

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: P702057

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702057  
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-3040-9040-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

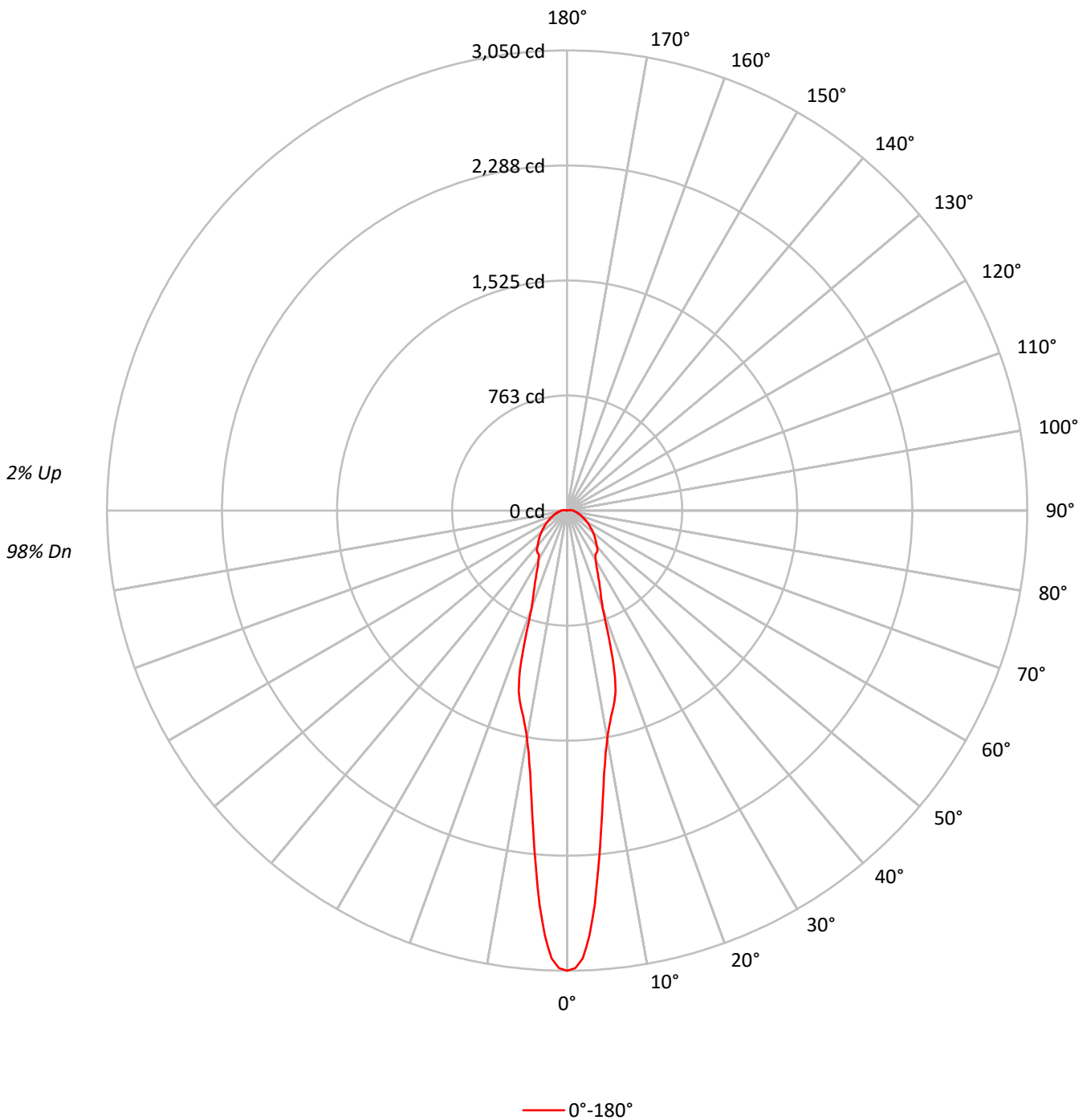
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1625.3 lumens  
Efficiency: N/A  
Efficacy: 51.6 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°	353725
5°	240724
10°	138752
15°	102365
20°	52700
25°	35043
30°	25620
35°	22092
40°	18997
45°	15991
50°	13351
55°	11007
60°	9013
65°	7310
70°	5873
75°	4795
80°	3947
85°	3202

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15991 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	196.6	12.1
10°-20°	320.1	19.7
20°-30°	229.0	14.1
30°-40°	213.2	13.1
40°-50°	203.0	12.5
50°-60°	167.1	10.3
60°-70°	122.9	7.6
70°-80°	84.0	5.2
80°-90°	54.1	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°	745.8	45.9
0°-40°	959.0	59.0
0°-60°	1329.1	81.8
0°-90°	1590.0	97.8
90°-120°	35.3	2.2
90°-150°	35.3	2.2
90°-180°	35.0	2.2
0°-180°	1625.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3050	
5°	2375	197
15°	1240	320
25°	491	229
35°	342	213
45°	263	203
55°	186	167
65°	124	123
75°	78	84
85°	49	43
90°	39	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°	3049.8
1°	3034.1
2°	2969.3
3°	2822.1
4°	2618.0
5°	2374.7
6°	2143.1
7°	1935.1
8°	1760.4
9°	1628.9
10°	1530.8
11°	1458.2
12°	1397.3
13°	1348.3
14°	1299.2
15°	1240.3
16°	1154.0
17°	1040.1
18°	906.7
19°	783.1
20°	690.8
21°	633.9
22°	592.7
23°	557.4
24°	524.0
25°	490.6
27.5°	421.9
30°	378.8
32.5°	347.4
35°	341.5
37.5°	331.7
40°	304.2
42.5°	282.6
45°	263.0
47.5°	243.4
50°	223.7
52.5°	204.1
55°	186.4
57.5°	168.8
60°	153.1
62.5°	137.4
65°	123.6
67.5°	109.9
70°	98.1
72.5°	88.3

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	78.5
77.5°	70.7
80°	62.8
82.5°	55.0
85°	49.1
87.5°	43.2
90°	39.3
92.5°	35.3
95°	27.5
97.5°	19.6
100°	13.7
102.5°	7.9
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)