

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: P702079

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9730-4LBW1LI-FF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702079  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-25-D010 / 340-EU4C-3040-9730-4LBW1LI-FF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

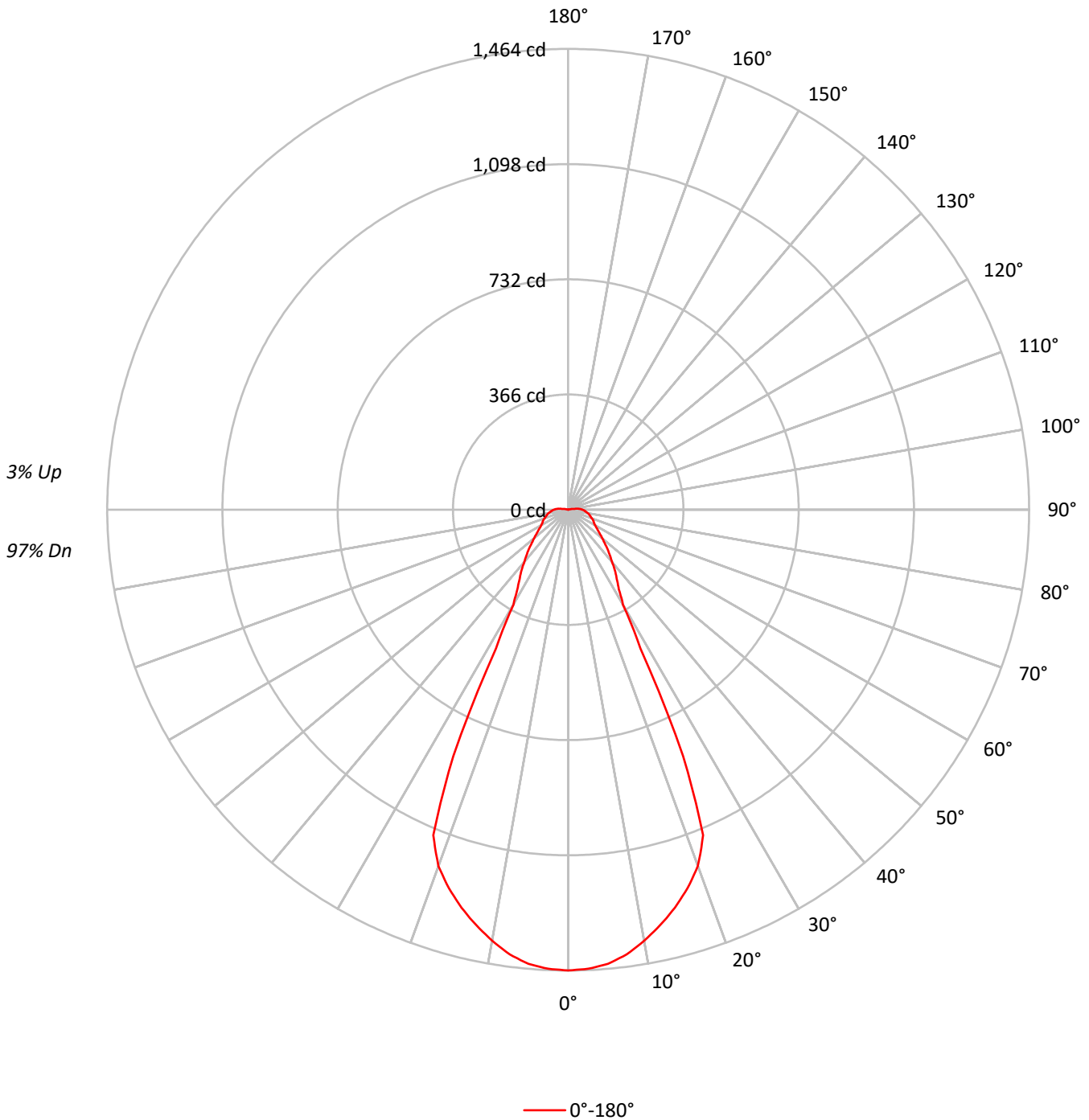
Lumens per Lamp: N/A  
Luminaire Lumens: 1541.3 lumens  
Efficiency: N/A  
Efficacy: 48.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 31.5  
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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	109	105	102	98	107	103	99	96	98	95	93		94	92	90		90	88	86	84
2	102	95	89	85	99	93	88	83	89	85	81		86	82	79		82	80	77	75
3	95	87	80	75	93	85	79	74	82	77	72		79	75	71		76	73	69	67
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71	67	63	61
5	84	74	66	61	82	73	66	61	70	64	60		68	63	59		66	62	58	56
6	79	69	61	56	78	68	61	56	66	60	55		64	59	55		62	58	54	52
7	75	64	57	52	73	63	56	52	62	56	51		60	55	51		59	54	50	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		55	51	47	45
9	68	57	50	45	66	56	50	45	55	49	45		54	48	44		53	48	44	43
10	64	53	47	43	63	53	47	42	52	46	42		51	46	42		50	45	42	40

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

	0°
0°	169765
5°	146804
10°	126008
15°	108034
20°	91897
25°	61736
30°	23537
35°	17389
40°	13526
45°	10701
50°	8427
55°	6850
60°	5804
65°	5257
70°	4748
75°	4368
80°	4010
85°	3528

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10701 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.4	8.8
10°-20°	367.2	23.8
20°-30°	363.2	23.6
30°-40°	170.4	11.1
40°-50°	136.0	8.8
50°-60°	105.0	6.8
60°-70°	88.2	5.7
70°-80°	75.6	4.9
80°-90°	59.0	3.8
90°-100°	34.1	2.2
100°-110°	6.2	0.4
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°	866.8	56.2
0°-40°	1037.1	67.3
0°-60°	1278.2	82.9
0°-90°	1501.0	97.4
90°-120°	40.3	2.6
90°-150°	40.3	2.6
90°-180°	40.0	2.6
0°-180°	1541.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1464	
5°	1448	136
15°	1309	367
25°	864	363
35°	269	170
45°	176	136
55°	116	105
65°	89	88
75°	72	76
85°	54	46
90°	44	25
95°	33	22
105°	4	6
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°	1463.7
2.5°	1459.8
5°	1448.2
7.5°	1425.0
10°	1390.2
12.5°	1351.6
15°	1309.0
17.5°	1260.7
20°	1204.6
22.5°	1119.5
25°	864.3
27.5°	496.9
30°	348.0
32.5°	299.7
35°	268.8
37.5°	243.6
40°	216.6
42.5°	195.3
45°	176.0
47.5°	156.6
50°	141.2
52.5°	127.6
55°	116.0
57.5°	106.3
60°	98.6
62.5°	92.8
65°	88.9
67.5°	85.1
70°	79.3
72.5°	75.4
75°	71.5
77.5°	67.7
80°	63.8
82.5°	58.0
85°	54.1
87.5°	50.3
90°	44.5
92.5°	40.6
95°	32.9
97.5°	21.3
100°	15.5
102.5°	9.7
105°	3.9
107.5°	1.9
110°	0.0

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**CANDELA DISTRIBUTION (continued):**

	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)