

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: P701949

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701949  
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-15-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

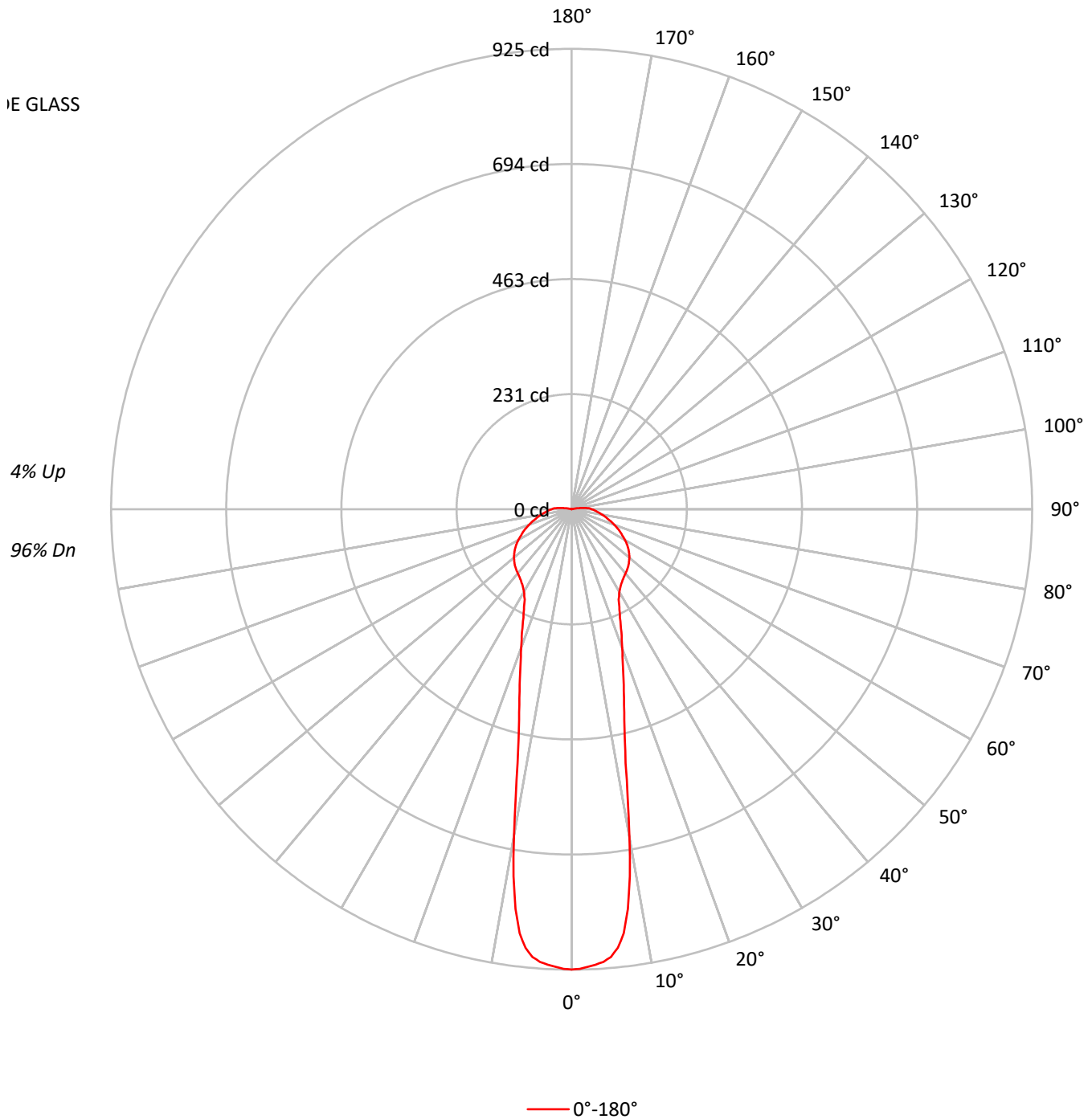
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 937.4 lumens  
Efficiency: N/A  
Efficacy: 59.3 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): 15.8  
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°	107261
5°	91537
10°	60566
15°	33566
20°	22627
25°	16257
30°	12938
35°	11431
40°	10510
45°	9789
50°	9030
55°	8220
60°	7270
65°	6369
70°	5436
75°	4582
80°	3878
85°	3313

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9789 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.5	8.5
10°-20°	116.5	12.4
20°-30°	106.6	11.4
30°-40°	111.4	11.9
40°-50°	124.0	13.2
50°-60°	124.0	13.2
60°-70°	106.3	11.3
70°-80°	80.2	8.6
80°-90°	55.4	5.9
90°-100°	29.4	3.1
100°-110°	4.0	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°	302.5	32.3
0°-40°	413.9	44.2
0°-60°	662.0	70.6
0°-90°	903.9	96.4
90°-120°	33.5	3.6
90°-150°	33.5	3.6
90°-180°	33.0	3.5
0°-180°	937.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	925	
5°	903	79
15°	407	117
25°	228	107
35°	177	111
45°	161	124
55°	139	124
65°	108	106
75°	75	80
85°	51	44
90°	40	22
95°	28	19
105°	2	4
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	924.8
1°	923.6
2°	920.0
3°	916.3
4°	911.5
5°	903.0
6°	886.1
7°	858.2
8°	811.0
9°	746.9
10°	668.2
11°	588.3
12°	521.7
13°	473.3
14°	435.8
15°	406.7
16°	380.1
17°	355.9
18°	334.1
19°	313.5
20°	296.6
21°	280.8
22°	266.3
23°	251.8
24°	238.5
25°	227.6
27.5°	204.6
30°	191.3
32.5°	182.8
35°	176.7
37.5°	171.9
40°	168.3
42.5°	164.6
45°	161.0
47.5°	156.2
50°	151.3
52.5°	145.3
55°	139.2
57.5°	131.9
60°	123.5
62.5°	115.0
65°	107.7
67.5°	99.3
70°	90.8
72.5°	83.5

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	75.0
77.5°	69.0
80°	61.7
82.5°	55.7
85°	50.8
87.5°	46.0
90°	39.9
92.5°	36.3
95°	27.8
97.5°	18.2
100°	10.9
102.5°	6.1
105°	2.4
107.5°	1.2
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)