

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: P702222

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702222  
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-40-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**

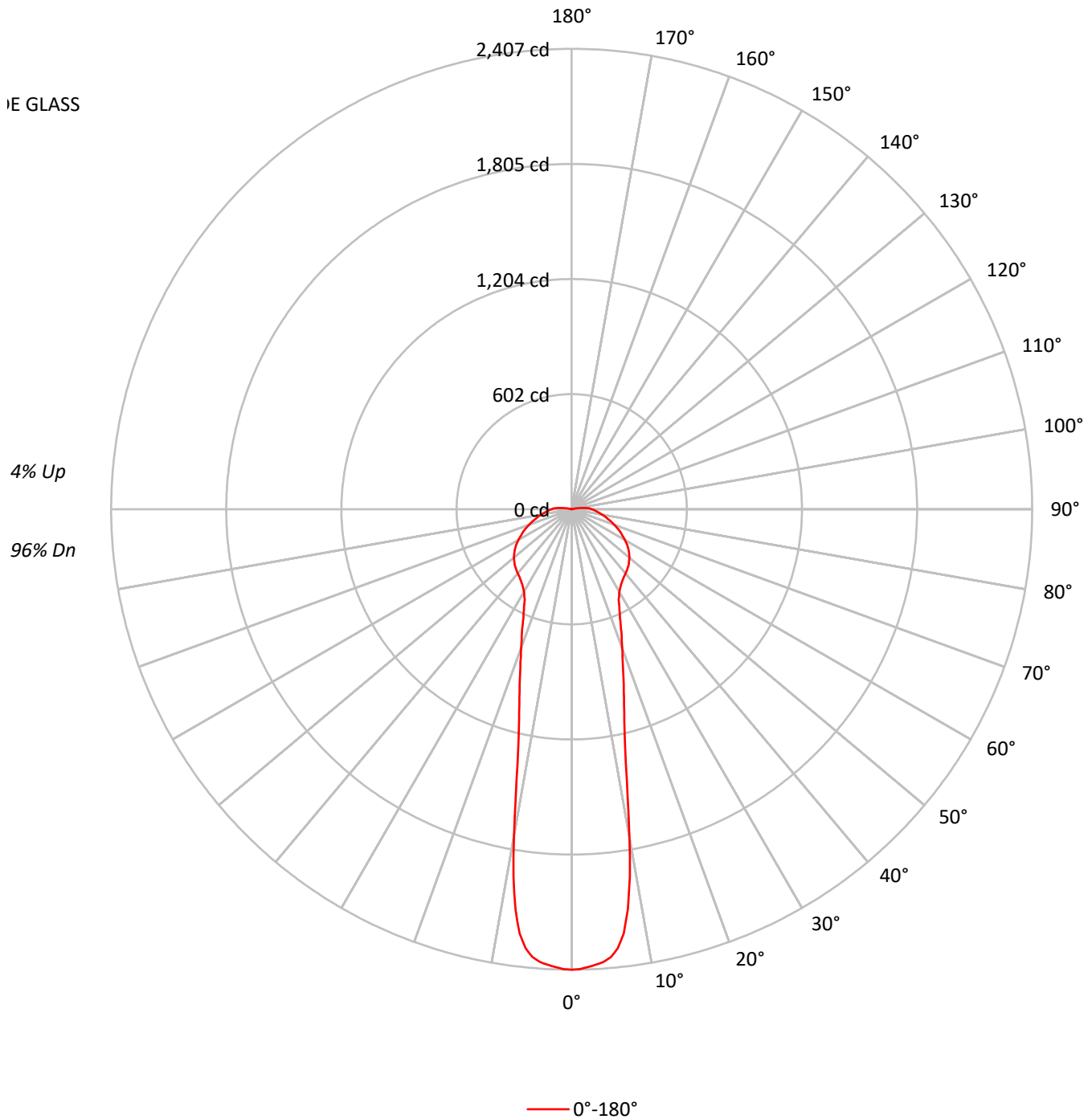
Lumens per Lamp: N/A  
Luminaire Lumens: 2440.0 lumens  
Efficiency: N/A  
Efficacy: 51.9 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 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	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°	279206
5°	238281
10°	157650
15°	87377
20°	58895
25°	42314
30°	33668
35°	29758
40°	27352
45°	25482
50°	23510
55°	21399
60°	18920
65°	16582
70°	14147
75°	11937
80°	10099
85°	8629

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25482 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	206.8	8.5
10°-20°	303.2	12.4
20°-30°	277.4	11.4
30°-40°	290.0	11.9
40°-50°	322.9	13.2
50°-60°	322.7	13.2
60°-70°	276.6	11.3
70°-80°	208.9	8.6
80°-90°	144.3	5.9
90°-100°	76.6	3.1
100°-110°	10.5	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°	787.4	32.3
0°-40°	1077.4	44.2
0°-60°	1723.0	70.6
0°-90°	2352.9	96.4
90°-120°	87.2	3.6
90°-150°	87.2	3.6
90°-180°	87.0	3.6
0°-180°	2440.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2407	
5°	2351	207
15°	1059	303
25°	592	277
35°	460	290
45°	419	323
55°	362	323
65°	280	277
75°	195	209
85°	132	114
90°	104	58
95°	72	49
105°	6	11
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°	2407.3
1°	2404.1
2°	2394.7
3°	2385.2
4°	2372.6
5°	2350.6
6°	2306.4
7°	2234.0
8°	2111.1
9°	1944.1
10°	1739.3
11°	1531.3
12°	1358.0
13°	1232.0
14°	1134.3
15°	1058.7
16°	989.4
17°	926.4
18°	869.6
19°	816.1
20°	772.0
21°	731.0
22°	693.2
23°	655.4
24°	620.7
25°	592.4
27.5°	532.5
30°	497.8
32.5°	475.8
35°	460.0
37.5°	447.4
40°	438.0
42.5°	428.5
45°	419.1
47.5°	406.5
50°	393.9
52.5°	378.1
55°	362.4
57.5°	343.4
60°	321.4
62.5°	299.3
65°	280.4
67.5°	258.4
70°	236.3
72.5°	217.4

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	195.4
77.5°	179.6
80°	160.7
82.5°	144.9
85°	132.3
87.5°	119.7
90°	104.0
92.5°	94.5
95°	72.5
97.5°	47.3
100°	28.4
102.5°	15.8
105°	6.3
107.5°	3.2
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)