

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: P702060

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-GFC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C  
KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

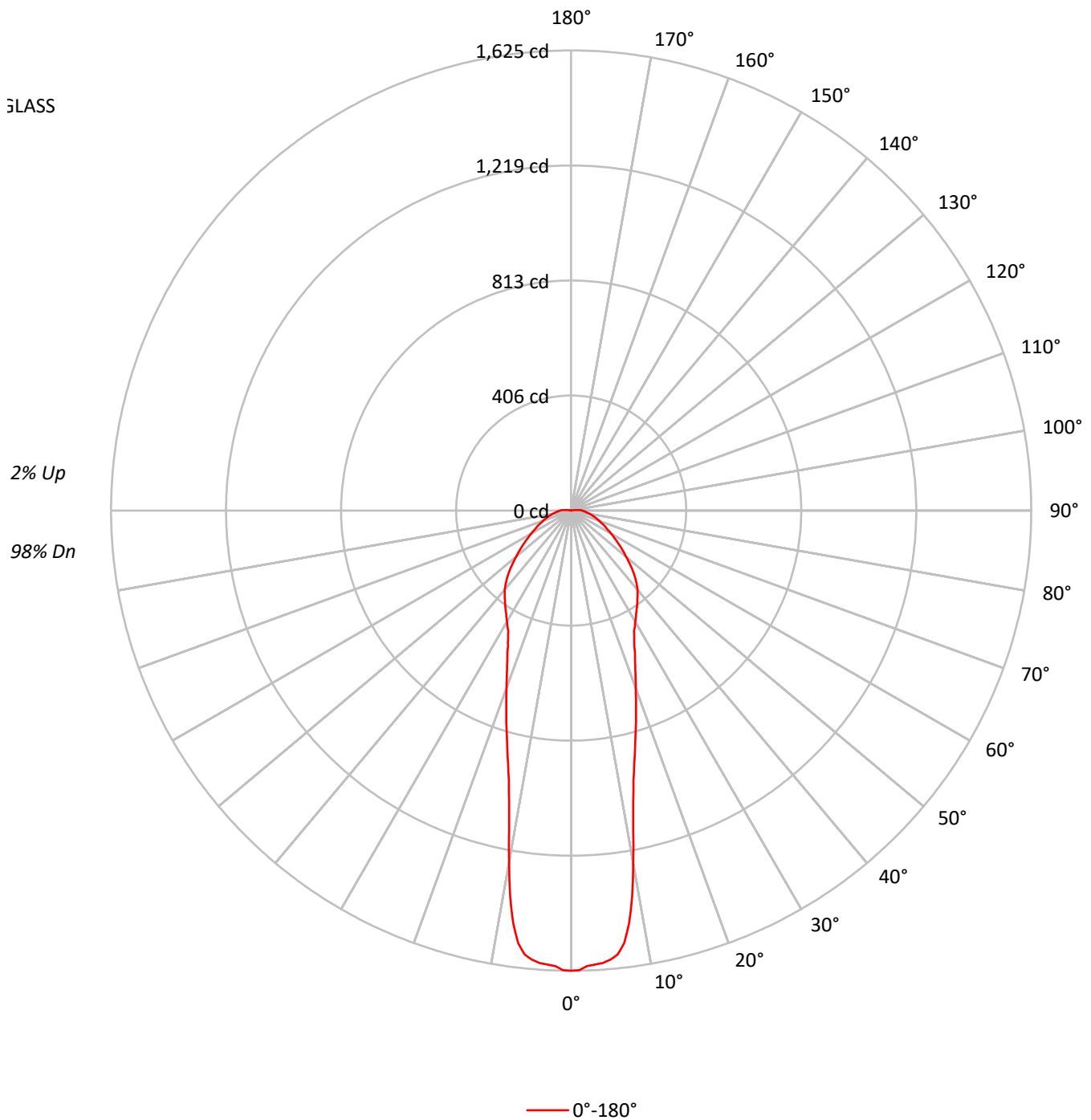
Lumens per Lamp: N/A  
Luminaire Lumens: 1618.8 lumens  
Efficiency: N/A  
Efficacy: 51.4 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 31.5  
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	110	110	110		105	105	105		100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92		93	91	89		89	87	86	83
2	100	93	87	81	98	91	85	80	87	82	78		84	80	76		80	77	74	72
3	93	83	76	70	90	82	75	69	78	73	68		75	71	66		73	69	65	63
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		66	62	58	56
5	80	69	60	54	78	67	60	54	65	58	53		63	57	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	48		57	51	47	45
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	54	46	41	65	53	46	41	52	45	40		50	44	40		49	44	40	38
9	62	50	43	38	61	50	42	38	48	42	37		47	41	37		46	41	37	35
10	59	47	40	35	58	47	40	35	45	39	35		44	39	35		44	38	34	33

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

	0°
0°	188473
5°	161341
10°	114560
15°	71918
20°	50907
25°	37707
30°	30659
35°	26277
40°	22794
45°	18970
50°	15112
55°	12052
60°	9590
65°	7777
70°	6346
75°	5156
80°	4072
85°	3326

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18970 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.9	8.8
10°-20°	246.3	15.2
20°-30°	246.7	15.2
30°-40°	254.6	15.7
40°-50°	239.5	14.8
50°-60°	183.7	11.3
60°-70°	130.9	8.1
70°-80°	89.4	5.5
80°-90°	55.9	3.5
90°-100°	26.6	1.6
100°-110°	2.4	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°	635.9	39.3
0°-40°	890.5	55.0
0°-60°	1313.7	81.2
0°-90°	1589.9	98.2
90°-120°	28.9	1.8
90°-150°	28.9	1.8
90°-180°	29.0	1.8
0°-180°	1618.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1625	
5°	1592	143
15°	871	246
25°	528	247
35°	406	255
45°	312	240
55°	204	184
65°	132	131
75°	84	89
85°	51	44
90°	39	22
95°	24	17
105°	0	2
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°	1625.0
1°	1623.0
2°	1609.3
3°	1605.4
4°	1601.4
5°	1591.6
6°	1575.9
7°	1538.6
8°	1471.9
9°	1377.7
10°	1263.9
11°	1148.1
12°	1051.9
13°	977.3
14°	920.4
15°	871.4
16°	824.3
17°	783.1
18°	741.8
19°	702.6
20°	667.3
21°	633.9
22°	604.5
23°	577.0
24°	553.4
25°	527.9
27.5°	480.8
30°	453.3
32.5°	427.8
35°	406.2
37.5°	384.7
40°	365.0
42.5°	339.5
45°	312.0
47.5°	282.6
50°	253.2
52.5°	227.7
55°	204.1
57.5°	182.5
60°	162.9
62.5°	145.2
65°	131.5
67.5°	117.8
70°	106.0
72.5°	94.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	84.4
77.5°	74.6
80°	64.8
82.5°	56.9
85°	51.0
87.5°	45.1
90°	39.3
92.5°	33.4
95°	23.6
97.5°	15.7
100°	9.8
102.5°	3.9
105°	0.0
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)