

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: P701837

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701837  
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-08-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

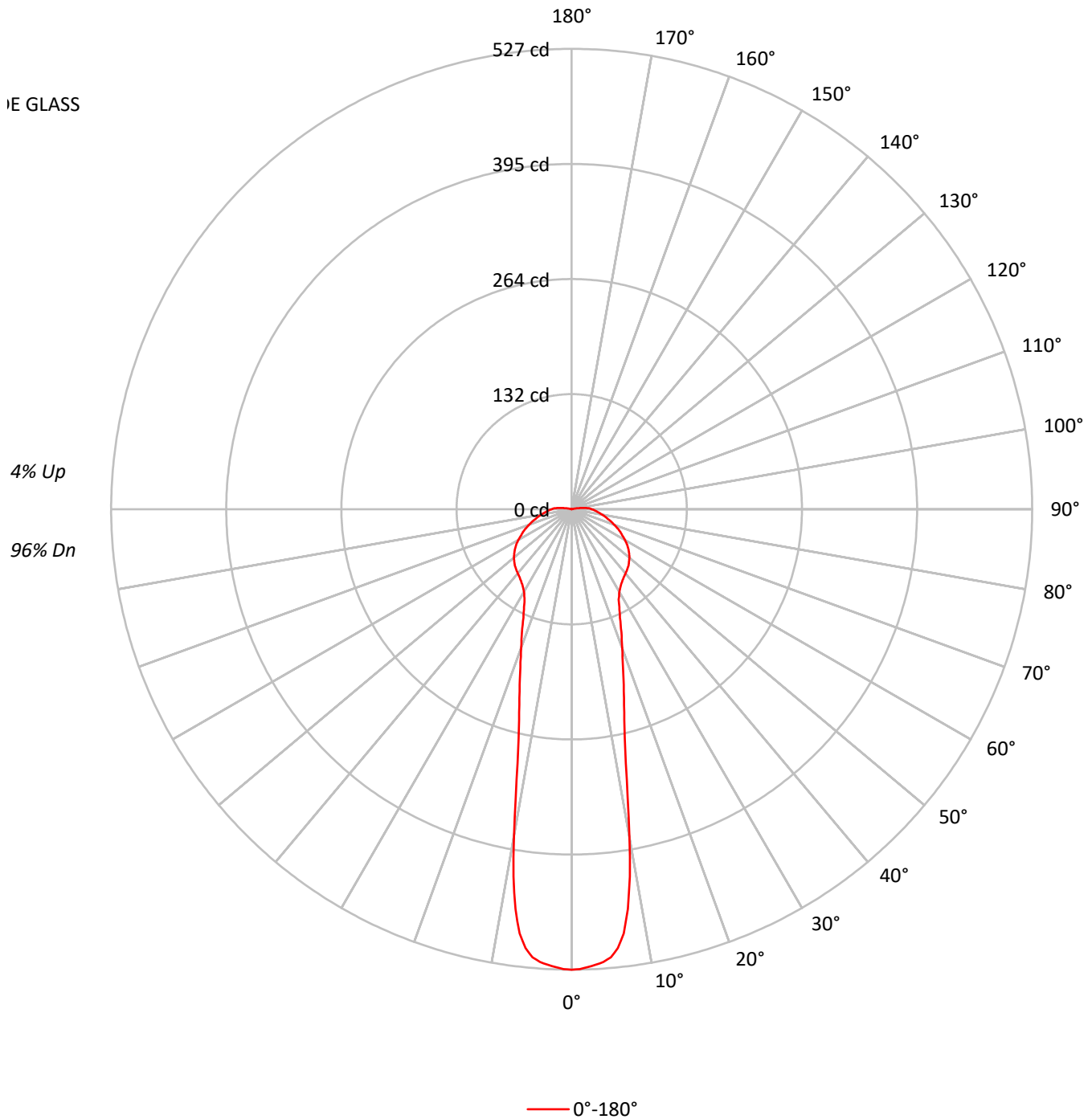
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 534.2 lumens  
Efficiency: N/A  
Efficacy: 54.0 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): 9.9  
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°	61135
5°	52175
10°	34516
15°	19131
20°	12893
25°	9264
30°	7372
35°	6514
40°	5989
45°	5582
50°	5145
55°	4683
60°	4144
65°	3631
70°	3095
75°	2615
80°	2212
85°	1891

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5582 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.3	8.5
10°-20°	66.4	12.4
20°-30°	60.7	11.4
30°-40°	63.5	11.9
40°-50°	70.7	13.2
50°-60°	70.7	13.2
60°-70°	60.6	11.3
70°-80°	45.7	8.6
80°-90°	31.6	5.9
90°-100°	16.8	3.1
100°-110°	2.3	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°	172.4	32.3
0°-40°	235.9	44.2
0°-60°	377.3	70.6
0°-90°	515.2	96.4
90°-120°	19.1	3.6
90°-150°	19.1	3.6
90°-180°	19.0	3.6
0°-180°	534.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	527	
5°	515	45
15°	232	66
25°	130	61
35°	101	64
45°	92	71
55°	79	71
65°	61	61
75°	43	46
85°	29	25
90°	23	13
95°	16	11
105°	1	2
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°	527.1
1°	526.4
2°	524.3
3°	522.2
4°	519.5
5°	514.7
6°	505.0
7°	489.1
8°	462.2
9°	425.7
10°	380.8
11°	335.3
12°	297.3
13°	269.7
14°	248.4
15°	231.8
16°	216.6
17°	202.8
18°	190.4
19°	178.7
20°	169.0
21°	160.1
22°	151.8
23°	143.5
24°	135.9
25°	129.7
27.5°	116.6
30°	109.0
32.5°	104.2
35°	100.7
37.5°	98.0
40°	95.9
42.5°	93.8
45°	91.8
47.5°	89.0
50°	86.2
52.5°	82.8
55°	79.3
57.5°	75.2
60°	70.4
62.5°	65.5
65°	61.4
67.5°	56.6
70°	51.7
72.5°	47.6

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	42.8
77.5°	39.3
80°	35.2
82.5°	31.7
85°	29.0
87.5°	26.2
90°	22.8
92.5°	20.7
95°	15.9
97.5°	10.3
100°	6.2
102.5°	3.4
105°	1.4
107.5°	0.7
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)