

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: P702106

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702106  
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-30-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

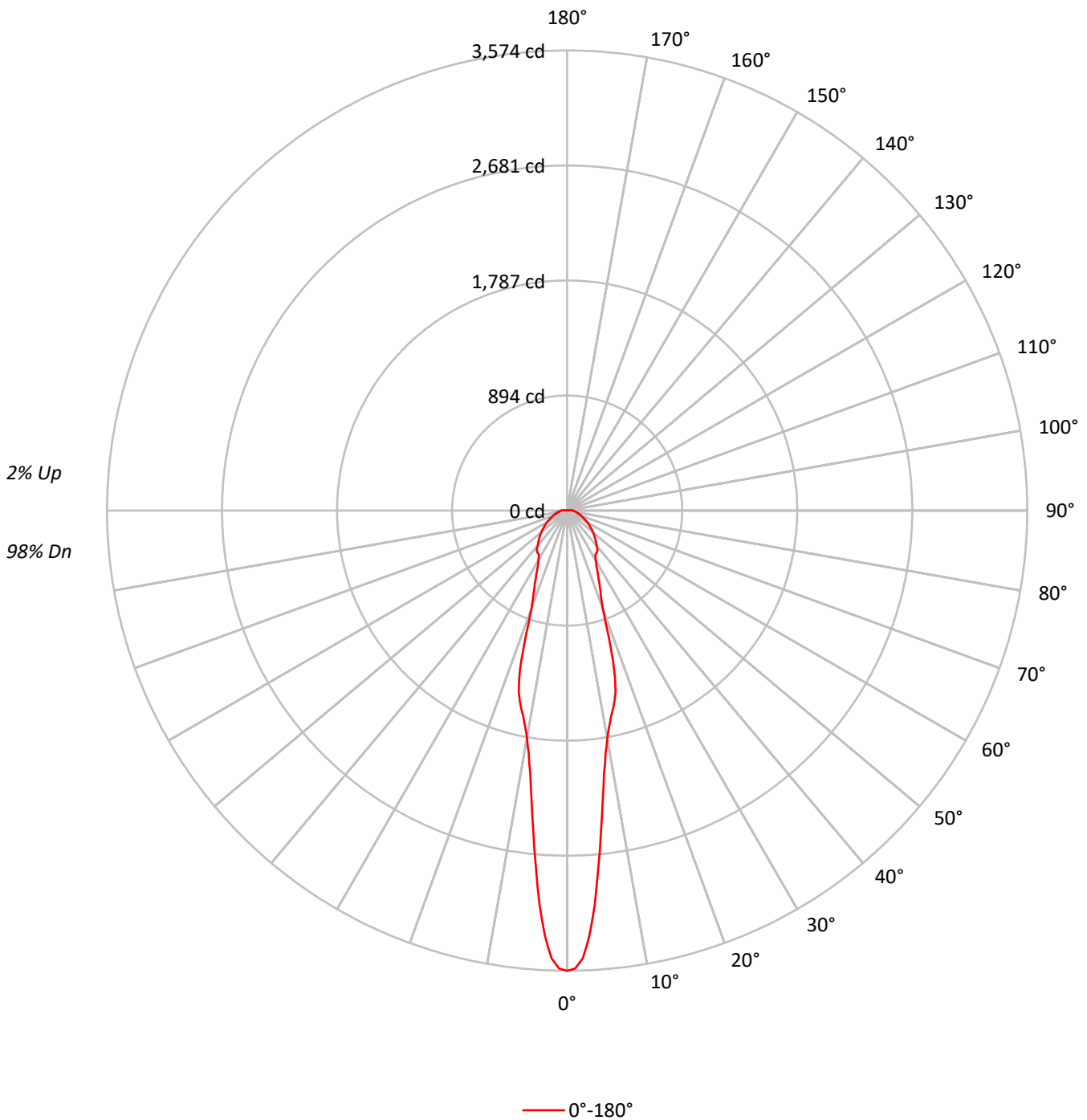
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1904.7 lumens  
Efficiency: N/A  
Efficacy: 60.3 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): 31.6  
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°	414570
5°	282133
10°	162617
15°	119977
20°	61763
25°	41071
30°	30023
35°	25889
40°	22263
45°	18739
50°	15649
55°	12902
60°	10561
65°	8569
70°	6885
75°	5620
80°	4625
85°	3750

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18739 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.5	12.1
10°-20°	375.2	19.7
20°-30°	268.4	14.1
30°-40°	249.9	13.1
40°-50°	237.9	12.5
50°-60°	195.8	10.3
60°-70°	144.0	7.6
70°-80°	98.4	5.2
80°-90°	63.3	3.3
90°-100°	34.9	1.8
100°-110°	6.4	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°	874.1	45.9
0°-40°	1124.0	59.0
0°-60°	1557.7	81.8
0°-90°	1863.4	97.8
90°-120°	41.3	2.2
90°-150°	41.3	2.2
90°-180°	41.0	2.2
0°-180°	1904.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3574	
5°	2783	230
15°	1454	375
25°	575	268
35°	400	250
45°	308	238
55°	218	196
65°	145	144
75°	92	98
85°	58	50
90°	46	25
95°	32	23
105°	5	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°	3574.4
1°	3556.0
2°	3480.1
3°	3307.6
4°	3068.4
5°	2783.2
6°	2511.7
7°	2267.9
8°	2063.2
9°	1909.1
10°	1794.1
11°	1709.0
12°	1637.7
13°	1580.2
14°	1522.7
15°	1453.7
16°	1352.5
17°	1219.1
18°	1062.7
19°	917.8
20°	809.6
21°	742.9
22°	694.6
23°	653.2
24°	614.1
25°	575.0
27.5°	494.5
30°	443.9
32.5°	407.1
35°	400.2
37.5°	388.7
40°	356.5
42.5°	331.2
45°	308.2
47.5°	285.2
50°	262.2
52.5°	239.2
55°	218.5
57.5°	197.8
60°	179.4
62.5°	161.0
65°	144.9
67.5°	128.8
70°	115.0
72.5°	103.5

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	92.0
77.5°	82.8
80°	73.6
82.5°	64.4
85°	57.5
87.5°	50.6
90°	46.0
92.5°	41.4
95°	32.2
97.5°	23.0
100°	16.1
102.5°	9.2
105°	4.6
107.5°	2.3
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)