

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: P702064

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702064  
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-3040-9050-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

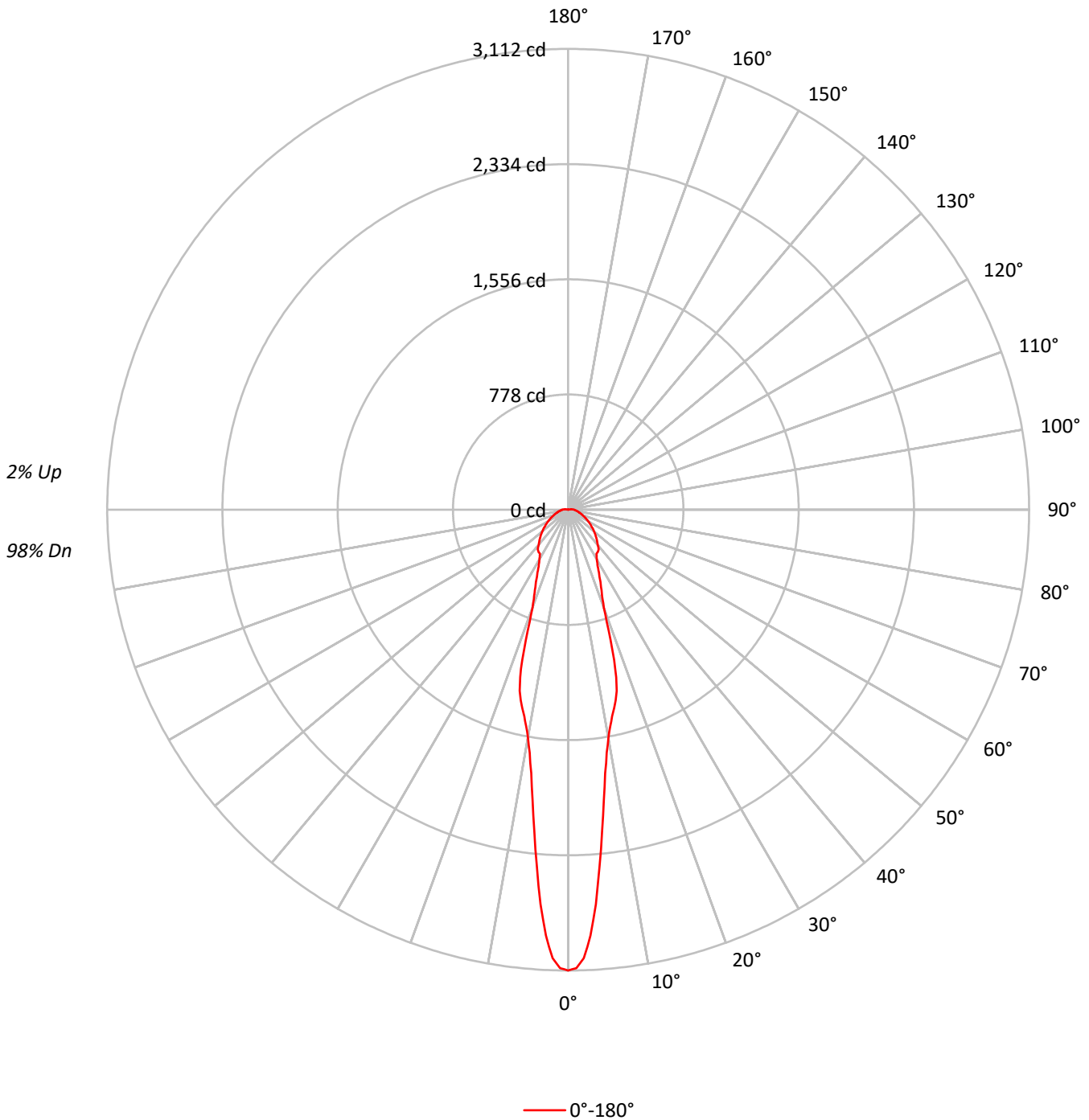
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1658.5 lumens  
Efficiency: N/A  
Efficacy: 52.6 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): 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	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°	360951
5°	245640
10°	141589
15°	104461
20°	53776
25°	35764
30°	26141
35°	22545
40°	19384
45°	16319
50°	13626
55°	11237
60°	9195
65°	7463
70°	5993
75°	4893
80°	4028
85°	3268

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16319 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	200.7	12.1
10°-20°	326.7	19.7
20°-30°	233.7	14.1
30°-40°	217.6	13.1
40°-50°	207.2	12.5
50°-60°	170.5	10.3
60°-70°	125.4	7.6
70°-80°	85.7	5.2
80°-90°	55.2	3.3
90°-100°	30.3	1.8
100°-110°	5.6	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°	761.1	45.9
0°-40°	978.6	59.0
0°-60°	1356.3	81.8
0°-90°	1622.5	97.8
90°-120°	35.9	2.2
90°-150°	35.9	2.2
90°-180°	36.0	2.2
0°-180°	1658.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3112	
5°	2423	201
15°	1266	327
25°	501	234
35°	348	218
45°	268	207
55°	190	171
65°	126	125
75°	80	86
85°	50	44
90°	40	22
95°	28	20
105°	4	6
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°	3112.1
1°	3096.1
2°	3030.0
3°	2879.8
4°	2671.5
5°	2423.2
6°	2186.9
7°	1974.6
8°	1796.4
9°	1662.2
10°	1562.1
11°	1488.0
12°	1425.9
13°	1375.8
14°	1325.8
15°	1265.7
16°	1177.6
17°	1061.4
18°	925.2
19°	799.1
20°	704.9
21°	646.9
22°	604.8
23°	568.8
24°	534.7
25°	500.7
27.5°	430.6
30°	386.5
32.5°	354.5
35°	348.5
37.5°	338.4
40°	310.4
42.5°	288.4
45°	268.4
47.5°	248.3
50°	228.3
52.5°	208.3
55°	190.3
57.5°	172.2
60°	156.2
62.5°	140.2
65°	126.2
67.5°	112.1
70°	100.1
72.5°	90.1

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	80.1
77.5°	72.1
80°	64.1
82.5°	56.1
85°	50.1
87.5°	44.1
90°	40.1
92.5°	36.0
95°	28.0
97.5°	20.0
100°	14.0
102.5°	8.0
105°	4.0
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)