

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: P702246

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9730-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702246  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9730-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

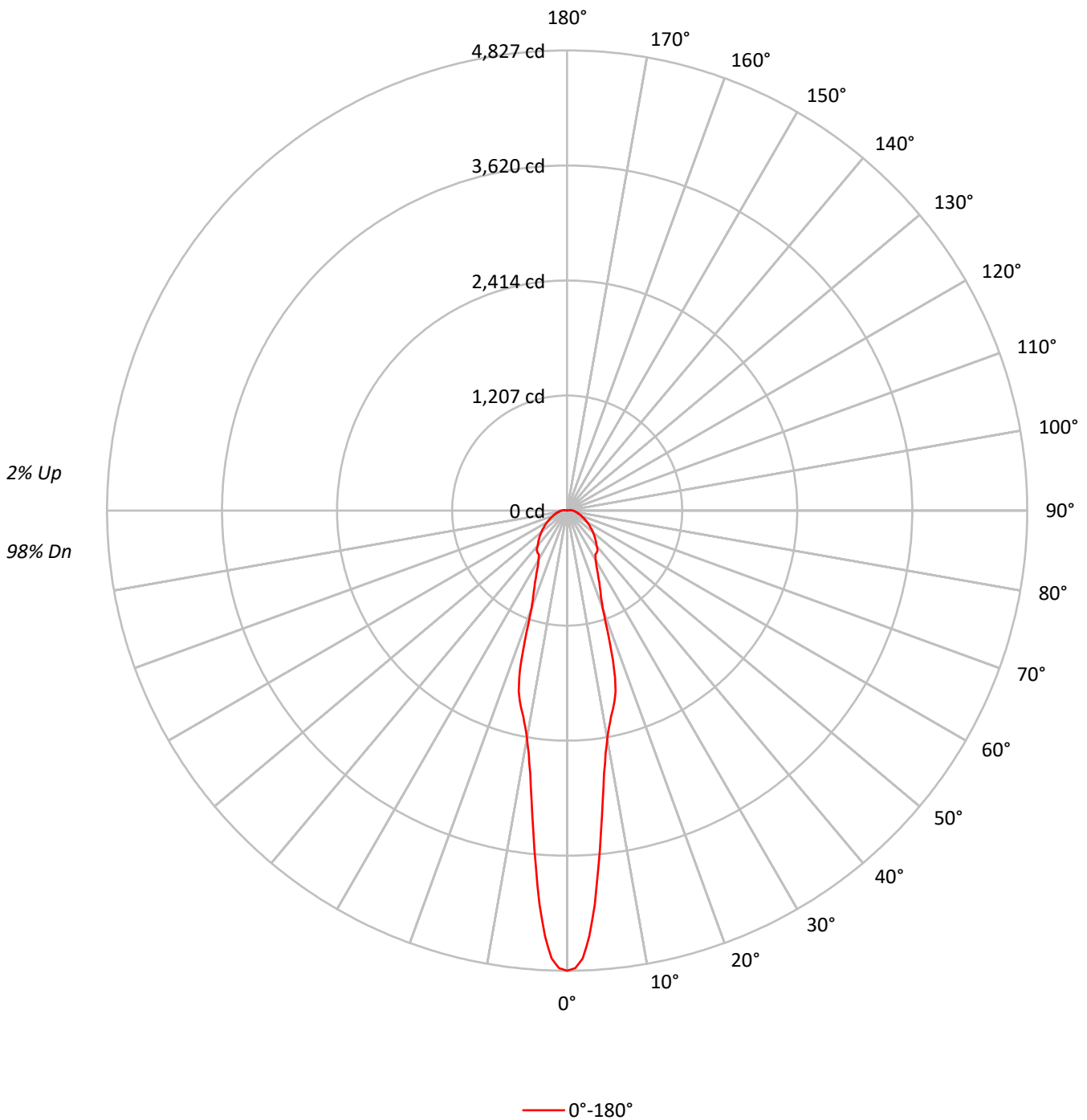
Lumens per Lamp: N/A  
Luminaire Lumens: 2572.2 lumens  
Efficiency: N/A  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 47  
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	99	92	87	82	88	84	80		85	81	78		81	78	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	78	70	64	86	76	69	64	74	68	63		71	66	62		69	64	61	59
5	82	71	64	58	80	70	63	58	68	62	57		66	60	56		64	59	55	53
6	77	66	58	53	76	65	58	53	63	57	52		61	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	45
8	69	58	50	45	68	57	50	45	55	49	45		54	49	44		53	48	44	42
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		50	45	41	40
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	37

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

	0°
0°	559839
5°	380990
10°	219603
15°	162019
20°	83406
25°	55464
30°	40547
35°	34965
40°	30063
45°	25306
50°	21134
55°	17425
60°	14264
65°	11573
70°	9298
75°	7587
80°	6247
85°	5068

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25306 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.2	12.1
10°-20°	506.7	19.7
20°-30°	362.5	14.1
30°-40°	337.4	13.1
40°-50°	321.3	12.5
50°-60°	264.5	10.3
60°-70°	194.4	7.6
70°-80°	132.9	5.2
80°-90°	85.5	3.3
90°-100°	47.1	1.8
100°-110°	8.7	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°	1180.4	45.9
0°-40°	1517.8	59.0
0°-60°	2103.6	81.8
0°-90°	2516.4	97.8
90°-120°	55.8	2.2
90°-150°	55.8	2.2
90°-180°	56.0	2.2
0°-180°	2572.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4827	
5°	3758	311
15°	1963	507
25°	776	362
35°	540	337
45°	416	321
55°	295	264
65°	196	194
75°	124	133
85°	78	68
90°	62	34
95°	44	31
105°	6	9
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°	4826.9
1°	4802.0
2°	4699.5
3°	4466.6
4°	4143.5
5°	3758.4
6°	3391.9
7°	3062.6
8°	2786.2
9°	2578.1
10°	2422.8
11°	2307.8
12°	2211.5
13°	2133.9
14°	2056.2
15°	1963.1
16°	1826.4
17°	1646.2
18°	1435.0
19°	1239.3
20°	1093.3
21°	1003.3
22°	938.0
23°	882.1
24°	829.3
25°	776.5
27.5°	667.8
30°	599.5
32.5°	549.8
35°	540.5
37.5°	524.9
40°	481.4
42.5°	447.3
45°	416.2
47.5°	385.2
50°	354.1
52.5°	323.0
55°	295.1
57.5°	267.1
60°	242.3
62.5°	217.4
65°	195.7
67.5°	173.9
70°	155.3
72.5°	139.8

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	124.2
77.5°	111.8
80°	99.4
82.5°	87.0
85°	77.7
87.5°	68.3
90°	62.1
92.5°	55.9
95°	43.5
97.5°	31.1
100°	21.7
102.5°	12.4
105°	6.2
107.5°	3.1
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)