

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: P701938

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701938  
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-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

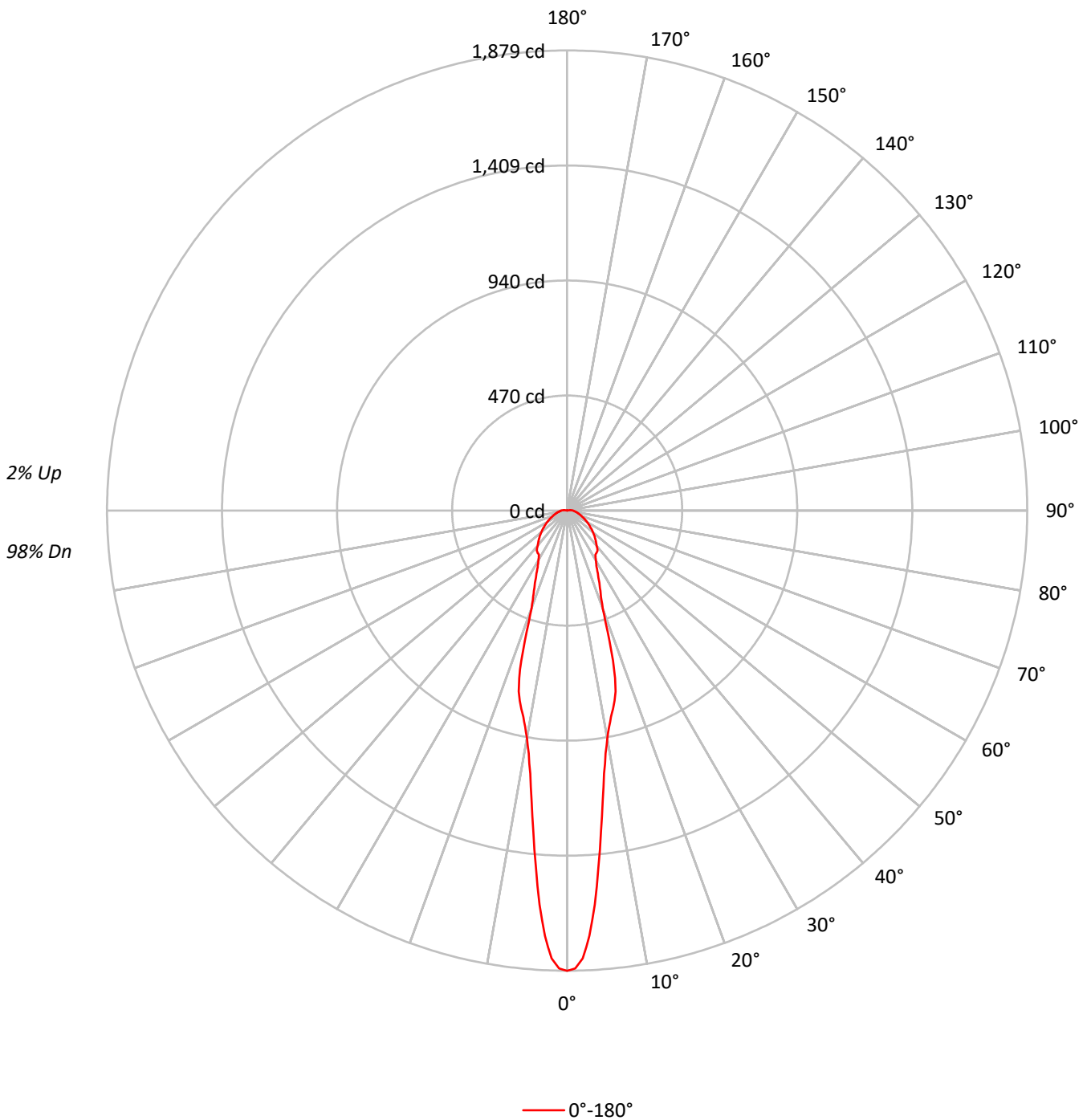
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1001.5 lumens  
Efficiency: N/A  
Efficacy: 63.4 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): 15.8  
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°	217967
5°	148335
10°	85501
15°	63079
20°	32476
25°	21593
30°	15786
35°	13611
40°	11703
45°	9856
50°	8231
55°	6785
60°	5551
65°	4506
70°	3622
75°	2957
80°	2432
85°	1970

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9856 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.2	12.1
10°-20°	197.3	19.7
20°-30°	141.1	14.1
30°-40°	131.4	13.1
40°-50°	125.1	12.5
50°-60°	103.0	10.3
60°-70°	75.7	7.6
70°-80°	51.7	5.2
80°-90°	33.3	3.3
90°-100°	18.3	1.8
100°-110°	3.4	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°	459.6	45.9
0°-40°	591.0	59.0
0°-60°	819.0	81.8
0°-90°	979.8	97.8
90°-120°	21.7	2.2
90°-150°	21.7	2.2
90°-180°	22.0	2.2
0°-180°	1001.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1879	
5°	1463	121
15°	764	197
25°	302	141
35°	210	131
45°	162	125
55°	115	103
65°	76	76
75°	48	52
85°	30	26
90°	24	13
95°	17	12
105°	2	3
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°	1879.3
1°	1869.6
2°	1829.7
3°	1739.0
4°	1613.3
5°	1463.3
6°	1320.6
7°	1192.4
8°	1084.8
9°	1003.7
10°	943.3
11°	898.5
12°	861.0
13°	830.8
14°	800.6
15°	764.3
16°	711.1
17°	640.9
18°	558.7
19°	482.5
20°	425.7
21°	390.6
22°	365.2
23°	343.5
24°	322.9
25°	302.3
27.5°	260.0
30°	233.4
32.5°	214.1
35°	210.4
37.5°	204.4
40°	187.4
42.5°	174.1
45°	162.1
47.5°	150.0
50°	137.9
52.5°	125.8
55°	114.9
57.5°	104.0
60°	94.3
62.5°	84.7
65°	76.2
67.5°	67.7
70°	60.5
72.5°	54.4

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	48.4
77.5°	43.5
80°	38.7
82.5°	33.9
85°	30.2
87.5°	26.6
90°	24.2
92.5°	21.8
95°	16.9
97.5°	12.1
100°	8.5
102.5°	4.8
105°	2.4
107.5°	1.2
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)