

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: P701857

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9730-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701857  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-08-D010 / 340-EU4C-1020-9730-4LBW1LI-GFC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C  
KIT.  
Light Source: 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

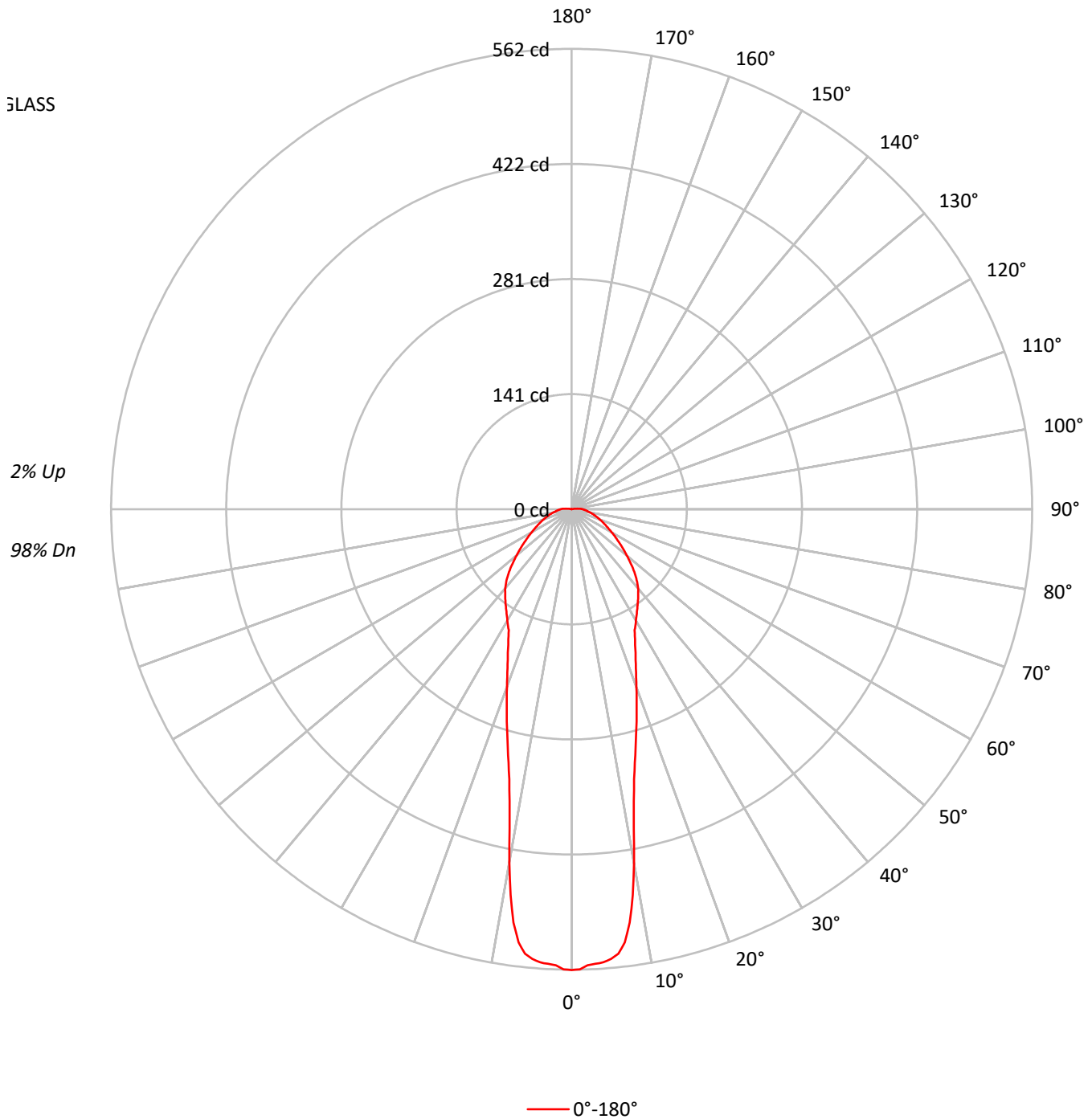
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 560.4 lumens  
Efficiency: N/A  
Efficacy: 56.6 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65  
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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92		93	91	89		89	87	86	83
2	100	93	87	81	98	91	85	80	87	82	78		84	80	76		80	77	74	72
3	93	83	76	70	90	82	75	69	78	73	68		75	71	66		73	69	65	63
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		66	62	58	56
5	80	69	60	54	78	67	60	54	65	58	53		63	57	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	48		57	51	47	45
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	54	46	41	65	53	46	41	52	45	40		50	44	40		49	44	40	38
9	62	50	43	38	61	50	42	38	48	42	37		47	41	37		46	41	37	35
10	59	47	40	35	58	47	40	35	45	39	35		44	39	35		44	38	34	33

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

	0°
0°	65241
5°	55855
10°	39655
15°	24892
20°	17623
25°	13050
30°	10612
35°	9096
40°	7893
45°	6567
50°	5228
55°	4175
60°	3320
65°	2691
70°	2197
75°	1784
80°	1408
85°	1154

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6567 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	8.8
10°-20°	85.3	15.2
20°-30°	85.4	15.2
30°-40°	88.1	15.7
40°-50°	82.9	14.8
50°-60°	63.6	11.3
60°-70°	45.3	8.1
70°-80°	30.9	5.5
80°-90°	19.4	3.5
90°-100°	9.2	1.6
100°-110°	0.8	0.1
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°	220.1	39.3
0°-40°	308.3	55.0
0°-60°	454.7	81.2
0°-90°	550.3	98.2
90°-120°	10.0	1.8
90°-150°	10.0	1.8
90°-180°	10.0	1.8
0°-180°	560.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	562	
5°	551	49
15°	302	85
25°	183	85
35°	141	88
45°	108	83
55°	71	64
65°	46	45
75°	29	31
85°	18	15
90°	14	7
95°	8	6
105°	0	1
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°	562.5
1°	561.8
2°	557.1
3°	555.7
4°	554.4
5°	551.0
6°	545.5
7°	532.6
8°	509.5
9°	476.9
10°	437.5
11°	397.4
12°	364.1
13°	338.3
14°	318.6
15°	301.6
16°	285.3
17°	271.1
18°	256.8
19°	243.2
20°	231.0
21°	219.4
22°	209.2
23°	199.7
24°	191.6
25°	182.7
27.5°	166.4
30°	156.9
32.5°	148.1
35°	140.6
37.5°	133.2
40°	126.4
42.5°	117.5
45°	108.0
47.5°	97.8
50°	87.6
52.5°	78.8
55°	70.7
57.5°	63.2
60°	56.4
62.5°	50.3
65°	45.5
67.5°	40.8
70°	36.7
72.5°	32.6

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	29.2
77.5°	25.8
80°	22.4
82.5°	19.7
85°	17.7
87.5°	15.6
90°	13.6
92.5°	11.5
95°	8.2
97.5°	5.4
100°	3.4
102.5°	1.4
105°	0.0
107.5°	0.0
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)