

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: P701916

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

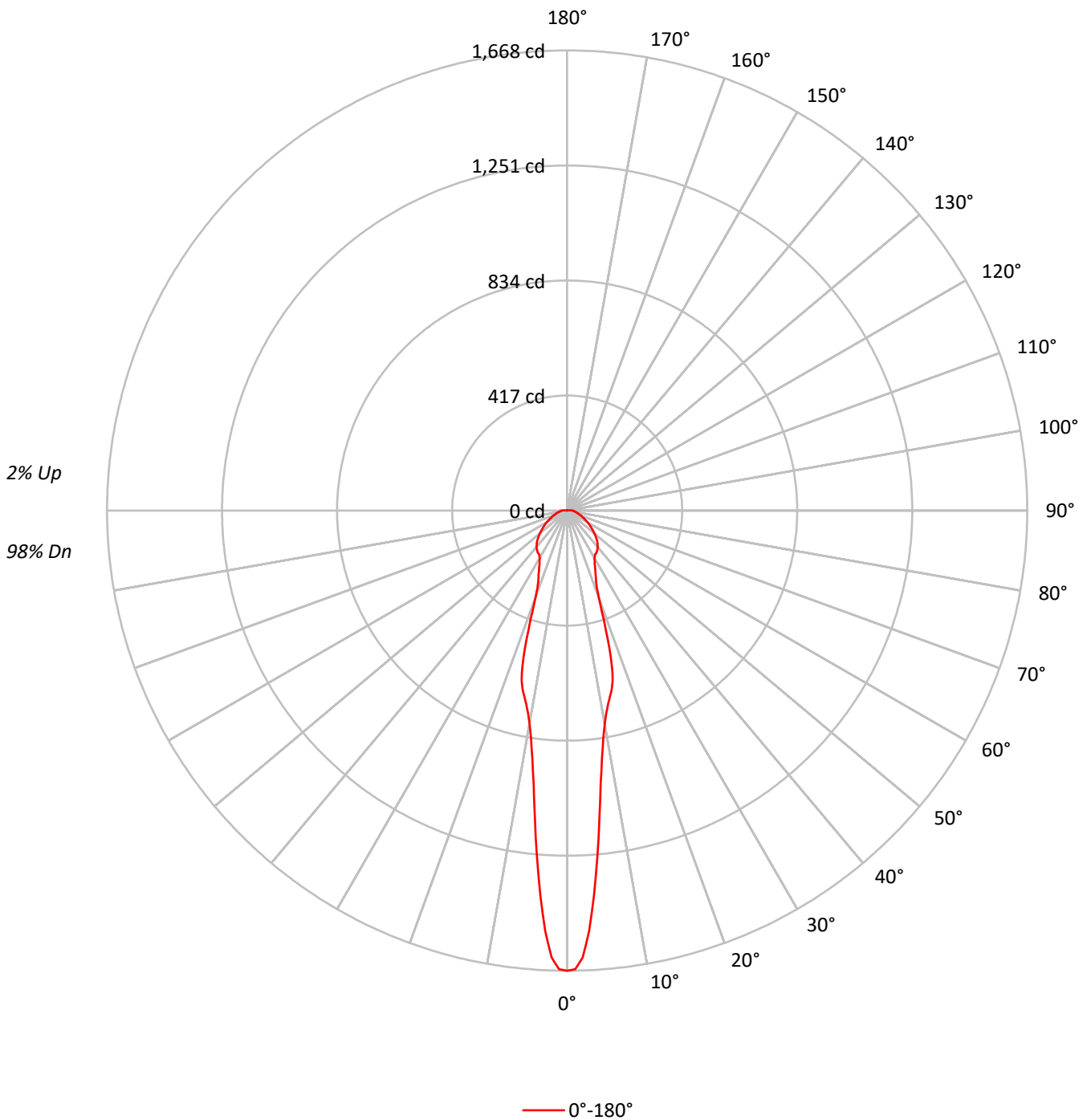
Lumens per Lamp: N/A  
Luminaire Lumens: 863.6 lumens  
Efficiency: N/A  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	193483
5°	127706
10°	71035
15°	52606
20°	25389
25°	17293
30°	13439
35°	12007
40°	10772
45°	9321
50°	7705
55°	6253
60°	5045
65°	3998
70°	3137
75°	2529
80°	2030
85°	1644

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9321 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.1	11.9
10°-20°	162.6	18.8
20°-30°	113.0	13.1
30°-40°	115.8	13.4
40°-50°	117.4	13.6
50°-60°	95.2	11.0
60°-70°	67.2	7.8
70°-80°	43.9	5.1
80°-90°	27.6	3.2
90°-100°	14.9	1.7
100°-110°	2.8	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°	378.7	43.9
0°-40°	494.5	57.3
0°-60°	707.1	81.9
0°-90°	845.9	98.0
90°-120°	17.7	2.0
90°-150°	17.7	2.0
90°-180°	18.0	2.1
0°-180°	863.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1668	
5°	1260	103
15°	637	163
25°	242	113
35°	186	116
45°	153	117
55°	106	95
65°	68	67
75°	41	44
85°	25	22
90°	19	11
95°	14	10
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	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1668.2
1°	1662.2
2°	1620.8
3°	1526.0
4°	1397.9
5°	1259.8
6°	1120.6
7°	995.5
8°	905.7
9°	835.1
10°	783.7
11°	746.4
12°	716.1
13°	690.9
14°	666.7
15°	637.4
16°	591.0
17°	527.5
18°	454.9
19°	385.3
20°	332.8
21°	300.6
22°	279.4
23°	266.3
24°	254.2
25°	242.1
27.5°	215.8
30°	198.7
32.5°	188.6
35°	185.6
37.5°	179.5
40°	172.5
42.5°	163.4
45°	153.3
47.5°	141.2
50°	129.1
52.5°	117.0
55°	105.9
57.5°	95.8
60°	85.7
62.5°	75.6
65°	67.6
67.5°	59.5
70°	52.4
72.5°	46.4

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	41.4
77.5°	36.3
80°	32.3
82.5°	28.2
85°	25.2
87.5°	22.2
90°	19.2
92.5°	17.1
95°	14.1
97.5°	10.1
100°	7.1
102.5°	4.0
105°	2.0
107.5°	1.0
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)