

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: P702197

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702197  
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-3040-9024-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

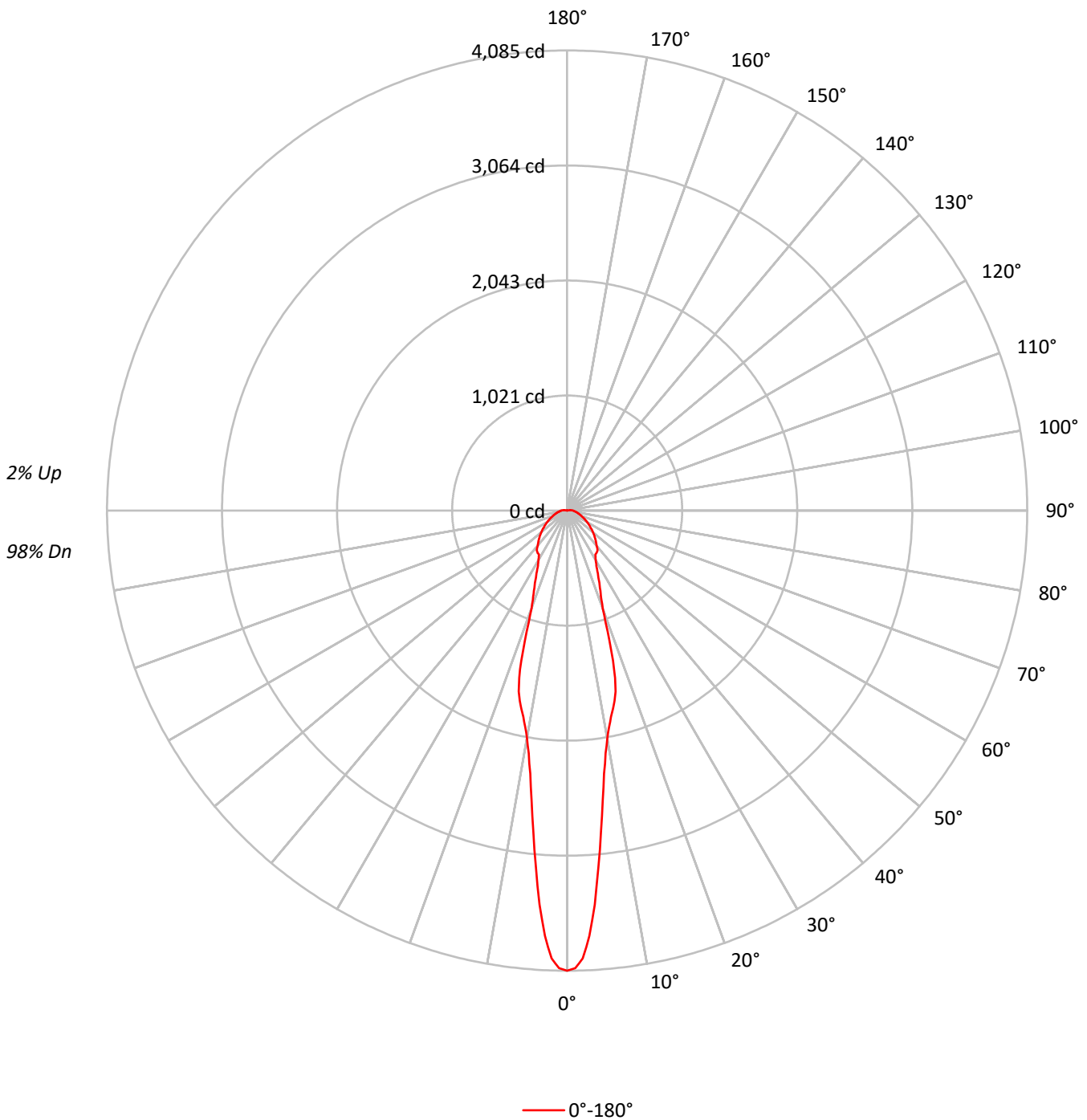
Lumens per Lamp: N/A  
Luminaire Lumens: 2176.8 lumens  
Efficiency: N/A  
Efficacy: 46.3 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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	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°	473780
5°	322428
10°	185848
15°	137111
20°	70590
25°	46943
30°	34311
35°	29590
40°	25441
45°	21415
50°	17888
55°	14744
60°	12068
65°	9793
70°	7867
75°	6420
80°	5285
85°	4285

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21415 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.4	12.1
10°-20°	428.8	19.7
20°-30°	306.8	14.1
30°-40°	285.6	13.1
40°-50°	271.9	12.5
50°-60°	223.8	10.3
60°-70°	164.6	7.6
70°-80°	112.4	5.2
80°-90°	72.4	3.3
90°-100°	39.8	1.8
100°-110°	7.4	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°	999.0	45.9
0°-40°	1284.5	59.0
0°-60°	1780.3	81.8
0°-90°	2129.6	97.8
90°-120°	47.2	2.2
90°-150°	47.2	2.2
90°-180°	47.0	2.2
0°-180°	2176.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4085	
5°	3181	263
15°	1661	429
25°	657	307
35°	457	286
45°	352	272
55°	250	224
65°	166	165
75°	105	112
85°	66	57
90°	53	29
95°	37	26
105°	5	7
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°	4084.9
1°	4063.9
2°	3977.2
3°	3780.0
4°	3506.6
5°	3180.7
6°	2870.5
7°	2591.9
8°	2357.9
9°	2181.8
10°	2050.4
11°	1953.1
12°	1871.6
13°	1805.9
14°	1740.2
15°	1661.3
16°	1545.7
17°	1393.2
18°	1214.4
19°	1048.8
20°	925.3
21°	849.1
22°	793.9
23°	746.5
24°	701.9
25°	657.2
27.5°	565.2
30°	507.3
32.5°	465.3
35°	457.4
37.5°	444.2
40°	407.4
42.5°	378.5
45°	352.2
47.5°	326.0
50°	299.7
52.5°	273.4
55°	249.7
57.5°	226.1
60°	205.0
62.5°	184.0
65°	165.6
67.5°	147.2
70°	131.4
72.5°	118.3

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	105.1
77.5°	94.6
80°	84.1
82.5°	73.6
85°	65.7
87.5°	57.8
90°	52.6
92.5°	47.3
95°	36.8
97.5°	26.3
100°	18.4
102.5°	10.5
105°	5.3
107.5°	2.6
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)