

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: P702124

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702124  
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-30-D010 / 340-EU4C-3040-9050-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

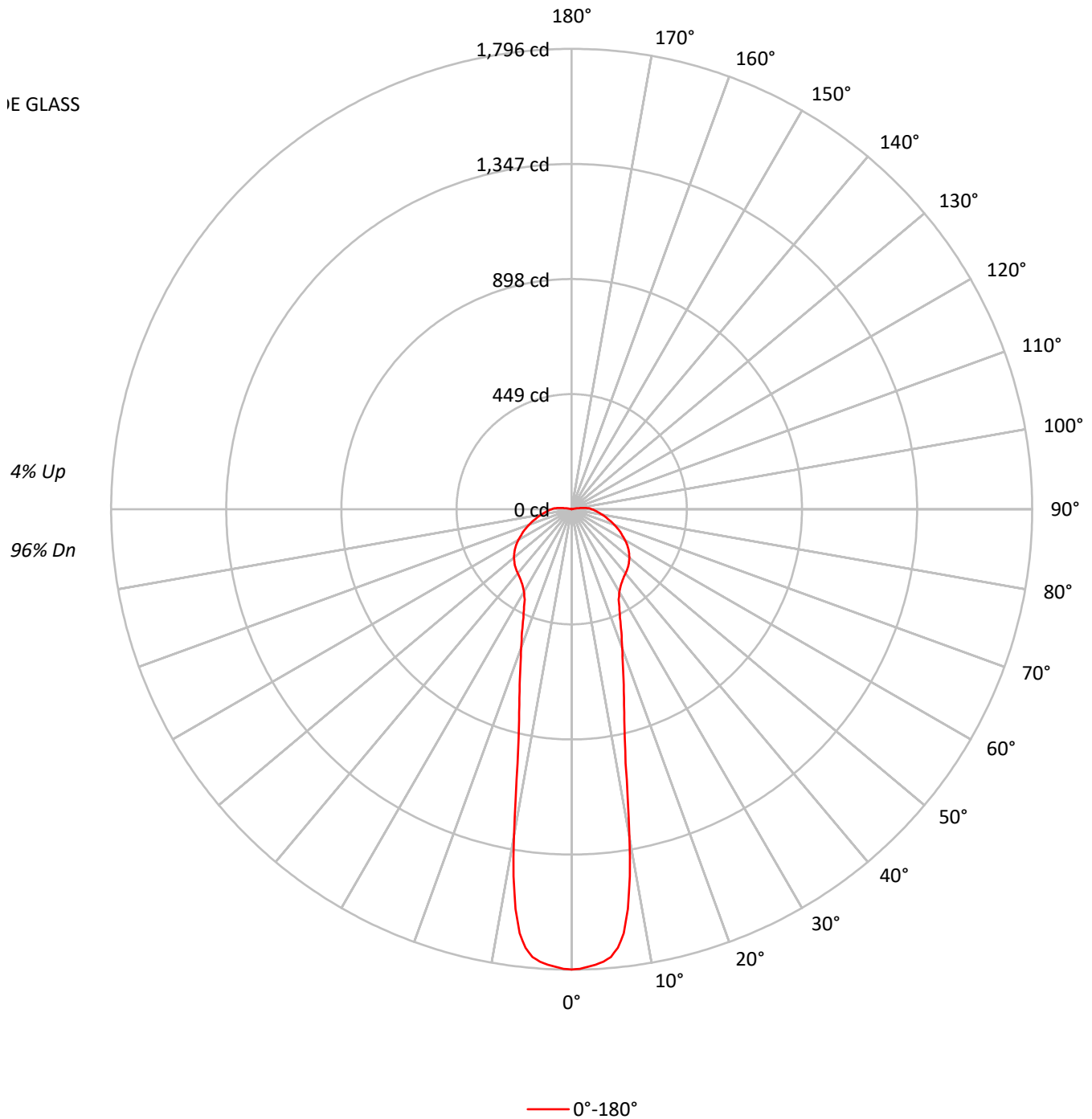
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1820.1 lumens  
Efficiency: N/A  
Efficacy: 57.6 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): 31.6  
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°	208248
5°	177722
10°	117587
15°	65176
20°	43927
25°	31557
30°	25113
35°	22195
40°	20402
45°	19007
50°	17535
55°	15961
60°	14111
65°	12372
70°	10555
75°	8901
80°	7535
85°	6437

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19007 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.3	8.5
10°-20°	226.2	12.4
20°-30°	206.9	11.4
30°-40°	216.3	11.9
40°-50°	240.8	13.2
50°-60°	240.7	13.2
60°-70°	206.4	11.3
70°-80°	155.8	8.6
80°-90°	107.6	5.9
90°-100°	57.2	3.1
100°-110°	7.9	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°	587.3	32.3
0°-40°	803.6	44.2
0°-60°	1285.2	70.6
0°-90°	1755.0	96.4
90°-120°	65.1	3.6
90°-150°	65.1	3.6
90°-180°	65.0	3.6
0°-180°	1820.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1796	
5°	1753	154
15°	790	226
25°	442	207
35°	343	216
45°	313	241
55°	270	241
65°	209	206
75°	146	156
85°	99	85
90°	78	43
95°	54	37
105°	5	8
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°	1795.5
1°	1793.2
2°	1786.1
3°	1779.1
4°	1769.7
5°	1753.2
6°	1720.3
7°	1666.3
8°	1574.6
9°	1450.0
10°	1297.3
11°	1142.2
12°	1012.9
13°	918.9
14°	846.1
15°	789.7
16°	737.9
17°	690.9
18°	648.6
19°	608.7
20°	575.8
21°	545.2
22°	517.0
23°	488.8
24°	463.0
25°	441.8
27.5°	397.2
30°	371.3
32.5°	354.9
35°	343.1
37.5°	333.7
40°	326.7
42.5°	319.6
45°	312.6
47.5°	303.2
50°	293.8
52.5°	282.0
55°	270.3
57.5°	256.2
60°	239.7
62.5°	223.3
65°	209.2
67.5°	192.7
70°	176.3
72.5°	162.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	145.7
77.5°	134.0
80°	119.9
82.5°	108.1
85°	98.7
87.5°	89.3
90°	77.6
92.5°	70.5
95°	54.1
97.5°	35.3
100°	21.2
102.5°	11.8
105°	4.7
107.5°	2.4
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)