

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: P106556

Luminaire Tested: **P3LED09NFL25840-E3LWWH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P106556  
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: P3LED09NFL25840-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) 4000K 80CRI LED  
Ballast/Driver: (1) 340mA ELECTRONIC DRIVER

**Summary**

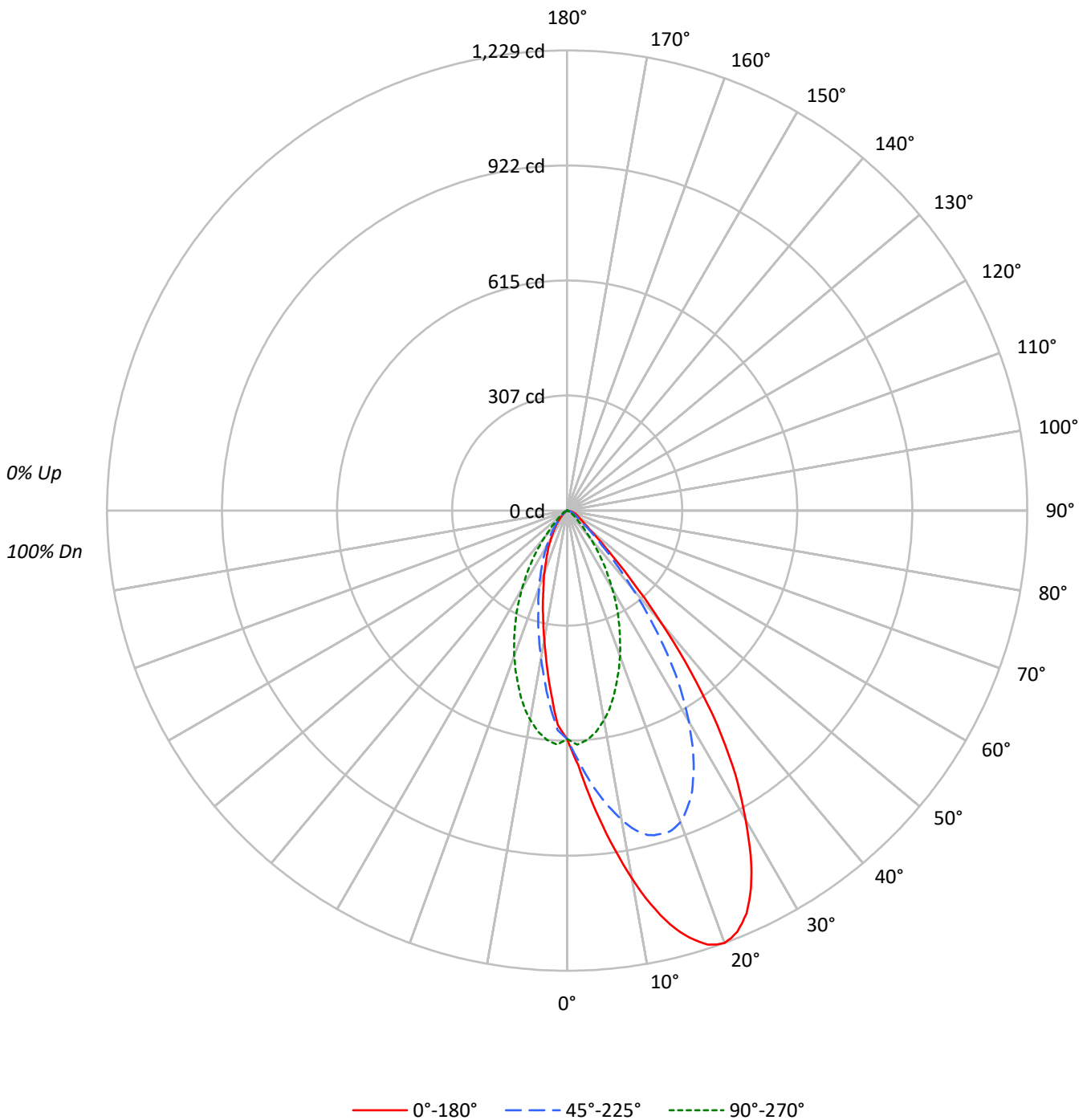
Lumens per Lamp: N/A  
Luminaire Lumens: 714.3 lumens  
Efficiency: N/A  
Efficacy: 50.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 0.8 / 0.98  
Luminous Opening: Circular (Dia: 0.31' x H: 0')  
CIE Type: Direct

