

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: P702217

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702217  
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-40-D010 / 340-EU4C-3040-9035-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

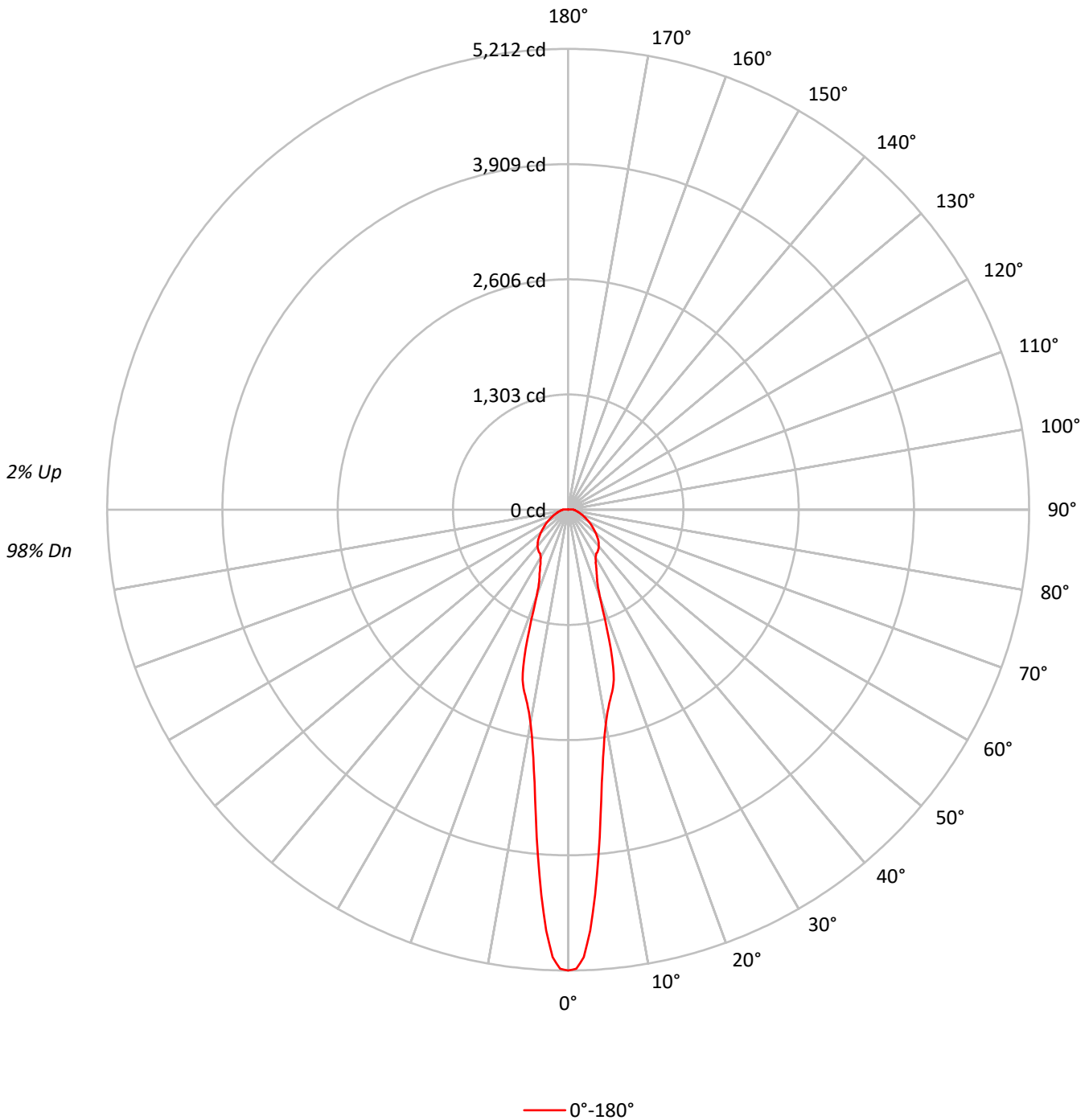
Lumens per Lamp: N/A  
Luminaire Lumens: 2698.0 lumens  
Efficiency: N/A  
Efficacy: 57.4 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 47  
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°	604458
5°	398942
10°	221914
15°	164354
20°	79325
25°	54014
30°	41981
35°	37508
40°	33647
45°	29118
50°	24071
55°	19533
60°	15765
65°	12484
70°	9807
75°	7893
80°	6335
85°	5139

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29118 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.0	11.9
10°-20°	508.1	18.8
20°-30°	353.1	13.1
30°-40°	361.9	13.4
40°-50°	366.7	13.6
50°-60°	297.4	11.0
60°-70°	210.1	7.8
70°-80°	137.2	5.1
80°-90°	86.3	3.2
90°-100°	46.5	1.7
100°-110°	8.8	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°	1183.1	43.9
0°-40°	1544.9	57.3
0°-60°	2209.1	81.9
0°-90°	2642.7	97.9
90°-120°	55.3	2.1
90°-150°	55.3	2.1
90°-180°	55.0	2.0
0°-180°	2698.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	5212	
5°	3936	322
15°	1991	508
25°	756	353
35°	580	362
45°	479	367
55°	331	297
65°	211	210
75°	129	137
85°	79	69
90°	60	33
95°	44	31
105°	6	9
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°	5211.6
1°	5192.7
2°	5063.5
3°	4767.3
4°	4367.2
5°	3935.5
6°	3500.7
7°	3109.9
8°	2829.5
9°	2608.9
10°	2448.3
11°	2331.7
12°	2237.1
13°	2158.4
14°	2082.7
15°	1991.4
16°	1846.4
17°	1647.9
18°	1421.1
19°	1203.6
20°	1039.8
21°	939.0
22°	872.8
23°	831.8
24°	794.0
25°	756.2
27.5°	674.3
30°	620.7
32.5°	589.2
35°	579.8
37.5°	560.9
40°	538.8
42.5°	510.4
45°	478.9
47.5°	441.1
50°	403.3
52.5°	365.5
55°	330.8
57.5°	299.3
60°	267.8
62.5°	236.3
65°	211.1
67.5°	185.9
70°	163.8
72.5°	144.9

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	129.2
77.5°	113.4
80°	100.8
82.5°	88.2
85°	78.8
87.5°	69.3
90°	59.9
92.5°	53.6
95°	44.1
97.5°	31.5
100°	22.1
102.5°	12.6
105°	6.3
107.5°	3.2
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)