

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: P701860

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701860  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)  
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-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

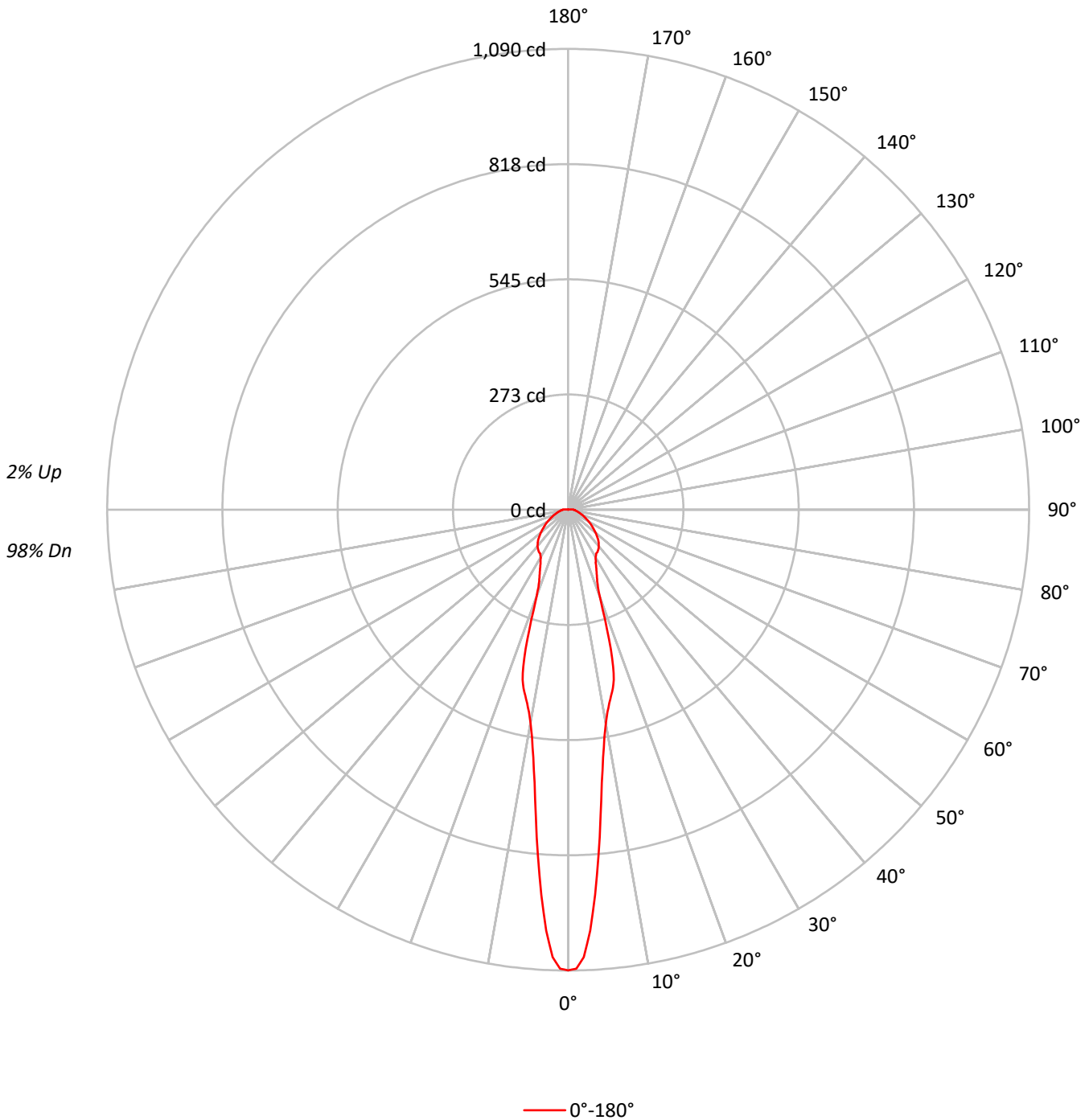
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 564.1 lumens  
Efficiency: N/A  
Efficacy: 57.6 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
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	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

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

	0°
0°	126387
5°	83418
10°	46399
15°	34366
20°	16585
25°	11293
30°	8779
35°	7841
40°	7038
45°	6086
50°	5031
55°	4086
60°	3297
65°	2608
70°	2053
75°	1649
80°	1326
85°	1076

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6086 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.3	11.9
10°-20°	106.2	18.8
20°-30°	73.8	13.1
30°-40°	75.7	13.4
40°-50°	76.7	13.6
50°-60°	62.2	11.0
60°-70°	43.9	7.8
70°-80°	28.7	5.1
80°-90°	18.0	3.2
90°-100°	9.7	1.7
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°	247.4	43.9
0°-40°	323.0	57.3
0°-60°	461.9	81.9
0°-90°	552.6	98.0
90°-120°	11.5	2.0
90°-150°	11.5	2.0
90°-180°	12.0	2.1
0°-180°	564.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1090	
5°	823	67
15°	416	106
25°	158	74
35°	121	76
45°	100	77
55°	69	62
65°	44	44
75°	27	29
85°	16	14
90°	12	7
95°	9	6
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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CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9024-4LBW1LI-CF

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1089.7
1°	1085.8
2°	1058.7
3°	996.8
4°	913.1
5°	822.9
6°	732.0
7°	650.3
8°	591.6
9°	545.5
10°	511.9
11°	487.5
12°	467.8
13°	451.3
14°	435.5
15°	416.4
16°	386.1
17°	344.6
18°	297.1
19°	251.7
20°	217.4
21°	196.3
22°	182.5
23°	173.9
24°	166.0
25°	158.1
27.5°	141.0
30°	129.8
32.5°	123.2
35°	121.2
37.5°	117.3
40°	112.7
42.5°	106.7
45°	100.1
47.5°	92.2
50°	84.3
52.5°	76.4
55°	69.2
57.5°	62.6
60°	56.0
62.5°	49.4
65°	44.1
67.5°	38.9
70°	34.3
72.5°	30.3

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	27.0
77.5°	23.7
80°	21.1
82.5°	18.4
85°	16.5
87.5°	14.5
90°	12.5
92.5°	11.2
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)