

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: P701835

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9040-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701835  
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-1020-9040-4LBW1LI-GCC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

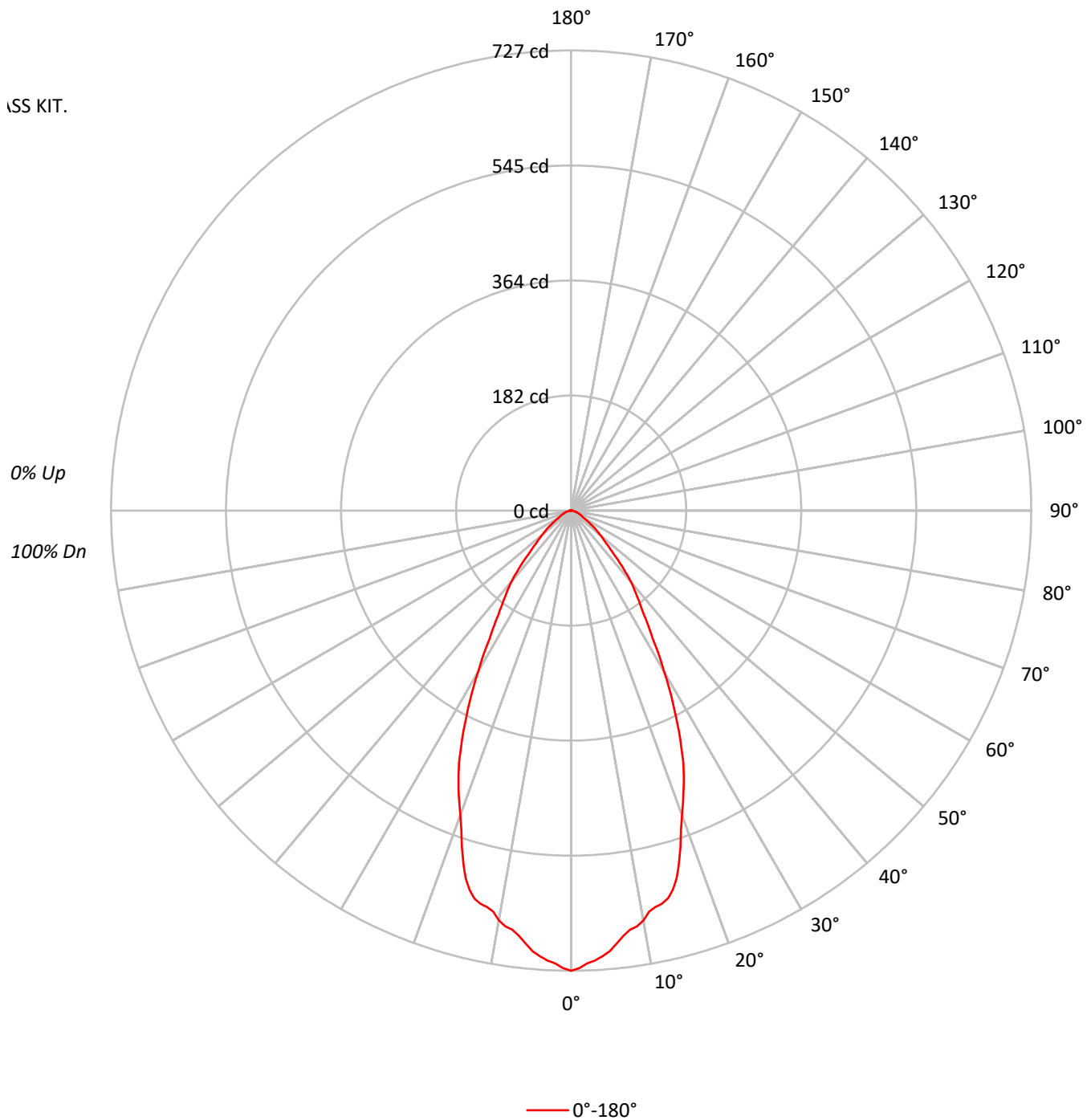
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 686.1 lumens  
Efficiency: N/A  
Efficacy: 69.3 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	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	100	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	84	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°	84331
5°	81370
10°	77435
15°	74470
20°	63182
25°	52712
30°	39455
35°	28332
40°	22347
45°	14828
50°	10826
55°	7664
60°	5289
65°	4556
70°	3968
75°	3406
80°	2738
85°	2795

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14828 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.1	9.5
10°-20°	169.1	24.6
20°-30°	186.0	27.1
30°-40°	129.0	18.8
40°-50°	73.5	10.7
50°-60°	35.0	5.1
60°-70°	16.5	2.4
70°-80°	8.1	1.2
80°-90°	2.4	0.3
90°-100°	0.9	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°	420.2	61.2
0°-40°	549.2	80.0
0°-60°	657.6	95.9
0°-90°	684.6	99.8
90°-120°	1.4	0.2
90°-150°	1.4	0.2
90°-180°	1.0	0.1
0°-180°	686.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	727	
5°	699	65
15°	620	169
25°	412	186
35°	200	129
45°	90	74
55°	38	35
65°	17	17
75°	8	8
85°	2	2
90°	1	0
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	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	727.1
1°	723.0
2°	716.1
3°	712.0
4°	705.8
5°	698.9
6°	687.8
7°	676.8
8°	668.5
9°	665.1
10°	657.5
11°	645.7
12°	640.2
13°	637.5
14°	631.9
15°	620.2
16°	604.3
17°	583.0
18°	558.8
19°	533.3
20°	511.9
21°	493.3
22°	474.6
23°	455.3
24°	435.3
25°	411.9
27.5°	352.5
30°	294.6
32.5°	240.1
35°	200.1
37.5°	171.1
40°	147.6
42.5°	118.0
45°	90.4
47.5°	72.4
50°	60.0
52.5°	49.0
55°	37.9
57.5°	29.0
60°	22.8
62.5°	19.3
65°	16.6
67.5°	13.8
70°	11.7
72.5°	9.7

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	7.6
77.5°	5.5
80°	4.1
82.5°	2.8
85°	2.1
87.5°	1.4
90°	0.7
92.5°	0.7
95°	0.7
97.5°	0.7
100°	1.4
102.5°	0.7
105°	0.7
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)