

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: P701819

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9030-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701819  
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-1020-9030-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

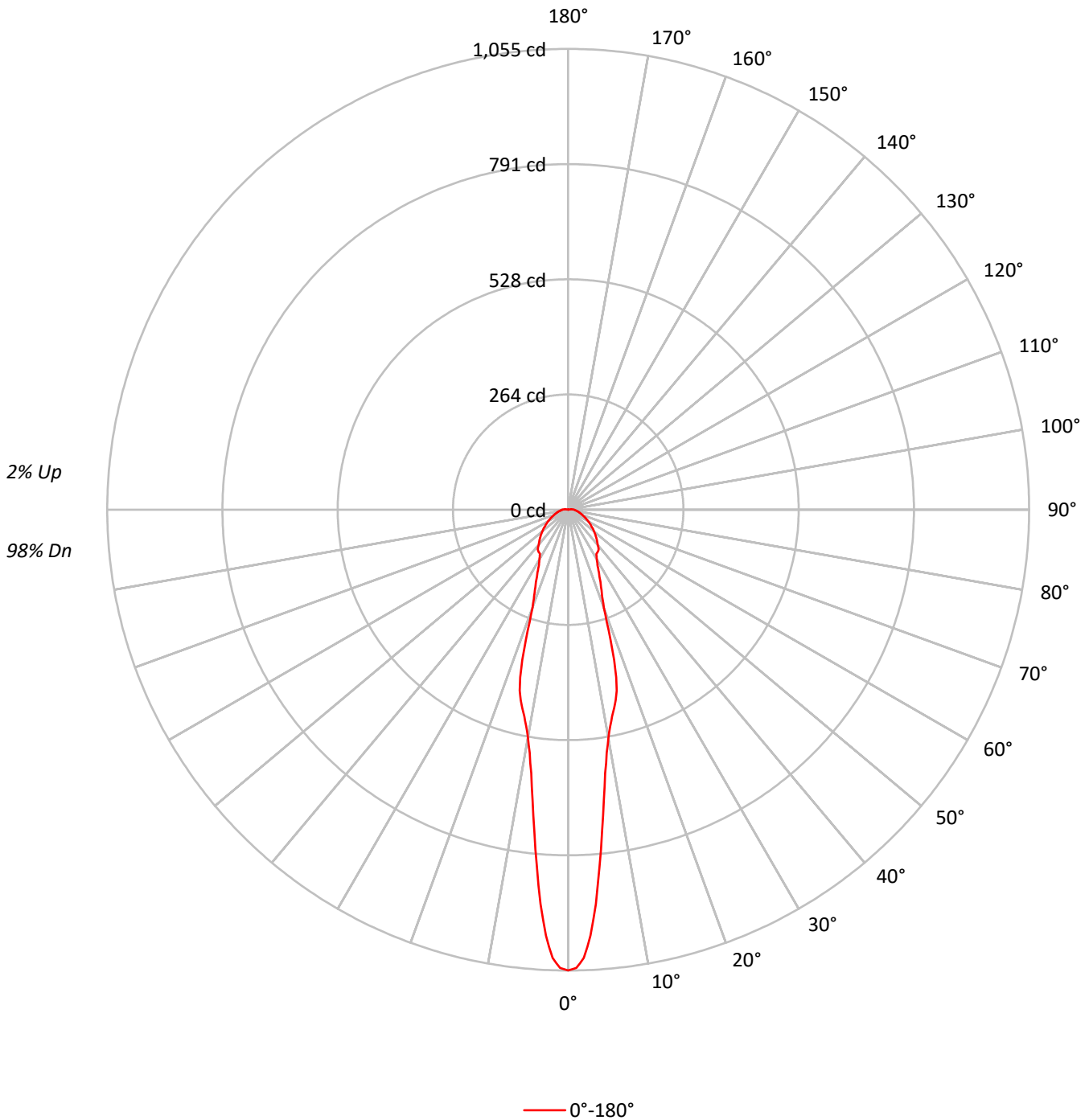
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 562.1 lumens  
Efficiency: N/A  
Efficacy: 56.8 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°	122339
5°	83255
10°	47994
15°	35406
20°	18225
25°	12121
30°	8860
35°	7640
40°	6570
45°	5533
50°	4620
55°	3809
60°	3114
65°	2531
70°	2030
75°	1662
80°	1364
85°	1109

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5533 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	12.1
10°-20°	110.7	19.7
20°-30°	79.2	14.1
30°-40°	73.7	13.1
40°-50°	70.2	12.5
50°-60°	57.8	10.3
60°-70°	42.5	7.6
70°-80°	29.0	5.2
80°-90°	18.7	3.3
90°-100°	10.3	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°	257.9	45.9
0°-40°	331.7	59.0
0°-60°	459.7	81.8
0°-90°	549.9	97.8
90°-120°	12.2	2.2
90°-150°	12.2	2.2
90°-180°	12.0	2.1
0°-180°	562.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1055	
5°	821	68
15°	429	111
25°	170	79
35°	118	74
45°	91	70
55°	64	58
65°	43	42
75°	27	29
85°	17	15
90°	14	7
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°	1054.8
1°	1049.4
2°	1027.0
3°	976.1
4°	905.5
5°	821.3
6°	741.2
7°	669.3
8°	608.9
9°	563.4
10°	529.5
11°	504.3
12°	483.3
13°	466.3
14°	449.4
15°	429.0
16°	399.1
17°	359.8
18°	313.6
19°	270.8
20°	238.9
21°	219.2
22°	205.0
23°	192.8
24°	181.2
25°	169.7
27.5°	145.9
30°	131.0
32.5°	120.1
35°	118.1
37.5°	114.7
40°	105.2
42.5°	97.7
45°	91.0
47.5°	84.2
50°	77.4
52.5°	70.6
55°	64.5
57.5°	58.4
60°	52.9
62.5°	47.5
65°	42.8
67.5°	38.0
70°	33.9
72.5°	30.5

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	27.2
77.5°	24.4
80°	21.7
82.5°	19.0
85°	17.0
87.5°	14.9
90°	13.6
92.5°	12.2
95°	9.5
97.5°	6.8
100°	4.8
102.5°	2.7
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)