

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: P106554

Luminaire Tested: **P3LED09NFL25830-E3LWWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P106554  
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: P3LED09NFL25830-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) 340mA ELECTRONIC DRIVER

**Summary**

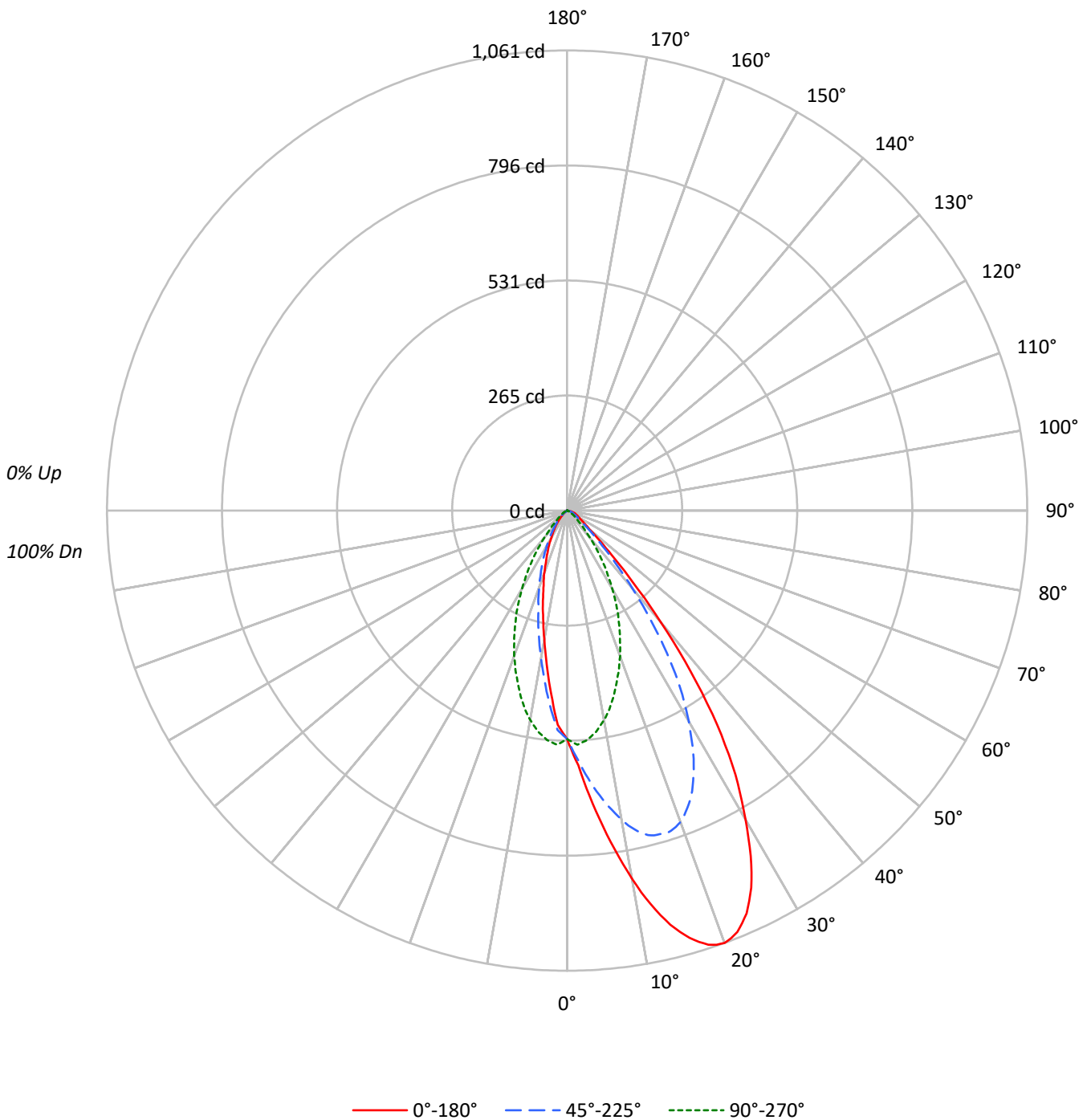
Lumens per Lamp: N/A  
Luminaire Lumens: 616.8 lumens  
Efficiency: N/A  
Efficacy: 43.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 0.8 / 0.98  
Luminous Opening: Circular (Dia: 0.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.2  
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			
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°	73917	73917	73917
5°	95598	74805	59633
10°	122810	69870	43150
15°	146162	62112	31296
20°	158471	53332	23059
25°	153810	43605	16677
30°	133335	33674	11813
35°	103462	24122	8566
40°	61372	14913	5752
45°	28619	8753	3037
50°	14825	5546	1856
55°	10594	3939	1248
60°	8561	2610	702
65°	8169	1129	266
70°	8371	1026	2093
75°	6453	434	434
80°	4122	0	647
85°	2737	1288	1288



