

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: SHAPER

Report Number: P701977

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701977  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

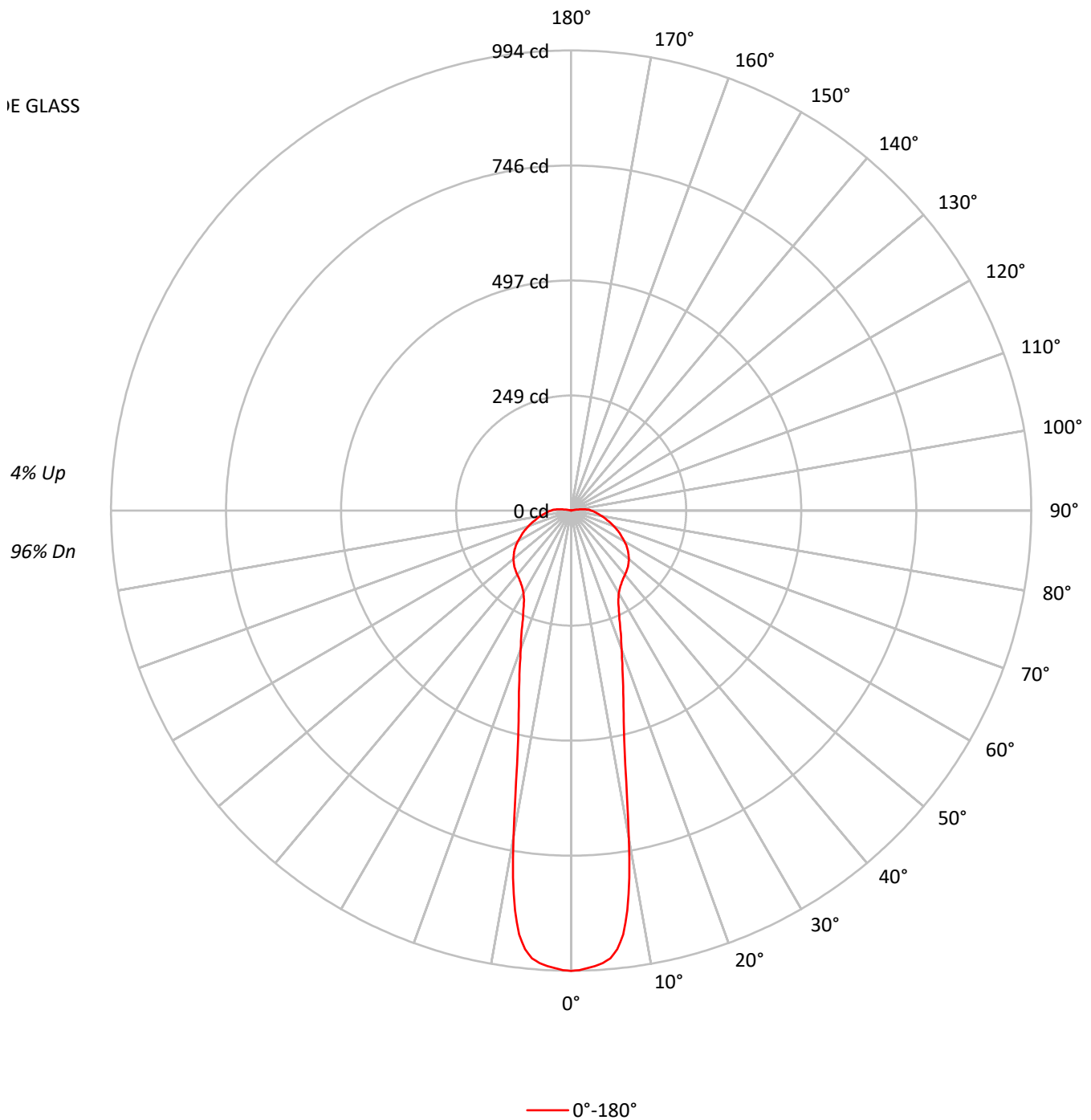
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1007.9 lumens  
Efficiency: N/A  
Efficacy: 46.2 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
Input Voltage (V): 120  
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: 24 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	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87		89	86	83		85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72		78	73	69		74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61		69	64	59		66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47		57	51	46		55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42		52	46	41		51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38		49	42	37		47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35		45	39	34		44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32		42	36	32		41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		39	33	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	115334
5°	98420
10°	65116
15°	36091
20°	24328
25°	17479
30°	13906
35°	12291
40°	11297
45°	10525
50°	9711
55°	8840
60°	7818
65°	6848
70°	5843
75°	4930
80°	4173
85°	3568

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10525 cd/sqm

TEST NUMBER: P701977

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.4	8.5
10°-20°	125.3	12.4
20°-30°	114.6	11.4
30°-40°	119.8	11.9
40°-50°	133.4	13.2
50°-60°	133.3	13.2
60°-70°	114.3	11.3
70°-80°	86.3	8.6
80°-90°	59.7	5.9
90°-100°	31.6	3.1
100°-110°	4.3	0.4
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°	325.3	32.3
0°-40°	445.0	44.2
0°-60°	711.7	70.6
0°-90°	971.9	96.4
90°-120°	36.0	3.6
90°-150°	36.0	3.6
90°-180°	36.0	3.6
0°-180°	1007.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	994	
5°	971	85
15°	437	125
25°	245	115
35°	190	120
45°	173	133
55°	150	133
65°	116	114
75°	81	86
85°	55	47
90°	43	24
95°	30	20
105°	3	4
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	994.4
1°	993.1
2°	989.2
3°	985.3
4°	980.0
5°	970.9
6°	952.7
7°	922.8
8°	872.0
9°	803.0
10°	718.4
11°	632.5
12°	561.0
13°	508.9
14°	468.5
15°	437.3
16°	408.7
17°	382.6
18°	359.2
19°	337.1
20°	318.9
21°	302.0
22°	286.3
23°	270.7
24°	256.4
25°	244.7
27.5°	220.0
30°	205.6
32.5°	196.5
35°	190.0
37.5°	184.8
40°	180.9
42.5°	177.0
45°	173.1
47.5°	167.9
50°	162.7
52.5°	156.2
55°	149.7
57.5°	141.9
60°	132.8
62.5°	123.6
65°	115.8
67.5°	106.7
70°	97.6
72.5°	89.8

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	80.7
77.5°	74.2
80°	66.4
82.5°	59.9
85°	54.7
87.5°	49.5
90°	43.0
92.5°	39.0
95°	29.9
97.5°	19.5
100°	11.7
102.5°	6.5
105°	2.6
107.5°	1.3
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)