

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: P701783

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9050-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701783  
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-1020-9050-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

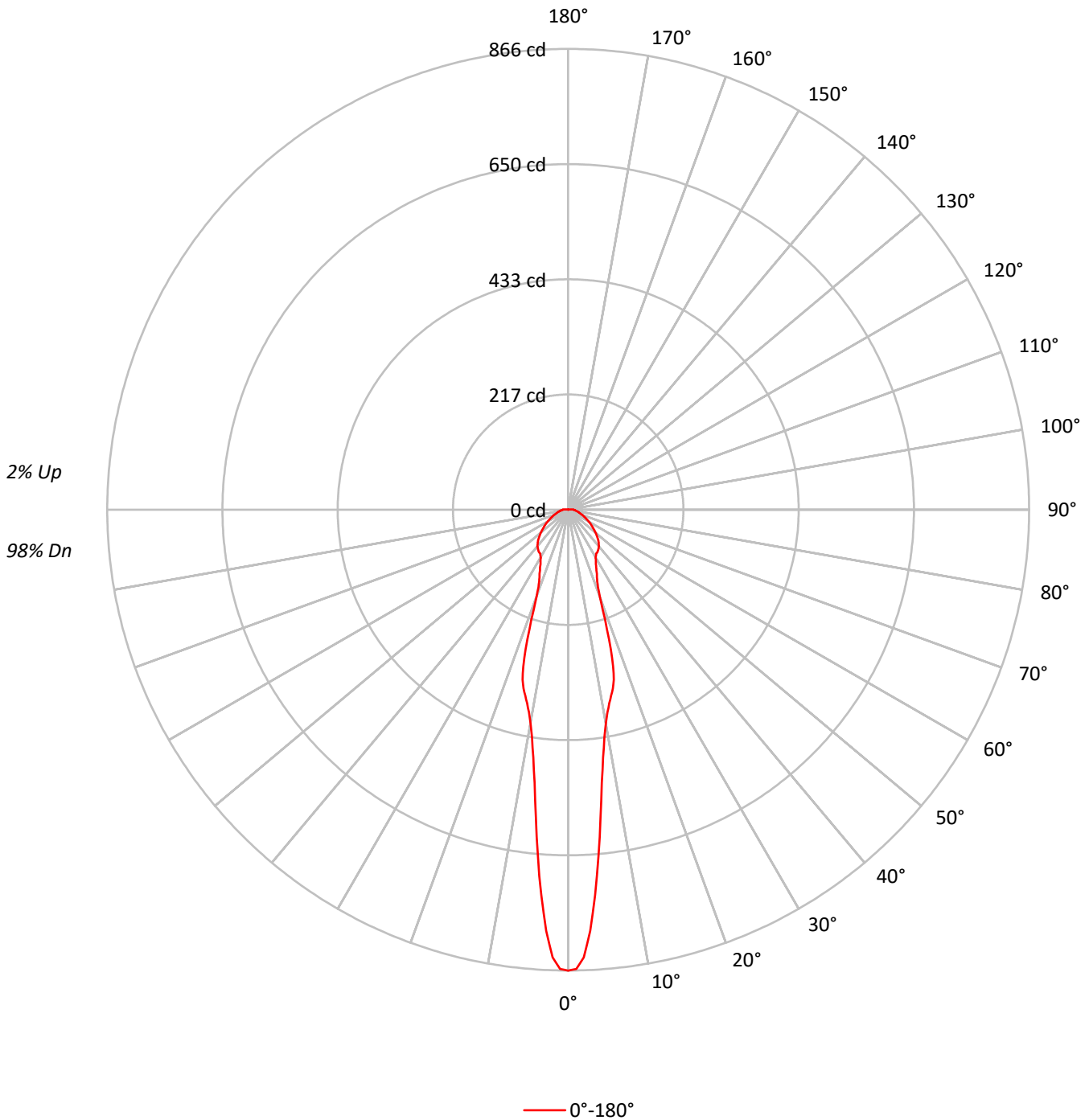
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 448.5 lumens  
Efficiency: N/A  
Efficacy: 62.3 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°	100476
5°	66316
10°	36890
15°	27318
20°	13183
25°	8979
30°	6980
35°	6236
40°	5595
45°	4840
50°	3999
55°	3248
60°	2620
65°	2076
70°	1628
75°	1313
80°	1056
85°	854

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4840 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.5	11.9
10°-20°	84.5	18.8
20°-30°	58.7	13.1
30°-40°	60.1	13.4
40°-50°	60.9	13.6
50°-60°	49.5	11.0
60°-70°	34.9	7.8
70°-80°	22.8	5.1
80°-90°	14.4	3.2
90°-100°	7.7	1.7
100°-110°	1.5	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°	196.7	43.8
0°-40°	256.8	57.3
0°-60°	367.2	81.9
0°-90°	439.3	98.0
90°-120°	9.2	2.0
90°-150°	9.2	2.0
90°-180°	9.0	2.0
0°-180°	448.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	866	
5°	654	54
15°	331	84
25°	126	59
35°	96	60
45°	80	61
55°	55	49
65°	35	35
75°	22	23
85°	13	11
90°	10	6
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	0

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	866.3
1°	863.2
2°	841.7
3°	792.4
4°	725.9
5°	654.2
6°	581.9
7°	517.0
8°	470.3
9°	433.7
10°	407.0
11°	387.6
12°	371.9
13°	358.8
14°	346.2
15°	331.0
16°	306.9
17°	273.9
18°	236.2
19°	200.1
20°	172.8
21°	156.1
22°	145.1
23°	138.3
24°	132.0
25°	125.7
27.5°	112.1
30°	103.2
32.5°	97.9
35°	96.4
37.5°	93.2
40°	89.6
42.5°	84.8
45°	79.6
47.5°	73.3
50°	67.0
52.5°	60.8
55°	55.0
57.5°	49.8
60°	44.5
62.5°	39.3
65°	35.1
67.5°	30.9
70°	27.2
72.5°	24.1

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	21.5
77.5°	18.9
80°	16.8
82.5°	14.7
85°	13.1
87.5°	11.5
90°	10.0
92.5°	8.9
95°	7.3
97.5°	5.2
100°	3.7
102.5°	2.1
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)