

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: FAIL-SAFE

Report Number: P226080

Luminaire Tested: **FW-LD2-126-1250-50-PC-R4-LGW**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P226080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-064-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FW-LD2-126-1250-50-PC-R4-LGW
Description: NIGHT CONDOR LED FLOODLIGHT
Light Source: (56) 5000 CCT, 80 CRI LEDS
 EL089N028E850M
Ballast/Driver: OSRAM
 OT25WPRG1250C

Summary

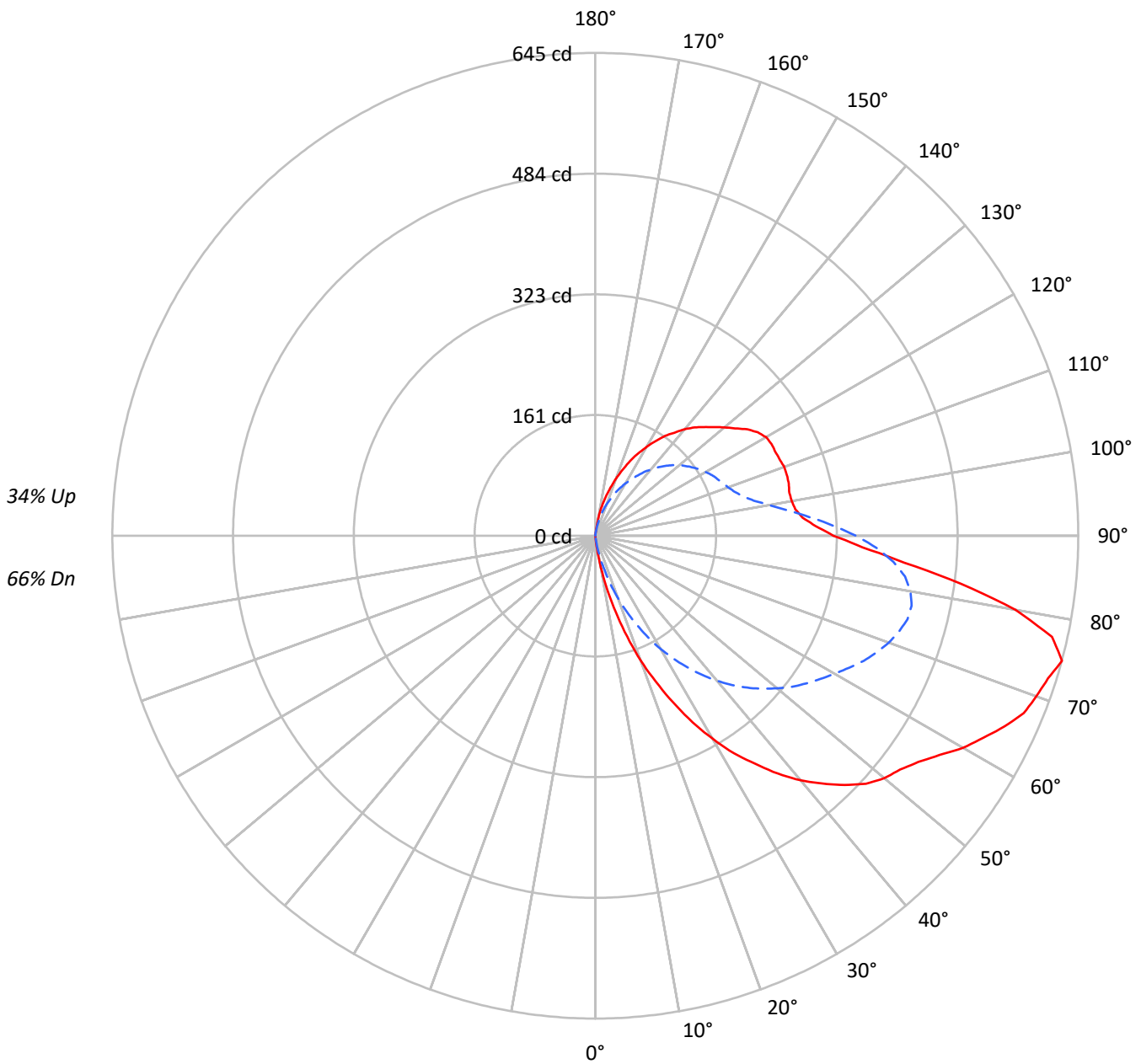
Lumens per Lamp: N/A
Luminaire Lumens: 1314.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0.5 '
CIE Type: Semi-Direct

