

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: P701826

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701826  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

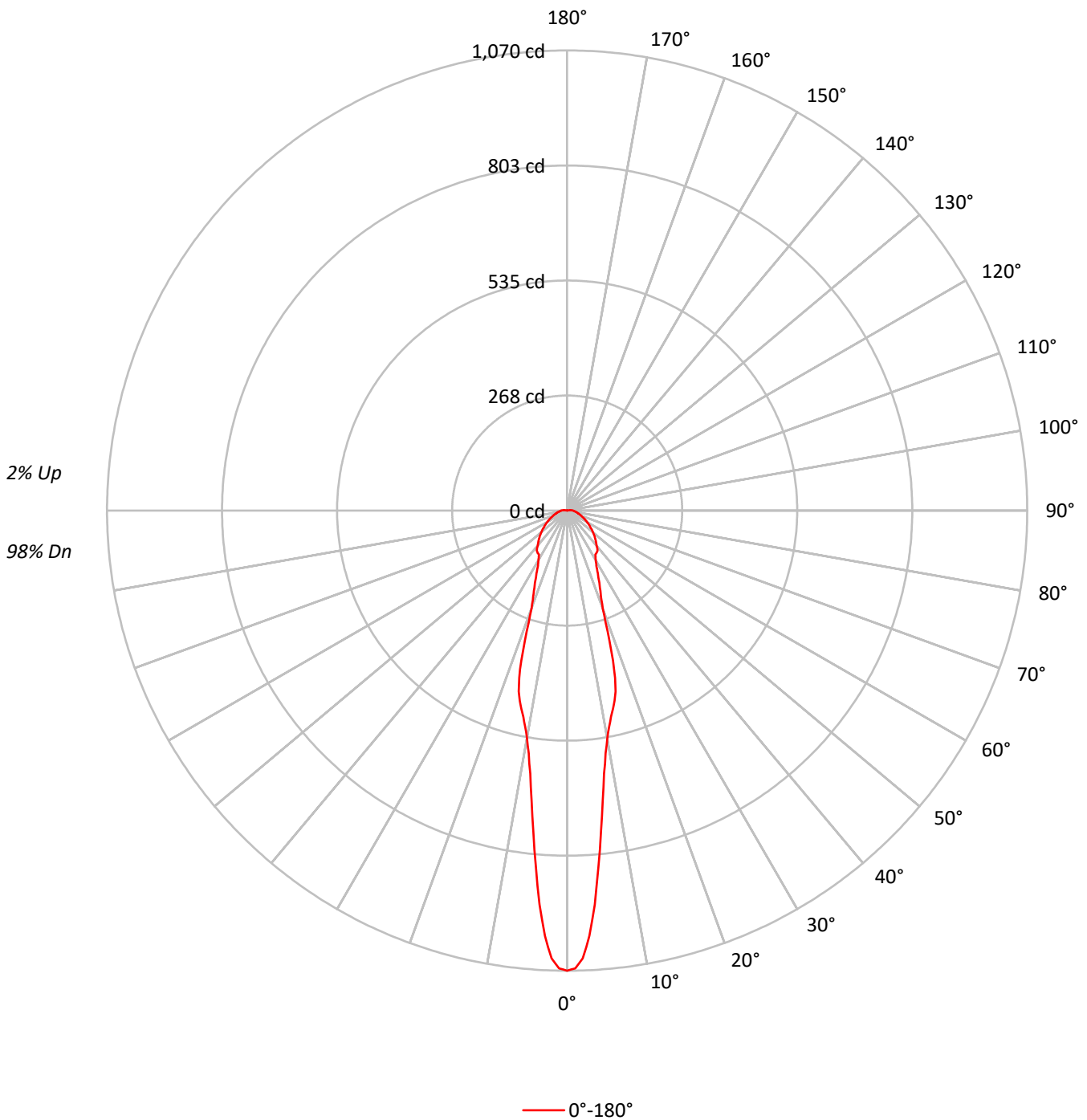
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 570.2 lumens  
Efficiency: N/A  
Efficacy: 57.6 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46  
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	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	99	92	87	82	88	84	80		85	81	78		81	78	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	78	70	64	86	76	69	64	74	68	63		71	66	62		69	64	61	59
5	82	71	64	58	80	70	63	58	68	62	57		66	60	56		64	59	55	53
6	77	66	58	53	76	65	58	53	63	57	52		61	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	45
8	69	58	50	45	68	57	50	45	55	49	45		54	49	44		53	48	44	42
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		50	45	41	40
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	37

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

	0°
0°	124102
5°	84451
10°	48683
15°	35918
20°	18492
25°	12293
30°	8989
35°	7750
40°	6663
45°	5612
50°	4685
55°	3862
60°	3161
65°	2567
70°	2059
75°	1680
80°	1383
85°	1122

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5612 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	12.1
10°-20°	112.3	19.7
20°-30°	80.3	14.1
30°-40°	74.8	13.1
40°-50°	71.2	12.5
50°-60°	58.6	10.3
60°-70°	43.1	7.6
70°-80°	29.4	5.2
80°-90°	18.9	3.3
90°-100°	10.4	1.8
100°-110°	1.9	0.3
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°	261.7	45.9
0°-40°	336.5	59.0
0°-60°	466.3	81.8
0°-90°	557.8	97.8
90°-120°	12.4	2.2
90°-150°	12.4	2.2
90°-180°	12.0	2.1
0°-180°	570.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1070	
5°	833	69
15°	435	112
25°	172	80
35°	120	75
45°	92	71
55°	65	59
65°	43	43
75°	28	29
85°	17	15
90°	14	8
95°	10	7
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°	1070.0
1°	1064.5
2°	1041.7
3°	990.1
4°	918.5
5°	833.1
6°	751.9
7°	678.9
8°	617.6
9°	571.5
10°	537.1
11°	511.6
12°	490.2
13°	473.0
14°	455.8
15°	435.2
16°	404.9
17°	364.9
18°	318.1
19°	274.7
20°	242.4
21°	222.4
22°	207.9
23°	195.5
24°	183.8
25°	172.1
27.5°	148.0
30°	132.9
32.5°	121.9
35°	119.8
37.5°	116.4
40°	106.7
42.5°	99.1
45°	92.3
47.5°	85.4
50°	78.5
52.5°	71.6
55°	65.4
57.5°	59.2
60°	53.7
62.5°	48.2
65°	43.4
67.5°	38.6
70°	34.4
72.5°	31.0

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	27.5
77.5°	24.8
80°	22.0
82.5°	19.3
85°	17.2
87.5°	15.1
90°	13.8
92.5°	12.4
95°	9.6
97.5°	6.9
100°	4.8
102.5°	2.8
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)