

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: P701785

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9050-4LBW1LI-FF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701785  
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-05-D010 / 340-EU4C-1020-9050-4LBW1LI-FF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

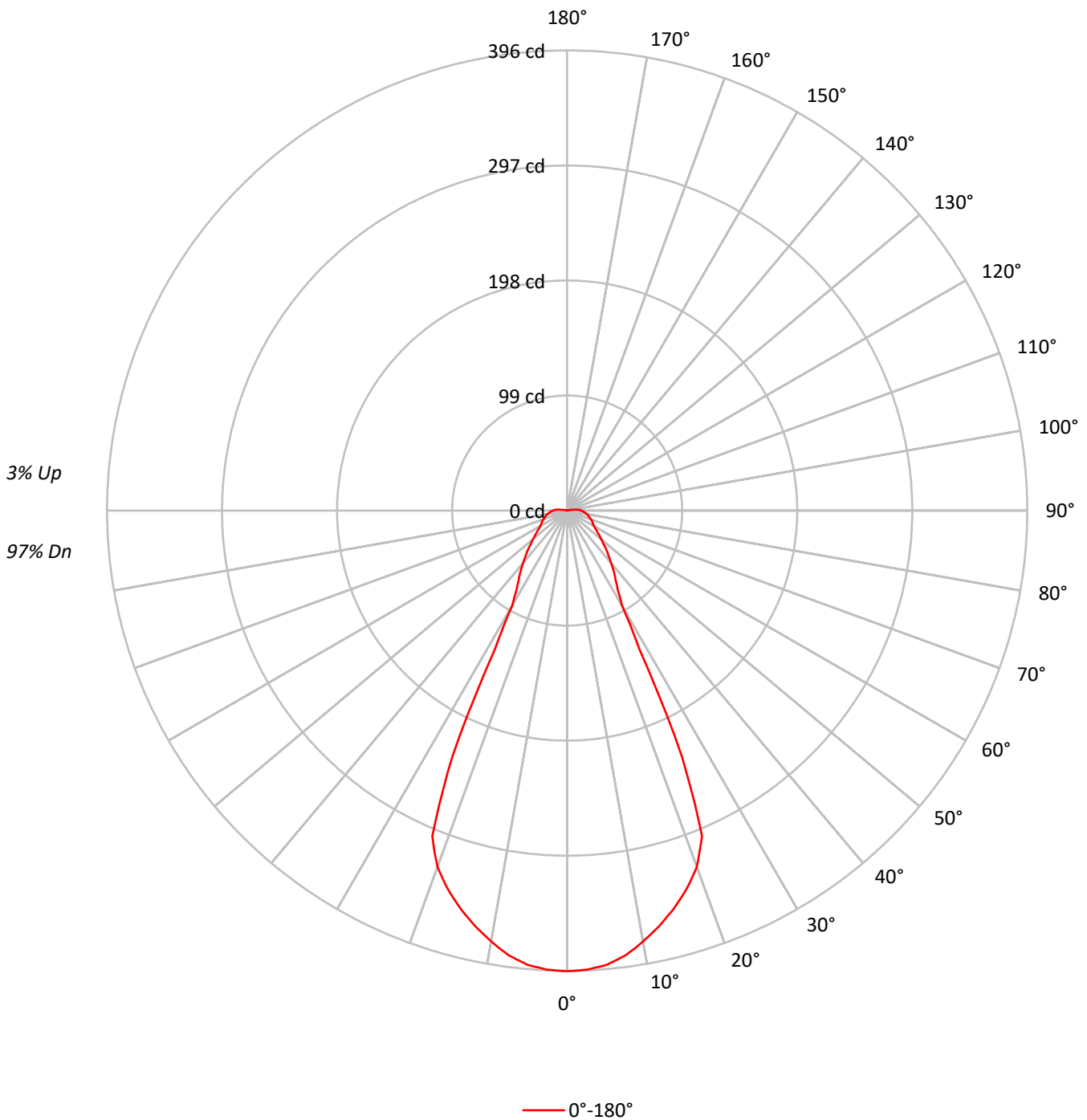
Lumens per Lamp: N/A  
Luminaire Lumens: 417.5 lumens  
Efficiency: N/A  
Efficacy: 58.0 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 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	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	57	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°	45987
5°	39768
10°	34135
15°	29266
20°	24893
25°	16721
30°	6378
35°	4709
40°	3666
45°	2900
50°	2280
55°	1854
60°	1572
65°	1425
70°	1287
75°	1185
80°	1087
85°	959

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2900 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.9	8.8
10°-20°	99.5	23.8
20°-30°	98.4	23.6
30°-40°	46.2	11.1
40°-50°	36.8	8.8
50°-60°	28.4	6.8
60°-70°	23.9	5.7
70°-80°	20.5	4.9
80°-90°	16.0	3.8
90°-100°	9.2	2.2
100°-110°	1.7	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°	234.8	56.2
0°-40°	280.9	67.3
0°-60°	346.2	82.9
0°-90°	406.6	97.4
90°-120°	10.9	2.6
90°-150°	10.9	2.6
90°-180°	11.0	2.6
0°-180°	417.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	396	
5°	392	37
15°	355	99
25°	234	98
35°	73	46
45°	48	37
55°	31	28
65°	24	24
75°	19	20
85°	15	12
90°	12	7
95°	9	6
105°	1	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	396.5
2.5°	395.4
5°	392.3
7.5°	386.0
10°	376.6
12.5°	366.1
15°	354.6
17.5°	341.5
20°	326.3
22.5°	303.3
25°	234.1
27.5°	134.6
30°	94.3
32.5°	81.2
35°	72.8
37.5°	66.0
40°	58.7
42.5°	52.9
45°	47.7
47.5°	42.4
50°	38.2
52.5°	34.6
55°	31.4
57.5°	28.8
60°	26.7
62.5°	25.1
65°	24.1
67.5°	23.0
70°	21.5
72.5°	20.4
75°	19.4
77.5°	18.3
80°	17.3
82.5°	15.7
85°	14.7
87.5°	13.6
90°	12.0
92.5°	11.0
95°	8.9
97.5°	5.8
100°	4.2
102.5°	2.6
105°	1.0
107.5°	0.5
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)