

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: P701941

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701941  
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-15-D010 / 340-EU4C-1020-9035-4LBW1LI-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**

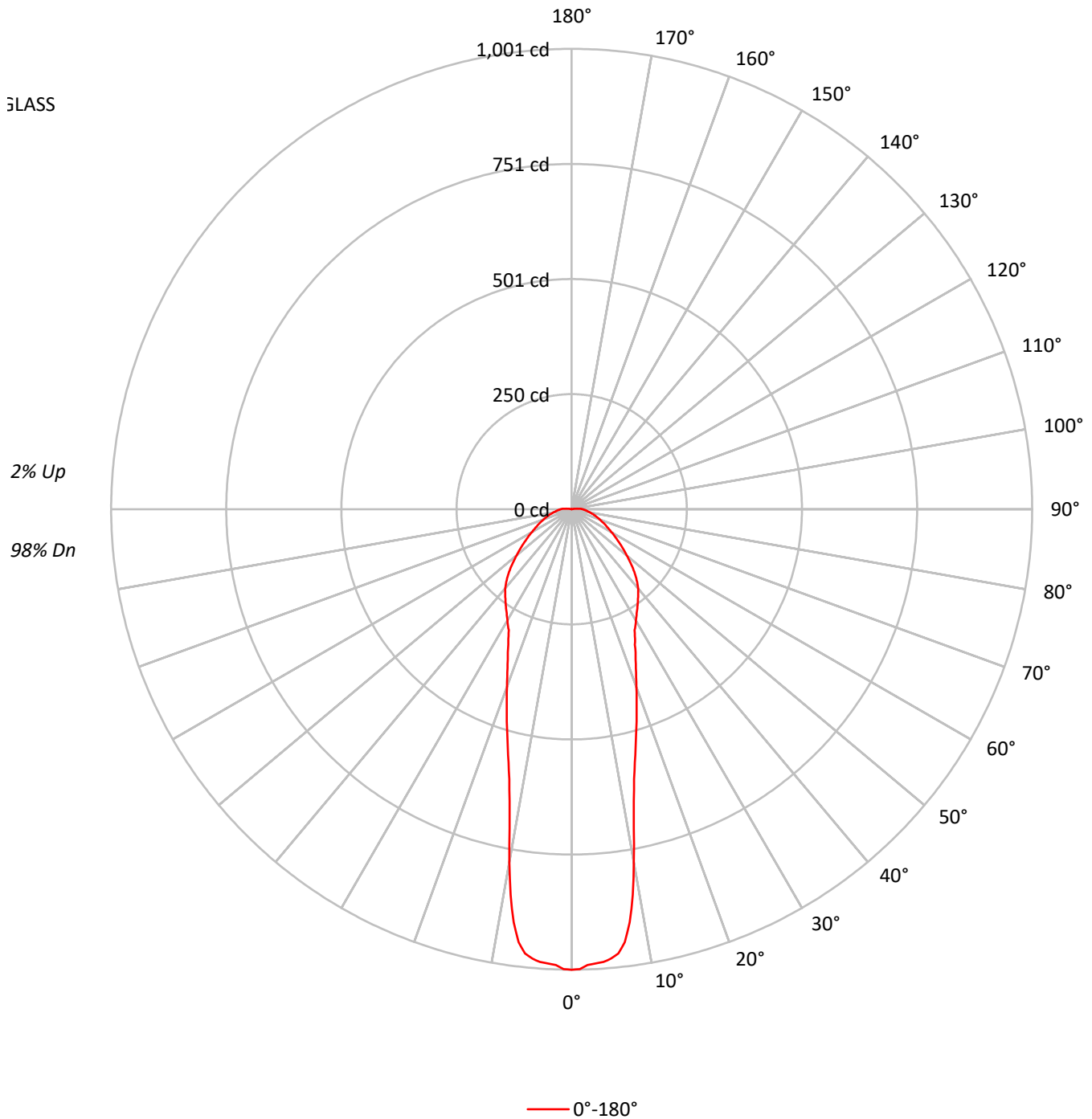
Lumens per Lamp: N/A  
Luminaire Lumens: 997.5 lumens  
Efficiency: N/A  
Efficacy: 63.1 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 15.8  
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	42	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°	116134
5°	99424
10°	70590
15°	44311
20°	31370
25°	23236
30°	18897
35°	16192
40°	14045
45°	11692
50°	9311
55°	7428
60°	5910
65°	4790
70°	3909
75°	3177
80°	2508
85°	2048

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11692 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.0	8.8
10°-20°	151.8	15.2
20°-30°	152.0	15.2
30°-40°	156.9	15.7
40°-50°	147.6	14.8
50°-60°	113.2	11.3
60°-70°	80.7	8.1
70°-80°	55.1	5.5
80°-90°	34.4	3.5
90°-100°	16.4	1.6
100°-110°	1.4	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°	391.9	39.3
0°-40°	548.7	55.0
0°-60°	809.5	81.2
0°-90°	979.7	98.2
90°-120°	17.8	1.8
90°-150°	17.8	1.8
90°-180°	18.0	1.8
0°-180°	997.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1001	
5°	981	88
15°	537	152
25°	325	152
35°	250	157
45°	192	148
55°	126	113
65°	81	81
75°	52	55
85°	31	27
90°	24	13
95°	14	10
105°	0	1
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°	1001.3
1°	1000.1
2°	991.7
3°	989.2
4°	986.8
5°	980.8
6°	971.1
7°	948.1
8°	907.0
9°	849.0
10°	778.8
11°	707.5
12°	648.2
13°	602.2
14°	567.2
15°	536.9
16°	507.9
17°	482.5
18°	457.1
19°	432.9
20°	411.2
21°	390.6
22°	372.5
23°	355.5
24°	341.0
25°	325.3
27.5°	296.3
30°	279.4
32.5°	263.6
35°	250.3
37.5°	237.0
40°	224.9
42.5°	209.2
45°	192.3
47.5°	174.1
50°	156.0
52.5°	140.3
55°	125.8
57.5°	112.5
60°	100.4
62.5°	89.5
65°	81.0
67.5°	72.6
70°	65.3
72.5°	58.0

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	52.0
77.5°	46.0
80°	39.9
82.5°	35.1
85°	31.4
87.5°	27.8
90°	24.2
92.5°	20.6
95°	14.5
97.5°	9.7
100°	6.0
102.5°	2.4
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)