

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: P701818

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9030-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701818  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-08-D010 / 340-EU4C-1020-9030-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

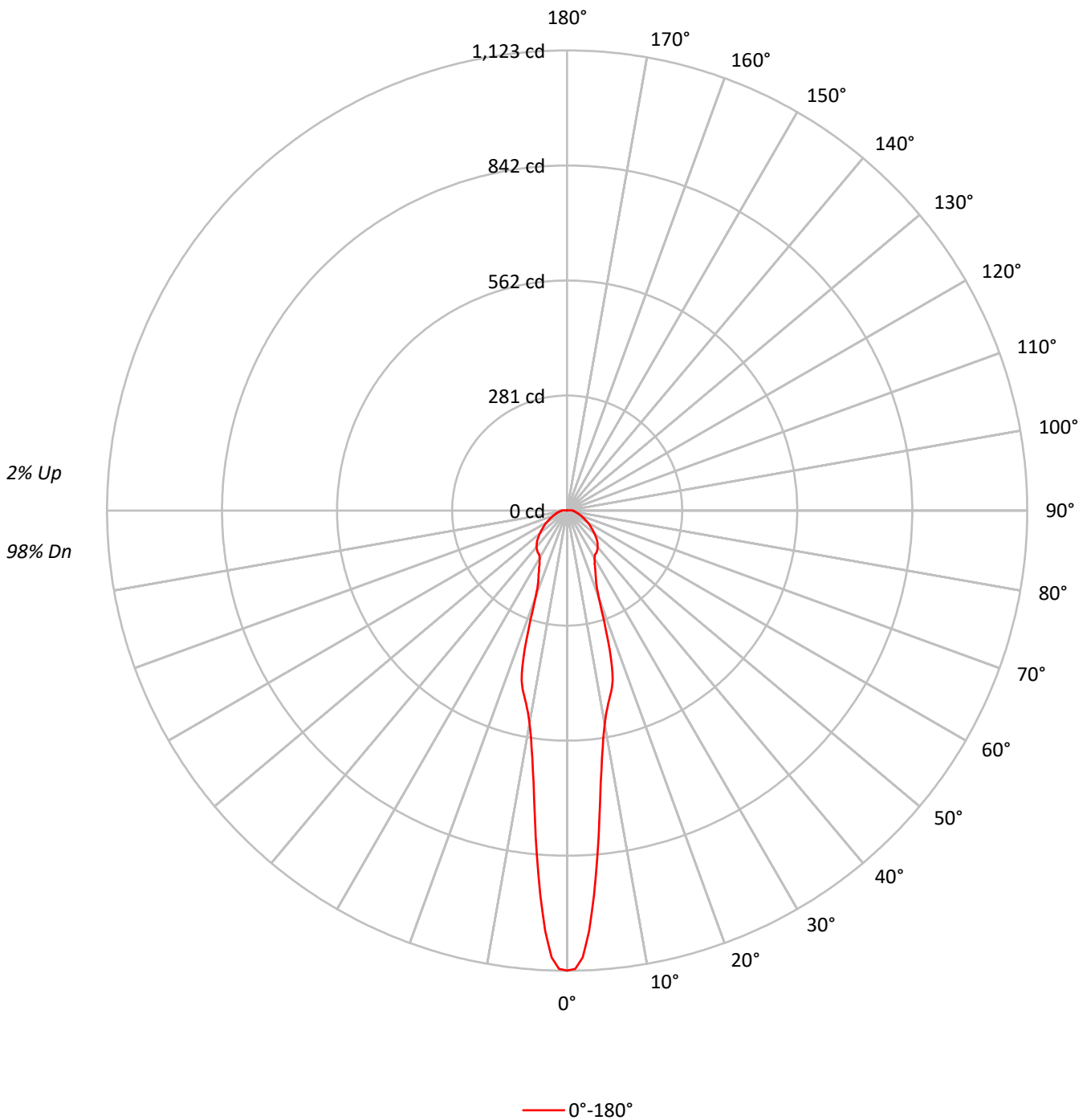
Lumens per Lamp: N/A  
Luminaire Lumens: 581.2 lumens  
Efficiency: N/A  
Efficacy: 58.7 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 9.9  
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	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	130214
5°	85942
10°	47804
15°	35406
20°	17089
25°	11636
30°	9043
35°	8080
40°	7250
45°	6275
50°	5187
55°	4210
60°	3397
65°	2691
70°	2113
75°	1698
80°	1364
85°	1109

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 6275 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.4	11.9
10°-20°	109.5	18.8
20°-30°	76.1	13.1
30°-40°	77.9	13.4
40°-50°	79.0	13.6
50°-60°	64.1	11.0
60°-70°	45.2	7.8
70°-80°	29.5	5.1
80°-90°	18.6	3.2
90°-100°	10.0	1.7
100°-110°	1.9	0.3
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°	254.9	43.9
0°-40°	332.8	57.3
0°-60°	475.9	81.9
0°-90°	569.3	97.9
90°-120°	11.9	2.1
90°-150°	11.9	2.1
90°-180°	12.0	2.1
0°-180°	581.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1123	
5°	848	69
15°	429	109
25°	163	76
35°	125	78
45°	103	79
55°	71	64
65°	46	45
75°	28	30
85°	17	15
90°	13	7
95°	10	7
105°	1	2
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°	1122.7
1°	1118.7
2°	1090.8
3°	1027.0
4°	940.8
5°	847.8
6°	754.1
7°	670.0
8°	609.6
9°	562.0
10°	527.4
11°	502.3
12°	481.9
13°	465.0
14°	448.7
15°	429.0
16°	397.8
17°	355.0
18°	306.1
19°	259.3
20°	224.0
21°	202.3
22°	188.0
23°	179.2
24°	171.1
25°	162.9
27.5°	145.3
30°	133.7
32.5°	126.9
35°	124.9
37.5°	120.8
40°	116.1
42.5°	110.0
45°	103.2
47.5°	95.0
50°	86.9
52.5°	78.7
55°	71.3
57.5°	64.5
60°	57.7
62.5°	50.9
65°	45.5
67.5°	40.0
70°	35.3
72.5°	31.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	27.8
77.5°	24.4
80°	21.7
82.5°	19.0
85°	17.0
87.5°	14.9
90°	12.9
92.5°	11.5
95°	9.5
97.5°	6.8
100°	4.8
102.5°	2.7
105°	1.4
107.5°	0.7
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)