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°	85607	85607	85607
5°	110700	86624	69043
10°	142205	80900	49976
15°	169249	71919	36250
20°	183517	61755	26703
25°	178106	50496	19310
30°	154401	38989	13693
35°	119823	27943	9937
40°	71082	17276	6650
45°	33145	10142	3513
50°	17161	6441	2140
55°	12258	4575	1444
60°	9936	3031	814
65°	9464	1295	332
70°	9684	1190	2421
75°	7483	542	542
80°	4768	0	808
85°	3220	1610	1610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	8.3
10°-20°	168.3	23.6
20°-30°	218.2	30.5
30°-40°	166.6	23.3
40°-50°	64.1	9.0
50°-60°	21.4	3.0
60°-70°	10.3	1.4
70°-80°	4.7	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°	446.1	62.4
0°-40°	612.6	85.8
0°-60°	698.2	97.7
0°-90°	714.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	714.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	610	610	610	610	610	
5°	786	731	615	524	490	81
15°	1165	898	495	299	250	329
25°	1150	796	326	157	125	519
35°	699	465	163	73	58	425
45°	167	133	51	26	18	146
55°	50	38	19	6	6	47
65°	28	17	4	1	1	28
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°	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0
2.5°	680.7	680.7	681.7	678.7	677.7	675.8	674.8	670.9	668.9	666.9	662.0
5°	785.8	784.8	782.8	779.9	772.0	767.1	760.2	750.4	741.6	730.8	718.0
7.5°	892.9	890.9	887.9	880.1	869.3	857.5	842.8	827.0	808.4	787.8	769.1
10°	997.9	995.0	988.1	978.3	961.6	942.9	920.4	894.8	868.3	838.8	808.4
11°	1038.2	1035.3	1026.4	1015.6	997.0	974.4	948.8	920.4	888.9	856.5	822.1
12°	1074.6	1071.6	1061.8	1048.0	1028.4	1003.8	974.4	942.0	908.6	871.2	833.9
13°	1108.9	1107.0	1095.2	1078.5	1057.9	1031.3	998.9	963.6	924.3	884.0	840.8
14°	1139.4	1137.4	1126.6	1107.0	1083.4	1052.0	1018.6	978.3	936.1	892.9	845.7
15°	1164.9	1163.0	1150.2	1129.6	1104.0	1070.6	1033.3	990.1	945.9	897.8	849.6
16°	1186.5	1183.6	1169.8	1149.2	1119.7	1085.4	1045.1	998.9	950.8	898.7	847.7
17°	1204.2	1200.3	1186.5	1163.9	1133.5	1097.2	1054.9	1004.8	956.7	901.7	844.7
18°	1219.0	1215.0	1199.3	1176.7	1143.3	1104.0	1059.8	1007.8	954.7	898.7	841.8
19°	1225.8	1219.9	1205.2	1180.6	1147.2	1106.0	1059.8	1005.8	950.8	892.9	833.9
20°	1228.8	1222.9	1207.2	1181.6	1146.3	1104.0	1055.9	1001.9	944.9	885.0	824.1
21°	1222.9	1218.0	1202.3	1174.8	1140.4	1096.2	1047.1	991.1	932.1	872.2	811.3
22°	1213.1	1207.2	1190.5	1163.9	1127.6	1085.4	1034.3	977.3	920.4	856.5	796.6
23°	1196.4	1192.4	1173.8	1147.2	1111.9	1068.7	1016.6	960.6	901.7	839.8	778.9
24°	1177.7	1171.8	1154.1	1126.6	1092.2	1047.1	996.0	940.0	880.1	820.2	760.2
25°	1150.2	1145.3	1128.6	1101.1	1065.7	1020.5	970.4	914.5	856.5	795.6	735.7
26°	1120.7	1114.8	1098.1	1069.7	1035.3	993.0	942.9	887.9	831.0	771.1	712.1
