

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: P702225

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9040-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

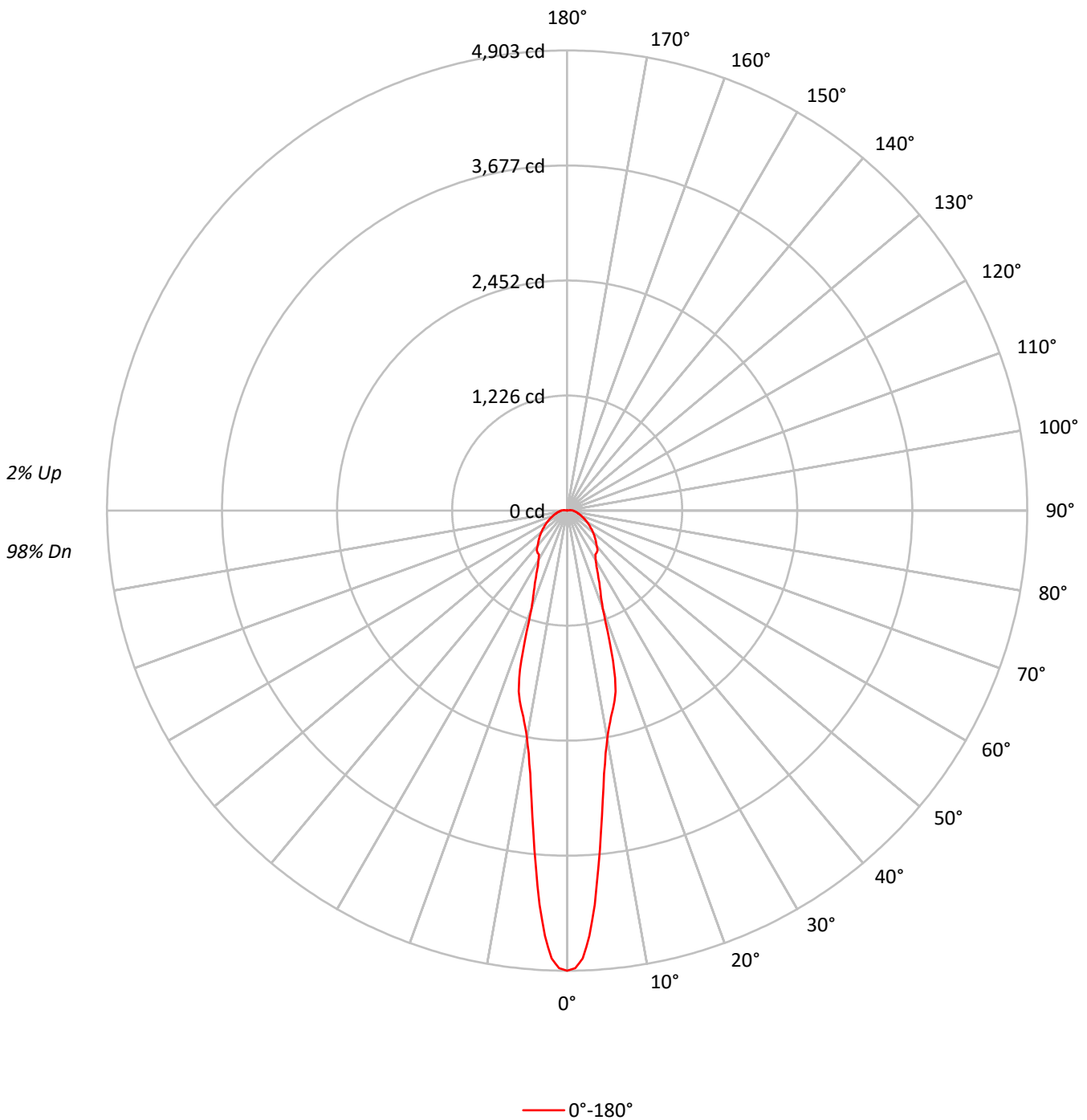
Lumens per Lamp: N/A  
Luminaire Lumens: 2612.7 lumens  
Efficiency: N/A  
Efficacy: 55.6 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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	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	99	92	87	82	88	84	80	85	81	78	81	78	76	74				
3	94	85	78	72	92	83	77	72	80	75	70	77	73	69	75	71	67	65				
4	88	78	70	64	86	76	69	64	74	68	63	71	66	62	69	64	61	59				
5	82	71	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55	53				
6	77	66	58	53	76	65	58	53	63	57	52	61	56	52	60	55	51	49				
7	73	62	54	49	71	61	54	49	59	53	48	58	52	48	56	51	47	45				
8	69	58	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42				
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	50	45	41	40				
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	37				

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

	0°
0°	568642
5°	386981
10°	223056
15°	164561
20°	84718
25°	56336
30°	41183
35°	35515
40°	30537
45°	25707
50°	21469
55°	17697
60°	14488
65°	11757
70°	9441
75°	7709
80°	6347
85°	5146

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25707 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	316.1	12.1
10°-20°	514.6	19.7
20°-30°	368.2	14.1
30°-40°	342.7	13.1
40°-50°	326.4	12.5
50°-60°	268.6	10.3
60°-70°	197.5	7.6
70°-80°	135.0	5.2
80°-90°	86.9	3.3
90°-100°	47.8	1.8
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°	1199.0	45.9
0°-40°	1541.7	59.0
0°-60°	2136.7	81.8
0°-90°	2556.0	97.8
90°-120°	56.7	2.2
90°-150°	56.7	2.2
90°-180°	57.0	2.2
0°-180°	2612.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4903	
5°	3818	316
15°	1994	515
25°	789	368
35°	549	343
45°	423	326
55°	300	269
65°	199	198
75°	126	135
85°	79	69
90°	63	35
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°	4902.8
1°	4877.6
2°	4773.5
3°	4536.8
4°	4208.7
5°	3817.5
6°	3445.2
7°	3110.8
8°	2830.0
9°	2618.6
10°	2460.9
11°	2344.1
12°	2246.3
13°	2167.5
14°	2088.6
15°	1993.9
16°	1855.1
17°	1672.1
18°	1457.6
19°	1258.8
20°	1110.5
21°	1019.1
22°	952.8
23°	896.0
24°	842.4
25°	788.7
27.5°	678.3
30°	608.9
32.5°	558.4
35°	549.0
37.5°	533.2
40°	489.0
42.5°	454.3
45°	422.8
47.5°	391.2
50°	359.7
52.5°	328.1
55°	299.7
57.5°	271.3
60°	246.1
62.5°	220.8
65°	198.8
67.5°	176.7
70°	157.7
72.5°	142.0

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	126.2
77.5°	113.6
80°	101.0
82.5°	88.3
85°	78.9
87.5°	69.4
90°	63.1
92.5°	56.8
95°	44.2
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)