

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: P701749

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701749  
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-05-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

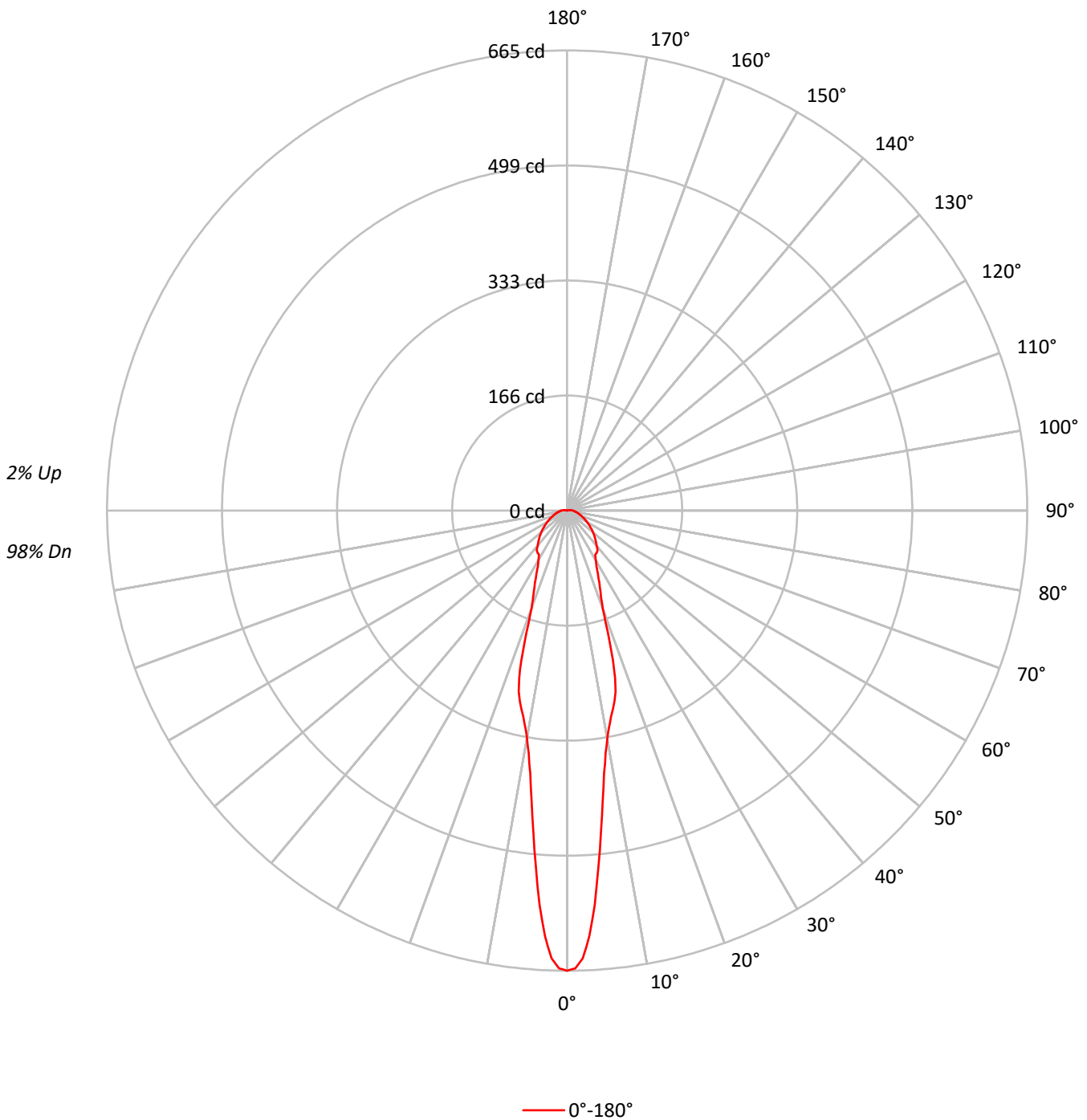
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 354.4 lumens  
Efficiency: N/A  
Efficacy: 49.2 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): 7.2  
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	51		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	62	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	37

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

	0°
0°	77129
5°	52489
10°	30256
15°	22325
20°	11489
25°	7643
30°	5587
35°	4819
40°	4140
45°	3484
50°	2913
55°	2403
60°	1966
65°	1597
70°	1281
75°	1045
80°	861
85°	698

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3484 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.9	12.1
10°-20°	69.8	19.7
20°-30°	49.9	14.1
30°-40°	46.5	13.1
40°-50°	44.3	12.5
50°-60°	36.4	10.3
60°-70°	26.8	7.6
70°-80°	18.3	5.2
80°-90°	11.8	3.3
90°-100°	6.5	1.8
100°-110°	1.2	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°	162.6	45.9
0°-40°	209.1	59.0
0°-60°	289.8	81.8
0°-90°	346.7	97.8
90°-120°	7.7	2.2
90°-150°	7.7	2.2
90°-180°	8.0	2.3
0°-180°	354.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	665	
5°	518	43
15°	270	70
25°	107	50
35°	74	46
45°	57	44
55°	41	36
65°	27	27
75°	17	18
85°	11	9
90°	9	5
95°	6	4
105°	1	1
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°	665.0
1°	661.6
2°	647.5
3°	615.4
4°	570.9
5°	517.8
6°	467.3
7°	422.0
8°	383.9
9°	355.2
10°	333.8
11°	318.0
12°	304.7
13°	294.0
14°	283.3
15°	270.5
16°	251.6
17°	226.8
18°	197.7
19°	170.7
20°	150.6
21°	138.2
22°	129.2
23°	121.5
24°	114.3
25°	107.0
27.5°	92.0
30°	82.6
32.5°	75.7
35°	74.5
37.5°	72.3
40°	66.3
42.5°	61.6
45°	57.3
47.5°	53.1
50°	48.8
52.5°	44.5
55°	40.7
57.5°	36.8
60°	33.4
62.5°	30.0
65°	27.0
67.5°	24.0
70°	21.4
72.5°	19.3

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	17.1
77.5°	15.4
80°	13.7
82.5°	12.0
85°	10.7
87.5°	9.4
90°	8.6
92.5°	7.7
95°	6.0
97.5°	4.3
100°	3.0
102.5°	1.7
105°	0.9
107.5°	0.4
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)