

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: P702050

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702050  
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-25-D010 / 340-EU4C-3040-9035-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

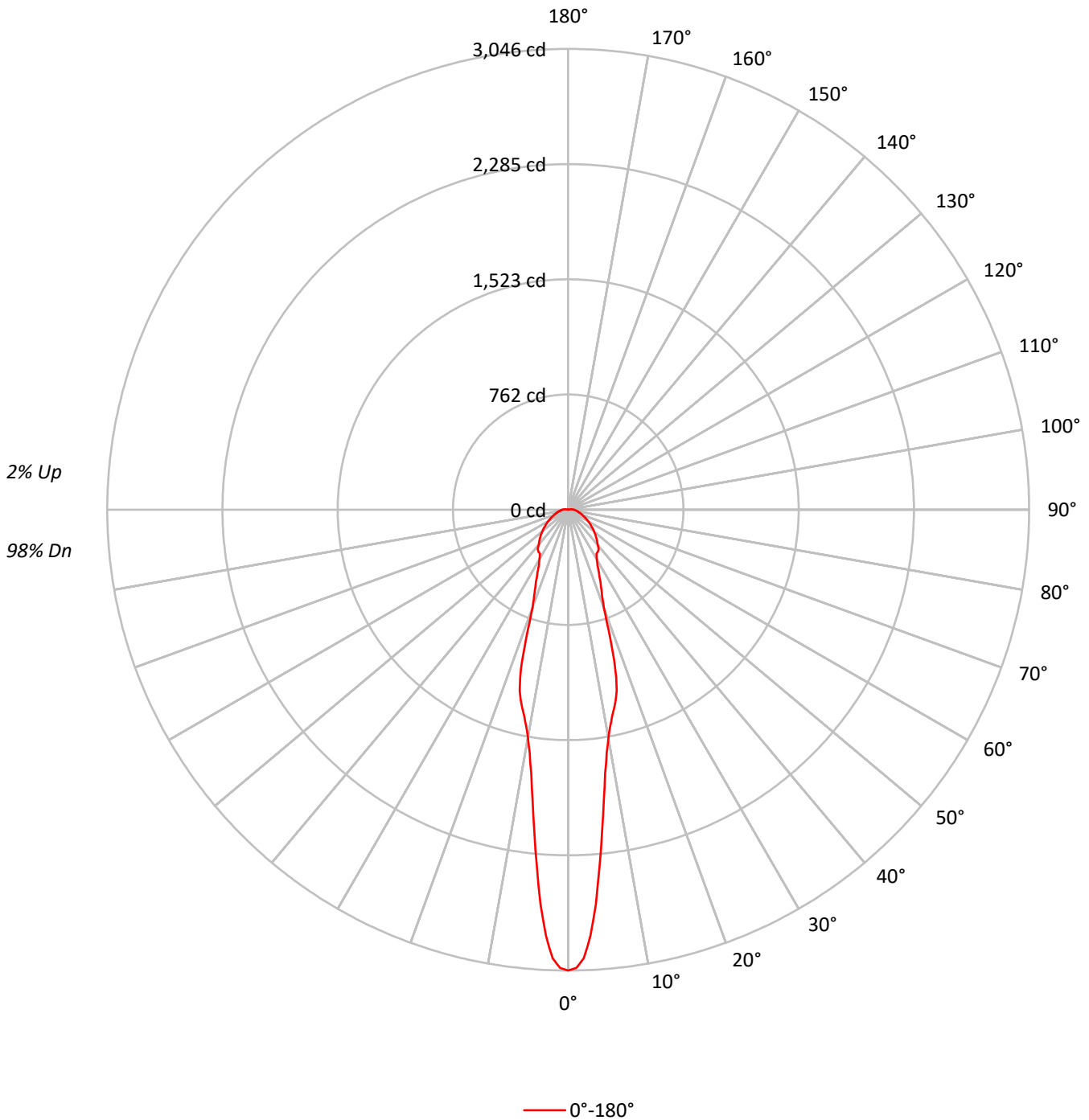
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1623.1 lumens  
Efficiency: N/A  
Efficacy: 51.5 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): 31.5  
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°	353262
5°	240399
10°	138571
15°	102232
20°	52631
25°	35000
30°	25586
35°	22060
40°	18972
45°	15967
50°	13334
55°	10995
60°	9001
65°	7304
70°	5867
75°	4789
80°	3940
85°	3196

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15967 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.4	12.1
10°-20°	319.7	19.7
20°-30°	228.7	14.1
30°-40°	212.9	13.1
40°-50°	202.7	12.5
50°-60°	166.9	10.3
60°-70°	122.7	7.6
70°-80°	83.8	5.2
80°-90°	54.0	3.3
90°-100°	29.7	1.8
100°-110°	5.5	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°	744.8	45.9
0°-40°	957.7	59.0
0°-60°	1327.4	81.8
0°-90°	1587.9	97.8
90°-120°	35.2	2.2
90°-150°	35.2	2.2
90°-180°	35.0	2.2
0°-180°	1623.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3046	
5°	2372	196
15°	1239	320
25°	490	229
35°	341	213
45°	263	203
55°	186	167
65°	124	123
75°	78	84
85°	49	43
90°	39	21
95°	27	19
105°	4	5
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°	3045.8
1°	3030.1
2°	2965.4
3°	2818.4
4°	2614.6
5°	2371.5
6°	2140.3
7°	1932.5
8°	1758.1
9°	1626.8
10°	1528.8
11°	1456.2
12°	1395.5
13°	1346.5
14°	1297.5
15°	1238.7
16°	1152.4
17°	1038.8
18°	905.5
19°	782.0
20°	689.9
21°	633.1
22°	591.9
23°	556.6
24°	523.3
25°	490.0
27.5°	421.4
30°	378.3
32.5°	346.9
35°	341.0
37.5°	331.2
40°	303.8
42.5°	282.2
45°	262.6
47.5°	243.0
50°	223.4
52.5°	203.8
55°	186.2
57.5°	168.6
60°	152.9
62.5°	137.2
65°	123.5
67.5°	109.8
70°	98.0
72.5°	88.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	78.4
77.5°	70.6
80°	62.7
82.5°	54.9
85°	49.0
87.5°	43.1
90°	39.2
92.5°	35.3
95°	27.4
97.5°	19.6
100°	13.7
102.5°	7.8
105°	3.9
107.5°	2.0
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)