

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: P701807

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701807  
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-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GCC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

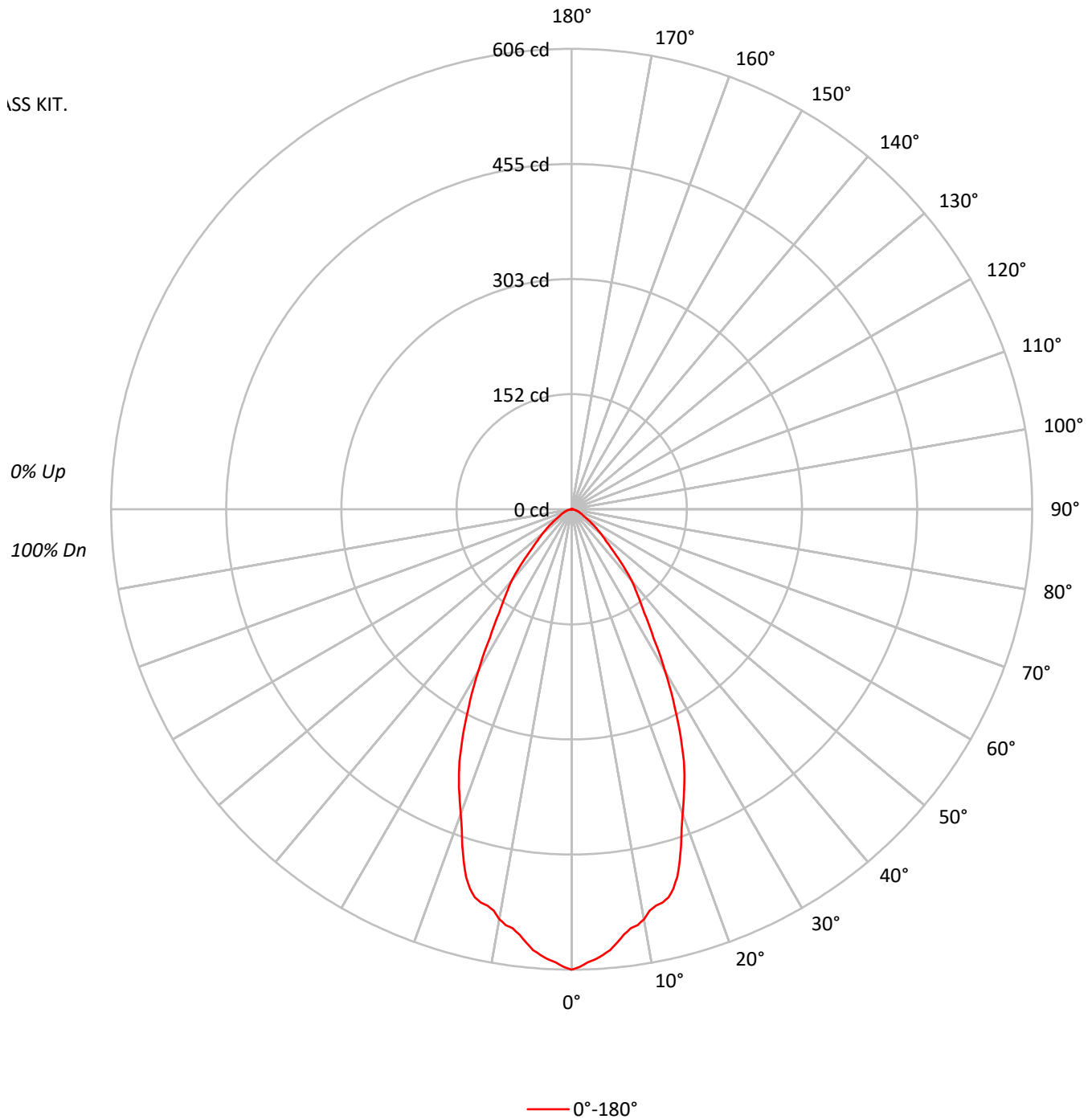
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 571.7 lumens  
Efficiency: N/A  
Efficacy: 57.7 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): 9.9  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91
2	106	101	96	92	104	99	95	91	95	92	89	92	89	87	89	87	85	83				83
3	100	93	87	83	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70				70
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64				64
6	84	74	68	63	82	73	67	63	72	66	62	70	65	62	69	65	61	60				60
7	79	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55				55
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	56	53	52				52
9	71	61	55	50	70	61	54	50	60	54	50	59	53	50	58	53	50	48				48
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45

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

	0°
0°	70286
5°	67807
10°	64527
15°	62067
20°	52654
25°	43920
30°	32879
35°	23603
40°	18623
45°	12351
50°	9022
55°	6390
60°	4407
65°	3787
70°	3323
75°	2823
80°	2271
85°	2262

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12351 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.3	9.5
10°-20°	140.9	24.6
20°-30°	155.0	27.1
30°-40°	107.5	18.8
40°-50°	61.3	10.7
50°-60°	29.1	5.1
60°-70°	13.8	2.4
70°-80°	6.7	1.2
80°-90°	1.9	0.3
90°-100°	0.7	0.1
100°-110°	0.5	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°	350.2	61.3
0°-40°	457.6	80.1
0°-60°	548.0	95.9
0°-90°	570.5	99.8
90°-120°	1.2	0.2
90°-150°	1.2	0.2
90°-180°	1.0	0.2
0°-180°	571.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	606	
5°	582	54
15°	517	141
25°	343	155
35°	167	107
45°	75	61
55°	32	29
65°	14	14
75°	6	7
85°	2	2
90°	1	0
95°	1	1
105°	1	0
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°	606.0
1°	602.5
2°	596.8
3°	593.3
4°	588.2
5°	582.4
6°	573.2
7°	564.0
8°	557.1
9°	554.2
10°	547.9
11°	538.1
12°	533.5
13°	531.2
14°	526.6
15°	516.9
16°	503.6
17°	485.8
18°	465.7
19°	444.4
20°	426.6
21°	411.1
22°	395.6
23°	379.5
24°	362.8
25°	343.2
27.5°	293.8
30°	245.5
32.5°	200.1
35°	166.7
37.5°	142.6
40°	123.0
42.5°	98.3
45°	75.3
47.5°	60.4
50°	50.0
52.5°	40.8
55°	31.6
57.5°	24.1
60°	19.0
62.5°	16.1
65°	13.8
67.5°	11.5
70°	9.8
72.5°	8.0

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	6.3
77.5°	4.6
80°	3.4
82.5°	2.3
85°	1.7
87.5°	1.1
90°	0.6
92.5°	0.6
95°	0.6
97.5°	0.6
100°	1.1
102.5°	0.6
105°	0.6
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)