Input Watts (W): 17.5
Input Voltage (V): NR
Input Current (Ain): 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



— 0°-180° - - 45°-225° - - - 90°-270°



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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	0
RCR																				
0	111	111	111	111	105	105	105	105	92	92	92		81	81	81		71	71	71	66
1	94	87	80	74	88	81	75	70	70	66	61		61	57	53		52	49	46	41
2	83	71	62	54	77	66	58	51	57	50	45		49	43	38		41	37	33	28
3	74	60	50	41	68	56	46	39	48	40	34		40	34	29		34	29	24	20
4	66	52	41	33	61	48	38	31	41	33	27		34	28	23		28	23	19	15
5	60	45	34	27	55	42	32	25	36	28	22		30	23	18		25	19	15	12
6	55	40	29	22	50	37	27	21	31	24	18		26	20	15		22	16	12	9
7	50	35	25	19	46	33	24	17	28	20	15		24	17	12		20	14	10	7
8	46	32	22	16	43	29	21	15	25	18	13		21	15	11		18	12	9	6
9	43	28	20	14	40	27	18	13	23	16	11		19	13	9		16	11	7	5
10	40	26	17	12	37	24	16	11	21	14	9		18	12	8		15	10	6	4

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminous shape not found,		
5°	reference photometric report, or contact		
10°	the photometric lab for calculations.		
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.3	0.0
10°-20°	7.7	0.6
20°-30°	29.4	2.2
30°-40°	62.3	4.7
40°-50°	99.7	7.6
50°-60°	135.9	10.3
60°-70°	172.3	13.1
70°-80°	196.8	15.0
80°-90°	167.4	12.7
90°-100°	116.5	8.9
100°-110°	91.0	6.9
110°-120°	78.7	6.0
120°-130°	63.7	4.8
130°-140°	45.5	3.5
140°-150°	28.4	2.2
150°-160°	13.9	1.1
160°-170°	4.1	0.3
170°-180°	0.2	0.0
0°-30°	37.5	2.9
0°-40°	99.8	7.6
0°-60°	335.5	25.5
0°-90°	871.9	66.4
90°-120°	286.2	21.8
90°-150°	423.8	32.3
90°-180°	442.0	33.6
0°-180°	1314.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	3	1	0	0	0	2
15°	105	48	0	0	0	33
25°	246	131	0	0	0	116
35°	372	215	0	0	0	235
45°	471	287	0	0	0	364
55°	526	344	0	0	0	476
65°	603	395	0	0	0	597
75°	645	432	0	0	0	662
85°	414	400	0	0	0	373
90°	318	348	0	0	0	176
95°	278	287	0	0	0	225
105°	267	203	0	0	0	283
115°	265	180	0	0	0	264
125°	248	159	0	0	0	221
135°	205	132	0	0	0	160
145°	163	98	0	0	0	102
155°	110	63	0	0	0	52
165°	54	29	0	0	0	16
175°	1	1	0	0	0	1
180°	0	0	0	0	0	



