

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: P702158

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9030-4LBW1LI-GFC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702158  
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-35-D010 / 340-EU4C-3040-9030-4LBW1LI-GFC  
Description: FARALLON 4" 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**

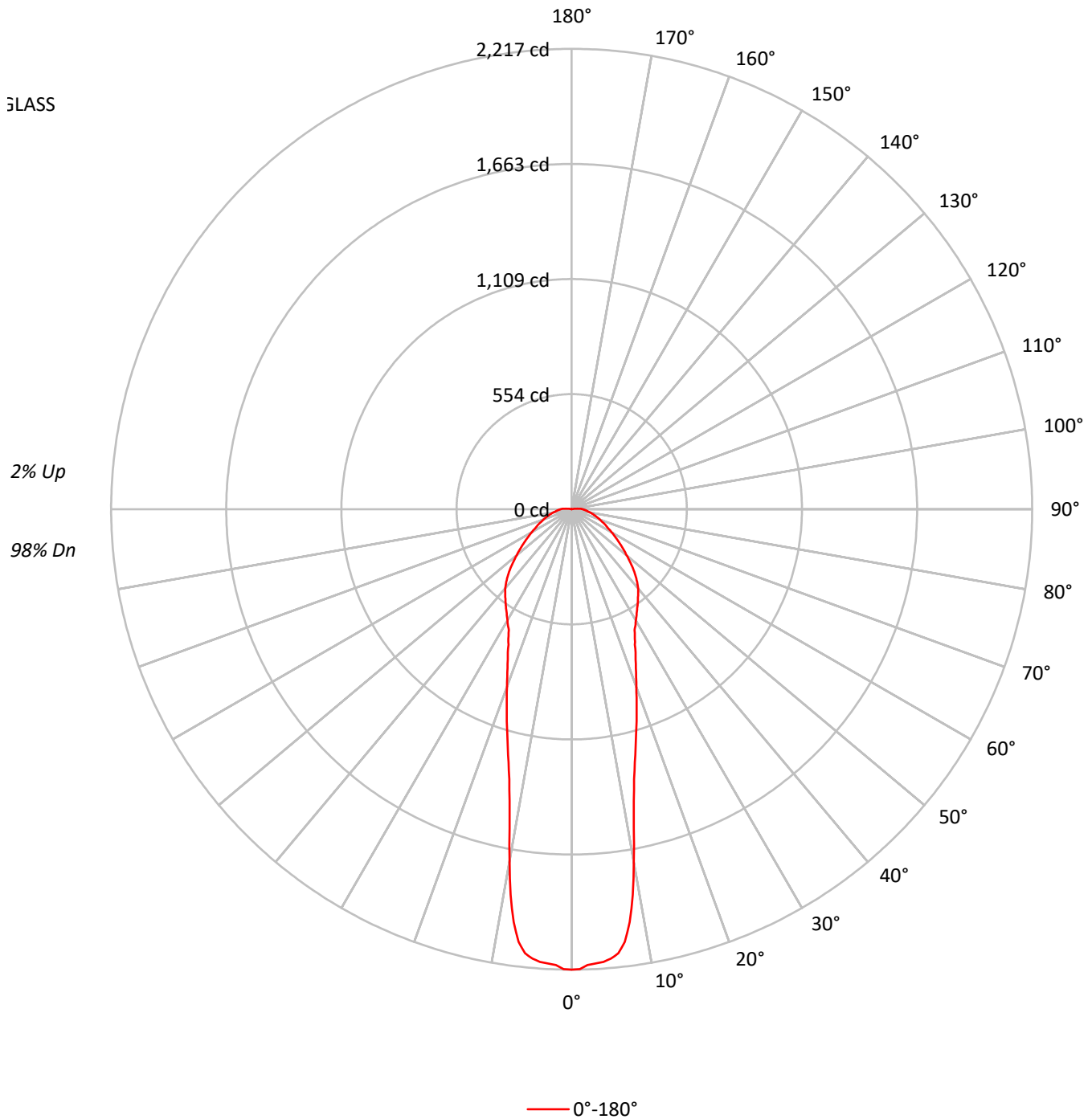
Lumens per Lamp: N/A  
Luminaire Lumens: 2208.5 lumens  
Efficiency: N/A  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 40.4  
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	43	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°	257135
5°	220125
10°	156291
15°	98114
20°	69453
25°	51450
30°	41832
35°	35852
40°	31099
45°	25884
50°	20615
55°	16445
60°	13081
65°	10609
70°	8657
75°	7031
80°	5556
85°	4539

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25884 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.9	8.8
10°-20°	336.1	15.2
20°-30°	336.6	15.2
30°-40°	347.3	15.7
40°-50°	326.8	14.8
50°-60°	250.6	11.3
60°-70°	178.6	8.1
70°-80°	121.9	5.5
80°-90°	76.3	3.5
90°-100°	36.2	1.6
100°-110°	3.2	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°	867.6	39.3
0°-40°	1214.9	55.0
0°-60°	1792.3	81.2
0°-90°	2169.1	98.2
90°-120°	39.4	1.8
90°-150°	39.4	1.8
90°-180°	39.0	1.8
0°-180°	2208.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2217	
5°	2172	195
15°	1189	336
25°	720	337
35°	554	347
45°	426	327
55°	278	251
65°	179	179
75°	115	122
85°	70	60
90°	54	29
95°	32	23
105°	0	3
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°	2217.0
1°	2214.3
2°	2195.6
3°	2190.2
4°	2184.9
5°	2171.5
6°	2150.0
7°	2099.2
8°	2008.1
9°	1879.6
10°	1724.3
11°	1566.3
12°	1435.2
13°	1333.4
14°	1255.8
15°	1188.8
16°	1124.6
17°	1068.3
18°	1012.1
19°	958.6
20°	910.4
21°	864.8
22°	824.7
23°	787.2
24°	755.1
25°	720.3
27.5°	656.0
30°	618.5
32.5°	583.7
35°	554.2
37.5°	524.8
40°	498.0
42.5°	463.2
45°	425.7
47.5°	385.6
50°	345.4
52.5°	310.6
55°	278.5
57.5°	249.0
60°	222.2
62.5°	198.1
65°	179.4
67.5°	160.7
70°	144.6
72.5°	128.5

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	115.1
77.5°	101.7
80°	88.4
82.5°	77.6
85°	69.6
87.5°	61.6
90°	53.6
92.5°	45.5
95°	32.1
97.5°	21.4
100°	13.4
102.5°	5.4
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)