

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: P701770

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701770  
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-05-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

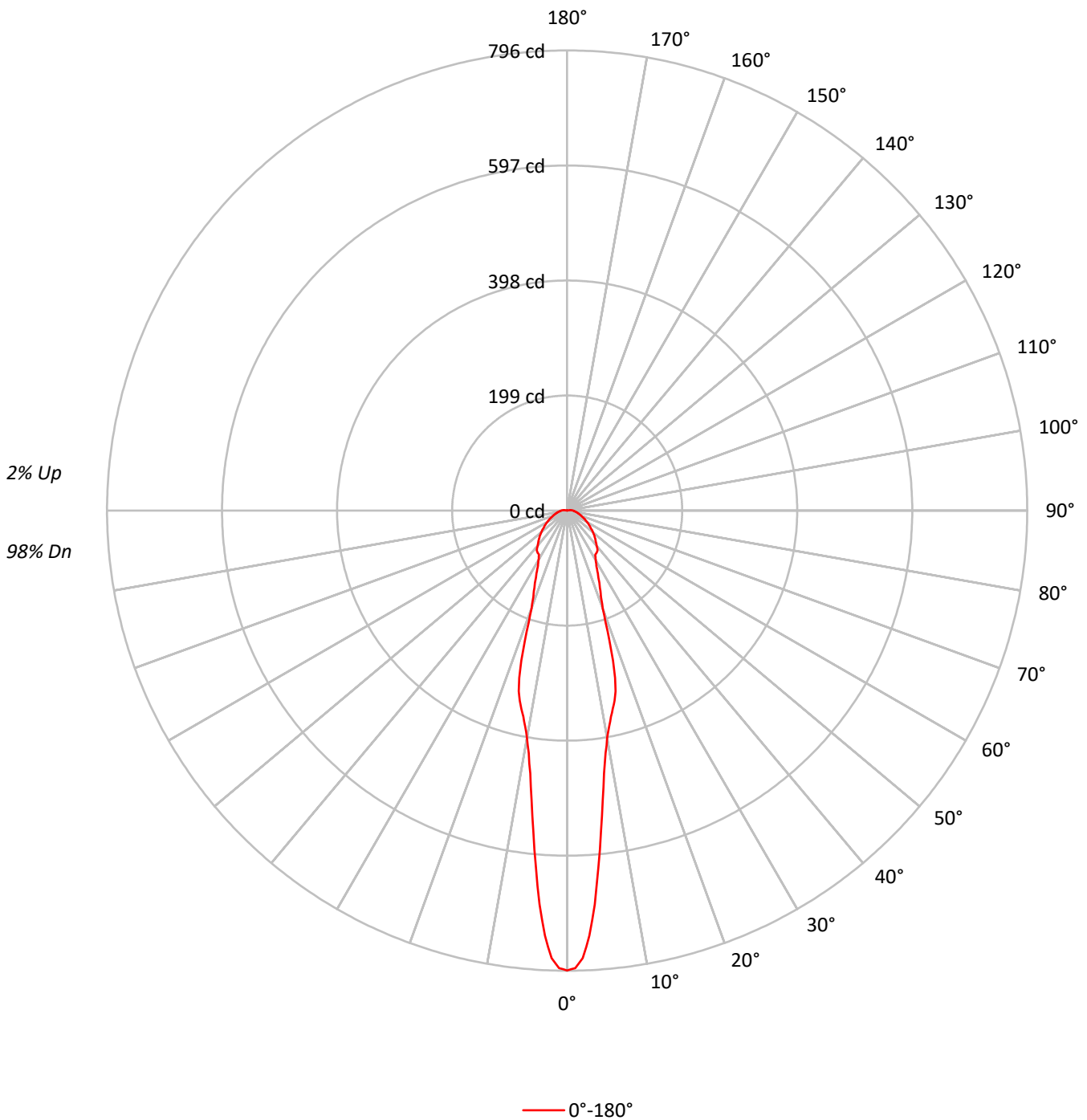
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 423.9 lumens  
Efficiency: N/A  
Efficacy: 58.9 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): 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	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°	92276
5°	62799
10°	36193
15°	26707
20°	13747
25°	9143
30°	6682
35°	5764
40°	4958
45°	4171
50°	3486
55°	2870
60°	2349
65°	1910
70°	1533
75°	1252
80°	1031
85°	835

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4171 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.3	12.1
10°-20°	83.5	19.7
20°-30°	59.8	14.1
30°-40°	55.6	13.1
40°-50°	53.0	12.5
50°-60°	43.6	10.3
60°-70°	32.1	7.6
70°-80°	21.9	5.2
80°-90°	14.1	3.3
90°-100°	7.8	1.8
100°-110°	1.4	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°	194.6	45.9
0°-40°	250.2	59.0
0°-60°	346.7	81.8
0°-90°	414.8	97.8
90°-120°	9.2	2.2
90°-150°	9.2	2.2
90°-180°	9.0	2.1
0°-180°	423.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	796	
5°	620	51
15°	324	84
25°	128	60
35°	89	56
45°	69	53
55°	49	44
65°	32	32
75°	20	22
85°	13	11
90°	10	6
95°	7	5
105°	1	1
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	795.6
1°	791.5
2°	774.6
3°	736.2
4°	683.0
5°	619.5
6°	559.1
7°	504.8
8°	459.2
9°	424.9
10°	399.3
11°	380.4
12°	364.5
13°	351.7
14°	338.9
15°	323.6
16°	301.0
17°	271.3
18°	236.5
19°	204.3
20°	180.2
21°	165.4
22°	154.6
23°	145.4
24°	136.7
25°	128.0
27.5°	110.1
30°	98.8
32.5°	90.6
35°	89.1
37.5°	86.5
40°	79.4
42.5°	73.7
45°	68.6
47.5°	63.5
50°	58.4
52.5°	53.2
55°	48.6
57.5°	44.0
60°	39.9
62.5°	35.8
65°	32.3
67.5°	28.7
70°	25.6
72.5°	23.0

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	20.5
77.5°	18.4
80°	16.4
82.5°	14.3
85°	12.8
87.5°	11.3
90°	10.2
92.5°	9.2
95°	7.2
97.5°	5.1
100°	3.6
102.5°	2.0
105°	1.0
107.5°	0.5
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)