

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: P702129

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9727-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702129  
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-30-D010 / 340-EU4C-3040-9727-4LBW1LI-GCC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 2700K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

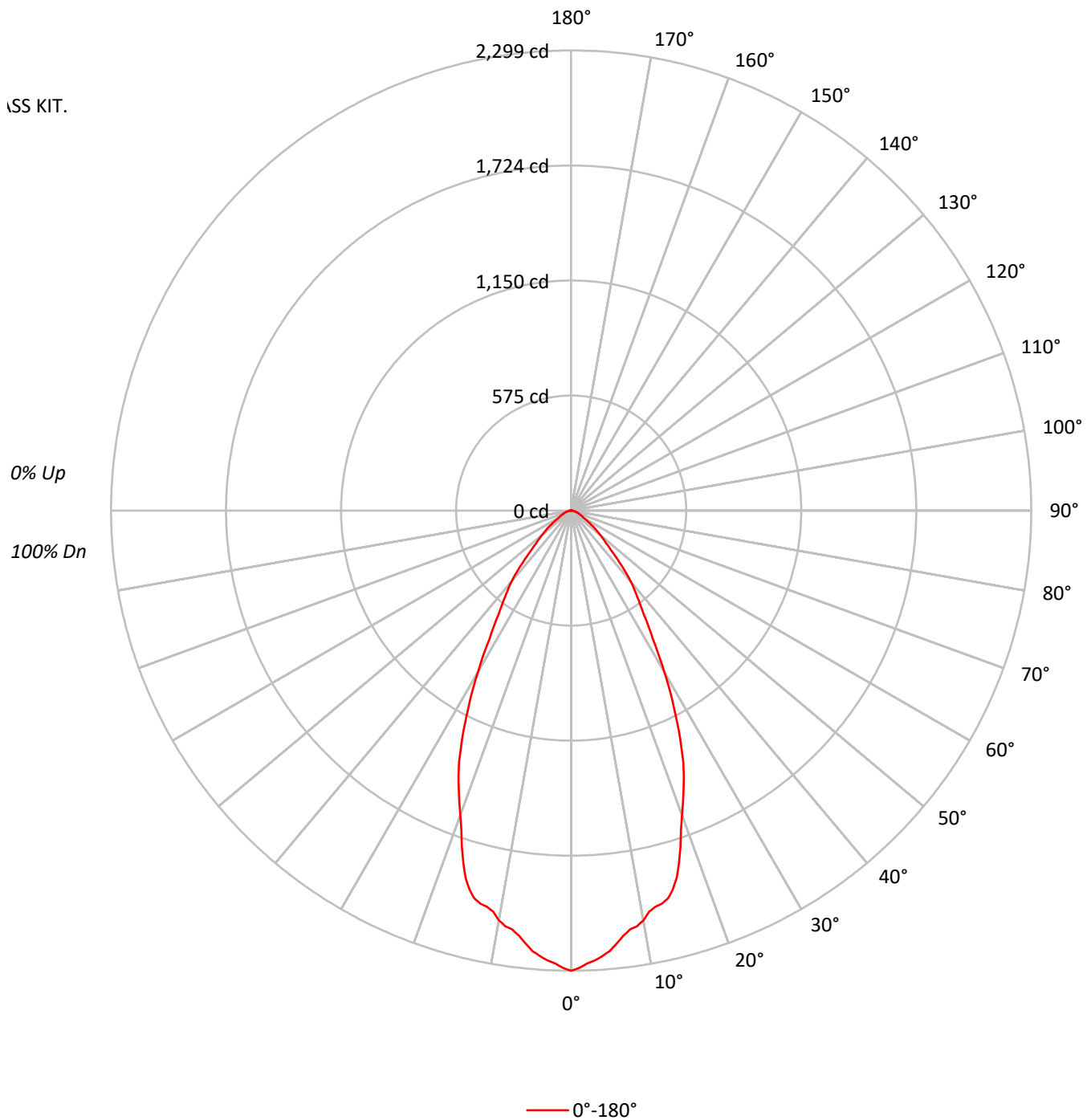
Lumens per Lamp: N/A  
Luminaire Lumens: 2168.9 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

Input Watts (W): 31.6  
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°	266634
5°	257244
10°	244802
15°	235442
20°	199754
25°	166634
30°	124725
35°	89555
40°	70676
45°	46862
50°	34247
55°	24265
60°	16702
65°	14353
70°	12581
75°	10755
80°	8750
85°	8650

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 46862 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.9	9.5
10°-20°	534.5	24.6
20°-30°	588.0	27.1
30°-40°	407.7	18.8
40°-50°	232.5	10.7
50°-60°	110.5	5.1
60°-70°	52.3	2.4
70°-80°	25.6	1.2
80°-90°	7.4	0.3
90°-100°	2.7	0.1
100°-110°	1.8	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°	1328.5	61.3
0°-40°	1736.2	80.1
0°-60°	2079.1	95.9
0°-90°	2164.4	99.8
90°-120°	4.5	0.2
90°-150°	4.5	0.2
90°-180°	4.0	0.2
0°-180°	2168.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2299	
5°	2210	206
15°	1961	535
25°	1302	588
35°	632	408
45°	286	232
55°	120	111
65°	52	52
75°	24	26
85°	6	7
90°	2	2
95°	2	2
105°	2	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°	2298.9
1°	2285.8
2°	2264.0
3°	2250.9
4°	2231.3
5°	2209.5
6°	2174.6
7°	2139.7
8°	2113.5
9°	2102.6
10°	2078.6
11°	2041.5
12°	2024.1
13°	2015.3
14°	1997.9
15°	1960.8
16°	1910.7
17°	1843.0
18°	1766.7
19°	1686.0
20°	1618.4
21°	1559.5
22°	1500.6
23°	1439.5
24°	1376.3
25°	1302.1
27.5°	1114.5
30°	931.3
32.5°	759.0
35°	632.5
37.5°	540.9
40°	466.8
42.5°	373.0
45°	285.7
47.5°	229.0
50°	189.8
52.5°	154.9
55°	120.0
57.5°	91.6
60°	72.0
62.5°	61.1
65°	52.3
67.5°	43.6
70°	37.1
72.5°	30.5

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	24.0
77.5°	17.4
80°	13.1
82.5°	8.7
85°	6.5
87.5°	4.4
90°	2.2
92.5°	2.2
95°	2.2
97.5°	2.2
100°	4.4
102.5°	2.2
105°	2.2
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)