

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: P701999

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-CC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701999  
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-1020-9040-4LBW1LI-CC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

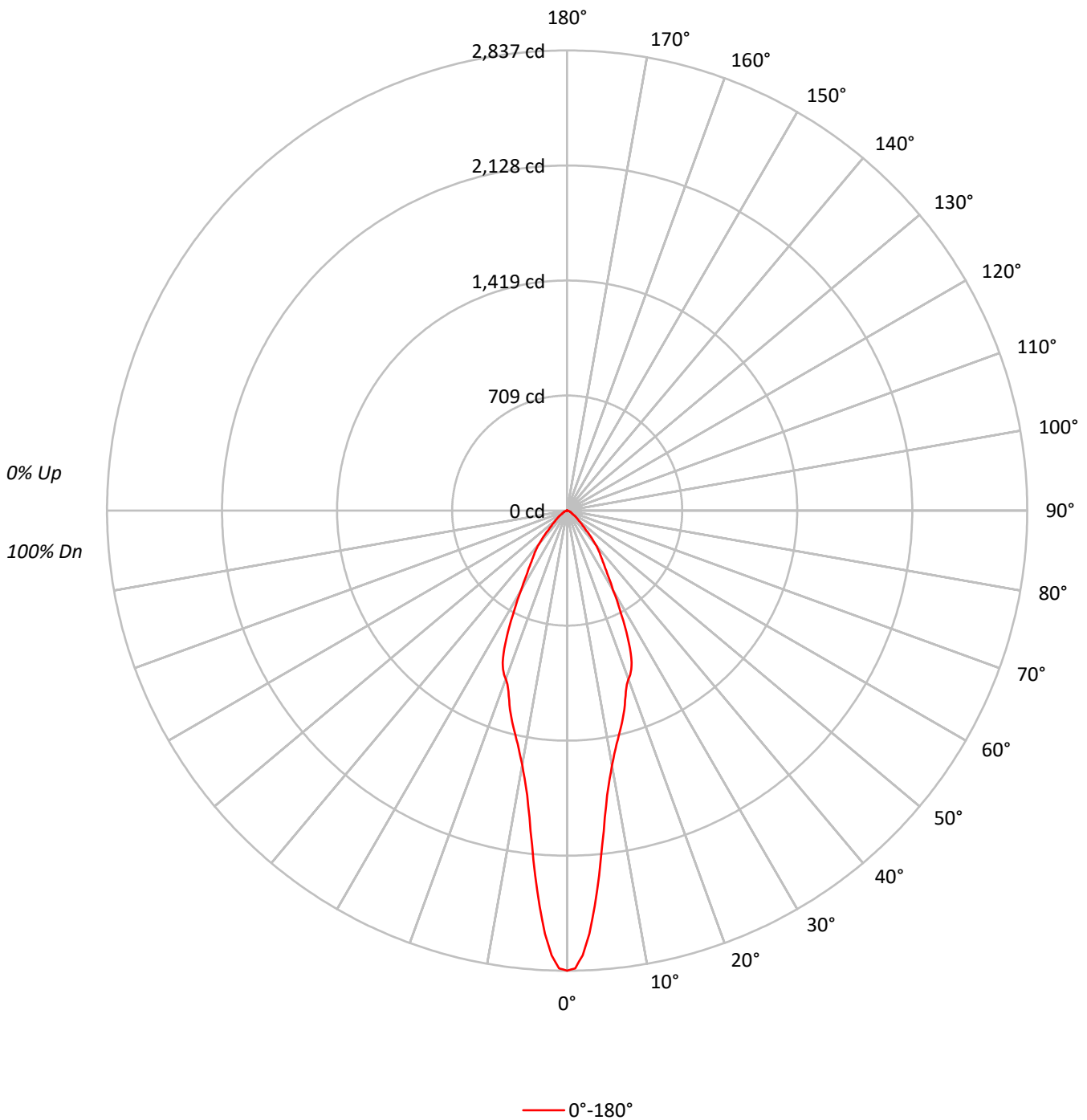
Lumens per Lamp: N/A  
Luminaire Lumens: 1418.3 lumens  
Efficiency: N/A  
Efficacy: 65.1 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

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°	329009
5°	262797
10°	187823
15°	159243
20°	136498
25°	115547
30°	75936
35°	54186
40°	41394
45°	24341
50°	16059
55°	11688
60°	7608
65°	6861
70°	5833
75°	4212
80°	3139
85°	2129

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 24341 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.9	13.5
10°-20°	368.8	26.0
20°-30°	398.3	28.1
30°-40°	246.1	17.3
40°-50°	123.3	8.7
50°-60°	51.7	3.6
60°-70°	24.3	1.7
70°-80°	10.7	0.8
80°-90°	2.4	0.2
90°-100°	0.2	0.0
100°-110°	0.6	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°	959.1	67.6
0°-40°	1205.1	85.0
0°-60°	1380.0	97.3
0°-90°	1417.4	99.9
90°-120°	0.9	0.1
90°-150°	0.9	0.1
90°-180°	1.0	0.1
0°-180°	1418.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2837	
5°	2257	192
15°	1326	369
25°	903	398
35°	383	246
45°	148	123
55°	58	52
65°	25	24
75°	9	11
85°	2	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°	2836.7
1°	2822.6
2°	2743.0
3°	2611.7
4°	2441.5
5°	2257.2
6°	2072.8
7°	1905.7
8°	1772.9
9°	1673.0
10°	1594.8
11°	1527.7
12°	1469.9
13°	1419.9
14°	1374.6
15°	1326.2
16°	1277.8
17°	1223.1
18°	1173.1
19°	1132.5
20°	1105.9
21°	1084.1
22°	1055.9
23°	1016.9
24°	963.8
25°	902.9
27.5°	726.4
30°	567.0
32.5°	457.7
35°	382.7
37.5°	328.0
40°	273.4
42.5°	204.6
45°	148.4
47.5°	112.5
50°	89.0
52.5°	73.4
55°	57.8
57.5°	40.6
60°	32.8
62.5°	28.1
65°	25.0
67.5°	20.3
70°	17.2
72.5°	12.5

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	9.4
77.5°	7.8
80°	4.7
82.5°	3.1
85°	1.6
87.5°	1.6
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	1.6
102.5°	1.6
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)