

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: P702221

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702221  
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-40-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C  
KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

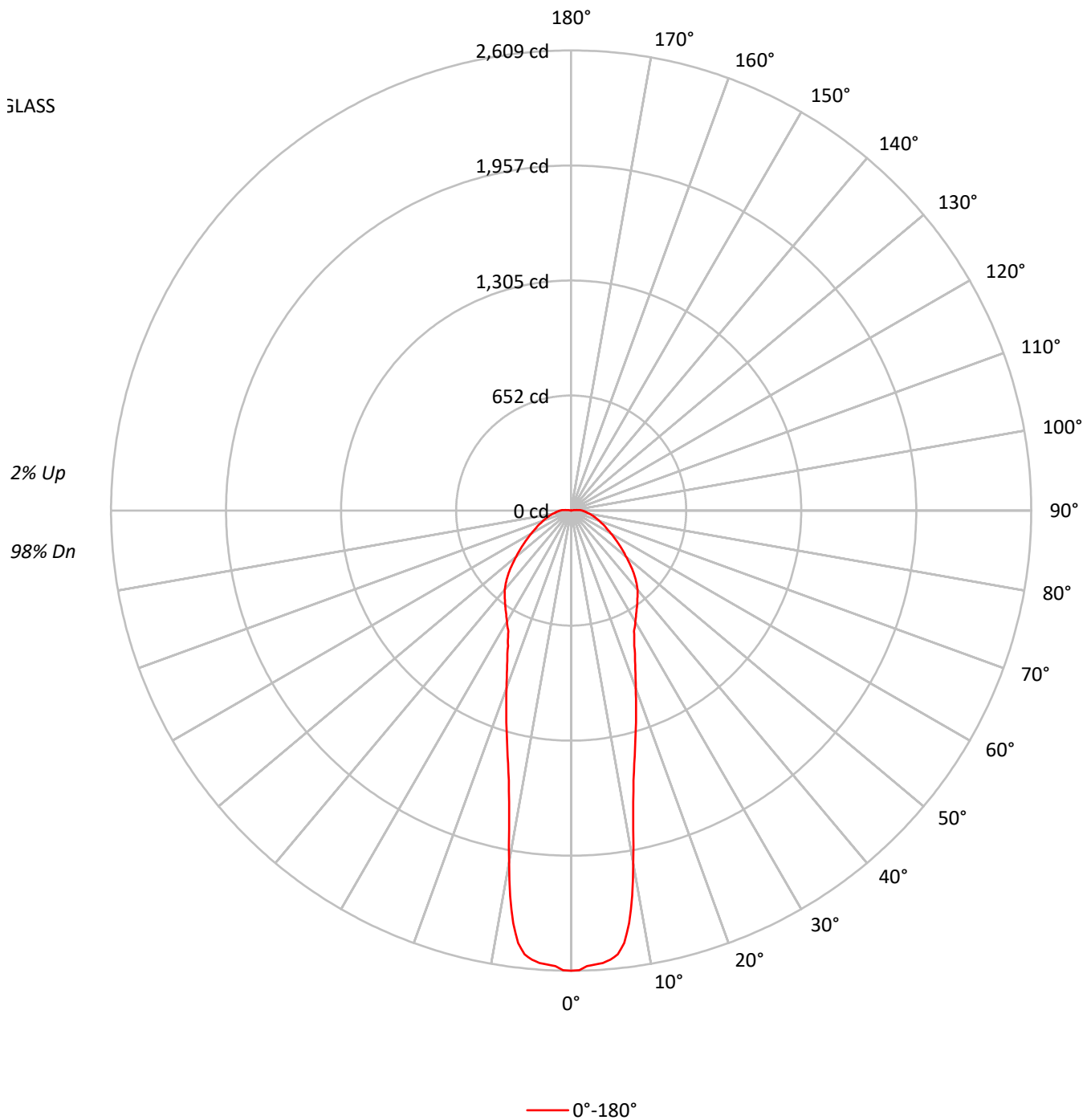
Lumens per Lamp: N/A  
Luminaire Lumens: 2599.0 lumens  
Efficiency: N/A  
Efficacy: 55.3 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 47  
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	43	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°	302588
5°	259041
10°	183927
15°	115462
20°	81728
25°	60543
30°	49231
35°	42191
40°	36601
45°	30462
50°	24262
55°	19350
60°	15394
65°	12484
70°	10184
75°	8277
80°	6536
85°	5341

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 30462 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.4	8.8
10°-20°	395.5	15.2
20°-30°	396.1	15.2
30°-40°	408.8	15.7
40°-50°	384.6	14.8
50°-60°	294.9	11.3
60°-70°	210.2	8.1
70°-80°	143.5	5.5
80°-90°	89.8	3.5
90°-100°	42.6	1.6
100°-110°	3.8	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°	1021.0	39.3
0°-40°	1429.8	55.0
0°-60°	2109.2	81.2
0°-90°	2552.6	98.2
90°-120°	46.4	1.8
90°-150°	46.4	1.8
90°-180°	46.0	1.8
0°-180°	2599.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2609	
5°	2555	229
15°	1399	396
25°	848	396
35°	652	409
45°	501	385
55°	328	295
65°	211	210
75°	136	143
85°	82	71
90°	63	35
95°	38	27
105°	0	4
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°	2608.9
1°	2605.8
2°	2583.7
3°	2577.4
4°	2571.1
5°	2555.4
6°	2530.2
7°	2470.3
8°	2363.2
9°	2211.9
10°	2029.2
11°	1843.3
12°	1688.9
13°	1569.1
14°	1477.8
15°	1399.0
16°	1323.4
17°	1257.2
18°	1191.0
19°	1128.0
20°	1071.3
21°	1017.7
22°	970.5
23°	926.4
24°	888.5
25°	847.6
27.5°	772.0
30°	727.9
32.5°	686.9
35°	652.2
37.5°	617.6
40°	586.1
42.5°	545.1
45°	501.0
47.5°	453.7
50°	406.5
52.5°	365.5
55°	327.7
57.5°	293.0
60°	261.5
62.5°	233.2
65°	211.1
67.5°	189.1
70°	170.1
72.5°	151.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	135.5
77.5°	119.7
80°	104.0
82.5°	91.4
85°	81.9
87.5°	72.5
90°	63.0
92.5°	53.6
95°	37.8
97.5°	25.2
100°	15.8
102.5°	6.3
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)