
25°	190494	54011	20657
30°	165145	41712	14633
35°	128150	29879	10622
40°	76028	18485	7126
45°	35447	10836	3751
50°	18340	6877	2292
55°	13115	4893	1541
60°	10610	3256	898
65°	10128	1395	365
70°	10340	1313	2585
75°	7971	596	596
80°	5092	0	889
85°	3381	1771	1771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	8.3
10°-20°	180.0	23.6
20°-30°	233.3	30.5
30°-40°	178.2	23.3
40°-50°	68.6	9.0
50°-60°	22.9	3.0
60°-70°	11.0	1.4
70°-80°	5.0	0.7
80°-90°	1.3	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°	477.1	62.4
0°-40°	655.3	85.8
0°-60°	746.8	97.7
0°-90°	764.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	764.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	652	652	652	652	652	
5°	840	782	658	560	524	87
15°	1246	960	530	319	267	352
25°	1230	851	349	168	133	555
35°	748	497	174	78	62	454
45°	179	142	55	27	19	156
55°	54	41	20	6	6	50
65°	30	18	4	1	1	30
75°	15	10	1	1	1	16
85°	2	1	1	1	1	3
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°	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
2.5°	728.1	728.1	729.1	726.0	724.9	722.8	721.7	717.5	715.4	713.3	708.1
5°	840.5	839.4	837.3	834.2	825.8	820.5	813.1	802.6	793.2	781.6	768.0
7.5°	955.0	952.9	949.7	941.3	929.8	917.2	901.4	884.6	864.6	842.6	822.6
10°	1067.4	1064.2	1056.9	1046.4	1028.5	1008.6	984.4	957.1	928.7	897.2	864.6
11°	1110.5	1107.3	1097.9	1086.3	1066.3	1042.2	1014.9	984.4	950.8	916.1	879.3
12°	1149.3	1146.2	1135.7	1121.0	1100.0	1073.7	1042.2	1007.5	971.8	931.9	891.9
13°	1186.1	1184.0	1171.4	1153.5	1131.5	1103.1	1068.4	1030.6	988.6	945.5	899.3
14°	1218.7	1216.6	1205.0	1184.0	1158.8	1125.2	1089.5	1046.4	1001.2	955.0	904.5
15°	1246.0	1243.9	1230.2	1208.2	1180.9	1145.1	1105.2	1059.0	1011.7	960.2	908.8
16°	1269.1	1265.9	1251.2	1229.2	1197.7	1160.9	1117.8	1068.4	1017.0	961.3	906.6
17°	1288.0	1283.8	1269.1	1244.9	1212.4	1173.5	1128.3	1074.7	1023.3	964.4	903.5
18°	1303.8	1299.6	1282.8	1258.6	1222.9	1180.9	1133.6	1077.9	1021.2	961.3	900.3
19°	1311.1	1304.8	1289.1	1262.8	1227.1	1183.0	1133.6	1075.8	1017.0	955.0	891.9
20°	1314.3	1308.0	1291.2	1263.8	1226.0	1180.9	1129.4	1071.6	1010.7	946.6	881.4
21°	1308.0	1302.7	1285.9	1256.5	1219.7	1172.4	1119.9	1060.0	997.0	932.9	867.8
22°	1297.5	1291.2	1273.3	1244.9	1206.1	1160.9	1106.3	1045.3	984.4	916.1	852.0
23°	1279.6	1275.4	1255.4	1227.1	1189.3	1143.0	1087.3	1027.5	964.4	898.2	833.1
24°	1259.6	1253.3	1234.4	1205.0	1168.2	1119.9	1065.3	1005.4	941.3	877.2	813.1
25°	1230.2	1225.0	1207.1	1177.7	1139.9	1091.6	1038.0	978.1	916.1	851.0	786.9
26°	1198.7	1192.4	1174.5	1144.1	1107.3	1062.1	1008.6	949.7	888.8	824.7	761.7
27°	1159.8	1153.5	1135.7	1109.4	1072.6	1026.4	973.9	918.2	857.3	795.3	734.4
28°	1116.8	1111.5	1094.7	1067.4	1030.6	985.4	937.1	884.6	824.7	763.8	703.9
