

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: P702215

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9030-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702215  
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-3040-9030-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

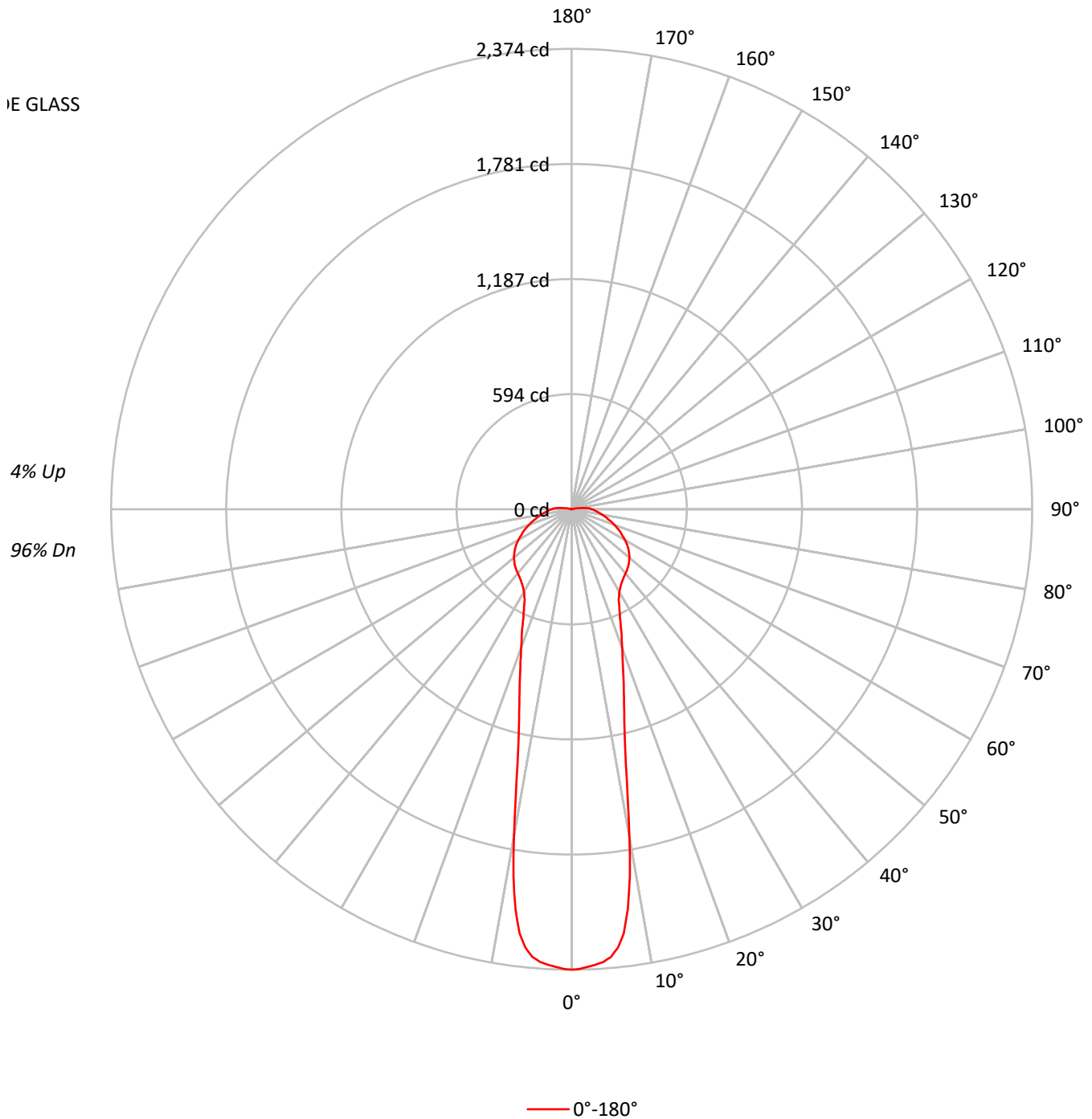
Lumens per Lamp: N/A  
Luminaire Lumens: 2406.1 lumens  
Efficiency: N/A  
Efficacy: 51.2 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 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°	275321
5°	234966
10°	155457
15°	86163
20°	58071
25°	41721
30°	33202
35°	29344
40°	26971
45°	25124
50°	23182
55°	21098
60°	18655
65°	16352
70°	13949
75°	11766
80°	9961
85°	8511

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25124 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.9	8.5
10°-20°	299.0	12.4
20°-30°	273.5	11.4
30°-40°	286.0	11.9
40°-50°	318.4	13.2
50°-60°	318.2	13.2
60°-70°	272.8	11.3
70°-80°	206.0	8.6
80°-90°	142.3	5.9
90°-100°	75.5	3.1
100°-110°	10.4	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°	776.5	32.3
0°-40°	1062.5	44.2
0°-60°	1699.1	70.6
0°-90°	2320.2	96.4
90°-120°	85.9	3.6
90°-150°	85.9	3.6
90°-180°	86.0	3.6
0°-180°	2406.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2374	
5°	2318	204
15°	1044	299
25°	584	274
35°	454	286
45°	413	318
55°	357	318
65°	276	273
75°	193	206
85°	130	112
90°	102	57
95°	72	49
105°	6	10
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°	2373.8
1°	2370.7
2°	2361.4
3°	2352.1
4°	2339.6
5°	2317.9
6°	2274.4
7°	2202.9
8°	2081.8
9°	1917.1
10°	1715.1
11°	1510.1
12°	1339.2
13°	1214.9
14°	1118.6
15°	1044.0
16°	975.6
17°	913.5
18°	857.6
19°	804.7
20°	761.2
21°	720.8
22°	683.6
23°	646.3
24°	612.1
25°	584.1
27.5°	525.1
30°	490.9
32.5°	469.2
35°	453.6
37.5°	441.2
40°	431.9
42.5°	422.6
45°	413.2
47.5°	400.8
50°	388.4
52.5°	372.9
55°	357.3
57.5°	338.7
60°	316.9
62.5°	295.2
65°	276.5
67.5°	254.8
70°	233.0
72.5°	214.4

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	192.6
77.5°	177.1
80°	158.5
82.5°	142.9
85°	130.5
87.5°	118.1
90°	102.5
92.5°	93.2
95°	71.5
97.5°	46.6
100°	28.0
102.5°	15.5
105°	6.2
107.5°	3.1
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)