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.5	8.3
10°-20°	145.3	23.6
20°-30°	188.4	30.5
30°-40°	143.9	23.3
40°-50°	55.4	9.0
50°-60°	18.5	3.0
60°-70°	8.9	1.4
70°-80°	4.0	0.7
80°-90°	1.0	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°	385.2	62.4
0°-40°	529.1	85.8
0°-60°	602.9	97.7
0°-90°	616.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	616.8	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	527	527	527	527	527	
5°	679	631	531	452	423	70
15°	1006	775	428	258	215	284
25°	993	687	282	136	108	448
35°	604	401	141	63	50	367
45°	144	114	44	22	15	126
55°	43	33	16	5	5	40
65°	25	14	3	1	1	25
75°	12	8	1	1	1	13
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°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	587.8	587.8	588.7	586.1	585.3	583.6	582.7	579.3	577.6	575.9	571.7
5°	678.6	677.7	676.0	673.5	666.7	662.5	656.5	648.0	640.4	631.1	620.1
7.5°	771.0	769.3	766.8	760.0	750.7	740.5	727.8	714.2	698.1	680.3	664.2
10°	861.8	859.3	853.3	844.8	830.4	814.3	794.8	772.7	749.8	724.4	698.1
11°	896.6	894.0	886.4	877.1	860.9	841.4	819.4	794.8	767.6	739.7	710.0
12°	928.0	925.4	916.9	905.1	888.1	866.9	841.4	813.4	784.6	752.4	720.1
13°	957.6	956.0	945.8	931.4	913.5	890.6	862.6	832.1	798.2	763.4	726.1
14°	983.9	982.2	972.9	956.0	935.6	908.4	879.6	844.8	808.4	771.0	730.3
15°	1006.0	1004.3	993.3	975.5	953.4	924.6	892.3	855.0	816.8	775.3	733.7
16°	1024.7	1022.1	1010.2	992.4	967.0	937.3	902.5	862.6	821.1	776.1	732.0
17°	1039.9	1036.5	1024.7	1005.1	978.9	947.5	911.0	867.7	826.2	778.7	729.5
18°	1052.6	1049.3	1035.7	1016.2	987.3	953.4	915.2	870.3	824.5	776.1	726.9
19°	1058.6	1053.5	1040.8	1019.6	990.7	955.1	915.2	868.6	821.1	771.0	720.1
20°	1061.1	1056.0	1042.5	1020.4	989.9	953.4	911.8	865.2	816.0	764.3	711.7
21°	1056.0	1051.8	1038.2	1014.5	984.8	946.6	904.2	855.9	805.0	753.2	700.6
22°	1047.6	1042.5	1028.0	1005.1	973.8	937.3	893.2	844.0	794.8	739.7	687.9
23°	1033.1	1029.7	1013.6	990.7	960.2	922.9	877.9	829.6	778.7	725.2	672.6
24°	1017.0	1011.9	996.7	972.9	943.2	904.2	860.1	811.8	760.0	708.3	656.5
25°	993.3	989.0	974.6	950.9	920.3	881.3	838.0	789.7	739.7	687.1	635.3
26°	967.8	962.7	948.3	923.7	894.0	857.6	814.3	766.8	717.6	665.9	615.0
27°	936.4	931.4	916.9	895.7	866.0	828.7	786.3	741.3	692.2	642.1	592.9
28°	901.7	897.4	883.9	861.8	832.1	795.6	756.6	714.2	665.9	616.7	568.3
29°	862.6	858.4	845.7	822.8	795.6	761.7	721.8	680.3	635.3	587.0	541.2
30°	822.8	818.5	809.2	785.5	760.0	727.8	691.3	648.0	606.5	560.7	515.7
32.5°	722.7	718.4	708.3	689.6	664.2	634.5	602.2	564.1	526.7	486.0	445.3
