

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: P702431

Luminaire Tested: 340-6C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-15-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC  
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C  
KIT.  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

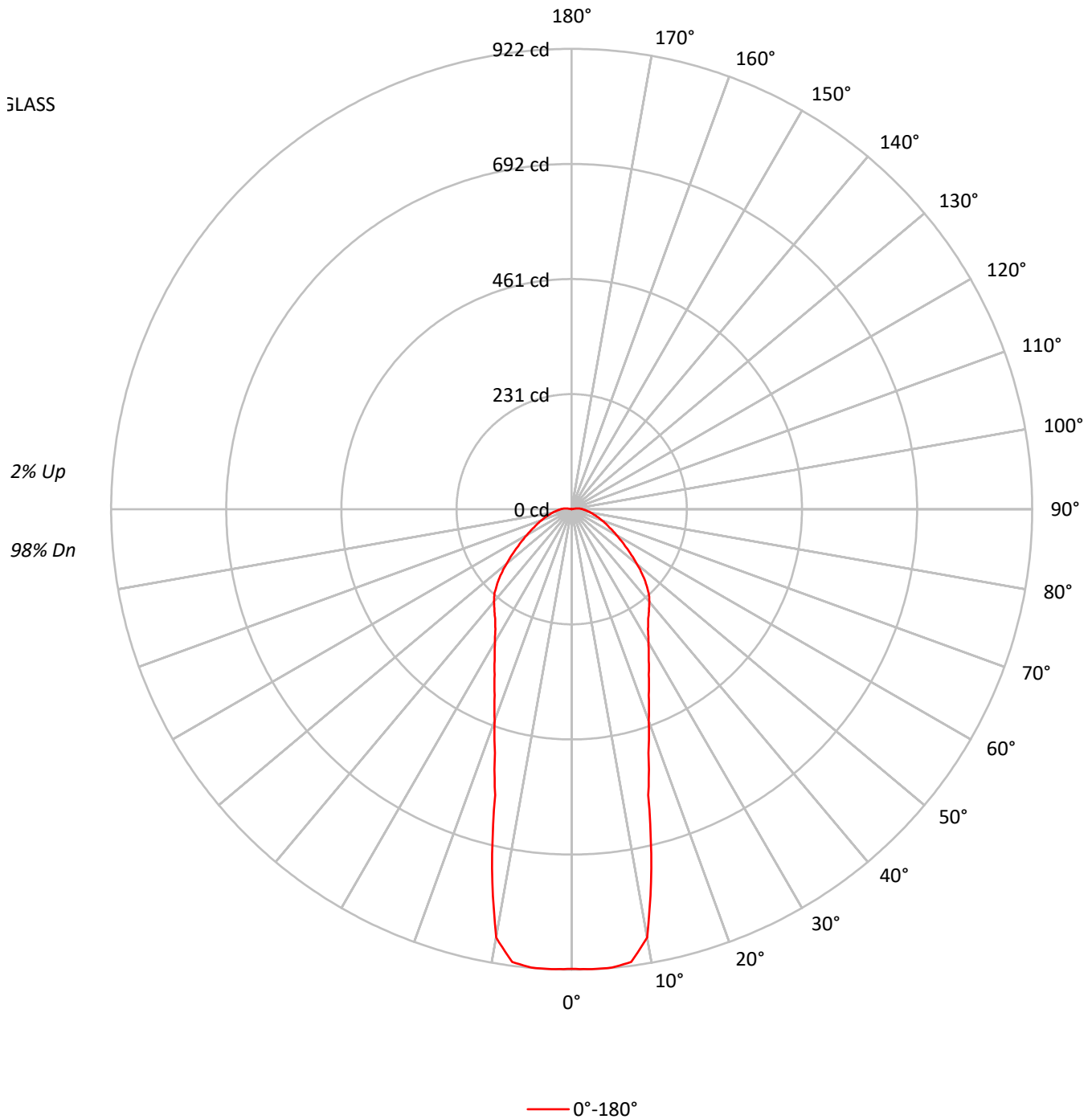
Lumens per Lamp: N/A  
Luminaire Lumens: 1063.5 lumens  
Efficiency: N/A  
Efficacy: 67.3 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.74  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

Input Watts (W): 15.8  
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	110	110	110		105	105	105		100	100	100	98
1	109	105	101	97	106	102	99	96	98	95	92		94	91	89		90	88	86	84
2	101	93	87	82	98	91	86	81	88	83	79		84	80	77		81	78	75	73
3	93	84	76	71	91	82	75	70	79	73	69		76	71	67		73	69	66	64
4	86	76	68	62	84	74	67	61	72	65	60		69	64	60		67	62	59	57
5	81	69	61	55	78	68	60	55	66	59	54		64	58	53		62	57	53	51
6	75	63	55	50	73	62	55	49	60	54	49		59	53	48		57	52	48	46
7	71	58	51	45	69	58	50	45	56	49	44		54	49	44		53	48	44	42
8	66	54	47	41	65	54	46	41	52	46	41		51	45	41		50	44	40	38
9	63	51	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	40	35	58	47	40	35	46	39	35		45	39	35		44	38	35	33

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

	0°
0°	60047
5°	53937
10°	46530
15°	29335
20°	20949
25°	16091
30°	12963
35°	10904
40°	9621
45°	8225
50°	6603
55°	5141
60°	4044
65°	3193
70°	2581
75°	2058
80°	1669
85°	1312

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 8225 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.7	8.1
10°-20°	171.1	16.1
20°-30°	169.5	15.9
30°-40°	168.8	15.9
40°-50°	161.1	15.2
50°-60°	120.3	11.3
60°-70°	81.5	7.7
70°-80°	53.1	5.0
80°-90°	32.3	3.0
90°-100°	16.9	1.6
100°-110°	2.3	0.2
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°	427.2	40.2
0°-40°	596.0	56.0
0°-60°	877.4	82.5
0°-90°	1044.4	98.2
90°-120°	19.1	1.8
90°-150°	19.1	1.8
90°-180°	19.0	1.8
0°-180°	1063.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	920	
5°	922	87
15°	593	171
25°	365	169
35°	267	169
45°	210	161
55°	133	120
65°	81	82
75°	50	53
85°	29	26
90°	22	12
95°	16	11
105°	1	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°	920.4
2.5°	921.6
5°	921.6
7.5°	914.4
10°	870.8
12.5°	736.6
15°	592.6
17.5°	511.6
20°	451.1
22.5°	402.8
25°	365.3
27.5°	333.8
30°	307.2
32.5°	284.2
35°	267.3
37.5°	254.0
40°	241.9
42.5°	228.6
45°	210.4
47.5°	191.1
50°	170.5
52.5°	151.2
55°	133.0
57.5°	117.3
60°	104.0
62.5°	91.9
65°	81.0
67.5°	72.6
70°	64.1
72.5°	56.8
75°	49.6
77.5°	43.5
80°	38.7
82.5°	33.9
85°	29.0
87.5°	25.4
90°	21.8
92.5°	19.4
95°	15.7
97.5°	12.1
100°	7.3
102.5°	3.6
105°	1.2
107.5°	0.0
110°	0.0

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**CANDELA DISTRIBUTION (continued):**

	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)