27°	1084.4	1078.5	1061.8	1037.2	1002.9	959.6	910.5	858.5	801.5	743.6	686.6
28°	1044.1	1039.2	1023.5	997.9	963.6	921.3	876.2	827.0	771.1	714.1	658.1
29°	998.9	994.0	979.3	952.8	921.3	882.0	835.9	787.8	735.7	679.7	626.7
30°	952.8	947.9	937.1	909.5	880.1	842.8	800.5	750.4	702.3	649.3	597.2
32.5°	836.9	832.0	820.2	798.6	769.1	734.7	697.4	653.2	610.0	562.8	515.7
35°	699.4	695.4	682.7	664.0	641.4	610.0	575.6	540.2	502.9	464.6	426.3
37.5°	541.2	539.2	528.4	512.7	494.1	470.5	445.0	417.4	389.9	362.4	334.0
40°	388.0	387.0	382.1	373.2	357.5	343.8	325.1	309.4	289.8	270.1	250.5
42.5°	259.3	258.3	256.4	249.5	242.6	235.7	225.9	214.1	204.3	192.5	179.7
45°	167.0	166.0	164.0	162.1	159.1	155.2	150.3	145.4	140.5	132.6	125.7
47.5°	112.0	111.0	110.0	108.0	107.1	104.1	100.2	98.2	95.3	91.3	87.4
50°	78.6	79.6	78.6	77.6	75.6	74.6	71.7	69.7	67.8	64.8	61.9
52.5°	61.9	62.9	60.9	60.9	58.0	56.0	55.0	53.0	51.1	50.1	45.2
55°	50.1	50.1	49.1	48.1	47.1	46.2	44.2	42.2	40.3	38.3	36.3
57.5°	41.3	41.3	40.3	39.3	40.3	38.3	35.4	34.4	34.4	29.5	29.5
60°	35.4	36.3	35.4	35.4	33.4	32.4	31.4	29.5	27.5	25.5	23.6
62.5°	32.4	32.4	31.4	31.4	31.4	31.4	26.5	26.5	23.6	21.6	19.6
65°	28.5	27.5	26.5	26.5	24.6	23.6	21.6	20.6	19.6	16.7	14.7
67.5°	24.6	24.6	24.6	23.6	21.6	21.6	19.6	16.7	15.7	14.7	13.8
70°	23.6	23.6	21.6	21.6	19.6	17.7	17.7	15.7	13.8	13.8	10.8
72.5°	17.7	17.7	16.7	15.7	15.7	13.8	11.8	10.8	10.8	8.8	7.9
75°	13.8	13.8	13.8	13.8	10.8	10.8	9.8	9.8	7.9	8.8	4.9
77.5°	9.8	9.8	9.8	8.8	7.9	7.9	6.9	5.9	5.9	4.9	4.9
80°	5.9	5.9	6.9	4.9	5.9	6.9	4.9	4.9	4.9	2.9	3.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
82.5°	2.9	3.9	2.9	3.9	2.9	2.9	2.9	2.9	2.0	2.0	1.0
85°	2.0	2.9	2.9	2.9	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°	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0	610.0
2.5°	657.1	654.2	650.2	644.3	640.4	635.5	629.6	625.7	606.0	586.4	577.6
5°	706.2	693.5	681.7	667.9	654.2	642.4	629.6	614.9	562.8	523.5	497.0
7.5°	747.5	724.9	702.3	679.7	659.1	637.5	614.9	595.2	514.7	459.7	427.3
10°	777.9	745.5	713.1	682.7	652.2	623.7	595.2	567.7	466.6	399.8	363.4
11°	787.8	751.4	715.1	680.7	648.3	614.9	583.4	555.0	447.9	379.1	341.8
12°	793.6	754.4	714.1	676.8	640.4	608.0	572.6	542.2	430.2	357.5	318.2
13°	797.6	754.4	712.1	670.9	632.6	595.2	560.9	526.5	410.6	336.9	298.6
14°	800.5	754.4	709.2	666.0	623.7	583.4	547.1	512.7	390.9	318.2	279.9
15°	798.6	749.4	701.3	655.1	610.9	570.7	530.4	495.0	372.3	298.6	261.3
16°	796.6	744.5	693.5	643.4	598.2	555.0	514.7	478.3	351.6	278.0	242.6
17°	789.7	735.7	682.7	632.6	584.4	539.2	498.0	461.6	334.0	262.3	226.9
18°	784.8	727.8	672.8	620.8	571.7	526.5	484.2	446.9	319.2	249.5	213.1