29°	1068.4	1063.2	1047.4	1019.1	985.4	943.4	894.0	842.6	786.9	727.0	670.3
30°	1019.1	1013.8	1002.3	972.8	941.3	901.4	856.2	802.6	751.2	694.4	638.8
32.5°	895.1	889.8	877.2	854.1	822.6	785.8	745.9	698.6	652.4	602.0	551.6
35°	748.0	743.8	730.2	710.2	686.0	652.4	615.6	577.8	537.9	496.9	456.0
37.5°	578.9	576.8	565.2	548.4	528.4	503.2	475.9	446.5	417.1	387.7	357.2
40°	415.0	413.9	408.7	399.2	382.4	367.7	347.7	330.9	309.9	288.9	267.9
42.5°	277.4	276.3	274.2	266.8	259.5	252.1	241.6	229.0	218.5	205.9	192.3
45°	178.6	177.5	175.4	173.3	170.2	166.0	160.7	155.5	150.2	141.8	134.5
47.5°	119.8	118.7	117.7	115.6	114.5	111.4	107.2	105.1	101.9	97.7	93.5
50°	84.0	85.1	84.0	83.0	80.9	79.8	76.7	74.6	72.5	69.3	66.2
52.5°	66.2	67.2	65.1	65.1	62.0	59.9	58.8	56.7	54.6	53.6	48.3
55°	53.6	53.6	52.5	51.5	50.4	49.4	47.3	45.2	43.1	41.0	38.9
57.5°	44.1	44.1	43.1	42.0	43.1	41.0	37.8	36.8	36.8	31.5	31.5
60°	37.8	38.9	37.8	37.8	35.7	34.7	33.6	31.5	29.4	27.3	25.2
62.5°	34.7	34.7	33.6	33.6	33.6	33.6	28.4	28.4	25.2	23.1	21.0
65°	30.5	29.4	28.4	28.4	26.3	25.2	23.1	22.1	21.0	17.9	15.8
67.5°	26.3	26.3	26.3	25.2	23.1	23.1	21.0	17.9	16.8	15.8	14.7
70°	25.2	25.2	23.1	23.1	21.0	18.9	18.9	16.8	14.7	14.7	11.6
72.5°	18.9	18.9	17.9	16.8	16.8	14.7	12.6	11.6	11.6	9.5	8.4
75°	14.7	14.7	14.7	14.7	11.6	11.6	10.5	10.5	8.4	9.5	5.3
77.5°	10.5	10.5	10.5	9.5	8.4	8.4	7.4	6.3	6.3	5.3	5.3
80°	6.3	6.3	7.4	5.3	6.3	7.4	5.3	5.3	5.3	3.2	4.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	3.2	4.2	3.2	4.2	3.2	3.2	3.2	3.2	2.1	2.1	1.1
85°	2.1	3.2	3.2	3.2	2.1	1.1	2.1	2.1	2.1	1.1	1.1
87.5°	1.1	0.0	0.0	0.0	1.1	1.1	0.0	1.1	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°	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4	652.4
2.5°	702.8	699.7	695.5	689.2	685.0	679.7	673.4	669.2	648.2	627.2	617.7
5°	755.4	741.7	729.1	714.4	699.7	687.1	673.4	657.7	602.0	560.0	531.6
7.5°	799.5	775.3	751.2	727.0	704.9	681.8	657.7	636.7	550.5	491.7	457.0
10°	832.1	797.4	762.7	730.2	697.6	667.1	636.7	607.2	499.0	427.6	388.7
11°	842.6	803.7	764.8	728.1	693.4	657.7	624.0	593.6	479.1	405.5	365.6
12°	848.9	806.8	763.8	723.8	685.0	650.3	612.5	579.9	460.2	382.4	340.4
13°	853.1	806.8	761.7	717.5	676.6	636.7	599.9	563.1	439.1	360.3	319.4
14°	856.2	806.8	758.5	712.3	667.1	624.0	585.2	548.4	418.1	340.4	299.4
15°	854.1	801.6	750.1	700.7	653.5	610.4	567.3	529.5	398.2	319.4	279.5
16°	852.0	796.3	741.7	688.1	639.8	593.6	550.5	511.6	376.1	297.3	259.5
17°	844.7	786.9	730.2	676.6	625.1	576.8	532.6	493.8	357.2	280.5	242.7
18°	839.4	778.5	719.6	664.0	611.4	563.1	517.9	478.0	341.4	266.8	228.0
19°	828.9	765.9	708.1	649.3	595.7	545.3	501.1	458.1	322.5	249.0	215.4
20°	817.4	754.3	692.3	634.5	579.9	528.4	484.3	442.3	305.7	234.3	199.6
