

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: P702178

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702178  
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-35-D010 / 340-EU4C-3040-9050-4LBW1LI-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

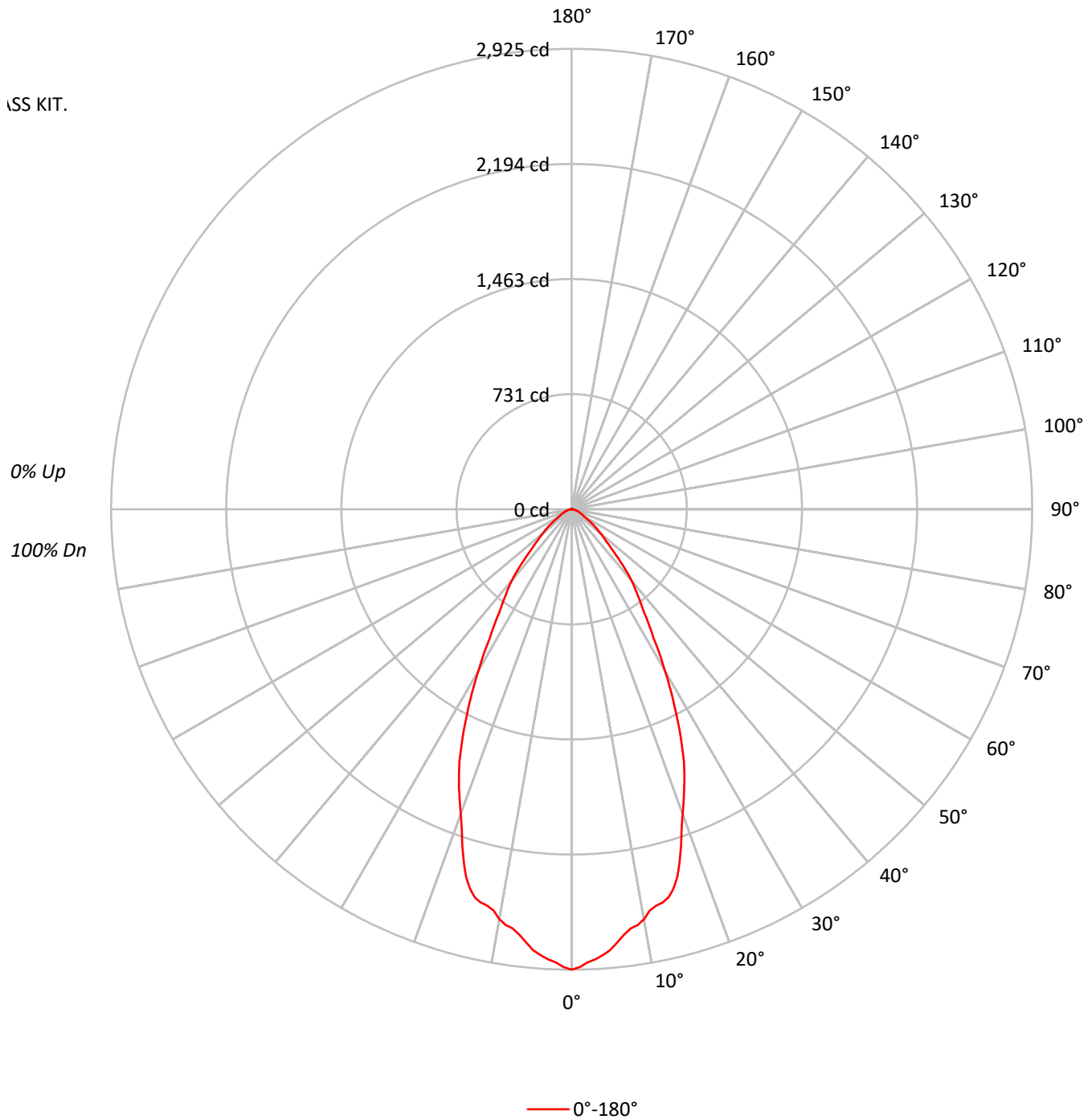
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2759.8 lumens  
Efficiency: N/A  
Efficacy: 68.3 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): 40.4  
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°	339274
5°	327321
10°	311496
15°	299598
20°	254173
25°	212039
30°	158715
35°	113965
40°	89920
45°	59639
50°	43576
55°	30857
60°	21248
65°	18278
70°	16006
75°	13668
80°	11154
85°	11045

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 59639 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.0	9.5
10°-20°	680.1	24.6
20°-30°	748.3	27.1
30°-40°	518.8	18.8
40°-50°	295.8	10.7
50°-60°	140.6	5.1
60°-70°	66.5	2.4
70°-80°	32.6	1.2
80°-90°	9.5	0.3
90°-100°	3.4	0.1
100°-110°	2.2	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°	1690.4	61.3
0°-40°	2209.2	80.0
0°-60°	2645.6	95.9
0°-90°	2754.2	99.8
90°-120°	5.7	0.2
90°-150°	5.7	0.2
90°-180°	6.0	0.2
0°-180°	2759.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2925	
5°	2811	262
15°	2495	680
25°	1657	748
35°	805	519
45°	364	296
55°	153	141
65°	67	67
75°	30	33
85°	8	8
90°	3	2
95°	3	3
105°	3	2
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°	2925.2
1°	2908.6
2°	2880.8
3°	2864.2
4°	2839.2
5°	2811.4
6°	2767.0
7°	2722.6
8°	2689.3
9°	2675.4
10°	2644.9
11°	2597.7
12°	2575.5
13°	2564.4
14°	2542.2
15°	2495.1
16°	2431.2
17°	2345.2
18°	2248.0
19°	2145.4
20°	2059.3
21°	1984.4
22°	1909.4
23°	1831.7
24°	1751.3
25°	1656.9
27.5°	1418.2
30°	1185.1
32.5°	965.8
35°	804.9
37.5°	688.3
40°	593.9
42.5°	474.6
45°	363.6
47.5°	291.4
50°	241.5
52.5°	197.1
55°	152.6
57.5°	116.6
60°	91.6
62.5°	77.7
65°	66.6
67.5°	55.5
70°	47.2
72.5°	38.9

TEST NUMBER: P702178

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-GCC

**CANDELA DISTRIBUTION (continued):**

	0°
75°	30.5
77.5°	22.2
80°	16.7
82.5°	11.1
85°	8.3
87.5°	5.6
90°	2.8
92.5°	2.8
95°	2.8
97.5°	2.8
100°	5.6
102.5°	2.8
105°	2.8
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)