TEST NUMBER: P226080

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
5°	3.1	4.1	3.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	0.0
7.5°	17.6	17.6	16.5	12.4	8.3	4.1	2.1	1.0	1.0	1.0	0.0
10°	43.4	42.3	40.3	33.0	24.8	14.5	6.2	2.1	1.0	1.0	0.0
12.5°	74.3	72.3	67.1	58.8	45.4	29.9	15.5	4.1	1.0	1.0	0.0
15°	105.3	106.3	98.1	85.7	68.1	47.5	27.9	9.3	1.0	1.0	0.0
17.5°	141.4	140.4	132.1	115.6	93.9	68.1	41.3	17.6	2.1	1.0	0.0
20°	177.6	176.5	166.2	145.6	119.8	88.8	55.7	24.8	4.1	1.0	0.0
22.5°	210.6	210.6	198.2	176.5	145.6	110.5	71.2	34.1	7.2	1.0	0.0
25°	245.7	245.7	230.2	205.4	171.4	131.1	87.8	43.4	10.3	1.0	0.0
27.5°	280.8	277.7	261.2	233.3	197.2	153.8	104.3	53.7	13.4	1.0	0.0
30°	312.8	310.7	292.2	261.2	222.0	174.5	119.8	64.0	17.6	1.0	0.0
32.5°	344.8	341.7	322.1	289.1	245.7	195.1	135.2	74.3	21.7	1.0	0.0
35°	371.7	370.6	351.0	314.9	269.5	214.7	150.7	82.6	25.8	1.0	0.0
37.5°	400.6	397.5	375.8	338.6	292.2	234.4	165.2	90.9	29.9	1.0	0.0
40°	426.4	423.3	400.6	363.4	314.9	252.9	177.6	100.1	33.0	1.0	0.0
42.5°	449.1	446.0	423.3	384.0	335.5	270.5	190.0	107.4	37.2	1.0	0.0
45°	470.8	467.7	443.9	405.7	355.1	287.0	202.3	114.6	40.3	1.0	0.0
47.5°	490.4	486.3	463.5	424.3	373.7	302.5	213.7	121.8	43.4	1.0	0.0
50°	503.8	500.7	481.1	442.9	390.2	316.9	225.1	129.0	47.5	2.1	0.0
52.5°	513.1	511.0	495.5	460.4	406.8	331.4	235.4	135.2	50.6	2.1	0.0
55°	526.5	525.5	509.0	477.0	422.2	343.8	244.7	142.5	53.7	2.1	0.0
57.5°	545.1	543.0	525.5	493.5	437.7	356.2	254.0	148.7	56.8	3.1	0.0
60°	566.8	563.7	544.1	509.0	453.2	368.6	264.3	154.9	59.9	4.1	0.0
62.5°	584.3	581.2	563.7	526.5	469.7	382.0	273.6	161.1	63.0	4.1	0.0
65°	602.9	598.8	580.2	545.1	485.2	395.4	282.9	168.3	66.1	5.2	0.0
67.5°	619.4	616.3	598.8	562.7	500.7	406.8	292.2	173.4	69.2	5.2	0.0
70°	626.7	625.6	613.2	578.1	513.1	417.1	300.4	179.6	71.2	6.2	0.0
72.5°	633.9	632.9	622.5	588.5	523.4	425.3	307.7	183.8	73.3	7.2	0.0
75°	645.2	641.1	623.6	590.5	528.6	431.5	311.8	186.9	75.4	7.2	0.0
77.5°	624.6	625.6	611.2	583.3	526.5	432.6	314.9	188.9	76.4	7.2	0.0
80°	569.9	569.9	576.1	561.6	515.2	427.4	312.8	187.9	76.4	8.3	0.0
82.5°	492.4	492.4	518.3	526.5	494.5	417.1	306.6	184.8	75.4	8.3	0.0
85°	414.0	420.2	451.2	479.0	463.5	399.5	296.3	179.6	73.3	8.3	0.0
87.5°	357.2	358.2	387.1	426.4	427.4	375.8	281.8	172.4	71.2	8.3	0.0
90°	318.0	319.0	341.7	375.8	388.2	347.9	264.3	163.1	68.1	8.3	0.0
92.5°	294.2	294.2	307.7	332.4	345.9	316.9	243.6	152.8	64.0	8.3	0.0
95°	277.7	278.7	286.0	301.5	310.7	287.0	224.0	141.4	60.9	7.2	0.0
97.5°	269.5	270.5	273.6	280.8	280.8	259.1	204.4	130.1	56.8	7.2	0.0
100°	266.4	265.3	266.4	266.4	260.2	235.4	186.9	120.8	52.7	7.2	0.0
102.5°	265.3	265.3	263.3	257.1	244.7	216.8	171.4	111.5	49.6	6.2	0.0
105°	267.4	266.4	262.2	251.9	234.4	203.4	160.0	105.3	47.5	6.2	0.0
107.5°	268.4	267.4	261.2	247.8	227.1	195.1	151.8	100.1	45.4	6.2	0.0
110°	268.4	267.4	260.2	245.7	222.0	188.9	145.6	96.0	43.4	6.2	0.0



