

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: P701762

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701762  
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-05-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**

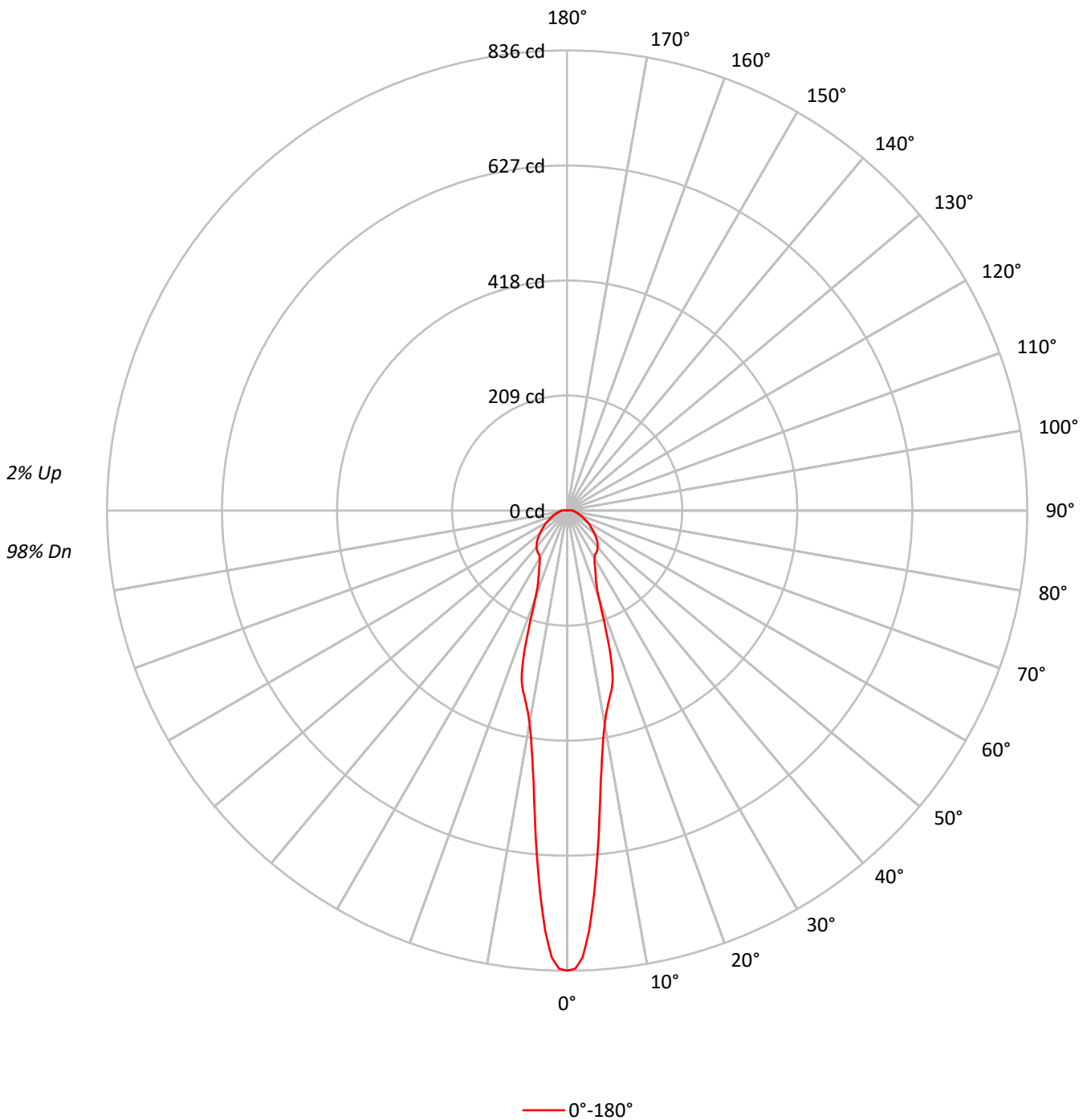
Lumens per Lamp: N/A  
Luminaire Lumens: 432.6 lumens  
Efficiency: N/A  
Efficacy: 60.1 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 7.2  
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°	96916
5°	63965
10°	35585
15°	26352
20°	12717
25°	8664
30°	6730
35°	6016
40°	5396
45°	4670
50°	3862
55°	3130
60°	2525
65°	1999
70°	1575
75°	1265
80°	1018
85°	822

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4670 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	11.9
10°-20°	81.5	18.8
20°-30°	56.6	13.1
30°-40°	58.0	13.4
40°-50°	58.8	13.6
50°-60°	47.7	11.0
60°-70°	33.7	7.8
70°-80°	22.0	5.1
80°-90°	13.8	3.2
90°-100°	7.5	1.7
100°-110°	1.4	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°	189.7	43.9
0°-40°	247.7	57.3
0°-60°	354.2	81.9
0°-90°	423.7	97.9
90°-120°	8.9	2.1
90°-150°	8.9	2.1
90°-180°	9.0	2.1
0°-180°	432.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	836	
5°	631	52
15°	319	81
25°	121	57
35°	93	58
45°	77	59
55°	53	48
65°	34	34
75°	21	22
85°	13	11
90°	10	5
95°	7	5
105°	1	1
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°	835.6
1°	832.6
2°	811.9
3°	764.4
4°	700.2
5°	631.0
6°	561.3
7°	498.7
8°	453.7
9°	418.3
10°	392.6
11°	373.9
12°	358.7
13°	346.1
14°	334.0
15°	319.3
16°	296.1
17°	264.2
18°	227.9
19°	193.0
20°	166.7
21°	150.6
22°	139.9
23°	133.4
24°	127.3
25°	121.3
27.5°	108.1
30°	99.5
32.5°	94.5
35°	93.0
37.5°	89.9
40°	86.4
42.5°	81.8
45°	76.8
47.5°	70.7
50°	64.7
52.5°	58.6
55°	53.0
57.5°	48.0
60°	42.9
62.5°	37.9
65°	33.8
67.5°	29.8
70°	26.3
72.5°	23.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	20.7
77.5°	18.2
80°	16.2
82.5°	14.1
85°	12.6
87.5°	11.1
90°	9.6
92.5°	8.6
95°	7.1
97.5°	5.1
100°	3.5
102.5°	2.0
105°	1.0
107.5°	0.5
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)