35°	603.9	600.5	589.5	573.4	553.9	526.7	497.1	466.5	434.3	401.2	368.1
37.5°	467.4	465.7	456.3	442.8	426.7	406.3	384.2	360.5	336.7	313.0	288.4
40°	335.0	334.2	330.0	322.3	308.8	296.9	280.8	267.2	250.2	233.3	216.3
42.5°	223.9	223.1	221.4	215.4	209.5	203.6	195.1	184.9	176.4	166.3	155.2
45°	144.2	143.4	141.7	140.0	137.4	134.0	129.8	125.5	121.3	114.5	108.6
47.5°	96.7	95.8	95.0	93.3	92.5	89.9	86.5	84.8	82.3	78.9	75.5
50°	67.9	68.7	67.9	67.0	65.3	64.5	61.9	60.2	58.5	56.0	53.4
52.5°	53.4	54.3	52.6	52.6	50.0	48.3	47.5	45.8	44.1	43.3	39.0
55°	43.3	43.3	42.4	41.6	40.7	39.9	38.2	36.5	34.8	33.1	31.4
57.5°	35.6	35.6	34.8	33.9	34.8	33.1	30.5	29.7	29.7	25.4	25.4
60°	30.5	31.4	30.5	30.5	28.8	28.0	27.1	25.4	23.8	22.1	20.4
62.5°	28.0	28.0	27.1	27.1	27.1	27.1	22.9	22.9	20.4	18.7	17.0
65°	24.6	23.8	22.9	22.9	21.2	20.4	18.7	17.8	17.0	14.4	12.7
67.5°	21.2	21.2	21.2	20.4	18.7	18.7	17.0	14.4	13.6	12.7	11.9
70°	20.4	20.4	18.7	18.7	17.0	15.3	15.3	13.6	11.9	11.9	9.3
72.5°	15.3	15.3	14.4	13.6	13.6	11.9	10.2	9.3	9.3	7.6	6.8
75°	11.9	11.9	11.9	11.9	9.3	9.3	8.5	8.5	6.8	7.6	4.2
77.5°	8.5	8.5	8.5	7.6	6.8	6.8	5.9	5.1	5.1	4.2	4.2
80°	5.1	5.1	5.9	4.2	5.1	5.9	4.2	4.2	4.2	2.5	3.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	2.5	3.4	2.5	3.4	2.5	2.5	2.5	2.5	1.7	1.7	0.8
85°	1.7	2.5	2.5	2.5	1.7	0.8	1.7	1.7	1.7	0.8	0.8
87.5°	0.8	0.0	0.0	0.0	0.8	0.8	0.0	0.8	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°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	567.5	564.9	561.5	556.4	553.0	548.8	543.7	540.3	523.4	506.4	498.8
5°	609.9	598.8	588.7	576.8	564.9	554.7	543.7	531.0	486.0	452.1	429.2
7.5°	645.5	626.0	606.5	587.0	569.2	550.5	531.0	514.0	444.5	397.0	369.0
10°	671.8	643.8	615.8	589.5	563.2	538.6	514.0	490.3	402.9	345.2	313.8
11°	680.3	648.9	617.5	587.8	559.8	531.0	503.8	479.2	386.8	327.4	295.2
12°	685.4	651.4	616.7	584.4	553.0	525.1	494.5	468.2	371.5	308.8	274.8
13°	688.8	651.4	615.0	579.3	546.3	514.0	484.3	454.6	354.6	290.9	257.9
14°	691.3	651.4	612.4	575.1	538.6	503.8	472.5	442.8	337.6	274.8	241.7
15°	689.6	647.2	605.6	565.8	527.6	492.8	458.0	427.5	321.5	257.9	225.6
16°	687.9	643.0	598.8	555.6	516.6	479.2	444.5	413.1	303.7	240.0	209.5
17°	682.0	635.3	589.5	546.3	504.7	465.7	430.1	398.7	288.4	226.5	195.9
18°	677.7	628.5	581.0	536.1	493.7	454.6	418.2	385.9	275.7	215.4	184.1
19°	669.3	618.4	571.7	524.2	480.9	440.2	404.6	369.8	260.4	201.0	173.9
20°	659.9	609.0	559.0	512.3	468.2	426.7	391.0	357.1	246.8	189.2	161.2
21°	647.2	594.6	545.4	497.9	453.8	412.2	374.9	341.0	234.1	177.3	151.0
22°	632.8	581.0	531.0	483.5	437.7	397.8	358.8	325.7	220.5	165.4	140.0