19°	775.0	716.0	662.0	607.0	556.9	509.8	468.5	428.3	301.5	232.8	201.4
20°	764.2	705.2	647.3	593.3	542.2	494.1	452.8	413.5	285.8	219.0	186.6
21°	749.4	688.5	631.6	576.6	525.5	477.4	434.1	394.9	271.1	205.3	174.8
22°	732.7	672.8	614.9	559.9	506.8	460.7	415.5	377.2	255.4	191.5	162.1
23°	716.0	654.2	596.2	541.2	490.1	443.0	398.8	361.5	240.6	180.7	152.2
24°	698.4	635.5	577.6	522.5	471.5	424.3	383.1	342.8	226.9	168.0	141.4
25°	674.8	613.9	555.9	501.9	451.8	404.7	363.4	326.1	212.2	157.2	131.6
26°	652.2	593.3	535.3	483.3	433.2	387.0	346.7	310.4	199.4	147.3	123.8
27°	627.6	568.7	513.7	462.6	413.5	369.3	329.0	292.7	185.6	136.5	114.9
28°	600.1	544.2	491.1	442.0	392.9	349.7	311.4	276.0	173.9	127.7	106.1
29°	570.7	517.6	464.6	417.4	370.3	328.1	291.7	256.4	159.1	115.9	96.3
30°	544.2	493.1	443.0	393.9	349.7	308.4	271.1	240.6	147.3	107.1	90.4
32.5°	469.5	423.3	377.2	335.9	296.6	259.3	227.9	200.4	121.8	89.4	76.6
35°	388.0	349.7	310.4	275.0	242.6	214.1	186.6	163.1	100.2	72.7	61.9
37.5°	303.5	274.0	245.6	218.1	191.5	167.0	145.4	126.7	76.6	57.0	50.1
40°	228.9	208.2	187.6	166.0	145.4	126.7	111.0	94.3	58.9	45.2	40.3
42.5°	166.0	151.3	136.5	121.8	106.1	92.3	79.6	69.7	45.2	34.4	28.5
45°	116.9	108.0	97.2	86.4	74.6	64.8	58.0	51.1	35.4	25.5	19.6
47.5°	82.5	77.6	69.7	60.9	53.0	48.1	42.2	38.3	28.5	19.6	13.8
50°	58.9	54.0	50.1	43.2	40.3	36.3	33.4	29.5	20.6	14.7	10.8
52.5°	44.2	40.3	38.3	32.4	30.4	28.5	25.5	23.6	14.7	9.8	6.9
55°	33.4	31.4	28.5	25.5	23.6	21.6	19.6	18.7	10.8	5.9	4.9
57.5°	26.5	23.6	22.6	19.6	17.7	15.7	16.7	13.8	9.8	3.9	2.9
60°	22.6	20.6	16.7	15.7	13.8	12.8	11.8	10.8	5.9	3.9	2.9
62.5°	17.7	16.7	13.8	12.8	11.8	9.8	9.8	8.8	3.9	2.9	2.9
65°	12.8	11.8	9.8	8.8	8.8	6.9	5.9	3.9	2.0	1.0	0.0
67.5°	11.8	8.8	9.8	7.9	5.9	4.9	3.9	4.9	2.0	2.0	2.0
70°	9.8	8.8	7.9	7.9	4.9	4.9	3.9	2.9	2.0	2.0	2.0
72.5°	6.9	5.9	4.9	2.9	2.9	2.0	2.9	1.0	1.0	1.0	1.0
75°	4.9	3.9	4.9	3.9	2.9	2.0	4.9	1.0	1.0	1.0	1.0
77.5°	3.9	2.9	2.0	2.0	1.0	2.0	1.0	1.0	1.0	0.0	1.0
80°	5.9	3.9	2.0	1.0	1.0	2.9	3.9	0.0	3.9	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	2.9	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°	610.0
2.5°	572.6
5°	490.1
7.5°	415.5
10°	350.7
11°	328.1
12°	306.5
13°	285.8
14°	269.1
15°	249.5
16°	231.8
17°	216.1
18°	203.3
19°	191.5
20°	178.8
21°	165.0
22°	153.2
23°	143.4
24°	134.6
25°	124.7
26°	116.9
27°	109.0
28°	101.2
29°	91.3
30°	84.5
32.5°	70.7
35°	58.0
37.5°	47.1
40°	36.3
42.5°	26.5
45°	17.7
47.5°	15.7
50°	9.8
52.5°	8.8
55°	5.9
57.5°	2.0
60°	2.9
62.5°	2.0
65°	1.0
67.5°	1.0
70°	5.9
72.5°	1.0
75°	1.0
77.5°	0.0
80°	1.0



TEST NUMBER: P106556

CATALOG NUMBER: P3LED09NFL25840-E3LWWH

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)