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CATALOG NUMBER: FW-LD2-126-1250-50-PC-R4-LGW

CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	266.4	265.3	258.1	243.6	218.9	183.8	141.4	92.9	42.3	5.2	0.0
115°	265.3	264.3	257.1	240.5	214.7	179.6	137.3	89.8	40.3	5.2	0.0
117.5°	265.3	264.3	255.0	236.4	210.6	175.5	133.2	86.7	38.2	5.2	0.0
120°	263.3	262.2	250.9	231.3	205.4	170.3	129.0	82.6	37.2	5.2	0.0
122.5°	257.1	255.0	243.6	224.0	198.2	165.2	123.9	79.5	35.1	5.2	0.0
125°	247.8	245.7	234.4	216.8	191.0	159.0	119.8	75.4	34.1	4.1	0.0
127.5°	235.4	234.4	224.0	207.5	184.8	152.8	114.6	72.3	32.0	4.1	0.0
130°	225.1	223.0	214.7	197.2	175.5	146.6	109.4	68.1	29.9	4.1	0.0
132.5°	214.7	212.7	204.4	188.9	167.2	139.4	103.2	64.0	27.9	4.1	0.0
135°	205.4	204.4	195.1	178.6	159.0	132.1	98.1	59.9	25.8	3.1	0.0
137.5°	196.2	195.1	184.8	169.3	149.7	123.9	91.9	55.7	24.8	3.1	0.0
140°	185.8	183.8	175.5	160.0	140.4	115.6	85.7	52.7	22.7	3.1	0.0
142.5°	173.4	173.4	164.1	148.7	130.1	107.4	79.5	48.5	20.6	2.1	0.0
145°	163.1	162.1	152.8	138.3	119.8	98.1	72.3	44.4	19.6	2.1	0.0
147.5°	149.7	148.7	141.4	127.0	110.5	89.8	66.1	40.3	17.6	2.1	0.0
150°	137.3	136.3	129.0	115.6	100.1	80.5	58.8	36.1	15.5	2.1	0.0
152.5°	123.9	122.9	116.7	104.3	89.8	72.3	51.6	32.0	13.4	1.0	0.0
155°	110.5	109.4	103.2	92.9	79.5	63.0	45.4	27.9	12.4	1.0	0.0
157.5°	95.0	95.0	89.8	80.5	68.1	53.7	39.2	23.7	10.3	1.0	0.0
160°	81.6	80.5	76.4	68.1	57.8	45.4	33.0	19.6	7.2	1.0	0.0
162.5°	67.1	67.1	64.0	56.8	47.5	37.2	26.8	14.5	5.2	1.0	0.0
165°	53.7	52.7	50.6	44.4	38.2	28.9	18.6	9.3	3.1	1.0	0.0
167.5°	40.3	40.3	38.2	34.1	27.9	18.6	11.4	6.2	2.1	1.0	0.0
170°	27.9	27.9	25.8	19.6	13.4	9.3	6.2	3.1	1.0	1.0	0.0
172.5°	10.3	10.3	9.3	6.2	5.2	4.1	3.1	1.0	1.0	1.0	0.0
175°	1.0	2.1	2.1	2.1	2.1	1.0	1.0	1.0	1.0	1.0	0.0
177.5°	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
180°	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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
102.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
107.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P226080

CATALOG NUMBER: FW-LD2-126-1250-50-PC-R4-LGW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
117.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)