

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: P701748

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701748  
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-1020-9024-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

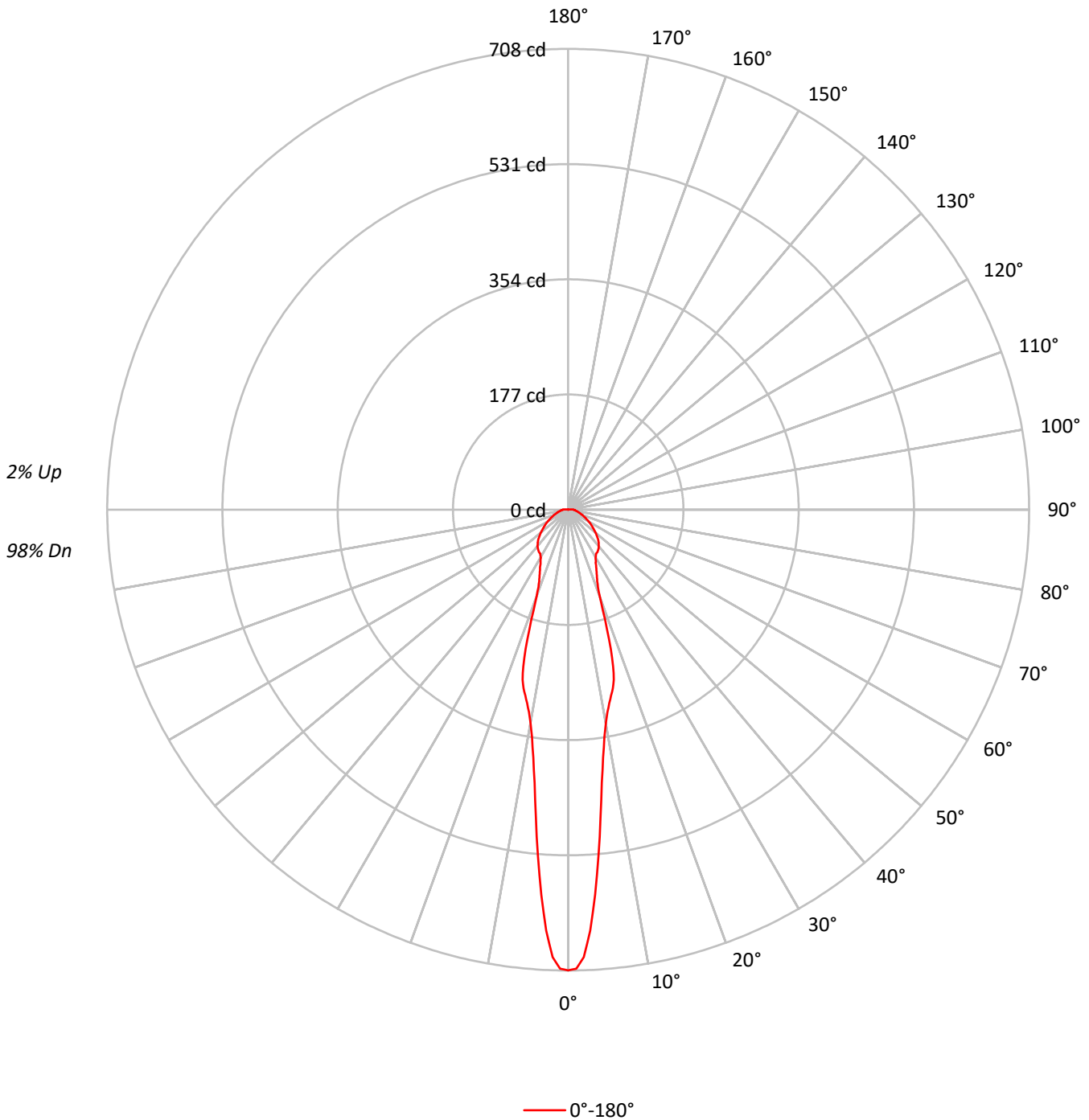
Lumens per Lamp: N/A  
Luminaire Lumens: 366.4 lumens  
Efficiency: N/A  
Efficacy: 50.9 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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°	82093
5°	54182
10°	30138
15°	22325
20°	10772
25°	7336
30°	5702
35°	5091
40°	4571
45°	3952
50°	3271
55°	2651
60°	2143
65°	1697
70°	1335
75°	1069
80°	861
85°	698

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3952 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	11.9
10°-20°	69.0	18.8
20°-30°	48.0	13.1
30°-40°	49.1	13.4
40°-50°	49.8	13.6
50°-60°	40.4	11.0
60°-70°	28.5	7.8
70°-80°	18.6	5.1
80°-90°	11.7	3.2
90°-100°	6.3	1.7
100°-110°	1.2	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°	160.7	43.9
0°-40°	209.8	57.3
0°-60°	300.0	81.9
0°-90°	358.9	97.9
90°-120°	7.5	2.1
90°-150°	7.5	2.1
90°-180°	8.0	2.2
0°-180°	366.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	708	
5°	534	44
15°	270	69
25°	103	48
35°	79	49
45°	65	50
55°	45	40
65°	29	29
75°	18	19
85°	11	9
90°	8	5
95°	6	4
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°	707.8
1°	705.3
2°	687.7
3°	647.5
4°	593.1
5°	534.5
6°	475.4
7°	422.4
8°	384.3
9°	354.3
10°	332.5
11°	316.7
12°	303.8
13°	293.1
14°	282.9
15°	270.5
16°	250.8
17°	223.8
18°	193.0
19°	163.5
20°	141.2
21°	127.5
22°	118.5
23°	113.0
24°	107.8
25°	102.7
27.5°	91.6
30°	84.3
32.5°	80.0
35°	78.7
37.5°	76.2
40°	73.2
42.5°	69.3
45°	65.0
47.5°	59.9
50°	54.8
52.5°	49.6
55°	44.9
57.5°	40.7
60°	36.4
62.5°	32.1
65°	28.7
67.5°	25.2
70°	22.3
72.5°	19.7

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	17.5
77.5°	15.4
80°	13.7
82.5°	12.0
85°	10.7
87.5°	9.4
90°	8.1
92.5°	7.3
95°	6.0
97.5°	4.3
100°	3.0
102.5°	1.7
105°	0.9
107.5°	0.4
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)