

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: P701928

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701928  
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-15-D010 / 340-EU4C-1020-9027-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

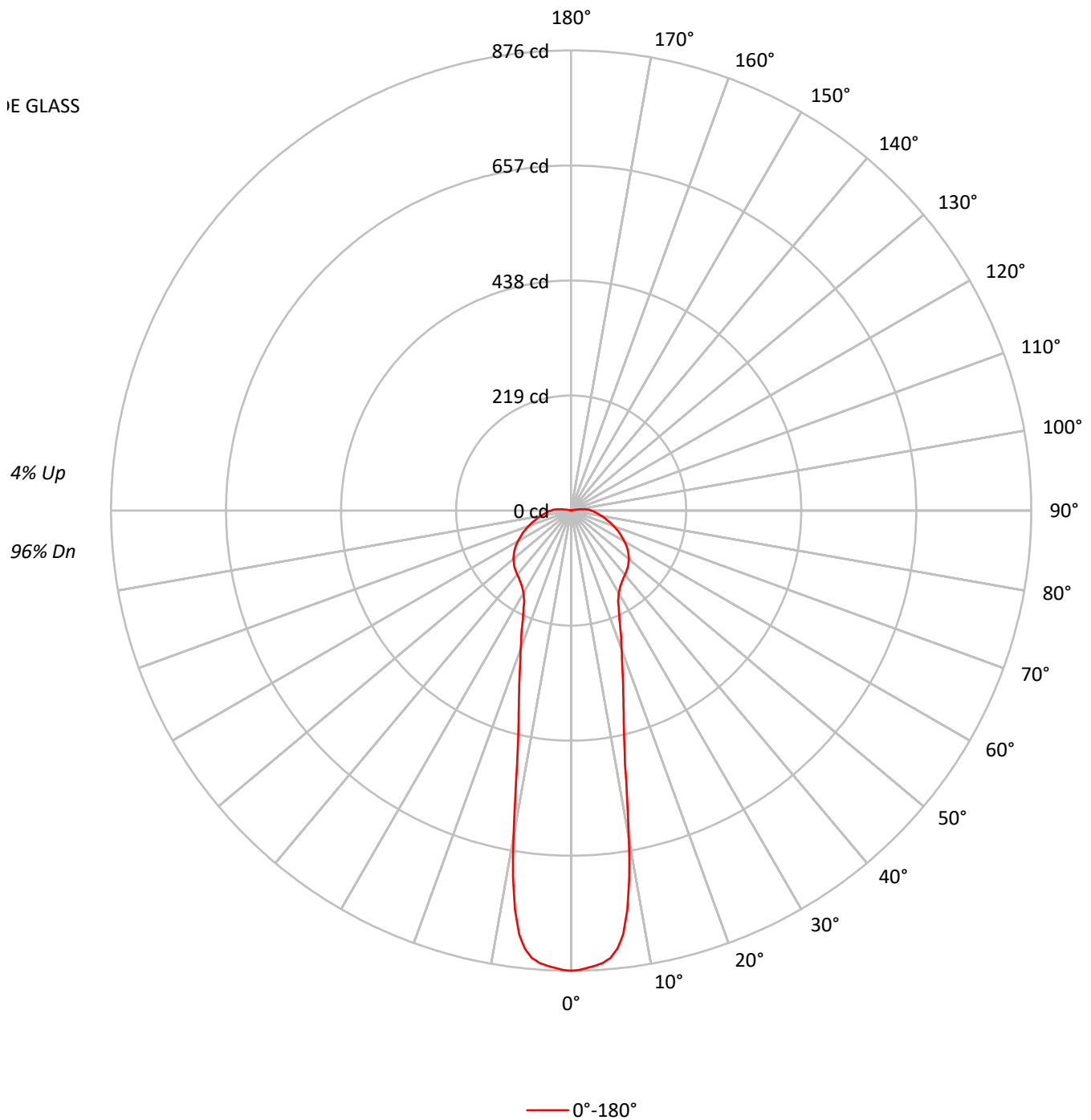
Lumens per Lamp: N/A  
Luminaire Lumens: 887.8 lumens  
Efficiency: N/A  
Efficacy: 56.2 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 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	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°	101590
5°	86702
10°	57366
15°	31791
20°	21429
25°	15393
30°	12249
35°	10829
40°	9954
45°	9272
50°	8553
55°	7783
60°	6882
65°	6032
70°	5149
75°	4343
80°	3677
85°	3144

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9272 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	8.5
10°-20°	110.3	12.4
20°-30°	100.9	11.4
30°-40°	105.5	11.9
40°-50°	117.5	13.2
50°-60°	117.4	13.2
60°-70°	100.6	11.3
70°-80°	76.0	8.6
80°-90°	52.5	5.9
90°-100°	27.9	3.1
100°-110°	3.8	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°	286.5	32.3
0°-40°	392.0	44.2
0°-60°	626.9	70.6
0°-90°	856.1	96.4
90°-120°	31.7	3.6
90°-150°	31.7	3.6
90°-180°	32.0	3.6
0°-180°	887.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	876	
5°	855	75
15°	385	110
25°	216	101
35°	167	106
45°	152	117
55°	132	117
65°	102	101
75°	71	76
85°	48	41
90°	38	21
95°	26	18
105°	2	4
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°	875.9
1°	874.8
2°	871.3
3°	867.9
4°	863.3
5°	855.3
6°	839.2
7°	812.8
8°	768.1
9°	707.4
10°	632.9
11°	557.2
12°	494.1
13°	448.3
14°	412.7
15°	385.2
16°	360.0
17°	337.1
18°	316.4
19°	296.9
20°	280.9
21°	266.0
22°	252.2
23°	238.5
24°	225.9
25°	215.5
27.5°	193.8
30°	181.1
32.5°	173.1
35°	167.4
37.5°	162.8
40°	159.4
42.5°	155.9
45°	152.5
47.5°	147.9
50°	143.3
52.5°	137.6
55°	131.8
57.5°	125.0
60°	116.9
62.5°	108.9
65°	102.0
67.5°	94.0
70°	86.0
72.5°	79.1

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	71.1
77.5°	65.3
80°	58.5
82.5°	52.7
85°	48.2
87.5°	43.6
90°	37.8
92.5°	34.4
95°	26.4
97.5°	17.2
100°	10.3
102.5°	5.7
105°	2.3
107.5°	1.1
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)