

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: P702033

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702033  
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-25-D010 / 340-EU4C-3040-9024-4LBW1LI-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

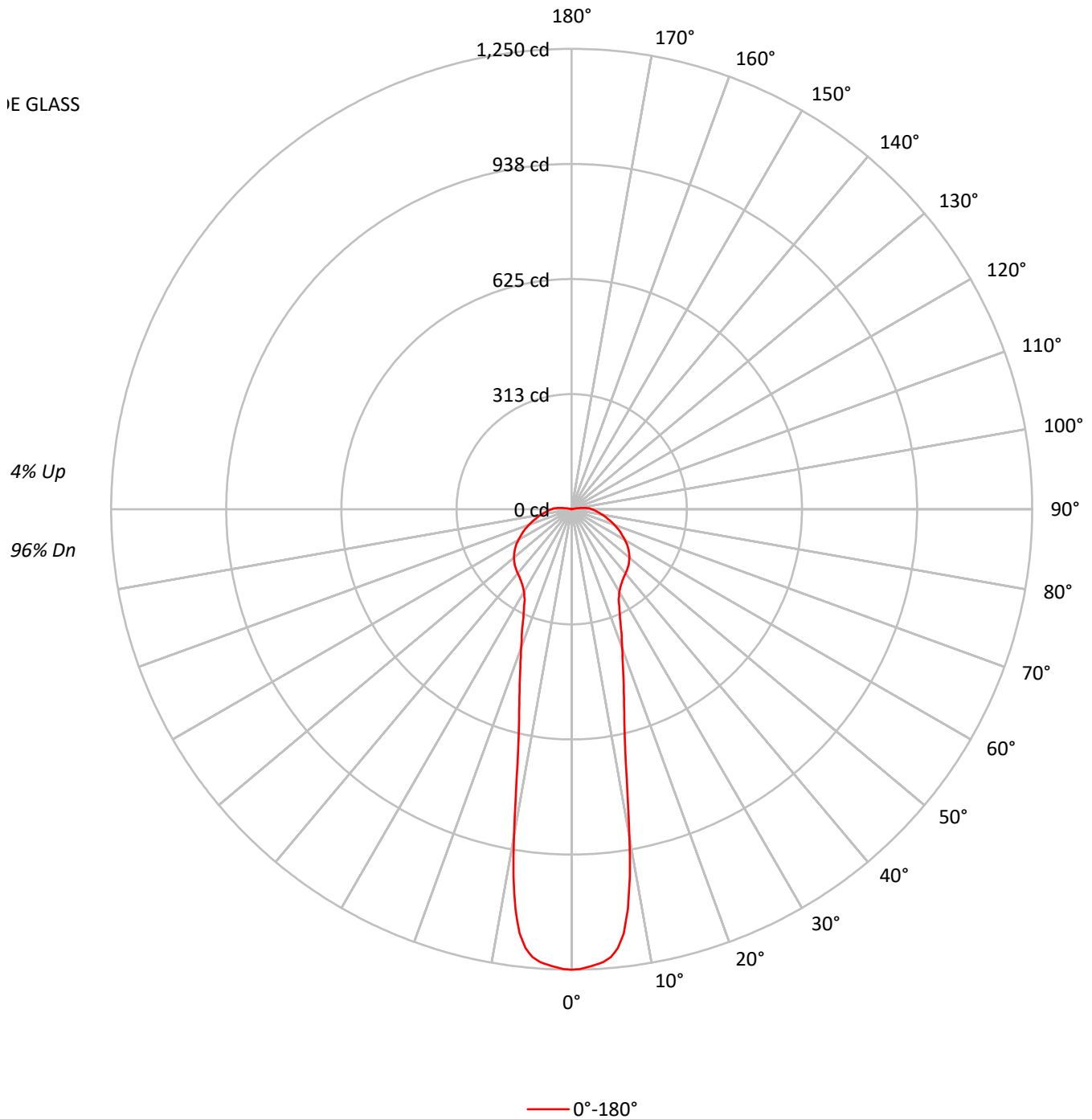
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1267.2 lumens  
Efficiency: N/A  
Efficacy: 40.2 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): 31.5  
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°	145002
5°	123743
10°	81875
15°	45376
20°	30584
25°	21971
30°	17484
35°	15455
40°	14207
45°	13231
50°	12206
55°	11113
60°	9825
65°	8611
70°	7346
75°	6200
80°	5248
85°	4481

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 13231 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.4	8.5
10°-20°	157.5	12.4
20°-30°	144.0	11.4
30°-40°	150.6	11.9
40°-50°	167.7	13.2
50°-60°	167.6	13.2
60°-70°	143.7	11.3
70°-80°	108.5	8.6
80°-90°	75.0	5.9
90°-100°	39.8	3.1
100°-110°	5.5	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°	408.9	32.3
0°-40°	559.6	44.2
0°-60°	894.8	70.6
0°-90°	1222.0	96.4
90°-120°	45.2	3.6
90°-150°	45.2	3.6
90°-180°	45.0	3.6
0°-180°	1267.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1250	
5°	1221	107
15°	550	157
25°	308	144
35°	239	151
45°	218	168
55°	188	168
65°	146	144
75°	102	108
85°	69	59
90°	54	30
95°	38	26
105°	3	5
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°	1250.2
1°	1248.5
2°	1243.6
3°	1238.7
4°	1232.2
5°	1220.7
6°	1197.8
7°	1160.2
8°	1096.4
9°	1009.6
10°	903.3
11°	795.3
12°	705.3
13°	639.8
14°	589.1
15°	549.8
16°	513.8
17°	481.1
18°	451.6
19°	423.8
20°	400.9
21°	379.6
22°	360.0
23°	340.4
24°	322.4
25°	307.6
27.5°	276.5
30°	258.5
32.5°	247.1
35°	238.9
37.5°	232.4
40°	227.5
42.5°	222.5
45°	217.6
47.5°	211.1
50°	204.5
52.5°	196.4
55°	188.2
57.5°	178.4
60°	166.9
62.5°	155.5
65°	145.6
67.5°	134.2
70°	122.7
72.5°	112.9

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	101.5
77.5°	93.3
80°	83.5
82.5°	75.3
85°	68.7
87.5°	62.2
90°	54.0
92.5°	49.1
95°	37.6
97.5°	24.5
100°	14.7
102.5°	8.2
105°	3.3
107.5°	1.6
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)