

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: P701820

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9030-4LBW1LI-FF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701820  
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-08-D010 / 340-EU4C-1020-9030-4LBW1LI-FF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

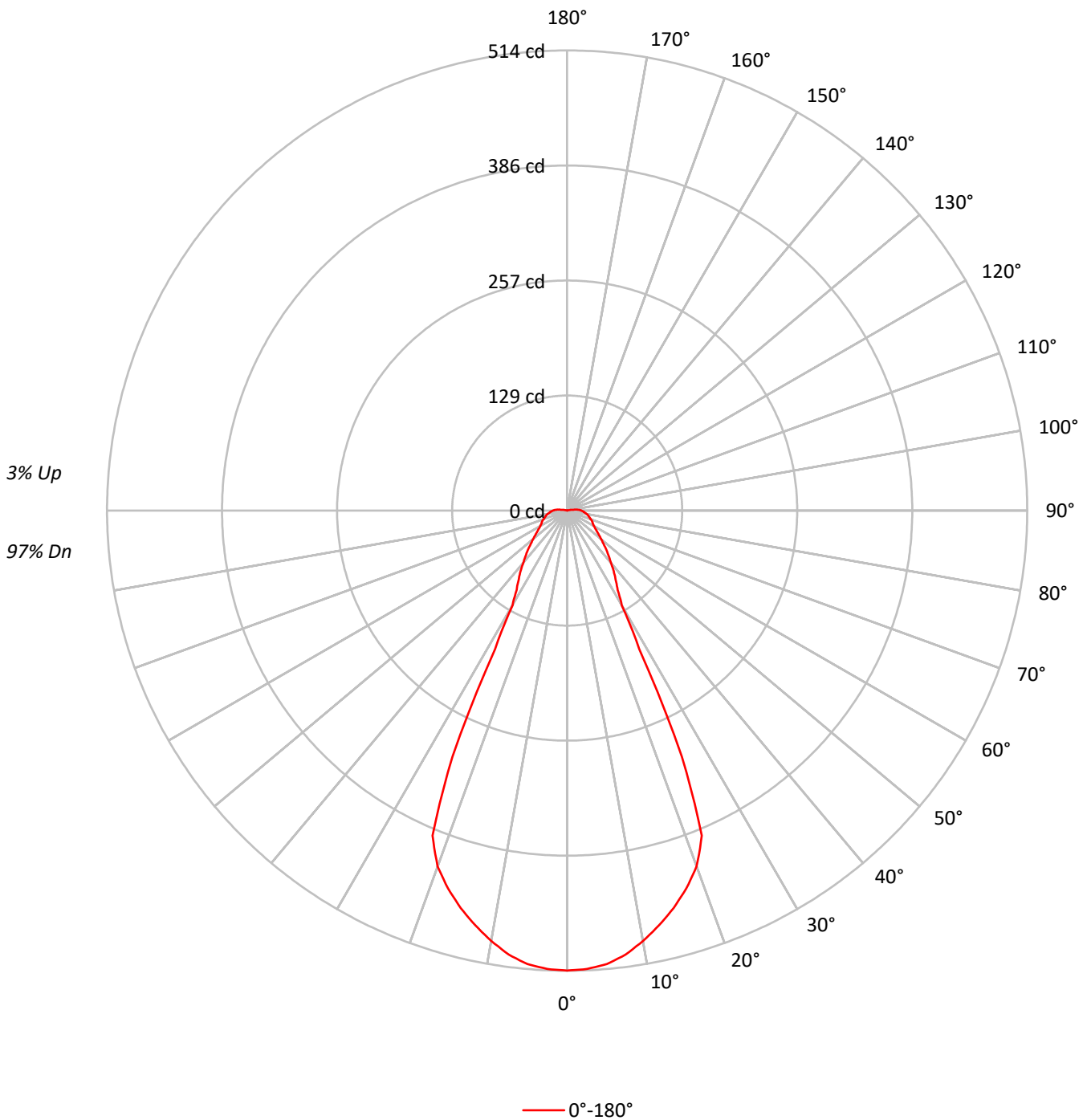
Lumens per Lamp: N/A  
Luminaire Lumens: 541.1 lumens  
Efficiency: N/A  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 9.9  
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°	59592
5°	51537
10°	44232
15°	37923
20°	32262
25°	21671
30°	8265
35°	6107
40°	4746
45°	3758
50°	2960
55°	2403
60°	2037
65°	1845
70°	1664
75°	1533
80°	1408
85°	1239

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3758 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	47.9	8.8
10°-20°	128.9	23.8
20°-30°	127.5	23.6
30°-40°	59.8	11.1
40°-50°	47.8	8.8
50°-60°	36.9	6.8
60°-70°	31.0	5.7
70°-80°	26.6	4.9
80°-90°	20.7	3.8
90°-100°	12.0	2.2
100°-110°	2.2	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°	304.3	56.2
0°-40°	364.1	67.3
0°-60°	448.7	82.9
0°-90°	526.9	97.4
90°-120°	14.2	2.6
90°-150°	14.2	2.6
90°-180°	14.0	2.6
0°-180°	541.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	514	
5°	508	48
15°	460	129
25°	303	127
35°	94	60
45°	62	48
55°	41	37
65°	31	31
75°	25	27
85°	19	16
90°	16	9
95°	12	8
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	0

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	513.8
2.5°	512.5
5°	508.4
7.5°	500.3
10°	488.0
12.5°	474.5
15°	459.5
17.5°	442.6
20°	422.9
22.5°	393.0
25°	303.4
27.5°	174.4
30°	122.2
32.5°	105.2
35°	94.4
37.5°	85.5
40°	76.0
42.5°	68.6
45°	61.8
47.5°	55.0
50°	49.6
52.5°	44.8
55°	40.7
57.5°	37.3
60°	34.6
62.5°	32.6
65°	31.2
67.5°	29.9
70°	27.8
72.5°	26.5
75°	25.1
77.5°	23.8
80°	22.4
82.5°	20.4
85°	19.0
87.5°	17.6
90°	15.6
92.5°	14.3
95°	11.5
97.5°	7.5
100°	5.4
102.5°	3.4
105°	1.4
107.5°	0.7
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)