21°	801.6	736.5	675.5	616.7	562.1	510.6	464.4	422.3	290.0	219.6	187.0
22°	783.7	719.6	657.7	598.8	542.1	492.7	444.4	403.4	273.2	204.9	173.3
23°	765.9	699.7	637.7	578.9	524.2	473.8	426.5	386.6	257.4	193.3	162.8
24°	747.0	679.7	617.7	558.9	504.3	453.9	409.7	366.7	242.7	179.6	151.3
25°	721.7	656.6	594.6	536.8	483.3	432.8	388.7	348.8	226.9	168.1	140.8
26°	697.6	634.5	572.6	516.9	463.3	413.9	370.9	332.0	213.3	157.6	132.4
27°	671.3	608.3	549.5	494.8	442.3	395.0	351.9	313.1	198.6	146.0	122.9
28°	641.9	582.0	525.3	472.8	420.2	374.0	333.0	295.2	186.0	136.6	113.5
29°	610.4	553.7	496.9	446.5	396.1	350.9	312.0	274.2	170.2	124.0	103.0
30°	582.0	527.4	473.8	421.3	374.0	329.9	290.0	257.4	157.6	114.5	96.7
32.5°	502.2	452.8	403.4	359.3	317.3	277.4	243.7	214.3	130.3	95.6	81.9
35°	415.0	374.0	332.0	294.2	259.5	229.0	199.6	174.4	107.2	77.7	66.2
37.5°	324.6	293.1	262.6	233.2	204.9	178.6	155.5	135.5	81.9	60.9	53.6
40°	244.8	222.7	200.7	177.5	155.5	135.5	118.7	100.9	63.0	48.3	43.1
42.5°	177.5	161.8	146.0	130.3	113.5	98.8	85.1	74.6	48.3	36.8	30.5
45°	125.0	115.6	104.0	92.5	79.8	69.3	62.0	54.6	37.8	27.3	21.0
47.5°	88.2	83.0	74.6	65.1	56.7	51.5	45.2	41.0	30.5	21.0	14.7
50°	63.0	57.8	53.6	46.2	43.1	38.9	35.7	31.5	22.1	15.8	11.6
52.5°	47.3	43.1	41.0	34.7	32.6	30.5	27.3	25.2	15.8	10.5	7.4
55°	35.7	33.6	30.5	27.3	25.2	23.1	21.0	20.0	11.6	6.3	5.3
57.5°	28.4	25.2	24.2	21.0	18.9	16.8	17.9	14.7	10.5	4.2	3.2
60°	24.2	22.1	17.9	16.8	14.7	13.7	12.6	11.6	6.3	4.2	3.2
62.5°	18.9	17.9	14.7	13.7	12.6	10.5	10.5	9.5	4.2	3.2	3.2
65°	13.7	12.6	10.5	9.5	9.5	7.4	6.3	4.2	2.1	1.1	0.0
67.5°	12.6	9.5	10.5	8.4	6.3	5.3	4.2	5.3	2.1	2.1	2.1
70°	10.5	9.5	8.4	8.4	5.3	5.3	4.2	3.2	2.1	2.1	2.1
72.5°	7.4	6.3	5.3	3.2	3.2	2.1	3.2	1.1	1.1	1.1	1.1
75°	5.3	4.2	5.3	4.2	3.2	2.1	5.3	1.1	1.1	1.1	1.1
77.5°	4.2	3.2	2.1	2.1	1.1	2.1	1.1	1.1	1.1	0.0	1.1
80°	6.3	4.2	2.1	1.1	1.1	3.2	4.2	0.0	4.2	1.1	1.1



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	2.1	1.1	1.1	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
85°	1.1	0.0	1.1	1.1	1.1	2.1	3.2	1.1	2.1	1.1	1.1
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°	652.4
2.5°	612.5
5°	524.2
7.5°	444.4
10°	375.1
11°	350.9
12°	327.8
13°	305.7
14°	287.9
15°	266.8
16°	247.9
17°	231.1
18°	217.5
19°	204.9
20°	191.2
21°	176.5
22°	163.9
23°	153.4
24°	143.9
25°	133.4
26°	125.0
27°	116.6
28°	108.2
29°	97.7
30°	90.3
32.5°	75.6
35°	62.0
37.5°	50.4
40°	38.9
42.5°	28.4
45°	18.9
47.5°	16.8
50°	10.5
52.5°	9.5
55°	6.3
57.5°	2.1
60°	3.2
62.5°	2.1
65°	1.1
67.5°	1.1
70°	6.3
72.5°	1.1
75°	1.1
77.5°	0.0
80°	1.1



TEST NUMBER: P108835

CATALOG NUMBER: PN3LED12NFL25835-E3LWWH

CANDELA DISTRIBUTION (continued):

	180°
82.5°	0.0
85°	1.1
87.5°	0.0
90°	0.0

(END OF REPORT)