

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: P702168

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

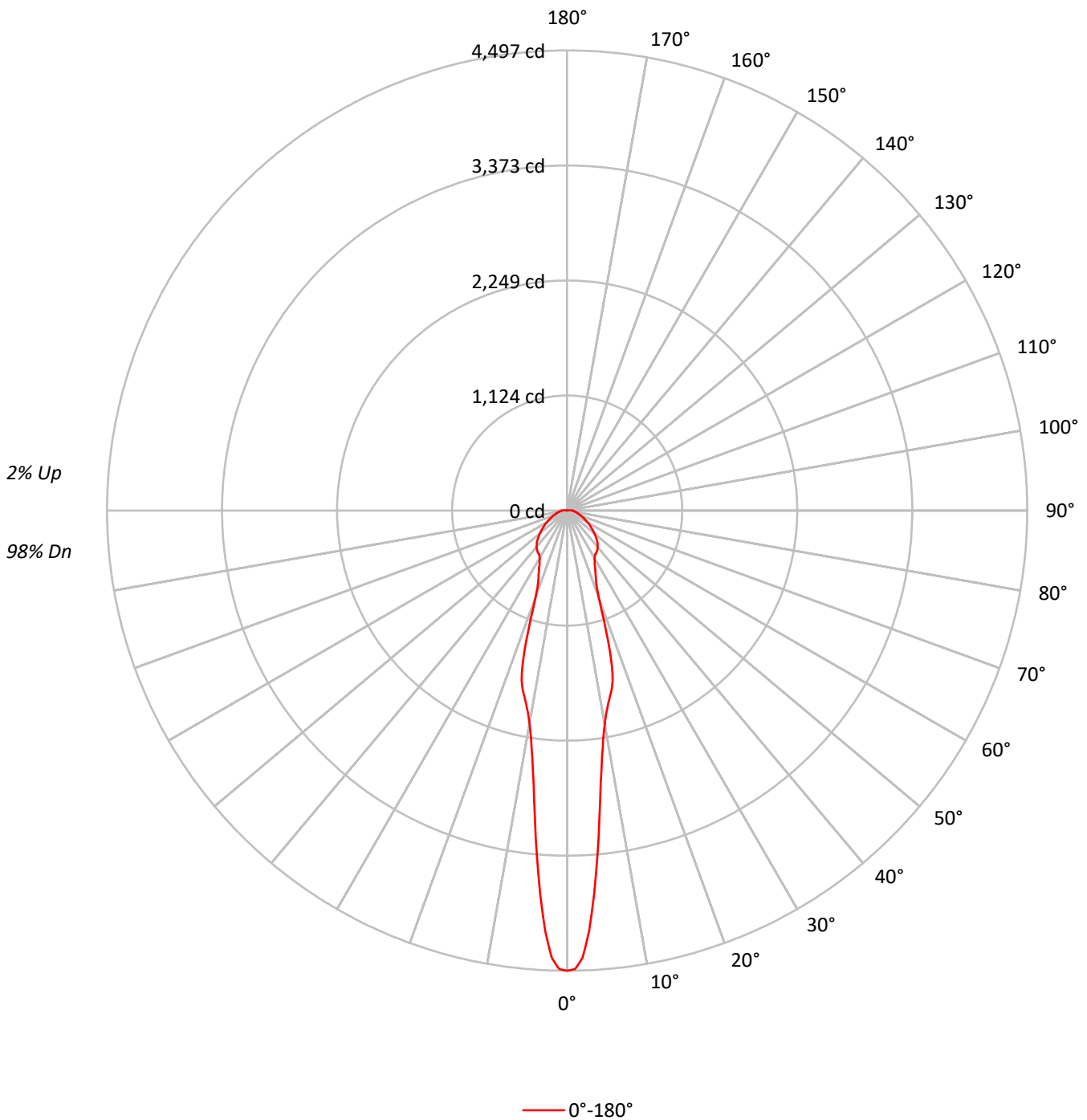
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2328.2 lumens  
Efficiency: N/A  
Efficacy: 57.6 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
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	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

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

	0°
0°	521588
5°	344253
10°	191486
15°	141823
20°	68454
25°	46607
30°	36225
35°	32365
40°	29032
45°	25130
50°	20770
55°	16858
60°	13604
65°	10775
70°	8465
75°	6811
80°	5468
85°	4435

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25130 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	277.8	11.9
10°-20°	438.4	18.8
20°-30°	304.7	13.1
30°-40°	312.2	13.4
40°-50°	316.5	13.6
50°-60°	256.7	11.0
60°-70°	181.3	7.8
70°-80°	118.5	5.1
80°-90°	74.5	3.2
90°-100°	40.1	1.7
100°-110°	7.6	0.3
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°	1020.9	43.8
0°-40°	1333.1	57.3
0°-60°	1906.3	81.9
0°-90°	2280.5	98.0
90°-120°	47.7	2.0
90°-150°	47.7	2.0
90°-180°	48.0	2.1
0°-180°	2328.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4497	
5°	3396	278
15°	1718	438
25°	652	305
35°	500	312
45°	413	316
55°	286	257
65°	182	181
75°	112	118
85°	68	59
90°	52	29
95°	38	27
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	0

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4497.1
1°	4480.8
2°	4369.3
3°	4113.8
4°	3768.5
5°	3396.0
6°	3020.7
7°	2683.6
8°	2441.6
9°	2251.3
10°	2112.6
11°	2012.0
12°	1930.4
13°	1862.5
14°	1797.2
15°	1718.4
16°	1593.3
17°	1422.0
18°	1226.2
19°	1038.6
20°	897.3
21°	810.2
22°	753.1
23°	717.8
24°	685.2
25°	652.5
27.5°	581.9
30°	535.6
32.5°	508.4
35°	500.3
37.5°	484.0
40°	464.9
42.5°	440.5
45°	413.3
47.5°	380.7
50°	348.0
52.5°	315.4
55°	285.5
57.5°	258.3
60°	231.1
62.5°	203.9
65°	182.2
67.5°	160.4
70°	141.4
72.5°	125.1

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	111.5
77.5°	97.9
80°	87.0
82.5°	76.1
85°	68.0
87.5°	59.8
90°	51.7
92.5°	46.2
95°	38.1
97.5°	27.2
100°	19.0
102.5°	10.9
105°	5.4
107.5°	2.7
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)