

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: P701971

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701971  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)  
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-CC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

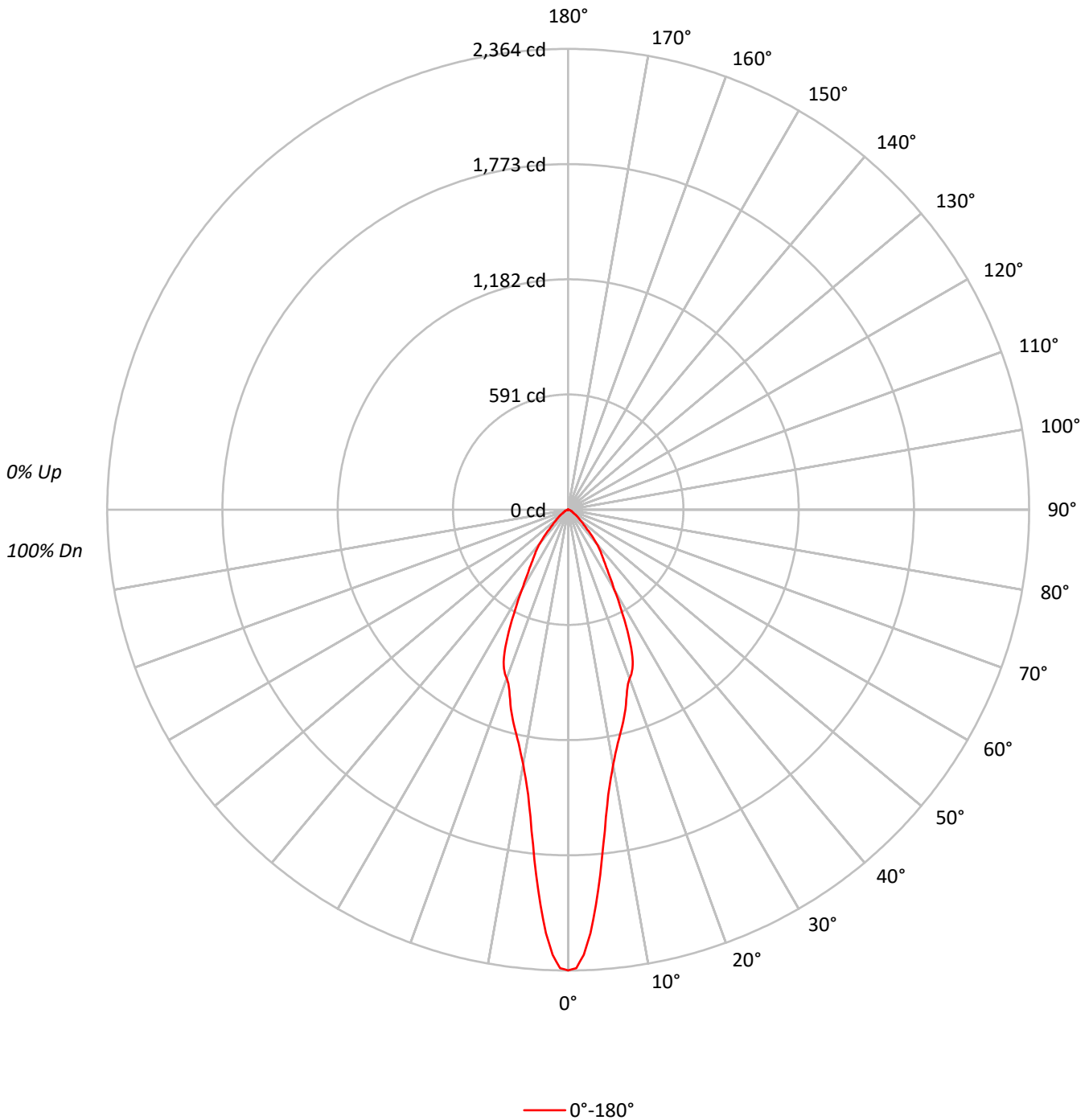
Lumens per Lamp: N/A  
Luminaire Lumens: 1181.7 lumens  
Efficiency: N/A  
Efficacy: 54.2 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

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	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	82	76	72	80	75	71		78	74	70		76	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65	61	57	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	52		59	55	51		59	54	51	50

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

	0°
0°	274138
5°	218963
10°	156508
15°	132682
20°	113738
25°	96274
30°	63280
35°	45153
40°	34490
45°	20273
50°	13388
55°	9747
60°	6333
65°	5708
70°	4849
75°	3495
80°	2605
85°	1730

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 20273 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.9	13.5
10°-20°	307.3	26.0
20°-30°	331.9	28.1
30°-40°	205.0	17.4
40°-50°	102.7	8.7
50°-60°	43.1	3.6
60°-70°	20.2	1.7
70°-80°	8.9	0.8
80°-90°	1.9	0.2
90°-100°	0.2	0.0
100°-110°	0.5	0.0
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°	799.1	67.6
0°-40°	1004.1	85.0
0°-60°	1149.9	97.3
0°-90°	1181.0	99.9
90°-120°	0.7	0.1
90°-150°	0.7	0.1
90°-180°	1.0	0.1
0°-180°	1181.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2364	
5°	1881	160
15°	1105	307
25°	752	332
35°	319	205
45°	124	103
55°	48	43
65°	21	20
75°	8	9
85°	1	2
90°	0	0
95°	0	1
105°	0	1
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°	2363.6
1°	2351.9
2°	2285.5
3°	2176.1
4°	2034.3
5°	1880.7
6°	1727.1
7°	1587.9
8°	1477.2
9°	1393.9
10°	1328.9
11°	1272.9
12°	1224.7
13°	1183.1
14°	1145.3
15°	1105.0
16°	1064.6
17°	1019.1
18°	977.4
19°	943.6
20°	921.5
21°	903.3
22°	879.8
23°	847.3
24°	803.0
25°	752.3
27.5°	605.2
30°	472.5
32.5°	381.3
35°	318.9
37.5°	273.3
40°	227.8
42.5°	170.5
45°	123.6
47.5°	93.7
50°	74.2
52.5°	61.2
55°	48.2
57.5°	33.8
60°	27.3
62.5°	23.4
65°	20.8
67.5°	16.9
70°	14.3
72.5°	10.4

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	7.8
77.5°	6.5
80°	3.9
82.5°	2.6
85°	1.3
87.5°	1.3
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	1.3
102.5°	1.3
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)