

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: P701780

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701780  
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-05-D010 / 340-EU4C-1020-9040-4LBW1LI-GFC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C  
KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

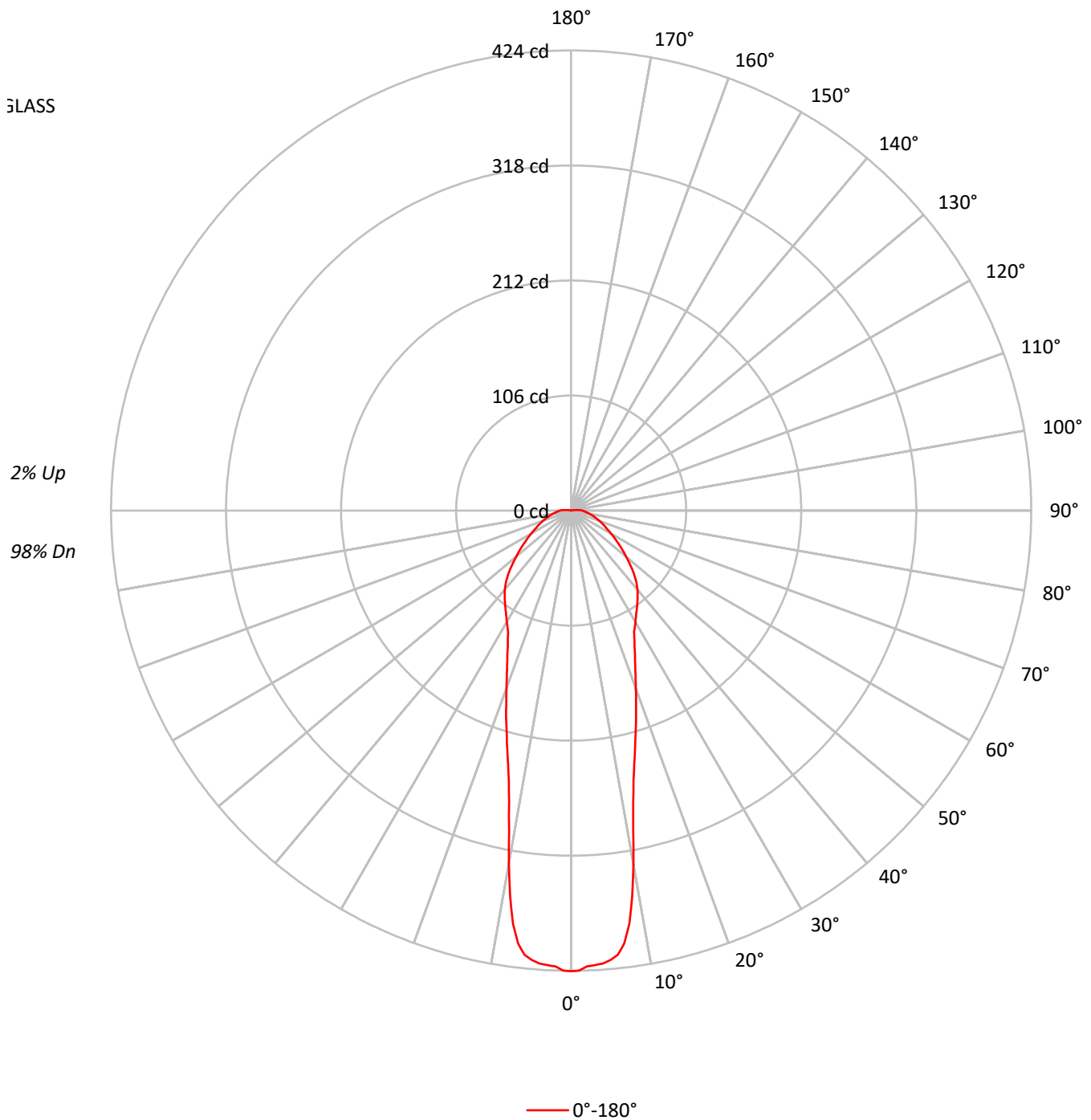
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 422.8 lumens  
Efficiency: N/A  
Efficacy: 58.7 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): 7.2  
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	43	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°	49223
5°	42140
10°	29920
15°	18784
20°	13297
25°	9850
30°	8008
35°	6864
40°	5951
45°	4955
50°	3945
55°	3147
60°	2502
65°	2028
70°	1658
75°	1344
80°	1062
85°	867

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4955 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.3	8.8
10°-20°	64.3	15.2
20°-30°	64.4	15.2
30°-40°	66.5	15.7
40°-50°	62.6	14.8
50°-60°	48.0	11.3
60°-70°	34.2	8.1
70°-80°	23.3	5.5
80°-90°	14.6	3.5
90°-100°	7.0	1.6
100°-110°	0.6	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°	166.1	39.3
0°-40°	232.6	55.0
0°-60°	343.1	81.2
0°-90°	415.3	98.2
90°-120°	7.6	1.8
90°-150°	7.6	1.8
90°-180°	8.0	1.9
0°-180°	422.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	424	
5°	416	37
15°	228	64
25°	138	64
35°	106	66
45°	82	63
55°	53	48
65°	34	34
75°	22	23
85°	13	12
90°	10	6
95°	6	4
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°	424.4
1°	423.9
2°	420.3
3°	419.3
4°	418.3
5°	415.7
6°	411.6
7°	401.9
8°	384.5
9°	359.9
10°	330.1
11°	299.9
12°	274.8
13°	255.3
14°	240.4
15°	227.6
16°	215.3
17°	204.5
18°	193.8
19°	183.5
20°	174.3
21°	165.6
22°	157.9
23°	150.7
24°	144.6
25°	137.9
27.5°	125.6
30°	118.4
32.5°	111.7
35°	106.1
37.5°	100.5
40°	95.3
42.5°	88.7
45°	81.5
47.5°	73.8
50°	66.1
52.5°	59.5
55°	53.3
57.5°	47.7
60°	42.5
62.5°	37.9
65°	34.3
67.5°	30.8
70°	27.7
72.5°	24.6

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	22.0
77.5°	19.5
80°	16.9
82.5°	14.9
85°	13.3
87.5°	11.8
90°	10.3
92.5°	8.7
95°	6.2
97.5°	4.1
100°	2.6
102.5°	1.0
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)