

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: P226078

Luminaire Tested: **FW-LD2-126-1250-35-PC-R4-LGW**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P226078
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-LD2-126-1250-35-PC-R4-LGW
Description: NIGHT CONDOR LED FLOODLIGHT
Light Source: (56) 3500 CCT, 80 CRI LEDS
 EL089N028E835M
Ballast/Driver: OSRAM
 OT25WPRG1250C

Summary

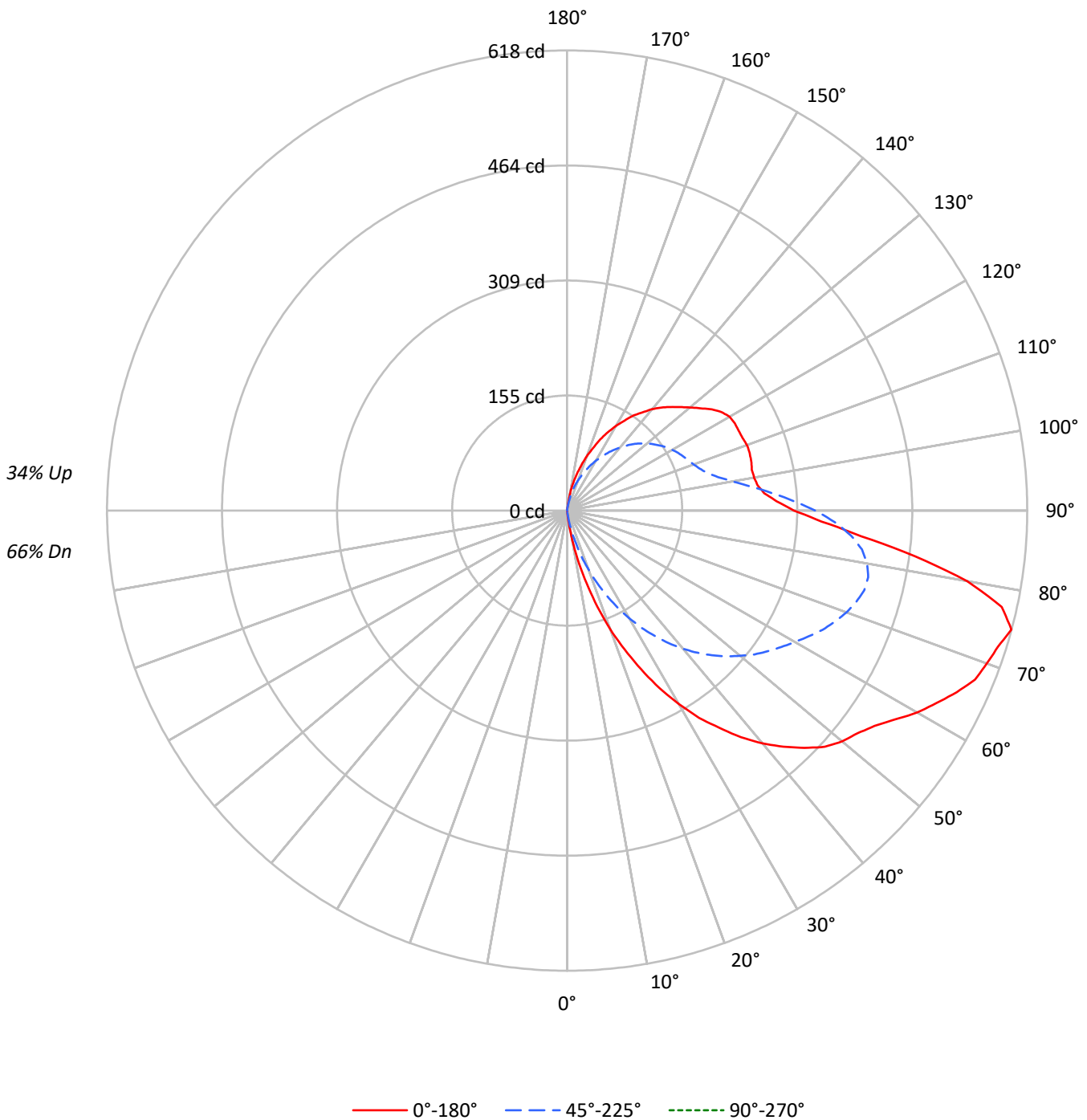
Lumens per Lamp: N/A
Luminaire Lumens: 1258.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: (L: 0 ' x W: 1 ' x H: 0.5 '
CIE Type: Semi-Direct

