

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: P701884

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701884  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-GCC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

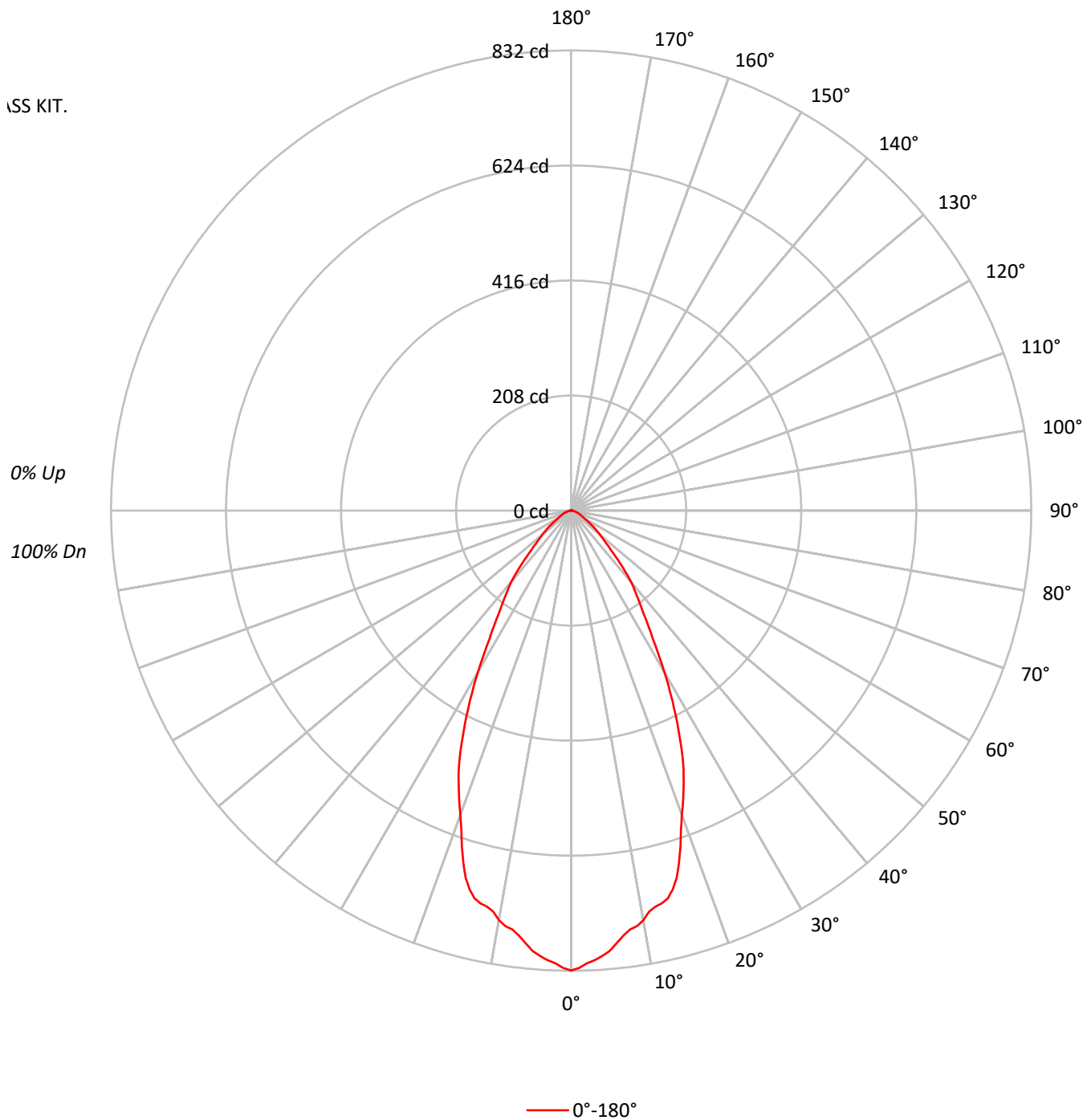
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 784.5 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9.8  
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	111	111	111		106	106	106		102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	101	96	92	104	99	95	91	95	92	89		92	89	87		89	87	85	83
3	100	93	87	83	98	91	86	82	88	84	80		86	82	79		84	81	78	76
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78	75	72	70
5	89	80	73	68	87	79	72	68	77	71	67		75	70	67		73	69	66	64
6	84	74	68	63	82	73	67	63	72	66	62		70	65	62		69	65	61	60
7	79	69	63	58	78	69	62	58	67	62	58		66	61	57		65	60	57	55
8	75	65	58	54	74	64	58	54	63	58	54		62	57	53		61	56	53	52
9	71	61	55	50	70	61	54	50	60	54	50		59	53	50		58	53	50	48
10	68	58	51	47	67	57	51	47	56	51	47		55	50	47		55	50	47	45

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

	0°
0°	96452
5°	93059
10°	88553
15°	85169
20°	72254
25°	60275
30°	45120
35°	32396
40°	25557
45°	16960
50°	12378
55°	8776
60°	6031
65°	5187
70°	4544
75°	3899
80°	3139
85°	3194

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 16960 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.5	9.5
10°-20°	193.4	24.6
20°-30°	212.7	27.1
30°-40°	147.5	18.8
40°-50°	84.1	10.7
50°-60°	40.0	5.1
60°-70°	18.9	2.4
70°-80°	9.2	1.2
80°-90°	2.7	0.3
90°-100°	1.0	0.1
100°-110°	0.6	0.1
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°	480.6	61.3
0°-40°	628.1	80.1
0°-60°	752.1	95.9
0°-90°	782.9	99.8
90°-120°	1.6	0.2
90°-150°	1.6	0.2
90°-180°	2.0	0.3
0°-180°	784.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	832	
5°	799	74
15°	709	193
25°	471	213
35°	229	147
45°	103	84
55°	43	40
65°	19	19
75°	9	9
85°	2	2
90°	1	1
95°	1	1
105°	1	1
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°	831.6
1°	826.9
2°	819.0
3°	814.3
4°	807.2
5°	799.3
6°	786.6
7°	774.0
8°	764.6
9°	760.6
10°	751.9
11°	738.5
12°	732.2
13°	729.0
14°	722.7
15°	709.3
16°	691.2
17°	666.7
18°	639.1
19°	609.9
20°	585.4
21°	564.1
22°	542.8
23°	520.7
24°	497.9
25°	471.0
27.5°	403.2
30°	336.9
32.5°	274.6
35°	228.8
37.5°	195.7
40°	168.8
42.5°	134.9
45°	103.4
47.5°	82.8
50°	68.6
52.5°	56.0
55°	43.4
57.5°	33.1
60°	26.0
62.5°	22.1
65°	18.9
67.5°	15.8
70°	13.4
72.5°	11.0

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	8.7
77.5°	6.3
80°	4.7
82.5°	3.2
85°	2.4
87.5°	1.6
90°	0.8
92.5°	0.8
95°	0.8
97.5°	0.8
100°	1.6
102.5°	0.8
105°	0.8
107.5°	0.0
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)