

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: P702102

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9030-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702102  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9030-4LBW1LI-GFC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C  
KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

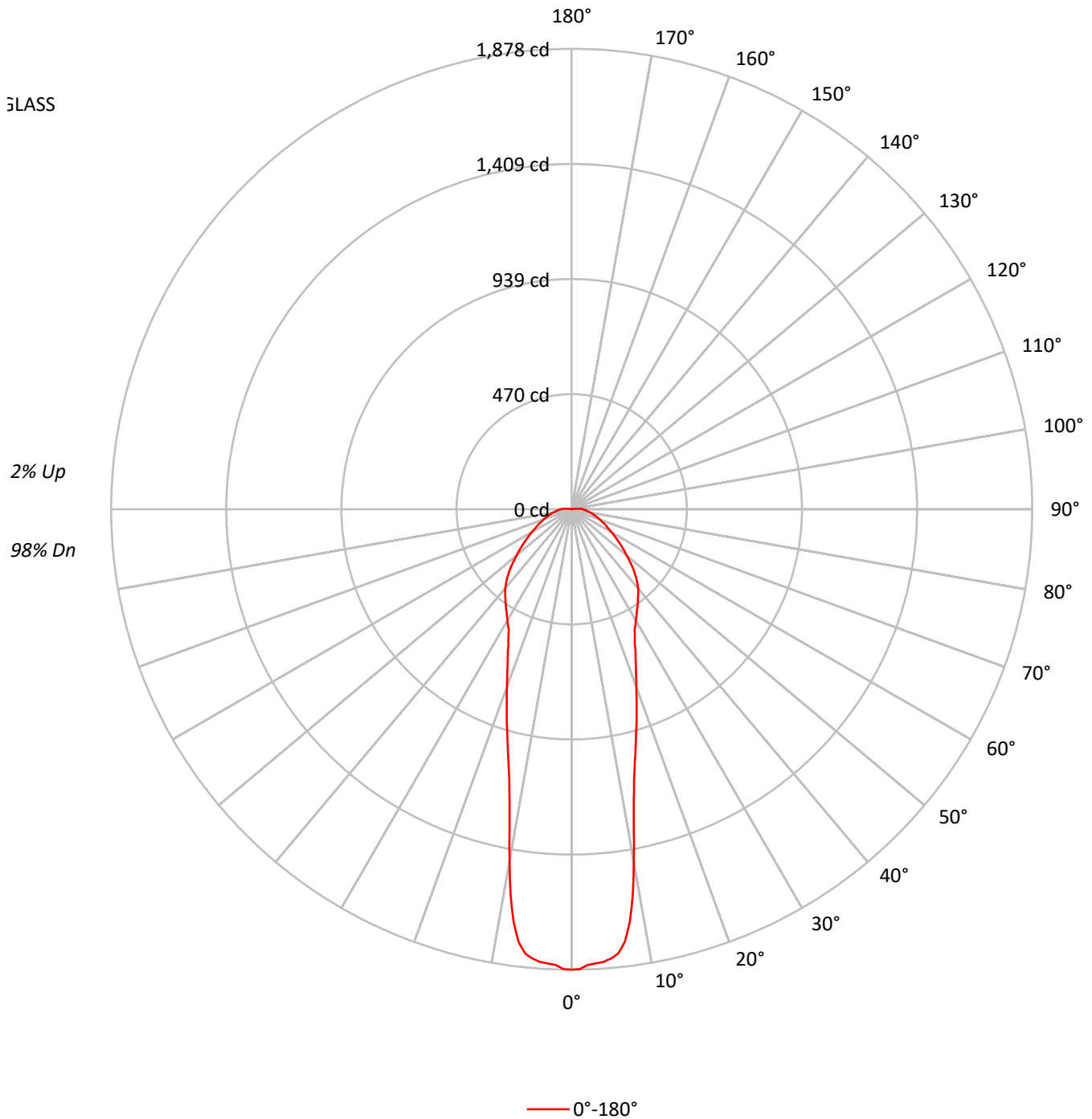
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1870.8 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct  
  
Input Watts (W): 31.6  
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	104	100	97	106	102	98	95	97	94	92		93	91	89		89	87	86	83
2	100	93	87	81	98	91	85	80	87	82	78		84	80	76		80	77	74	72
3	93	83	76	70	90	82	75	69	78	73	68		75	71	66		73	69	65	63
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		66	62	58	56
5	80	69	60	54	78	67	60	54	65	58	53		63	57	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	48		57	51	47	45
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	54	46	41	65	53	46	41	52	45	40		50	44	40		49	44	40	38
9	62	50	43	38	61	50	42	38	48	42	37		47	41	37		46	41	37	35
10	59	47	40	35	58	47	40	35	45	39	35		44	39	35		44	38	34	33

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

	0°
0°	217816
5°	186460
10°	132398
15°	83110
20°	58834
25°	43579
30°	35434
35°	30372
40°	26347
45°	21926
50°	17464
55°	13929
60°	11085
65°	8989
70°	7334
75°	5956
80°	4701
85°	3848

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21926 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.1	8.8
10°-20°	284.7	15.2
20°-30°	285.1	15.2
30°-40°	294.2	15.7
40°-50°	276.8	14.8
50°-60°	212.3	11.3
60°-70°	151.3	8.1
70°-80°	103.3	5.5
80°-90°	64.6	3.5
90°-100°	30.7	1.6
100°-110°	2.7	0.1
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°	734.9	39.3
0°-40°	1029.2	55.0
0°-60°	1518.2	81.2
0°-90°	1837.4	98.2
90°-120°	33.4	1.8
90°-150°	33.4	1.8
90°-180°	33.0	1.8
0°-180°	1870.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1878	
5°	1839	165
15°	1007	285
25°	610	285
35°	470	294
45°	361	277
55°	236	212
65°	152	151
75°	98	103
85°	59	51
90°	45	25
95°	27	19
105°	0	3
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°	1878.0
1°	1875.7
2°	1859.8
3°	1855.3
4°	1850.8
5°	1839.4
6°	1821.3
7°	1778.2
8°	1701.1
9°	1592.2
10°	1460.7
11°	1326.8
12°	1215.7
13°	1129.5
14°	1063.7
15°	1007.0
16°	952.6
17°	905.0
18°	857.3
19°	812.0
20°	771.2
21°	732.6
22°	698.6
23°	666.8
24°	639.6
25°	610.1
27.5°	555.7
30°	523.9
32.5°	494.4
35°	469.5
37.5°	444.5
40°	421.9
42.5°	392.4
45°	360.6
47.5°	326.6
50°	292.6
52.5°	263.1
55°	235.9
57.5°	210.9
60°	188.3
62.5°	167.8
65°	152.0
67.5°	136.1
70°	122.5
72.5°	108.9

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	97.5
77.5°	86.2
80°	74.8
82.5°	65.8
85°	59.0
87.5°	52.2
90°	45.4
92.5°	38.6
95°	27.2
97.5°	18.1
100°	11.3
102.5°	4.5
105°	0.0
107.5°	0.0
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)