

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: P701898

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701898  
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-1020-9050-4LBW1LI-GCC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

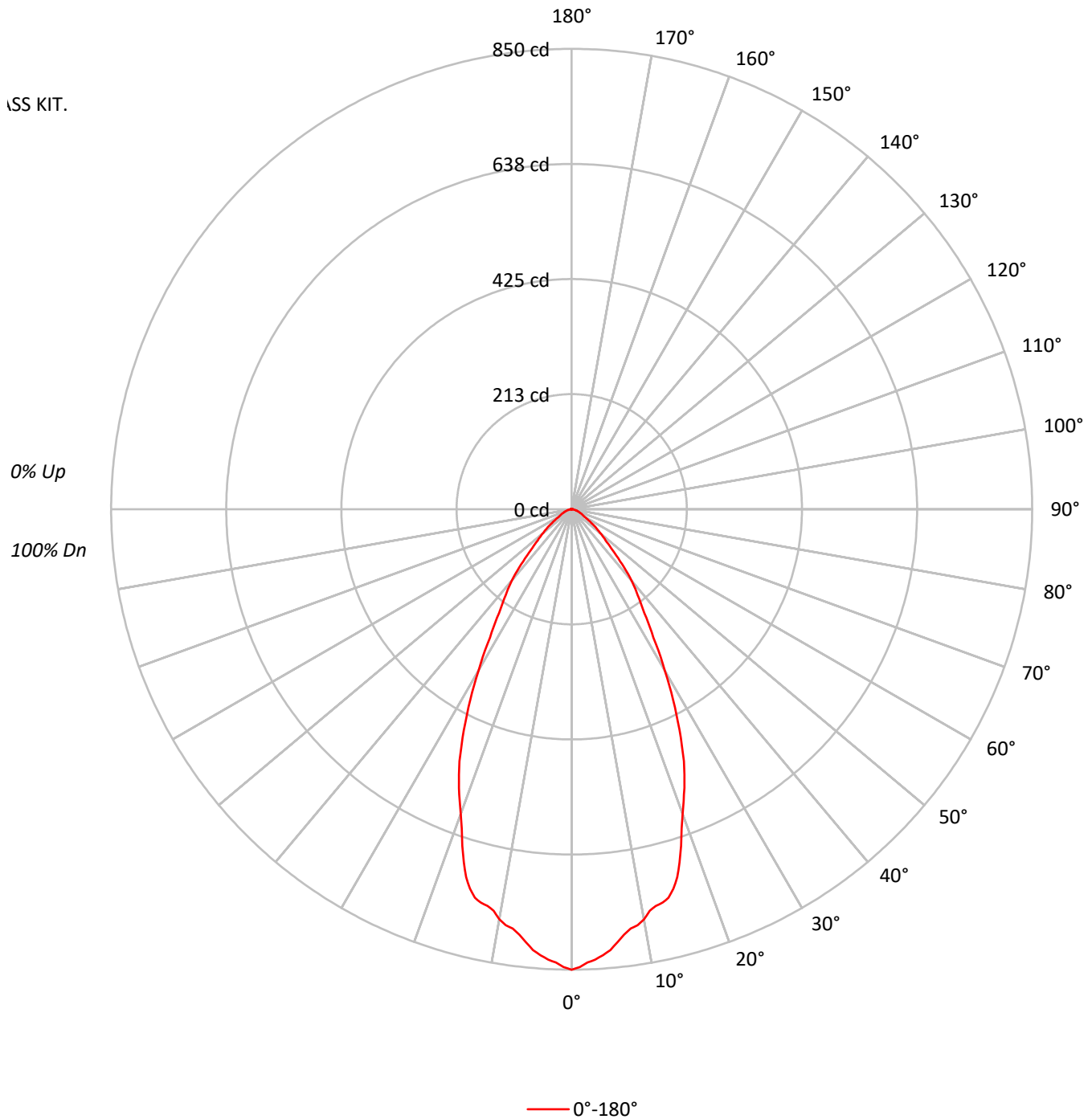
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 802.1 lumens  
Efficiency: N/A  
Efficacy: 81.9 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°	98609
5°	95143
10°	90543
15°	87078
20°	73883
25°	61632
30°	46137
35°	33118
40°	26133
45°	17337
50°	12667
55°	8978
60°	6170
65°	5324
70°	4646
75°	3988
80°	3206
85°	3194

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17337 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.2	9.5
10°-20°	197.7	24.6
20°-30°	217.5	27.1
30°-40°	150.8	18.8
40°-50°	86.0	10.7
50°-60°	40.9	5.1
60°-70°	19.3	2.4
70°-80°	9.5	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°	491.3	61.3
0°-40°	642.1	80.1
0°-60°	769.0	95.9
0°-90°	800.5	99.8
90°-120°	1.6	0.2
90°-150°	1.6	0.2
90°-180°	2.0	0.2
0°-180°	802.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	850	
5°	817	76
15°	725	198
25°	482	217
35°	234	151
45°	106	86
55°	44	41
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°	850.2
1°	845.4
2°	837.3
3°	832.5
4°	825.2
5°	817.2
6°	804.3
7°	791.4
8°	781.7
9°	777.6
10°	768.8
11°	755.1
12°	748.6
13°	745.4
14°	738.9
15°	725.2
16°	706.7
17°	681.6
18°	653.4
19°	623.6
20°	598.6
21°	576.8
22°	555.0
23°	532.4
24°	509.0
25°	481.6
27.5°	412.2
30°	344.5
32.5°	280.7
35°	233.9
37.5°	200.1
40°	172.6
42.5°	137.9
45°	105.7
47.5°	84.7
50°	70.2
52.5°	57.3
55°	44.4
57.5°	33.9
60°	26.6
62.5°	22.6
65°	19.4
67.5°	16.1
70°	13.7
72.5°	11.3

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	8.9
77.5°	6.5
80°	4.8
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)