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





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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°	7.4	0.6
20°-30°	28.2	2.2
30°-40°	59.7	4.7
40°-50°	95.5	7.6
50°-60°	130.2	10.3
60°-70°	165.0	13.1
70°-80°	188.4	15.0
80°-90°	160.2	12.7
90°-100°	111.6	8.9
100°-110°	87.1	6.9
110°-120°	75.3	6.0
120°-130°	61.0	4.8
130°-140°	43.6	3.5
140°-150°	27.2	2.2
150°-160°	13.3	1.1
160°-170°	4.0	0.3
170°-180°	0.2	0.0
0°-30°	35.9	2.9
0°-40°	95.6	7.6
0°-60°	321.2	25.5
0°-90°	834.8	66.4
90°-120°	274.0	21.8
90°-150°	405.7	32.3
90°-180°	423.0	33.6
0°-180°	1258.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	0	0	0	0	0	
5°	3	1	0	0	0	2
15°	101	46	0	0	0	31
25°	235	126	0	0	0	111
35°	356	206	0	0	0	225
45°	451	275	0	0	0	348
55°	504	329	0	0	0	456
65°	577	379	0	0	0	571
75°	618	413	0	0	0	633
85°	396	382	0	0	0	357
90°	304	333	0	0	0	169
95°	266	275	0	0	0	216
105°	256	195	0	0	0	271
115°	254	172	0	0	0	253
125°	237	152	0	0	0	212
135°	197	126	0	0	0	153
145°	156	94	0	0	0	98
155°	106	60	0	0	0	49
165°	51	28	0	0	0	15
175°	1	1	0	0	0	1
180°	0	0	0	0	0	



