

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: P702250

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9730-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702250  
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-3040-9730-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

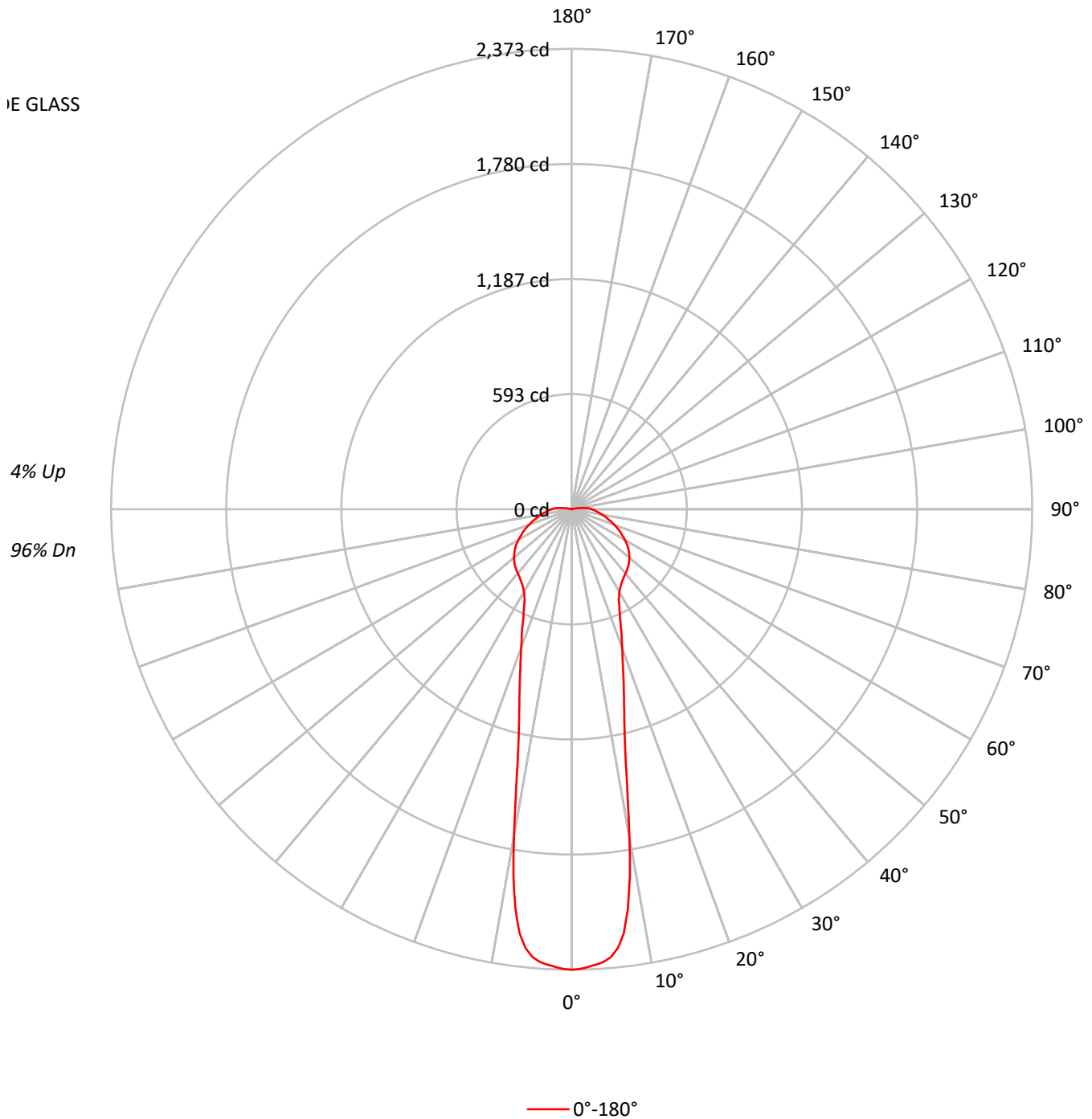
Lumens per Lamp: N/A  
Luminaire Lumens: 2405.3 lumens  
Efficiency: N/A  
Efficacy: 51.2 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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°	275240
5°	234885
10°	155411
15°	86130
20°	58056
25°	41707
30°	33195
35°	29337
40°	26959
45°	25118
50°	23176
55°	21092
60°	18650
65°	16346
70°	13949
75°	11766
80°	9955
85°	8511

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25118 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.9	8.5
10°-20°	298.9	12.4
20°-30°	273.4	11.4
30°-40°	285.9	11.9
40°-50°	318.3	13.2
50°-60°	318.1	13.2
60°-70°	272.7	11.3
70°-80°	205.9	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°	776.2	32.3
0°-40°	1062.1	44.2
0°-60°	1698.5	70.6
0°-90°	2319.4	96.4
90°-120°	85.9	3.6
90°-150°	85.9	3.6
90°-180°	86.0	3.6
0°-180°	2405.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2373	
5°	2317	204
15°	1044	299
25°	584	273
35°	454	286
45°	413	318
55°	357	318
65°	276	273
75°	193	206
85°	130	112
90°	102	57
95°	71	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°	2373.1
1°	2370.0
2°	2360.6
3°	2351.3
4°	2338.9
5°	2317.1
6°	2273.7
7°	2202.2
8°	2081.1
9°	1916.5
10°	1714.6
11°	1509.6
12°	1338.7
13°	1214.5
14°	1118.2
15°	1043.6
16°	975.3
17°	913.2
18°	857.3
19°	804.5
20°	761.0
21°	720.6
22°	683.3
23°	646.1
24°	611.9
25°	583.9
27.5°	524.9
30°	490.8
32.5°	469.0
35°	453.5
37.5°	441.1
40°	431.7
42.5°	422.4
45°	413.1
47.5°	400.7
50°	388.3
52.5°	372.7
55°	357.2
57.5°	338.6
60°	316.8
62.5°	295.1
65°	276.4
67.5°	254.7
70°	233.0
72.5°	214.3

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	192.6
77.5°	177.0
80°	158.4
82.5°	142.9
85°	130.5
87.5°	118.0
90°	102.5
92.5°	93.2
95°	71.4
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)