

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: P701900

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701900  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

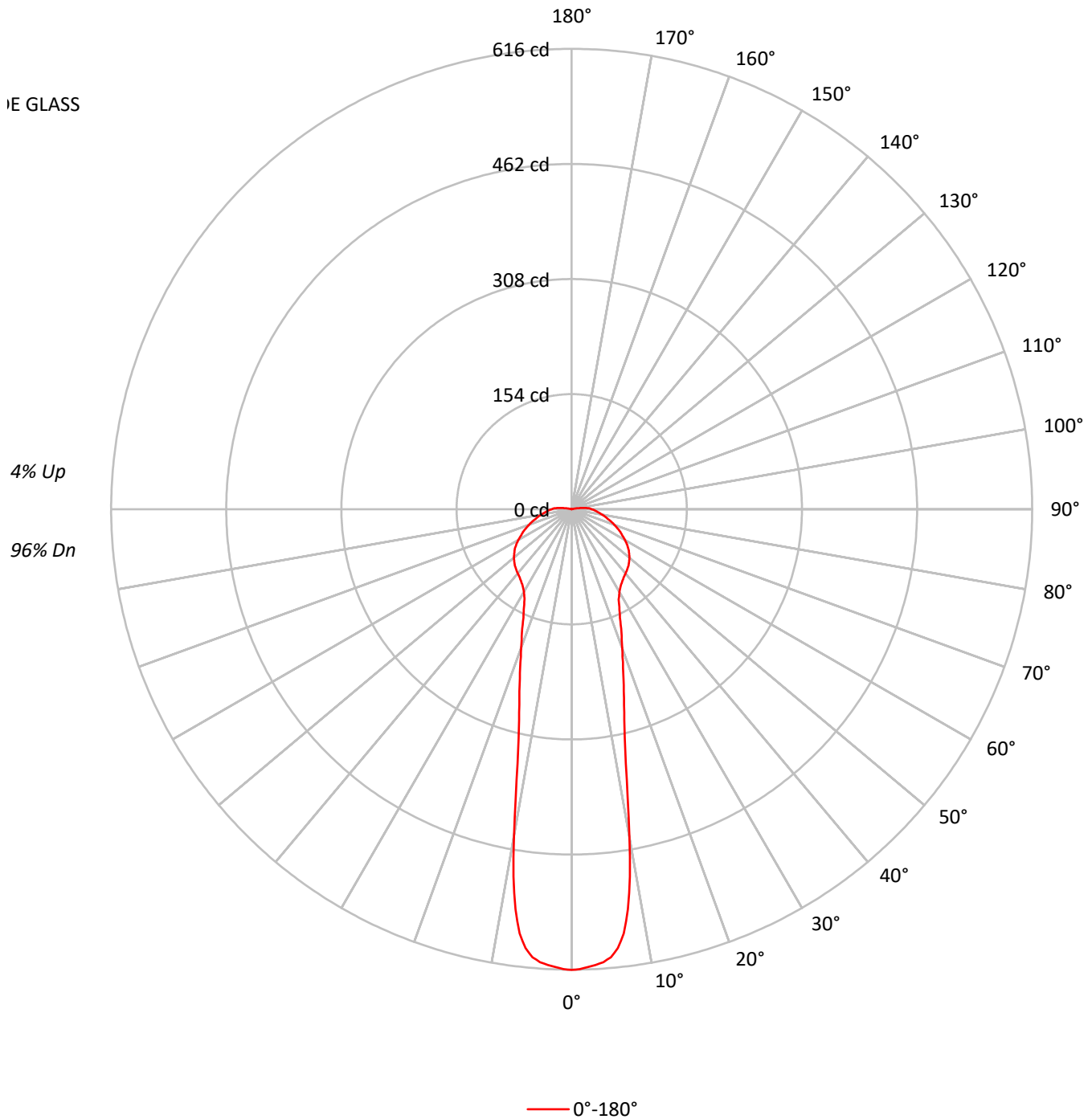
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 624.7 lumens  
Efficiency: N/A  
Efficacy: 63.7 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
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	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87		89	86	83		85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72		78	73	69		74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61		69	64	59		66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47		57	51	46		55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42		52	46	41		51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38		49	42	37		47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35		45	39	34		44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32		42	36	32		41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		39	33	29	28

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

	0°
0°	71480
5°	61005
10°	40362
15°	22366
20°	15075
25°	10836
30°	8623
35°	7621
40°	7000
45°	6524
50°	6016
55°	5480
60°	4845
65°	4246
70°	3622
75°	3054
80°	2583
85°	2211

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6524 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.9	8.5
10°-20°	77.6	12.4
20°-30°	71.0	11.4
30°-40°	74.2	11.9
40°-50°	82.7	13.2
50°-60°	82.6	13.2
60°-70°	70.8	11.3
70°-80°	53.5	8.6
80°-90°	37.0	5.9
90°-100°	19.6	3.1
100°-110°	2.7	0.4
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°	201.6	32.3
0°-40°	275.8	44.2
0°-60°	441.1	70.6
0°-90°	602.4	96.4
90°-120°	22.3	3.6
90°-150°	22.3	3.6
90°-180°	22.0	3.5
0°-180°	624.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	616	
5°	602	53
15°	271	78
25°	152	71
35°	118	74
45°	107	83
55°	93	83
65°	72	71
75°	50	53
85°	34	29
90°	27	15
95°	19	13
105°	2	3
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°	616.3
1°	615.5
2°	613.1
3°	610.7
4°	607.4
5°	601.8
6°	590.5
7°	571.9
8°	540.5
9°	497.7
10°	445.3
11°	392.0
12°	347.7
13°	315.4
14°	290.4
15°	271.0
16°	253.3
17°	237.2
18°	222.6
19°	208.9
20°	197.6
21°	187.1
22°	177.5
23°	167.8
24°	158.9
25°	151.7
27.5°	136.3
30°	127.5
32.5°	121.8
35°	117.8
37.5°	114.5
40°	112.1
42.5°	109.7
45°	107.3
47.5°	104.1
50°	100.8
52.5°	96.8
55°	92.8
57.5°	87.9
60°	82.3
62.5°	76.6
65°	71.8
67.5°	66.1
70°	60.5
72.5°	55.7

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	50.0
77.5°	46.0
80°	41.1
82.5°	37.1
85°	33.9
87.5°	30.7
90°	26.6
92.5°	24.2
95°	18.6
97.5°	12.1
100°	7.3
102.5°	4.0
105°	1.6
107.5°	0.8
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)