

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: P702159

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9030-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702159  
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-35-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**

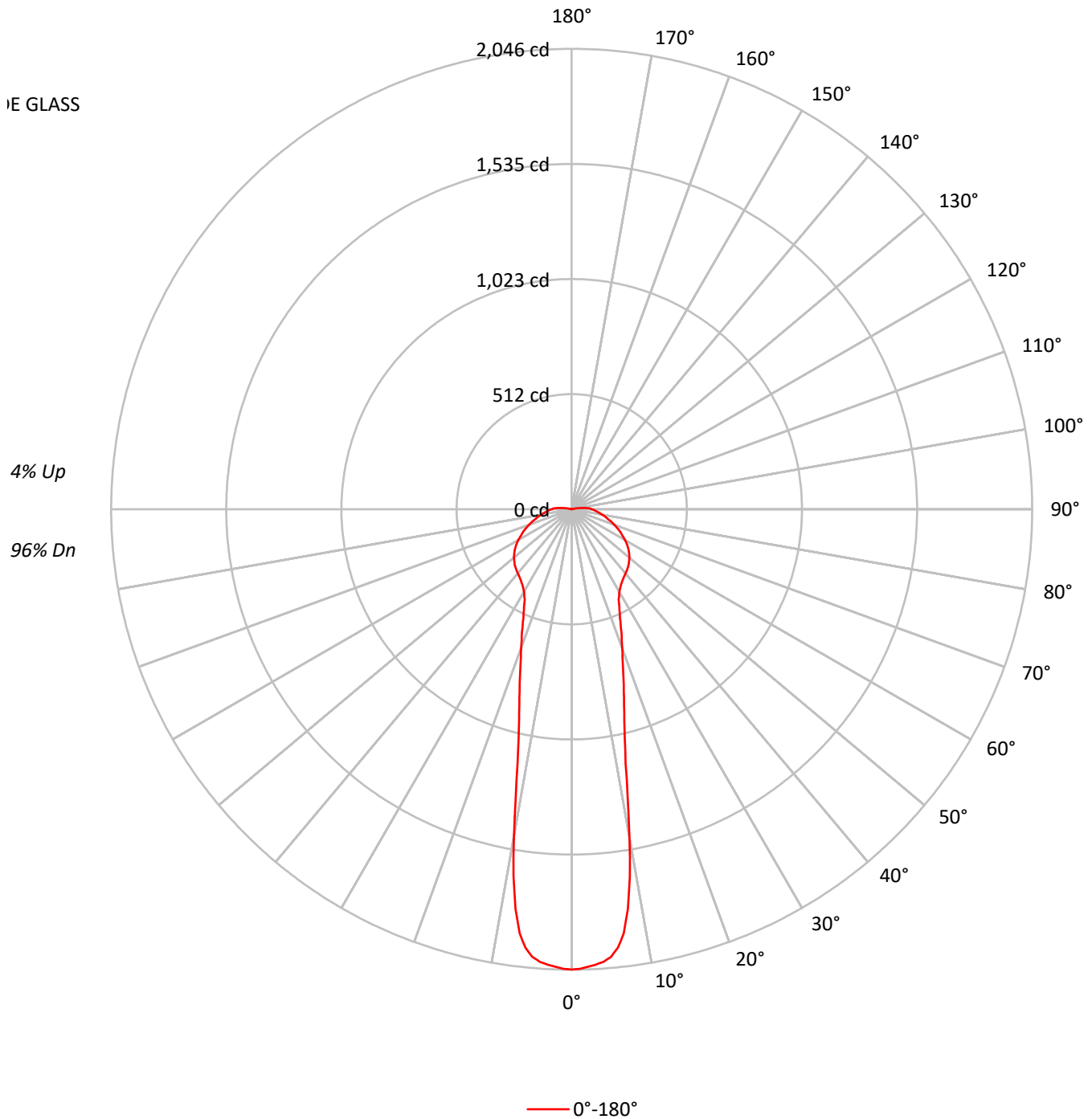
Lumens per Lamp: N/A  
Luminaire Lumens: 2073.5 lumens  
Efficiency: N/A  
Efficacy: 51.3 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 40.4  
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°	237255
5°	202477
10°	133966
15°	74246
20°	50045
25°	35957
30°	28609
35°	25288
40°	23243
45°	21652
50°	19976
55°	18181
60°	16077
65°	14093
70°	12022
75°	10141
80°	8585
85°	7337

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21652 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.7	8.5
10°-20°	257.7	12.4
20°-30°	235.7	11.4
30°-40°	246.4	11.9
40°-50°	274.3	13.2
50°-60°	274.2	13.2
60°-70°	235.1	11.3
70°-80°	177.5	8.6
80°-90°	122.7	5.9
90°-100°	65.1	3.1
100°-110°	9.0	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°	669.1	32.3
0°-40°	915.6	44.2
0°-60°	1464.1	70.6
0°-90°	1999.4	96.4
90°-120°	74.1	3.6
90°-150°	74.1	3.6
90°-180°	74.0	3.6
0°-180°	2073.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2046	
5°	1997	176
15°	900	258
25°	503	236
35°	391	246
45°	356	274
55°	308	274
65°	238	235
75°	166	177
85°	112	97
90°	88	49
95°	62	42
105°	5	9
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°	2045.6
1°	2042.9
2°	2034.9
3°	2026.9
4°	2016.2
5°	1997.4
6°	1959.9
7°	1898.4
8°	1793.9
9°	1652.0
10°	1478.0
11°	1301.3
12°	1154.0
13°	1046.9
14°	963.9
15°	899.6
16°	840.7
17°	787.2
18°	739.0
19°	693.5
20°	656.0
21°	621.2
22°	589.1
23°	556.9
24°	527.5
25°	503.4
27.5°	452.5
30°	423.0
32.5°	404.3
35°	390.9
37.5°	380.2
40°	372.2
42.5°	364.1
45°	356.1
47.5°	345.4
50°	334.7
52.5°	321.3
55°	307.9
57.5°	291.8
60°	273.1
62.5°	254.4
65°	238.3
67.5°	219.6
70°	200.8
72.5°	184.7

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	166.0
77.5°	152.6
80°	136.6
82.5°	123.2
85°	112.5
87.5°	101.7
90°	88.4
92.5°	80.3
95°	61.6
97.5°	40.2
100°	24.1
102.5°	13.4
105°	5.4
107.5°	2.7
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)