

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: P701998

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701998  
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-20-D010 / 340-EU4C-1020-9035-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

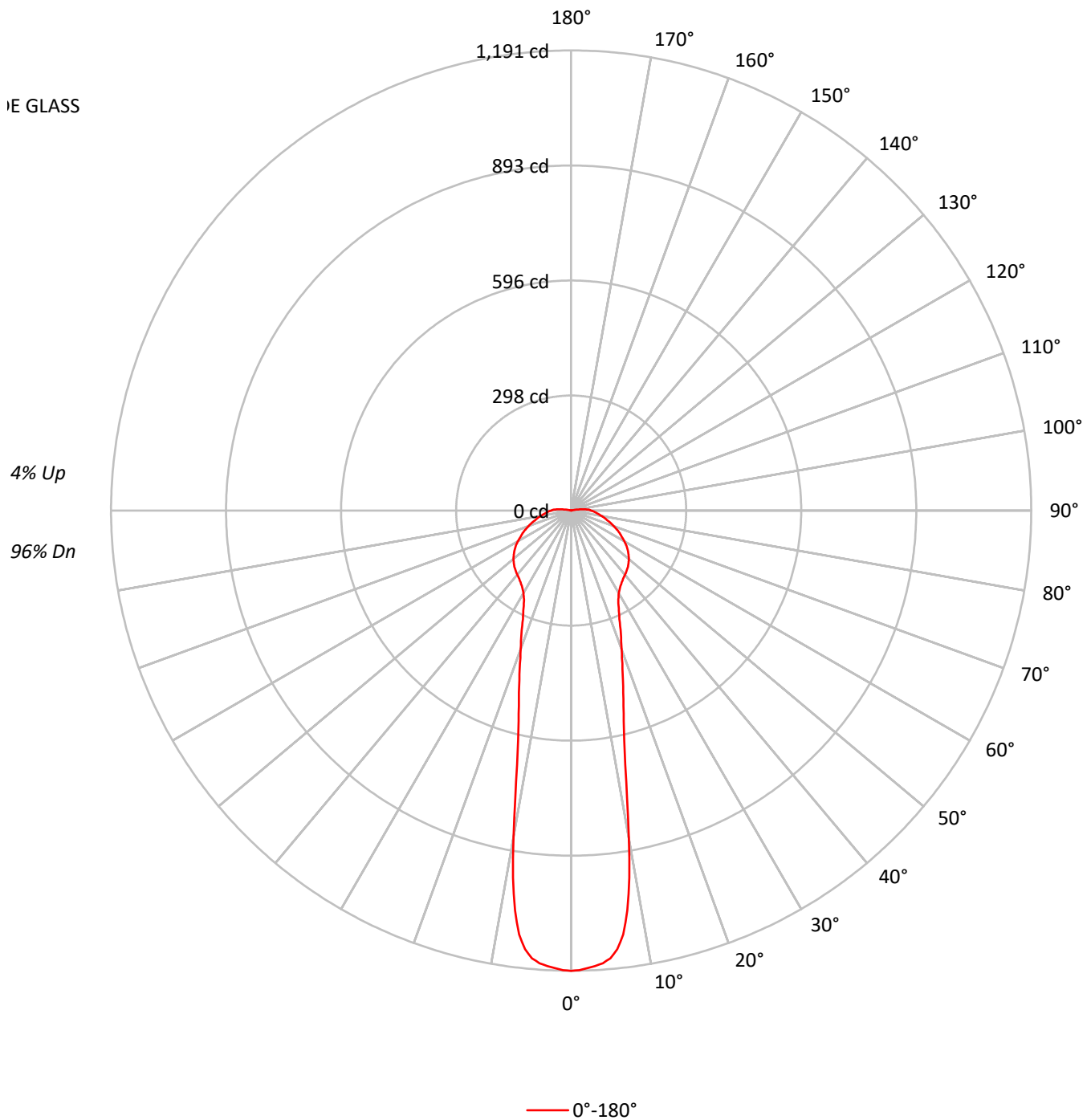
Lumens per Lamp: N/A  
Luminaire Lumens: 1207.7 lumens  
Efficiency: N/A  
Efficacy: 55.4 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 21.8  
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°	138182
5°	117934
10°	78023
15°	43247
20°	29150
25°	20943
30°	16665
35°	14730
40°	13539
45°	12611
50°	11633
55°	10587
60°	9366
65°	8208
70°	7005
75°	5907
80°	4996
85°	4272

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12611 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	8.5
10°-20°	150.1	12.4
20°-30°	137.3	11.4
30°-40°	143.5	11.9
40°-50°	159.8	13.2
50°-60°	159.7	13.2
60°-70°	136.9	11.3
70°-80°	103.4	8.6
80°-90°	71.4	5.9
90°-100°	37.9	3.1
100°-110°	5.2	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°	389.7	32.3
0°-40°	533.3	44.2
0°-60°	852.8	70.6
0°-90°	1164.5	96.4
90°-120°	43.1	3.6
90°-150°	43.1	3.6
90°-180°	43.0	3.6
0°-180°	1207.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1191	
5°	1163	102
15°	524	150
25°	293	137
35°	228	144
45°	207	160
55°	179	160
65°	139	137
75°	97	103
85°	66	56
90°	52	29
95°	36	24
105°	3	5
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°	1191.4
1°	1189.9
2°	1185.2
3°	1180.5
4°	1174.3
5°	1163.4
6°	1141.5
7°	1105.7
8°	1044.8
9°	962.2
10°	860.8
11°	757.9
12°	672.1
13°	609.8
14°	561.4
15°	524.0
16°	489.7
17°	458.5
18°	430.4
19°	403.9
20°	382.1
21°	361.8
22°	343.1
23°	324.4
24°	307.2
25°	293.2
27.5°	263.6
30°	246.4
32.5°	235.5
35°	227.7
37.5°	221.4
40°	216.8
42.5°	212.1
45°	207.4
47.5°	201.2
50°	194.9
52.5°	187.1
55°	179.3
57.5°	170.0
60°	159.1
62.5°	148.1
65°	138.8
67.5°	127.9
70°	117.0
72.5°	107.6

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	96.7
77.5°	88.9
80°	79.5
82.5°	71.7
85°	65.5
87.5°	59.3
90°	51.5
92.5°	46.8
95°	35.9
97.5°	23.4
100°	14.0
102.5°	7.8
105°	3.1
107.5°	1.6
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)