

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: P702063

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9050-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702063  
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-25-D010 / 340-EU4C-3040-9050-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

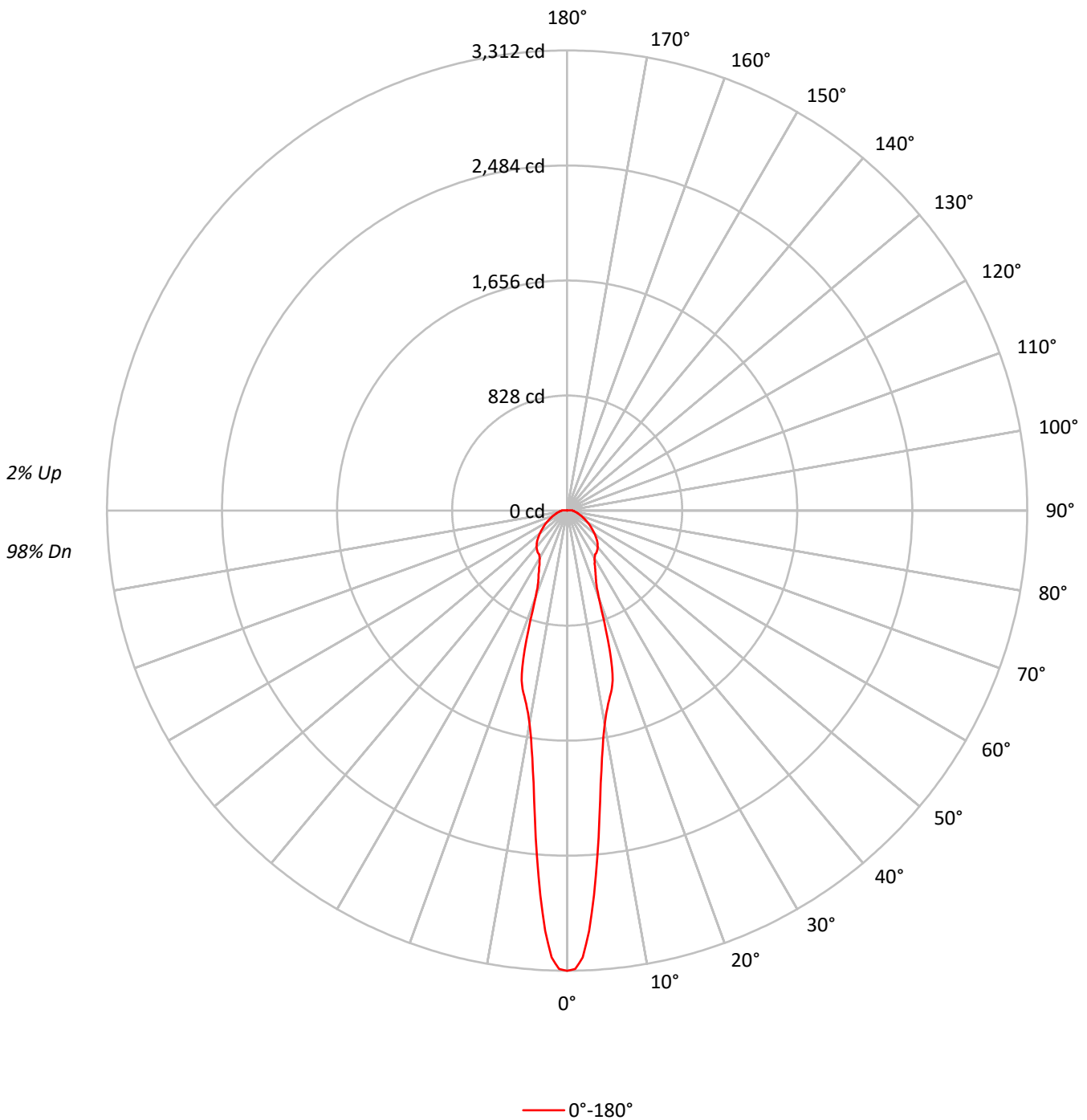
Lumens per Lamp: N/A  
Luminaire Lumens: 1714.9 lumens  
Efficiency: N/A  
Efficacy: 54.4 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 31.5  
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°	384183
5°	253557
10°	141045
15°	104461
20°	50419
25°	34329
30°	26682
35°	23839
40°	21388
45°	18508
50°	15297
55°	12418
60°	10019
65°	7936
70°	6232
75°	5015
80°	4028
85°	3268

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18508 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.6	11.9
10°-20°	322.9	18.8
20°-30°	224.4	13.1
30°-40°	230.0	13.4
40°-50°	233.1	13.6
50°-60°	189.1	11.0
60°-70°	133.5	7.8
70°-80°	87.2	5.1
80°-90°	54.9	3.2
90°-100°	29.5	1.7
100°-110°	5.6	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°	752.0	43.8
0°-40°	982.0	57.3
0°-60°	1404.1	81.9
0°-90°	1679.7	98.0
90°-120°	35.1	2.0
90°-150°	35.1	2.0
90°-180°	35.0	2.0
0°-180°	1714.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3312	
5°	2501	205
15°	1266	323
25°	481	224
35°	368	230
45°	304	233
55°	210	189
65°	134	134
75°	82	87
85°	50	44
90°	38	21
95°	28	20
105°	4	6
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°	3312.4
1°	3300.4
2°	3218.3
3°	3030.0
4°	2775.7
5°	2501.3
6°	2225.0
7°	1976.6
8°	1798.4
9°	1658.2
10°	1556.1
11°	1482.0
12°	1421.9
13°	1371.8
14°	1323.8
15°	1265.7
16°	1173.6
17°	1047.4
18°	903.2
19°	765.0
20°	660.9
21°	596.8
22°	554.7
23°	528.7
24°	504.7
25°	480.6
27.5°	428.6
30°	394.5
32.5°	374.5
35°	368.5
37.5°	356.5
40°	342.5
42.5°	324.4
45°	304.4
47.5°	280.4
50°	256.3
52.5°	232.3
55°	210.3
57.5°	190.3
60°	170.2
62.5°	150.2
65°	134.2
67.5°	118.2
70°	104.1
72.5°	92.1

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	82.1
77.5°	72.1
80°	64.1
82.5°	56.1
85°	50.1
87.5°	44.1
90°	38.1
92.5°	34.0
95°	28.0
97.5°	20.0
100°	14.0
102.5°	8.0
105°	4.0
107.5°	2.0
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)