

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: P701861

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701861  
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-10-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

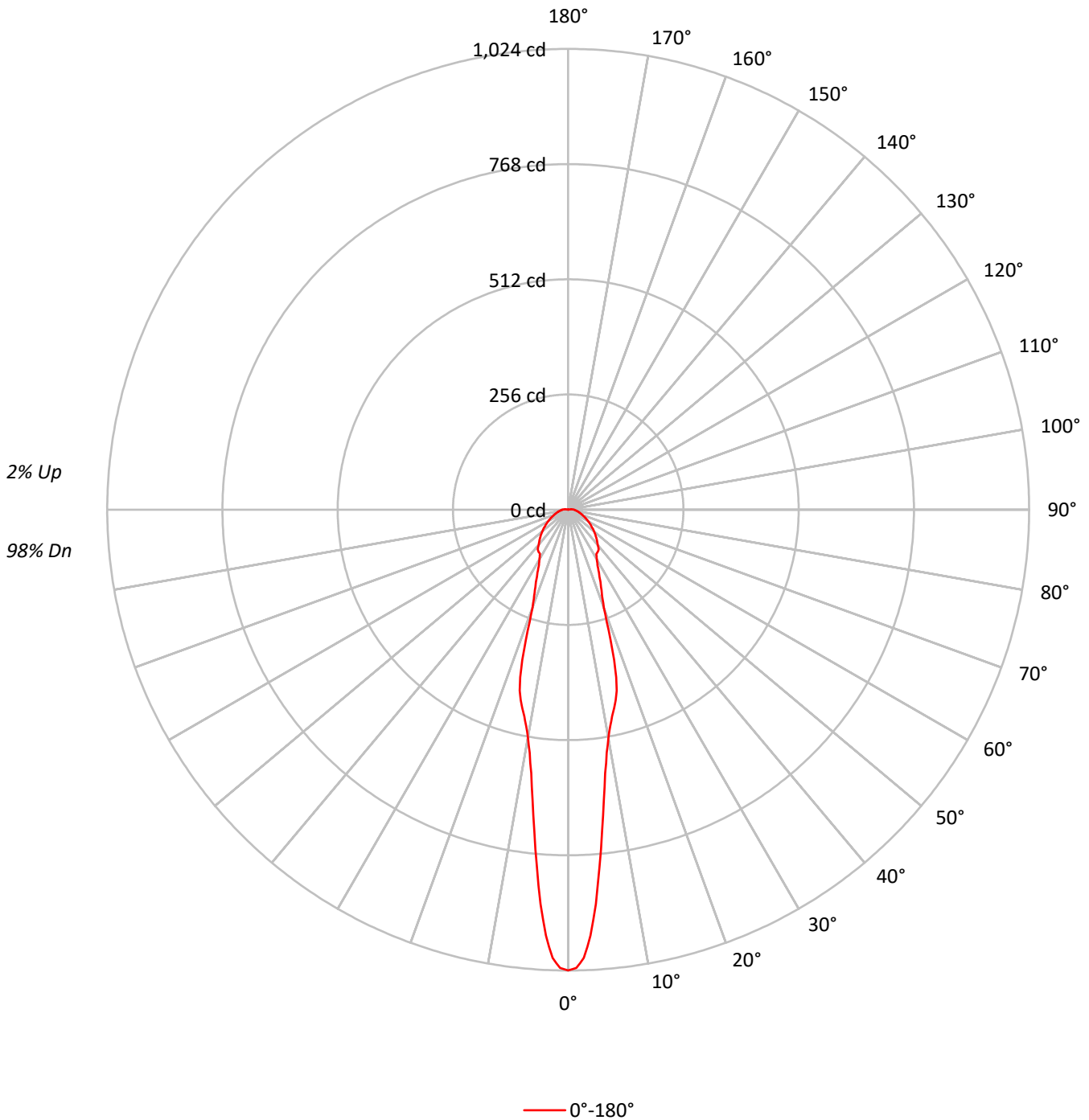
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 545.6 lumens  
Efficiency: N/A  
Efficacy: 55.7 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): 9.8  
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°	118744
5°	80812
10°	46580
15°	34366
20°	17691
25°	11764
30°	8603
35°	7414
40°	6376
45°	5369
50°	4482
55°	3696
60°	3026
65°	2454
70°	1970
75°	1613
80°	1326
85°	1076

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5369 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.0	12.1
10°-20°	107.5	19.7
20°-30°	76.9	14.1
30°-40°	71.6	13.1
40°-50°	68.2	12.5
50°-60°	56.1	10.3
60°-70°	41.2	7.6
70°-80°	28.2	5.2
80°-90°	18.1	3.3
90°-100°	10.0	1.8
100°-110°	1.8	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°	250.4	45.9
0°-40°	321.9	59.0
0°-60°	446.2	81.8
0°-90°	533.7	97.8
90°-120°	11.8	2.2
90°-150°	11.8	2.2
90°-180°	12.0	2.2
0°-180°	545.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1024	
5°	797	66
15°	416	107
25°	165	77
35°	115	72
45°	88	68
55°	63	56
65°	42	41
75°	26	28
85°	16	14
90°	13	7
95°	9	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°	1023.8
1°	1018.6
2°	996.8
3°	947.4
4°	878.9
5°	797.2
6°	719.4
7°	649.6
8°	591.0
9°	546.8
10°	513.9
11°	489.5
12°	469.1
13°	452.6
14°	436.1
15°	416.4
16°	387.4
17°	349.2
18°	304.4
19°	262.9
20°	231.9
21°	212.8
22°	199.0
23°	187.1
24°	175.9
25°	164.7
27.5°	141.6
30°	127.2
32.5°	116.6
35°	114.6
37.5°	111.3
40°	102.1
42.5°	94.9
45°	88.3
47.5°	81.7
50°	75.1
52.5°	68.5
55°	62.6
57.5°	56.7
60°	51.4
62.5°	46.1
65°	41.5
67.5°	36.9
70°	32.9
72.5°	29.6

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	26.4
77.5°	23.7
80°	21.1
82.5°	18.4
85°	16.5
87.5°	14.5
90°	13.2
92.5°	11.9
95°	9.2
97.5°	6.6
100°	4.6
102.5°	2.6
105°	1.3
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)