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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°	3.0	4.0	3.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	0.0
7.5°	16.8	16.8	15.8	11.9	7.9	4.0	2.0	1.0	1.0	1.0	0.0
10°	41.5	40.5	38.5	31.6	23.7	13.8	5.9	2.0	1.0	1.0	0.0
12.5°	71.2	69.2	64.2	56.3	43.5	28.7	14.8	4.0	1.0	1.0	0.0
15°	100.8	101.8	93.9	82.0	65.2	45.5	26.7	8.9	1.0	1.0	0.0
17.5°	135.4	134.4	126.5	110.7	89.9	65.2	39.5	16.8	2.0	1.0	0.0
20°	170.0	169.0	159.1	139.4	114.7	85.0	53.4	23.7	4.0	1.0	0.0
22.5°	201.6	201.6	189.8	169.0	139.4	105.8	68.2	32.6	6.9	1.0	0.0
25°	235.2	235.2	220.4	196.7	164.1	125.5	84.0	41.5	9.9	1.0	0.0
27.5°	268.8	265.9	250.1	223.4	188.8	147.3	99.8	51.4	12.8	1.0	0.0
30°	299.5	297.5	279.7	250.1	212.5	167.0	114.7	61.3	16.8	1.0	0.0
32.5°	330.1	327.2	308.4	276.7	235.2	186.8	129.5	71.2	20.8	1.0	0.0
35°	355.8	354.8	336.1	301.5	258.0	205.6	144.3	79.1	24.7	1.0	0.0
37.5°	383.5	380.5	359.8	324.2	279.7	224.4	158.1	87.0	28.7	1.0	0.0
40°	408.2	405.2	383.5	347.9	301.5	242.2	170.0	95.9	31.6	1.0	0.0
42.5°	430.0	427.0	405.2	367.7	321.2	259.0	181.9	102.8	35.6	1.0	0.0
45°	450.7	447.7	425.0	388.4	340.0	274.8	193.7	109.7	38.5	1.0	0.0
47.5°	469.5	465.5	443.8	406.2	357.8	289.6	204.6	116.6	41.5	1.0	0.0
50°	482.3	479.4	460.6	424.0	373.6	303.4	215.5	123.5	45.5	2.0	0.0
52.5°	491.2	489.3	474.4	440.8	389.4	317.3	225.4	129.5	48.4	2.0	0.0
55°	504.1	503.1	487.3	456.6	404.3	329.1	234.2	136.4	51.4	2.0	0.0
57.5°	521.9	519.9	503.1	472.5	419.1	341.0	243.1	142.3	54.4	3.0	0.0
60°	542.6	539.7	520.9	487.3	433.9	352.9	253.0	148.3	57.3	4.0	0.0
62.5°	559.4	556.5	539.7	504.1	449.7	365.7	261.9	154.2	60.3	4.0	0.0
65°	577.2	573.3	555.5	521.9	464.5	378.6	270.8	161.1	63.3	4.9	0.0
67.5°	593.0	590.1	573.3	538.7	479.4	389.4	279.7	166.0	66.2	4.9	0.0
70°	600.0	599.0	587.1	553.5	491.2	399.3	287.6	172.0	68.2	5.9	0.0
72.5°	606.9	605.9	596.0	563.4	501.1	407.2	294.5	175.9	70.2	6.9	0.0
75°	617.7	613.8	597.0	565.4	506.1	413.1	298.5	178.9	72.2	6.9	0.0
77.5°	598.0	599.0	585.1	558.4	504.1	414.1	301.5	180.9	73.1	6.9	0.0
80°	545.6	545.6	551.5	537.7	493.2	409.2	299.5	179.9	73.1	7.9	0.0
82.5°	471.5	471.5	496.2	504.1	473.4	399.3	293.6	176.9	72.2	7.9	0.0
85°	396.3	402.3	431.9	458.6	443.8	382.5	283.7	172.0	70.2	7.9	0.0
87.5°	342.0	343.0	370.6	408.2	409.2	359.8	269.8	165.1	68.2	7.9	0.0
90°	304.4	305.4	327.2	359.8	371.6	333.1	253.0	156.2	65.2	7.9	0.0
92.5°	281.7	281.7	294.5	318.3	331.1	303.4	233.3	146.3	61.3	7.9	0.0
95°	265.9	266.9	273.8	288.6	297.5	274.8	214.5	135.4	58.3	6.9	0.0
97.5°	258.0	259.0	261.9	268.8	268.8	248.1	195.7	124.5	54.4	6.9	0.0
100°	255.0	254.0	255.0	255.0	249.1	225.4	178.9	115.6	50.4	6.9	0.0
102.5°	254.0	254.0	252.0	246.1	234.2	207.6	164.1	106.7	47.4	5.9	0.0
105°	256.0	255.0	251.1	241.2	224.4	194.7	153.2	100.8	45.5	5.9	0.0
107.5°	257.0	256.0	250.1	237.2	217.4	186.8	145.3	95.9	43.5	5.9	0.0
110°	257.0	256.0	249.1	235.2	212.5	180.9	139.4	91.9	41.5	5.9	0.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	255.0	254.0	247.1	233.3	209.5	175.9	135.4	89.0	40.5	4.9	0.0
115°	254.0	253.0	246.1	230.3	205.6	172.0	131.5	86.0	38.5	4.9	0.0
117.5°	254.0	253.0	244.1	226.3	201.6	168.0	127.5	83.0	36.6	4.9	0.0
120°	252.0	251.1	240.2	221.4	196.7	163.1	123.5	79.1	35.6	4.9	0.0
122.5°	246.1	244.1	233.3	214.5	189.8	158.1	118.6	76.1	33.6	4.9	0.0
125°	237.2	235.2	224.4	207.6	182.9	152.2	114.7	72.2	32.6	4.0	0.0
127.5°	225.4	224.4	214.5	198.7	176.9	146.3	109.7	69.2	30.6	4.0	0.0
130°	215.5	213.5	205.6	188.8	168.0	140.4	104.8	65.2	28.7	4.0	0.0
132.5°	205.6	203.6	195.7	180.9	160.1	133.4	98.8	61.3	26.7	4.0	0.0
135°	196.7	195.7	186.8	171.0	152.2	126.5	93.9	57.3	24.7	3.0	0.0
137.5°	187.8	186.8	176.9	162.1	143.3	118.6	88.0	53.4	23.7	3.0	0.0
140°	177.9	175.9	168.0	153.2	134.4	110.7	82.0	50.4	21.7	3.0	0.0
142.5°	166.0	166.0	157.2	142.3	124.5	102.8	76.1	46.5	19.8	2.0	0.0
145°	156.2	155.2	146.3	132.4	114.7	93.9	69.2	42.5	18.8	2.0	0.0
147.5°	143.3	142.3	135.4	121.6	105.8	86.0	63.3	38.5	16.8	2.0	0.0
150°	131.5	130.5	123.5	110.7	95.9	77.1	56.3	34.6	14.8	2.0	0.0
152.5°	118.6	117.6	111.7	99.8	86.0	69.2	49.4	30.6	12.8	1.0	0.0
155°	105.8	104.8	98.8	89.0	76.1	60.3	43.5	26.7	11.9	1.0	0.0
157.5°	90.9	90.9	86.0	77.1	65.2	51.4	37.6	22.7	9.9	1.0	0.0
160°	78.1	77.1	73.1	65.2	55.3	43.5	31.6	18.8	6.9	1.0	0.0
162.5°	64.2	64.2	61.3	54.4	45.5	35.6	25.7	13.8	4.9	1.0	0.0
165°	51.4	50.4	48.4	42.5	36.6	27.7	17.8	8.9	3.0	1.0	0.0
167.5°	38.5	38.5	36.6	32.6	26.7	17.8	10.9	5.9	2.0	1.0	0.0
170°	26.7	26.7	24.7	18.8	12.8	8.9	5.9	3.0	1.0	1.0	0.0
172.5°	9.9	9.9	8.9	5.9	4.9	4.0	3.0	1.0	1.0	1.0	0.0
175°	1.0	2.0	2.0	2.0	2.0	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: P226078

CATALOG NUMBER: FW-LD2-126-1250-35-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)