23°	618.4	564.9	514.9	467.4	423.3	382.5	344.4	312.1	207.8	156.1	131.5
24°	603.1	548.8	498.8	451.3	407.1	366.4	330.8	296.0	195.9	145.0	122.1
25°	582.7	530.1	480.1	433.4	390.2	349.5	313.8	281.6	183.2	135.7	113.7
26°	563.2	512.3	462.3	417.3	374.1	334.2	299.4	268.0	172.2	127.2	106.9
27°	542.0	491.1	443.6	399.5	357.1	318.9	284.2	252.8	160.3	117.9	99.2
28°	518.3	469.9	424.1	381.7	339.3	302.0	268.9	238.4	150.1	110.3	91.6
29°	492.8	447.0	401.2	360.5	319.8	283.3	251.9	221.4	137.4	100.1	83.1
30°	469.9	425.8	382.5	340.1	302.0	266.3	234.1	207.8	127.2	92.5	78.0
32.5°	405.5	365.6	325.7	290.1	256.2	223.9	196.8	173.0	105.2	77.2	66.2
35°	335.0	302.0	268.0	237.5	209.5	184.9	161.2	140.8	86.5	62.8	53.4
37.5°	262.1	236.7	212.1	188.3	165.4	144.2	125.5	109.4	66.2	49.2	43.3
40°	197.6	179.8	162.0	143.4	125.5	109.4	95.8	81.4	50.9	39.0	34.8
42.5°	143.4	130.6	117.9	105.2	91.6	79.7	68.7	60.2	39.0	29.7	24.6
45°	100.9	93.3	84.0	74.6	64.5	56.0	50.0	44.1	30.5	22.1	17.0
47.5°	71.3	67.0	60.2	52.6	45.8	41.6	36.5	33.1	24.6	17.0	11.9
50°	50.9	46.7	43.3	37.3	34.8	31.4	28.8	25.4	17.8	12.7	9.3
52.5°	38.2	34.8	33.1	28.0	26.3	24.6	22.1	20.4	12.7	8.5	5.9
55°	28.8	27.1	24.6	22.1	20.4	18.7	17.0	16.1	9.3	5.1	4.2
57.5°	22.9	20.4	19.5	17.0	15.3	13.6	14.4	11.9	8.5	3.4	2.5
60°	19.5	17.8	14.4	13.6	11.9	11.0	10.2	9.3	5.1	3.4	2.5
62.5°	15.3	14.4	11.9	11.0	10.2	8.5	8.5	7.6	3.4	2.5	2.5
65°	11.0	10.2	8.5	7.6	7.6	5.9	5.1	3.4	1.7	0.8	0.0
67.5°	10.2	7.6	8.5	6.8	5.1	4.2	3.4	4.2	1.7	1.7	1.7
70°	8.5	7.6	6.8	6.8	4.2	4.2	3.4	2.5	1.7	1.7	1.7
72.5°	5.9	5.1	4.2	2.5	2.5	1.7	2.5	0.8	0.8	0.8	0.8
75°	4.2	3.4	4.2	3.4	2.5	1.7	4.2	0.8	0.8	0.8	0.8
77.5°	3.4	2.5	1.7	1.7	0.8	1.7	0.8	0.8	0.8	0.0	0.8
80°	5.1	3.4	1.7	0.8	0.8	2.5	3.4	0.0	3.4	0.8	0.8





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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	112.5°	135°	157.5°
82.5°	1.7	0.8	0.8	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.8	0.0	0.8	0.8	0.8	1.7	2.5	0.8	1.7	0.8	0.8
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°	526.7
2.5°	494.5
5°	423.3
7.5°	358.8
10°	302.8
11°	283.3
12°	264.6
13°	246.8
14°	232.4
15°	215.4
16°	200.2
17°	186.6
18°	175.6
19°	165.4
20°	154.4
21°	142.5
22°	132.3
23°	123.8
24°	116.2
25°	107.7
26°	100.9
27°	94.2
28°	87.4
29°	78.9
30°	72.9
32.5°	61.1
35°	50.0
37.5°	40.7
40°	31.4
42.5°	22.9
45°	15.3
47.5°	13.6
50°	8.5
52.5°	7.6
55°	5.1
57.5°	1.7
60°	2.5
62.5°	1.7
65°	0.8
67.5°	0.8
70°	5.1
72.5°	0.8
75°	0.8
77.5°	0.0
80°	0.8



TEST NUMBER: P106554

CATALOG NUMBER: P3LED09NFL25830-E3LWWH

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)