

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: P702162

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702162  
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-35-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

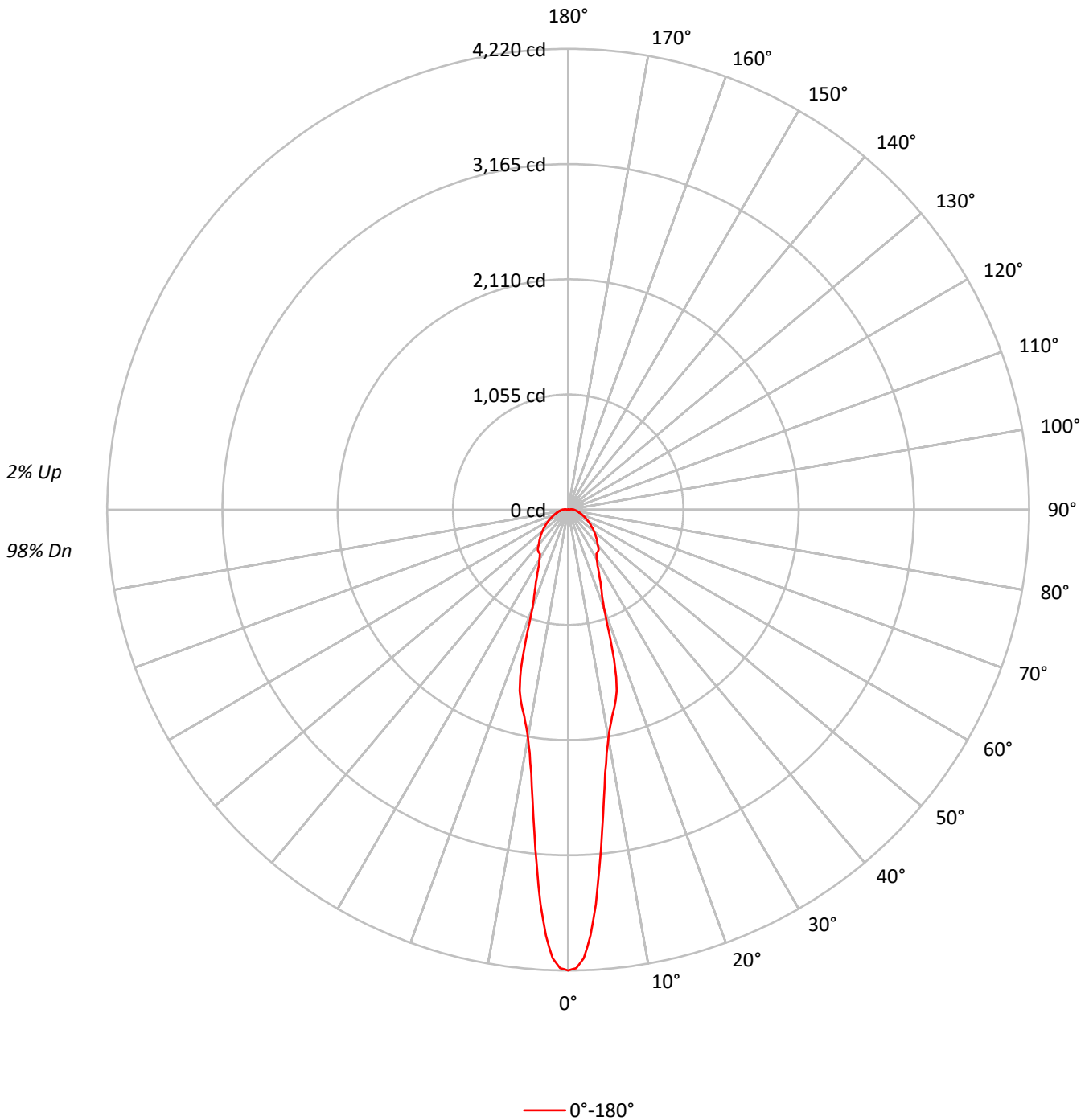
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2248.9 lumens  
Efficiency: N/A  
Efficacy: 55.7 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): 40.4  
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°	489472
5°	333102
10°	192003
15°	141650
20°	72924
25°	48493
30°	35447
35°	30566
40°	26284
45°	22126
50°	18478
55°	15234
60°	12468
65°	10119
70°	8130
75°	6634
80°	5461
85°	4428

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22126 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.1	12.1
10°-20°	443.0	19.7
20°-30°	316.9	14.1
30°-40°	295.0	13.1
40°-50°	280.9	12.5
50°-60°	231.2	10.3
60°-70°	170.0	7.6
70°-80°	116.2	5.2
80°-90°	74.7	3.3
90°-100°	41.2	1.8
100°-110°	7.6	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°	1032.0	45.9
0°-40°	1327.1	59.0
0°-60°	1839.2	81.8
0°-90°	2200.2	97.8
90°-120°	48.8	2.2
90°-150°	48.8	2.2
90°-180°	49.0	2.2
0°-180°	2248.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4220	
5°	3286	272
15°	1716	443
25°	679	317
35°	472	295
45°	364	281
55°	258	231
65°	171	170
75°	109	116
85°	68	59
90°	54	30
95°	38	27
105°	5	8
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°	4220.2
1°	4198.5
2°	4108.9
3°	3905.2
4°	3622.8
5°	3286.0
6°	2965.6
7°	2677.7
8°	2436.0
9°	2254.0
10°	2118.3
11°	2017.8
12°	1933.6
13°	1865.7
14°	1797.8
15°	1716.3
16°	1596.8
17°	1439.3
18°	1254.7
19°	1083.6
20°	955.9
21°	877.2
22°	820.1
23°	771.3
24°	725.1
25°	678.9
27.5°	583.9
30°	524.1
32.5°	480.7
35°	472.5
37.5°	459.0
40°	420.9
42.5°	391.1
45°	363.9
47.5°	336.7
50°	309.6
52.5°	282.4
55°	258.0
57.5°	233.6
60°	211.8
62.5°	190.1
65°	171.1
67.5°	152.1
70°	135.8
72.5°	122.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	108.6
77.5°	97.8
80°	86.9
82.5°	76.0
85°	67.9
87.5°	59.7
90°	54.3
92.5°	48.9
95°	38.0
97.5°	27.2
100°	19.0
102.5°	10.9
105°	5.4
107.5°	2.7
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)