

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: P702494

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702494  
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-20-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC  
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C  
KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

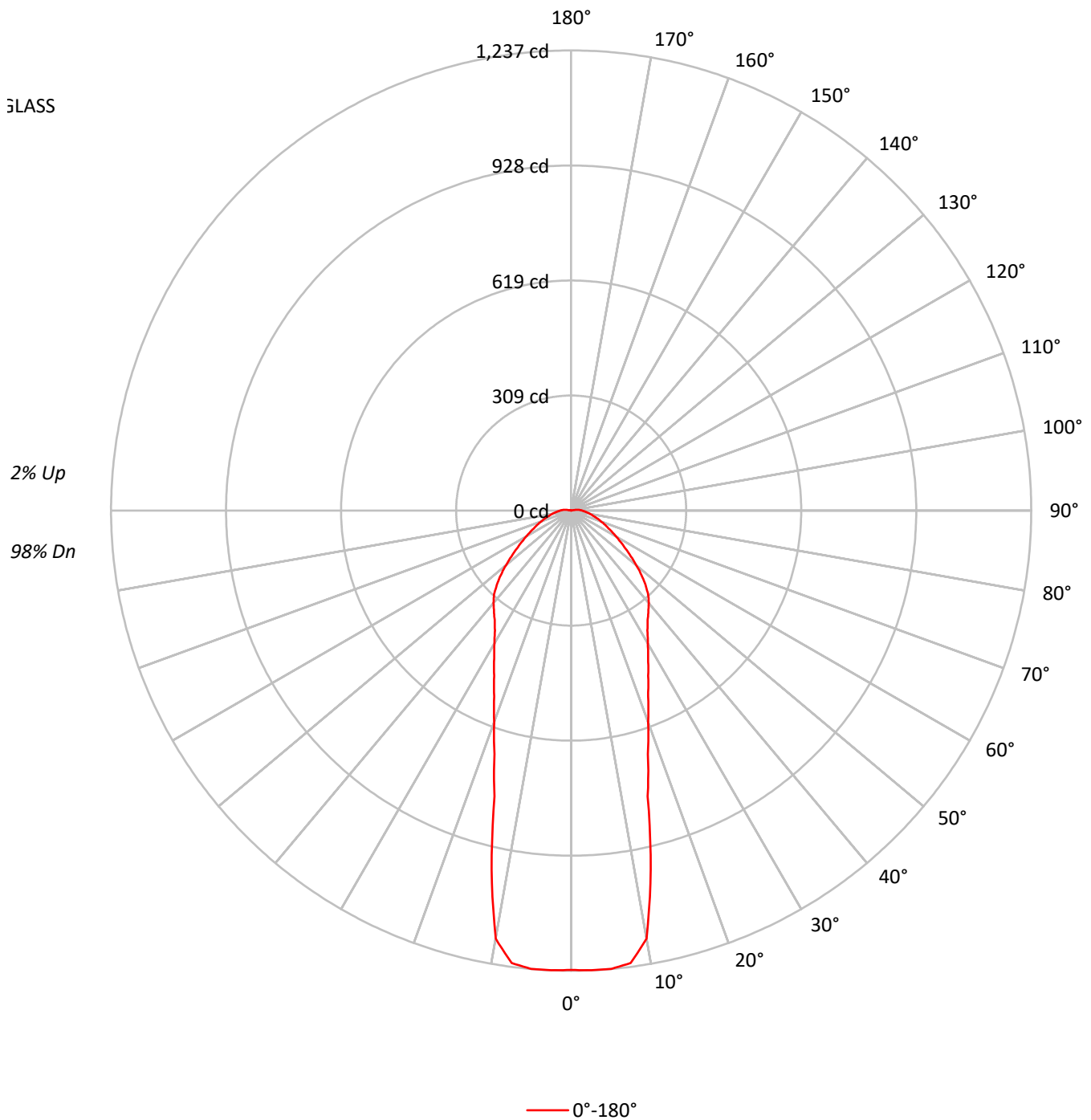
Lumens per Lamp: N/A  
Luminaire Lumens: 1427.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Spacing Criteria (0/90/45): 0.61 / 0.61 / 0.74  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

Input Watts (W): 21.8  
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°	80566
5°	72373
10°	62431
15°	39364
20°	28110
25°	21588
30°	17394
35°	14629
40°	12911
45°	11040
50°	8861
55°	6900
60°	5428
65°	4284
70°	3463
75°	2759
80°	2238
85°	1760

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11040 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.3	8.1
10°-20°	229.5	16.1
20°-30°	227.4	15.9
30°-40°	226.6	15.9
40°-50°	216.2	15.2
50°-60°	161.4	11.3
60°-70°	109.4	7.7
70°-80°	71.3	5.0
80°-90°	43.3	3.0
90°-100°	22.6	1.6
100°-110°	3.0	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°	573.1	40.2
0°-40°	799.7	56.0
0°-60°	1177.3	82.5
0°-90°	1401.3	98.2
90°-120°	25.6	1.8
90°-150°	25.6	1.8
90°-180°	26.0	1.8
0°-180°	1427.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1235	
5°	1237	116
15°	795	230
25°	490	227
35°	359	227
45°	282	216
55°	178	161
65°	109	109
75°	66	71
85°	39	35
90°	29	16
95°	21	15
105°	2	3
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°	1234.9
2.5°	1236.6
5°	1236.6
7.5°	1226.8
10°	1168.4
12.5°	988.3
15°	795.2
17.5°	686.4
20°	605.3
22.5°	540.4
25°	490.1
27.5°	447.9
30°	412.2
32.5°	381.4
35°	358.6
37.5°	340.8
40°	324.6
42.5°	306.7
45°	282.4
47.5°	256.4
50°	228.8
52.5°	202.8
55°	178.5
57.5°	157.4
60°	139.6
62.5°	123.3
65°	108.7
67.5°	97.4
70°	86.0
72.5°	76.3
75°	66.5
77.5°	58.4
80°	51.9
82.5°	45.4
85°	38.9
87.5°	34.1
90°	29.2
92.5°	26.0
95°	21.1
97.5°	16.2
100°	9.7
102.5°	4.9
105°	1.6
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)