

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: P701970

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9730-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701970  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-15-D010 / 340-EU4C-1020-9730-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

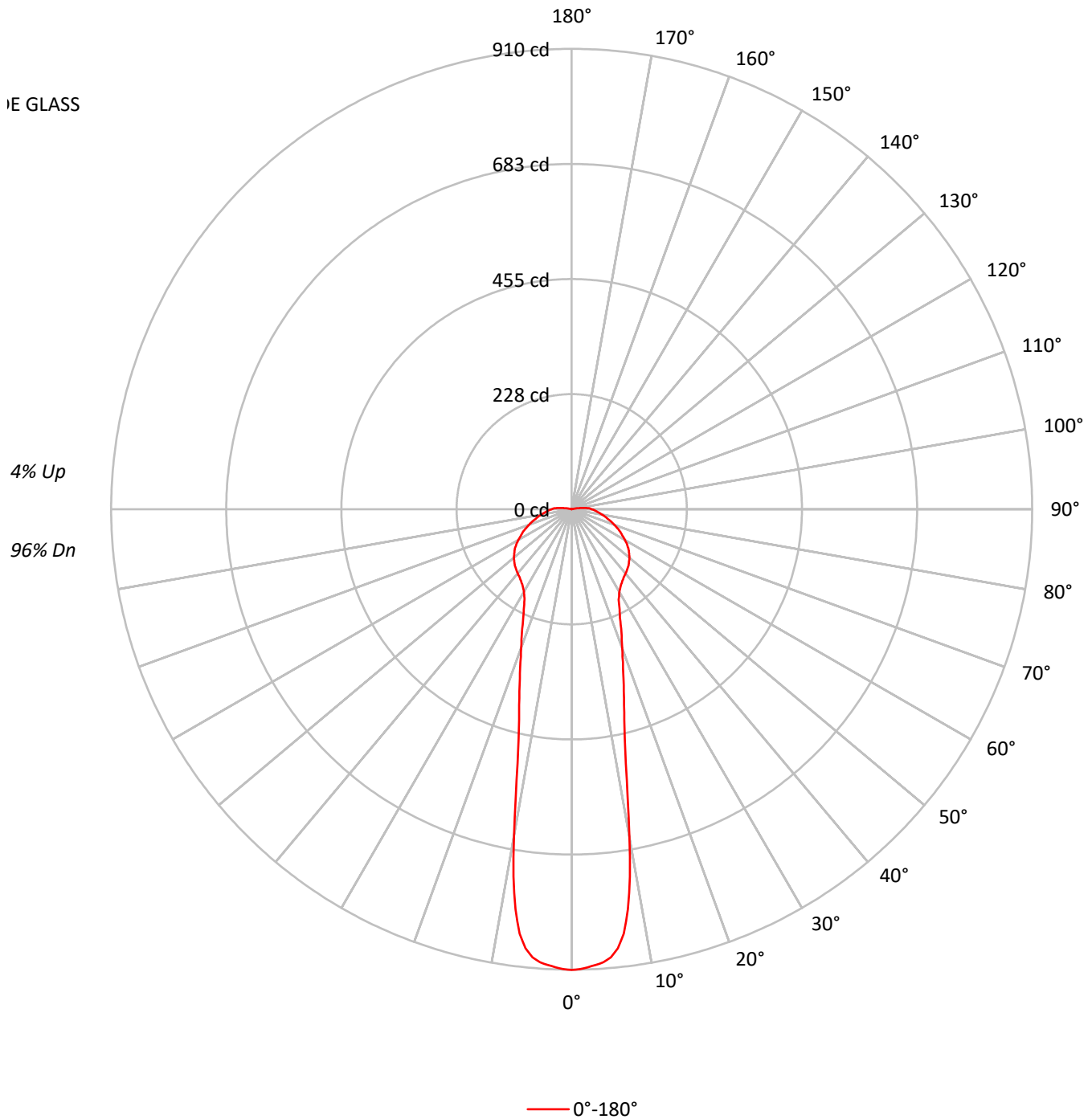
Lumens per Lamp: N/A  
Luminaire Lumens: 922.9 lumens  
Efficiency: N/A  
Efficacy: 58.4 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87		89	86	83		85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72		78	73	69		74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61		69	64	59		66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47		57	51	46		55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42		52	46	41		51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38		49	42	37		47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35		45	39	34		44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32		42	36	32		41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		39	33	29	28

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

	0°
0°	105603
5°	90128
10°	59632
15°	33046
20°	22276
25°	16007
30°	12736
35°	11256
40°	10348
45°	9637
50°	8893
55°	8096
60°	7158
65°	6275
70°	5352
75°	4514
80°	3821
85°	3268

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9637 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.2	8.5
10°-20°	114.7	12.4
20°-30°	104.9	11.4
30°-40°	109.7	11.9
40°-50°	122.1	13.2
50°-60°	122.1	13.2
60°-70°	104.6	11.3
70°-80°	79.0	8.6
80°-90°	54.6	5.9
90°-100°	29.0	3.1
100°-110°	4.0	0.4
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°	297.8	32.3
0°-40°	407.5	44.2
0°-60°	651.7	70.6
0°-90°	890.0	96.4
90°-120°	33.0	3.6
90°-150°	33.0	3.6
90°-180°	33.0	3.6
0°-180°	922.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	910	
5°	889	78
15°	400	115
25°	224	105
35°	174	110
45°	158	122
55°	137	122
65°	106	105
75°	74	79
85°	50	43
90°	39	22
95°	27	19
105°	2	4
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°	910.5
1°	909.3
2°	905.8
3°	902.2
4°	897.4
5°	889.1
6°	872.4
7°	845.0
8°	798.5
9°	735.3
10°	657.9
11°	579.2
12°	513.7
13°	466.0
14°	429.0
15°	400.4
16°	374.2
17°	350.4
18°	328.9
19°	308.7
20°	292.0
21°	276.5
22°	262.2
23°	247.9
24°	234.8
25°	224.1
27.5°	201.4
30°	188.3
32.5°	180.0
35°	174.0
37.5°	169.2
40°	165.7
42.5°	162.1
45°	158.5
47.5°	153.7
50°	149.0
52.5°	143.0
55°	137.1
57.5°	129.9
60°	121.6
62.5°	113.2
65°	106.1
67.5°	97.7
70°	89.4
72.5°	82.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	73.9
77.5°	67.9
80°	60.8
82.5°	54.8
85°	50.1
87.5°	45.3
90°	39.3
92.5°	35.8
95°	27.4
97.5°	17.9
100°	10.7
102.5°	6.0
105°	2.4
107.5°	1.2
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)