

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: P701972

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701972  
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-20-D010 / 340-EU4C-1020-9024-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

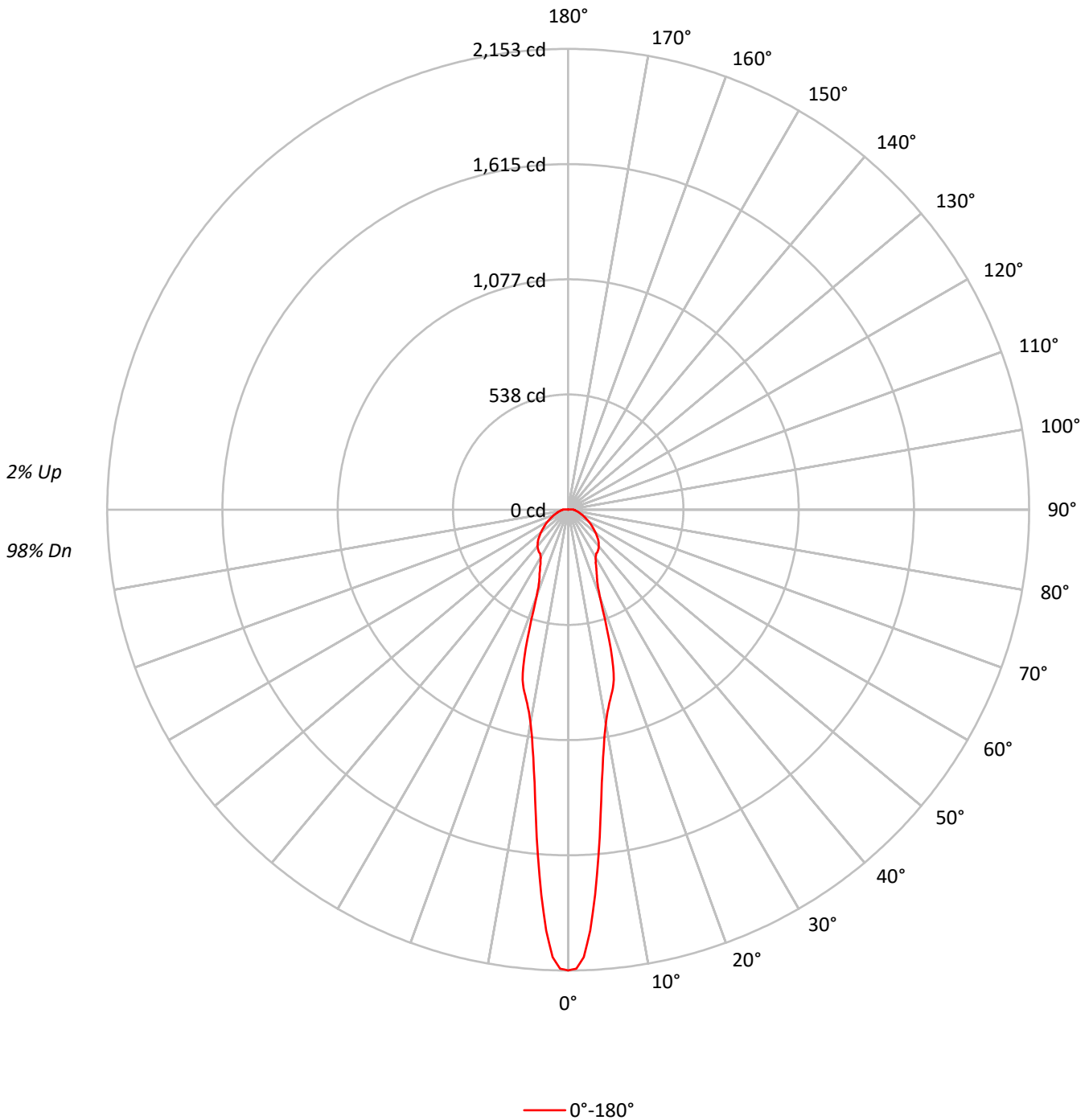
Lumens per Lamp: N/A  
Luminaire Lumens: 1114.4 lumens  
Efficiency: N/A  
Efficacy: 51.1 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 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	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°	249677
5°	164787
10°	91664
15°	67891
20°	32766
25°	22314
30°	17341
35°	15493
40°	13901
45°	12027
50°	9943
55°	8072
60°	6511
65°	5157
70°	4053
75°	3262
80°	2614
85°	2120

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12027 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.0	11.9
10°-20°	209.9	18.8
20°-30°	145.8	13.1
30°-40°	149.5	13.4
40°-50°	151.5	13.6
50°-60°	122.9	11.0
60°-70°	86.8	7.8
70°-80°	56.7	5.1
80°-90°	35.6	3.2
90°-100°	19.2	1.7
100°-110°	3.6	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°	488.7	43.9
0°-40°	638.2	57.3
0°-60°	912.5	81.9
0°-90°	1091.6	98.0
90°-120°	22.8	2.0
90°-150°	22.8	2.0
90°-180°	23.0	2.1
0°-180°	1114.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2153	
5°	1626	133
15°	823	210
25°	312	146
35°	240	149
45°	198	151
55°	137	123
65°	87	87
75°	53	57
85°	32	28
90°	25	14
95°	18	13
105°	3	4
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°	2152.7
1°	2144.9
2°	2091.6
3°	1969.2
4°	1803.9
5°	1625.6
6°	1446.0
7°	1284.6
8°	1168.8
9°	1077.7
10°	1011.3
11°	963.1
12°	924.1
13°	891.5
14°	860.3
15°	822.6
16°	762.7
17°	680.7
18°	587.0
19°	497.2
20°	429.5
21°	387.9
22°	360.5
23°	343.6
24°	328.0
25°	312.4
27.5°	278.5
30°	256.4
32.5°	243.4
35°	239.5
37.5°	231.7
40°	222.6
42.5°	210.8
45°	197.8
47.5°	182.2
50°	166.6
52.5°	151.0
55°	136.7
57.5°	123.6
60°	110.6
62.5°	97.6
65°	87.2
67.5°	76.8
70°	67.7
72.5°	59.9

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	53.4
77.5°	46.9
80°	41.6
82.5°	36.4
85°	32.5
87.5°	28.6
90°	24.7
92.5°	22.1
95°	18.2
97.5°	13.0
100°	9.1
102.5°	5.2
105°	2.6
107.5°	1.3
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)