

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: P702110

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702110  
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-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

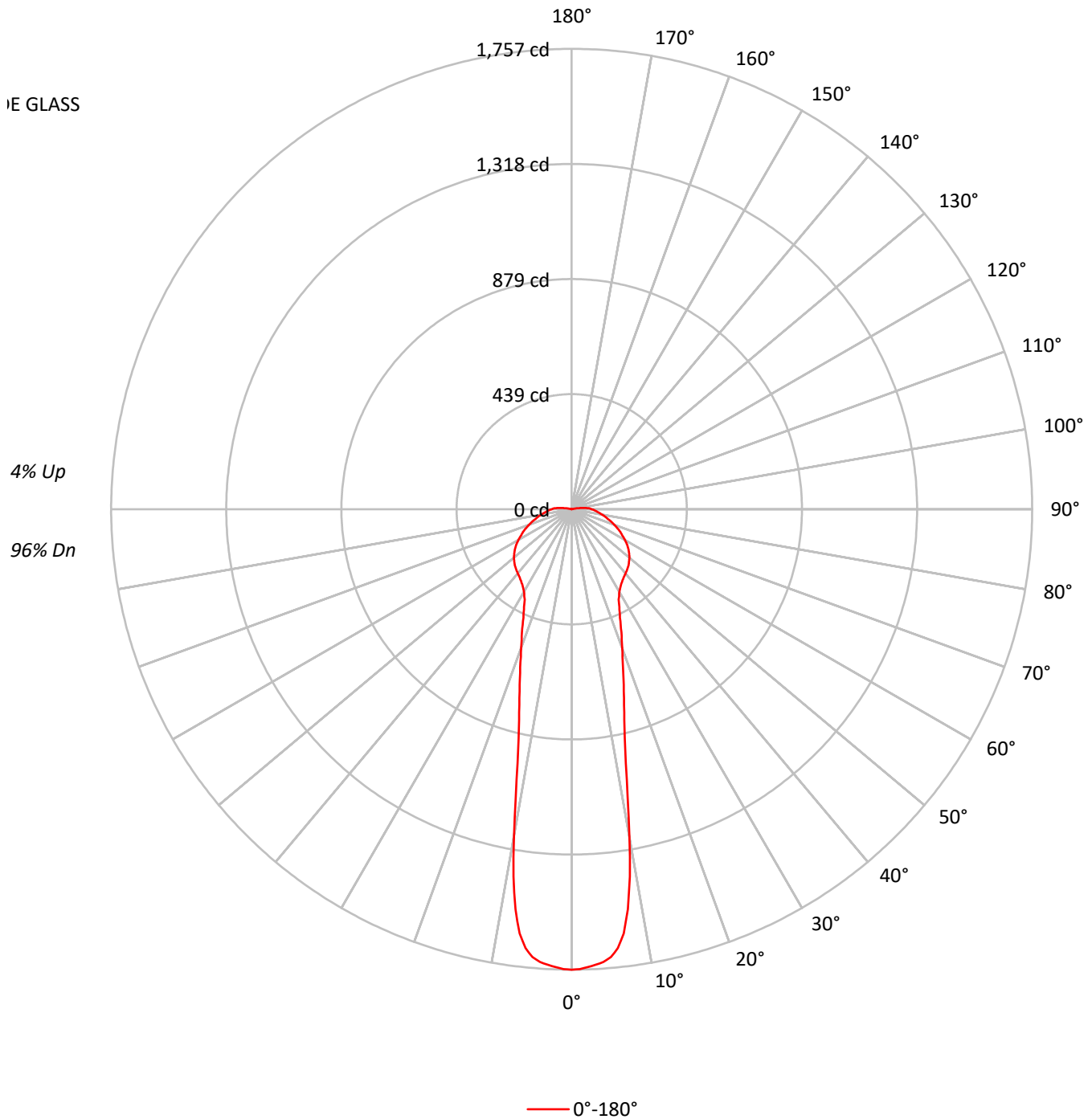
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1781.1 lumens  
Efficiency: N/A  
Efficacy: 56.4 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): 31.6  
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	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°	203817
5°	173941
10°	115086
15°	63781
20°	42989
25°	30886
30°	24578
35°	21723
40°	19965
45°	18600
50°	17159
55°	15618
60°	13811
65°	12106
70°	10327
75°	8711
80°	7372
85°	6300

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18600 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.0	8.5
10°-20°	221.4	12.4
20°-30°	202.5	11.4
30°-40°	211.7	11.9
40°-50°	235.7	13.2
50°-60°	235.6	13.2
60°-70°	201.9	11.3
70°-80°	152.5	8.6
80°-90°	105.3	5.9
90°-100°	55.9	3.1
100°-110°	7.7	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°	574.8	32.3
0°-40°	786.5	44.2
0°-60°	1257.7	70.6
0°-90°	1717.5	96.4
90°-120°	63.6	3.6
90°-150°	63.6	3.6
90°-180°	64.0	3.6
0°-180°	1781.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1757	
5°	1716	151
15°	773	221
25°	432	202
35°	336	212
45°	306	236
55°	264	236
65°	205	202
75°	143	152
85°	97	83
90°	76	42
95°	53	36
105°	5	8
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°	1757.3
1°	1755.0
2°	1748.1
3°	1741.2
4°	1732.0
5°	1715.9
6°	1683.7
7°	1630.8
8°	1541.1
9°	1419.2
10°	1269.7
11°	1117.9
12°	991.4
13°	899.4
14°	828.0
15°	772.8
16°	722.2
17°	676.2
18°	634.8
19°	595.7
20°	563.5
21°	533.6
22°	506.0
23°	478.4
24°	453.1
25°	432.4
27.5°	388.7
30°	363.4
32.5°	347.3
35°	335.8
37.5°	326.6
40°	319.7
42.5°	312.8
45°	305.9
47.5°	296.7
50°	287.5
52.5°	276.0
55°	264.5
57.5°	250.7
60°	234.6
62.5°	218.5
65°	204.7
67.5°	188.6
70°	172.5
72.5°	158.7

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	142.6
77.5°	131.1
80°	117.3
82.5°	105.8
85°	96.6
87.5°	87.4
90°	75.9
92.5°	69.0
95°	52.9
97.5°	34.5
100°	20.7
102.5°	11.5
105°	4.6
107.5°	2.3
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)