

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: P701843

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701843  
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-1020-9050-4LBW1LI-GFC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C  
KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

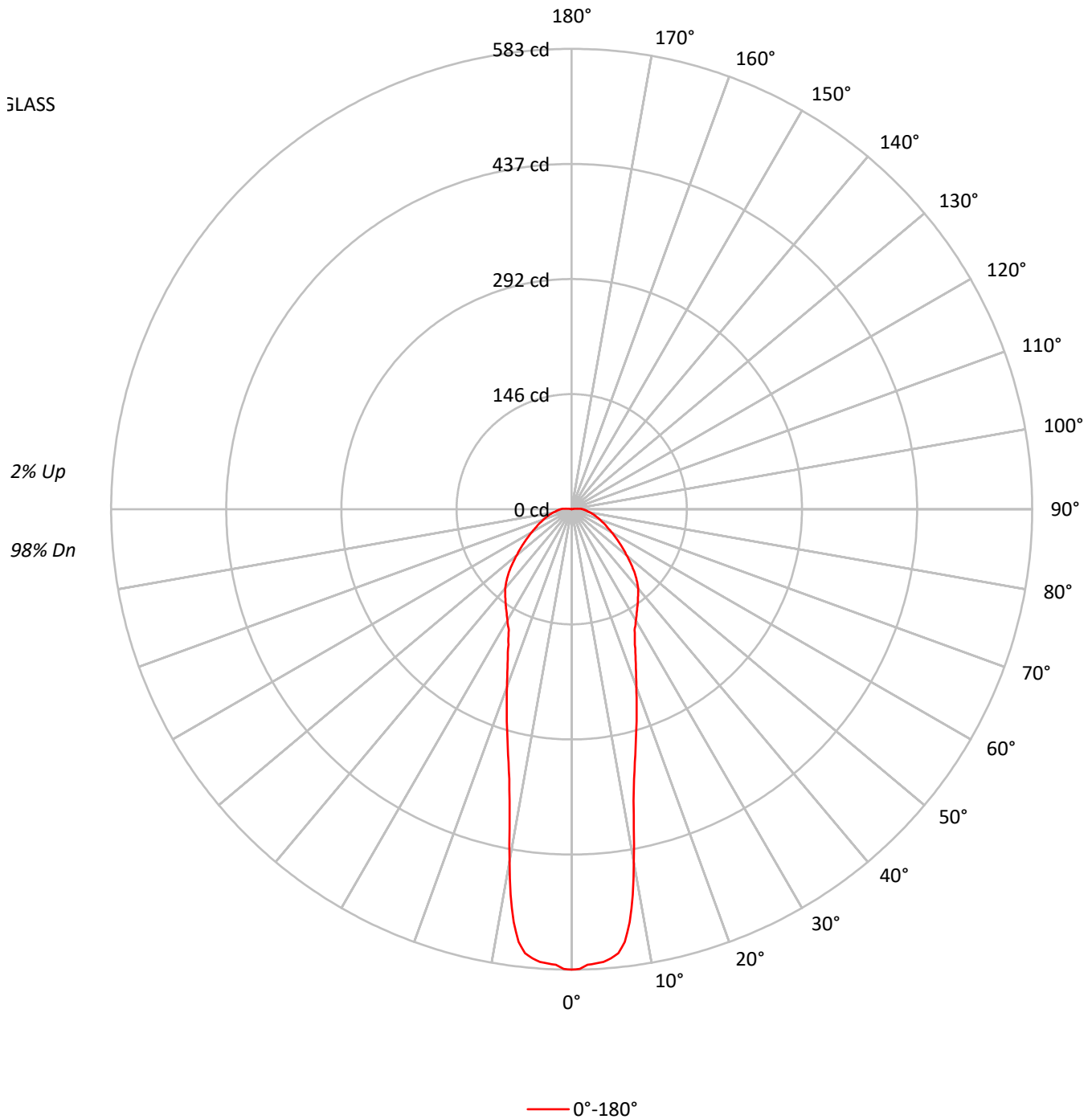
Lumens per Lamp: N/A  
Luminaire Lumens: 580.7 lumens  
Efficiency: N/A  
Efficacy: 58.7 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 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	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°	67607
5°	57872
10°	41096
15°	25800
20°	18263
25°	13529
30°	10997
35°	9425
40°	8174
45°	6804
50°	5419
55°	4322
60°	3438
65°	2791
70°	2275
75°	1851
80°	1458
85°	1194

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6804 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.3	8.8
10°-20°	88.4	15.2
20°-30°	88.5	15.2
30°-40°	91.3	15.7
40°-50°	85.9	14.8
50°-60°	65.9	11.3
60°-70°	46.9	8.1
70°-80°	32.1	5.5
80°-90°	20.1	3.5
90°-100°	9.5	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°	228.1	39.3
0°-40°	319.4	55.0
0°-60°	471.2	81.2
0°-90°	570.3	98.2
90°-120°	10.4	1.8
90°-150°	10.4	1.8
90°-180°	10.0	1.7
0°-180°	580.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	583	
5°	571	51
15°	313	88
25°	189	88
35°	146	91
45°	112	86
55°	73	66
65°	47	47
75°	30	32
85°	18	16
90°	14	8
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°	582.9
1°	582.2
2°	577.3
3°	575.9
4°	574.5
5°	570.9
6°	565.3
7°	551.9
8°	528.0
9°	494.2
10°	453.4
11°	411.8
12°	377.3
13°	350.6
14°	330.2
15°	312.6
16°	295.7
17°	280.9
18°	266.1
19°	252.0
20°	239.4
21°	227.4
22°	216.8
23°	207.0
24°	198.5
25°	189.4
27.5°	172.5
30°	162.6
32.5°	153.5
35°	145.7
37.5°	138.0
40°	130.9
42.5°	121.8
45°	111.9
47.5°	101.4
50°	90.8
52.5°	81.7
55°	73.2
57.5°	65.5
60°	58.4
62.5°	52.1
65°	47.2
67.5°	42.2
70°	38.0
72.5°	33.8

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	30.3
77.5°	26.8
80°	23.2
82.5°	20.4
85°	18.3
87.5°	16.2
90°	14.1
92.5°	12.0
95°	8.4
97.5°	5.6
100°	3.5
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)