

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: P702218

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702218  
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-3040-9035-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

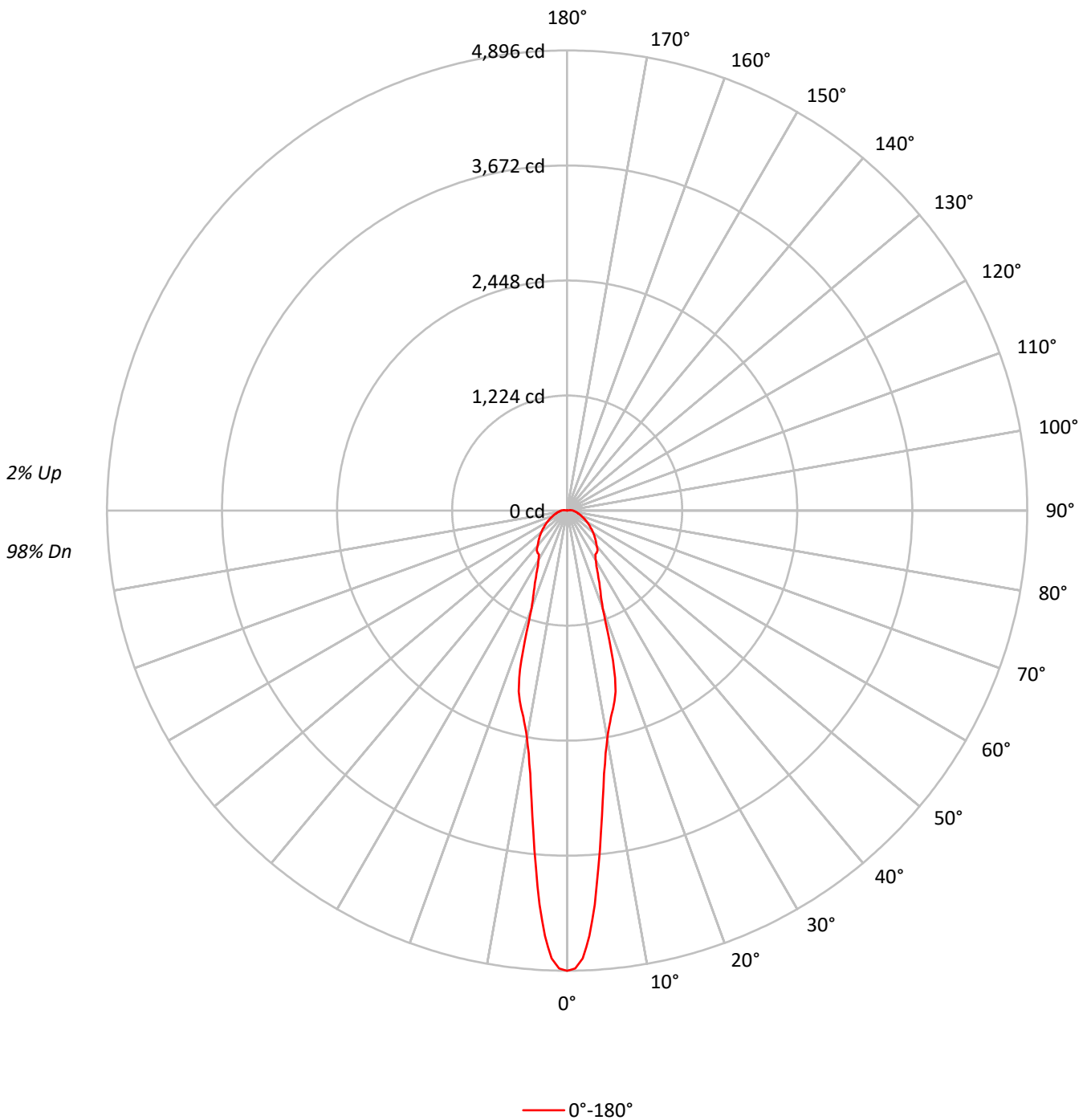
Lumens per Lamp: N/A  
Luminaire Lumens: 2609.3 lumens  
Efficiency: N/A  
Efficacy: 55.5 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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°	567912
5°	386484
10°	222766
15°	164354
20°	84612
25°	56264
30°	41129
35°	35470
40°	30500
45°	25671
50°	21439
55°	17673
60°	14470
65°	11739
70°	9429
75°	7697
80°	6335
85°	5139

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 25671 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	315.7	12.1
10°-20°	514.0	19.7
20°-30°	367.7	14.1
30°-40°	342.3	13.1
40°-50°	325.9	12.5
50°-60°	268.3	10.3
60°-70°	197.3	7.6
70°-80°	134.8	5.2
80°-90°	86.7	3.3
90°-100°	47.8	1.8
100°-110°	8.8	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°	1197.4	45.9
0°-40°	1539.7	59.0
0°-60°	2133.9	81.8
0°-90°	2552.7	97.8
90°-120°	56.6	2.2
90°-150°	56.6	2.2
90°-180°	57.0	2.2
0°-180°	2609.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4896	
5°	3813	316
15°	1991	514
25°	788	368
35°	548	342
45°	422	326
55°	299	268
65°	198	197
75°	126	135
85°	79	69
90°	63	35
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	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4896.5
1°	4871.3
2°	4767.3
3°	4531.0
4°	4203.3
5°	3812.6
6°	3440.8
7°	3106.8
8°	2826.3
9°	2615.2
10°	2457.7
11°	2341.1
12°	2243.4
13°	2164.7
14°	2085.9
15°	1991.4
16°	1852.7
17°	1670.0
18°	1455.7
19°	1257.2
20°	1109.1
21°	1017.7
22°	951.6
23°	894.8
24°	841.3
25°	787.7
27.5°	677.4
30°	608.1
32.5°	557.7
35°	548.3
37.5°	532.5
40°	488.4
42.5°	453.7
45°	422.2
47.5°	390.7
50°	359.2
52.5°	327.7
55°	299.3
57.5°	271.0
60°	245.8
62.5°	220.6
65°	198.5
67.5°	176.4
70°	157.5
72.5°	141.8

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	126.0
77.5°	113.4
80°	100.8
82.5°	88.2
85°	78.8
87.5°	69.3
90°	63.0
92.5°	56.7
95°	44.1
97.5°	31.5
100°	22.1
102.5°	12.6
105°	6.3
107.5°	3.2
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)