

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: P701865

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701865  
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-1020-9024-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

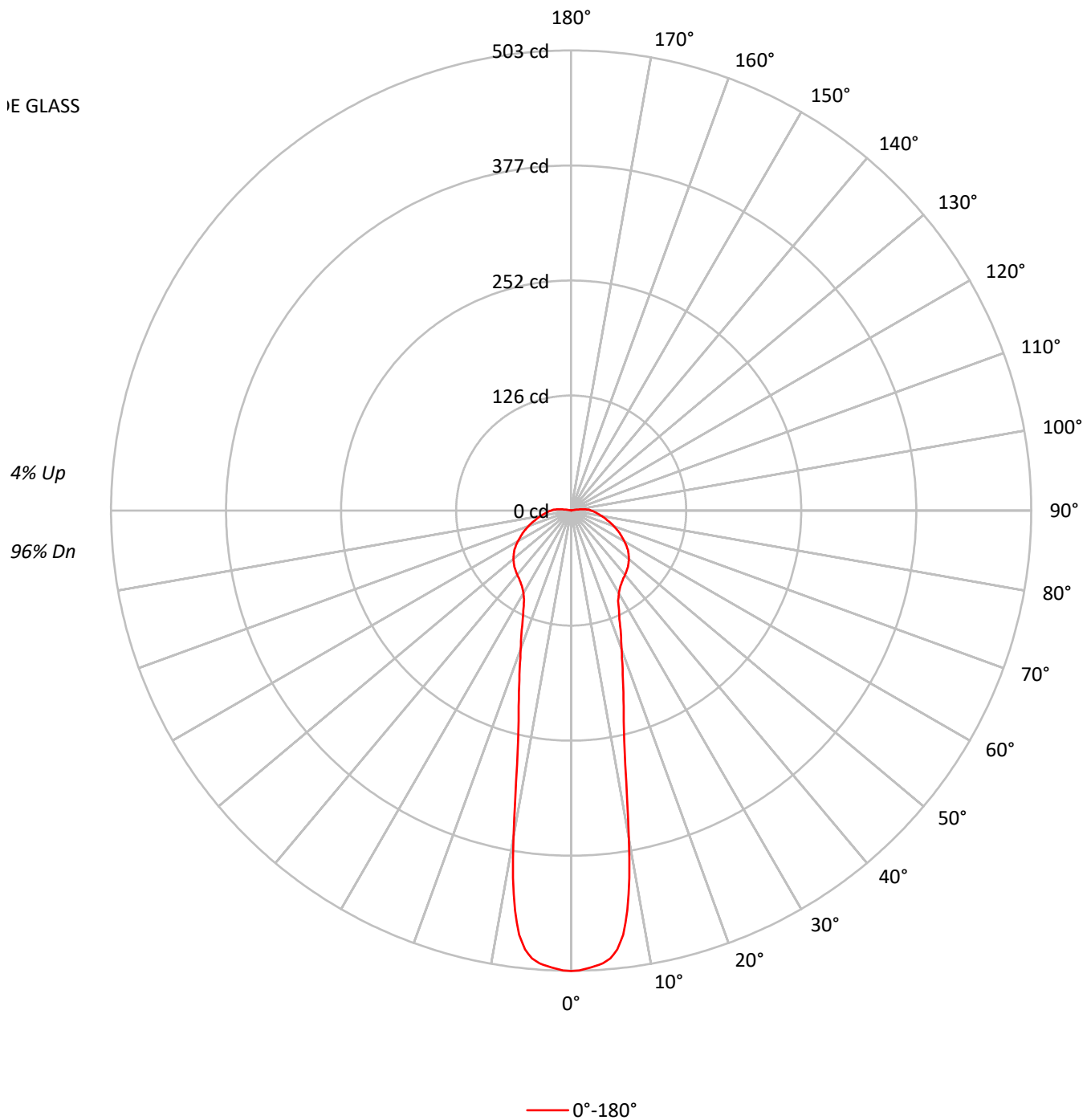
Lumens per Lamp: N/A  
Luminaire Lumens: 510.2 lumens  
Efficiency: N/A  
Efficacy: 52.1 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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°	58374
5°	49823
10°	32966
15°	18273
20°	12313
25°	8850
30°	7041
35°	6223
40°	5720
45°	5326
50°	4918
55°	4476
60°	3956
65°	3466
70°	2958
75°	2492
80°	2112
85°	1807

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5326 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.2	8.5
10°-20°	63.4	12.4
20°-30°	58.0	11.4
30°-40°	60.7	11.9
40°-50°	67.5	13.2
50°-60°	67.5	13.2
60°-70°	57.8	11.3
70°-80°	43.7	8.6
80°-90°	30.2	5.9
90°-100°	16.0	3.1
100°-110°	2.2	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°	164.6	32.3
0°-40°	225.3	44.2
0°-60°	360.3	70.6
0°-90°	492.0	96.4
90°-120°	18.2	3.6
90°-150°	18.2	3.6
90°-180°	18.0	3.5
0°-180°	510.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	503	
5°	492	43
15°	221	63
25°	124	58
35°	96	61
45°	88	68
55°	76	67
65°	59	58
75°	41	44
85°	28	24
90°	22	12
95°	15	10
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°	503.3
1°	502.7
2°	500.7
3°	498.7
4°	496.1
5°	491.5
6°	482.3
7°	467.1
8°	441.4
9°	406.5
10°	363.7
11°	320.2
12°	284.0
13°	257.6
14°	237.2
15°	221.4
16°	206.9
17°	193.7
18°	181.8
19°	170.6
20°	161.4
21°	152.8
22°	144.9
23°	137.0
24°	129.8
25°	123.9
27.5°	111.3
30°	104.1
32.5°	99.5
35°	96.2
37.5°	93.6
40°	91.6
42.5°	89.6
45°	87.6
47.5°	85.0
50°	82.4
52.5°	79.1
55°	75.8
57.5°	71.8
60°	67.2
62.5°	62.6
65°	58.6
67.5°	54.0
70°	49.4
72.5°	45.5

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	40.8
77.5°	37.6
80°	33.6
82.5°	30.3
85°	27.7
87.5°	25.0
90°	21.7
92.5°	19.8
95°	15.2
97.5°	9.9
100°	5.9
102.5°	3.3
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)