

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: P702169

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702169  
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-3040-9040-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

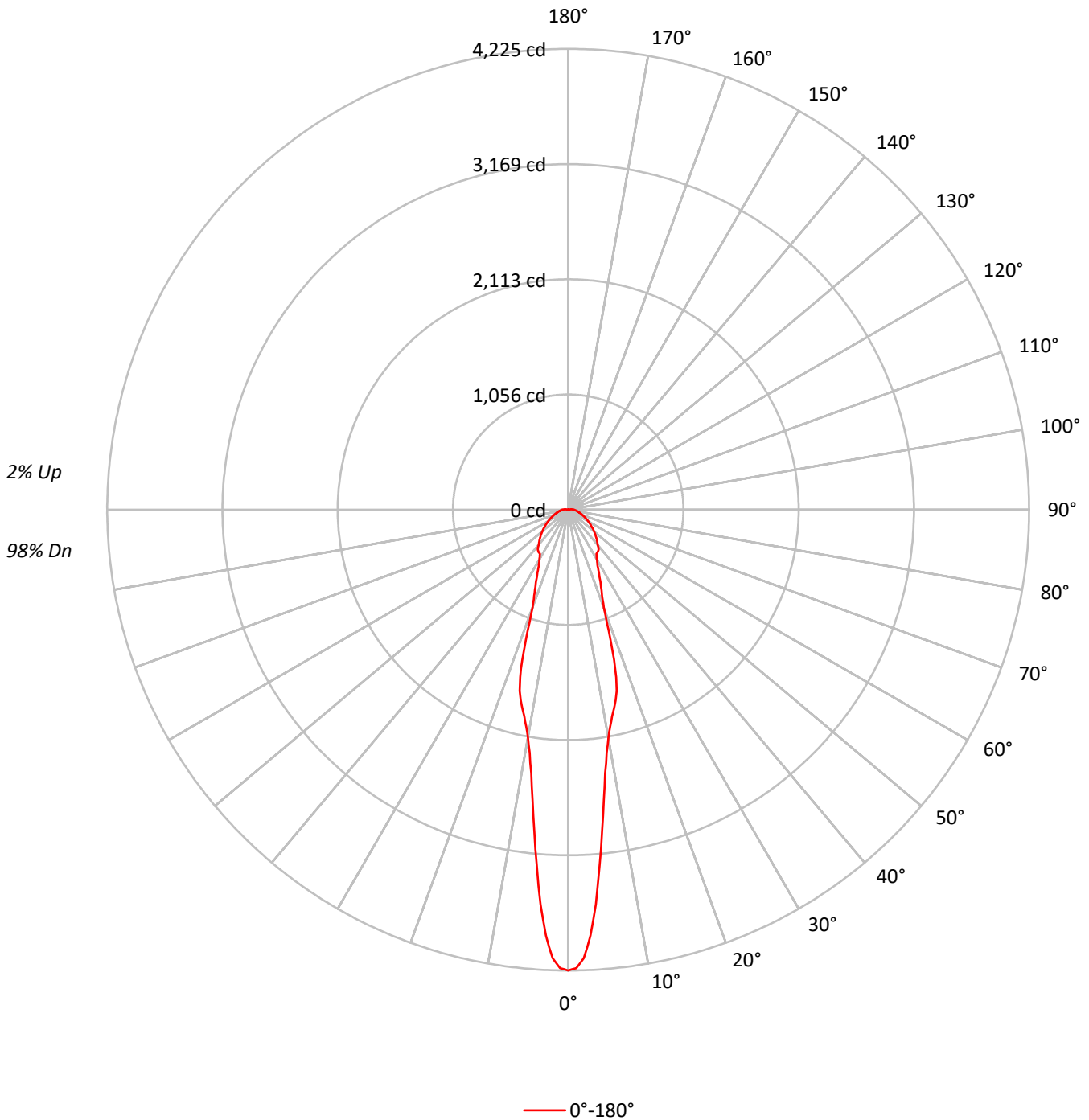
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2251.6 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°	490052
5°	333498
10°	192229
15°	141823
20°	73016
25°	48550
30°	35495
35°	30605
40°	26316
45°	22150
50°	18502
55°	15252
60°	12486
65°	10130
70°	8136
75°	6646
80°	5468
85°	4435

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 22150 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.4	12.1
10°-20°	443.5	19.7
20°-30°	317.3	14.1
30°-40°	295.4	13.1
40°-50°	281.2	12.5
50°-60°	231.5	10.3
60°-70°	170.2	7.6
70°-80°	116.3	5.2
80°-90°	74.9	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°	1033.3	45.9
0°-40°	1328.6	59.0
0°-60°	1841.4	81.8
0°-90°	2202.8	97.8
90°-120°	48.8	2.2
90°-150°	48.8	2.2
90°-180°	49.0	2.2
0°-180°	2251.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4225	
5°	3290	272
15°	1718	444
25°	680	317
35°	473	295
45°	364	281
55°	258	232
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°	4225.2
1°	4203.5
2°	4113.7
3°	3909.8
4°	3627.0
5°	3289.9
6°	2969.1
7°	2680.9
8°	2438.9
9°	2256.7
10°	2120.8
11°	2020.2
12°	1935.9
13°	1867.9
14°	1799.9
15°	1718.4
16°	1598.7
17°	1441.0
18°	1256.1
19°	1084.8
20°	957.1
21°	878.2
22°	821.1
23°	772.2
24°	726.0
25°	679.7
27.5°	584.6
30°	524.8
32.5°	481.2
35°	473.1
37.5°	459.5
40°	421.4
42.5°	391.5
45°	364.3
47.5°	337.1
50°	310.0
52.5°	282.8
55°	258.3
57.5°	233.8
60°	212.1
62.5°	190.3
65°	171.3
67.5°	152.3
70°	135.9
72.5°	122.4

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	108.8
77.5°	97.9
80°	87.0
82.5°	76.1
85°	68.0
87.5°	59.8
90°	54.4
92.5°	48.9
95°	38.1
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)