

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: P702490

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9030-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702490  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9030-4LBW1LI-CF  
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

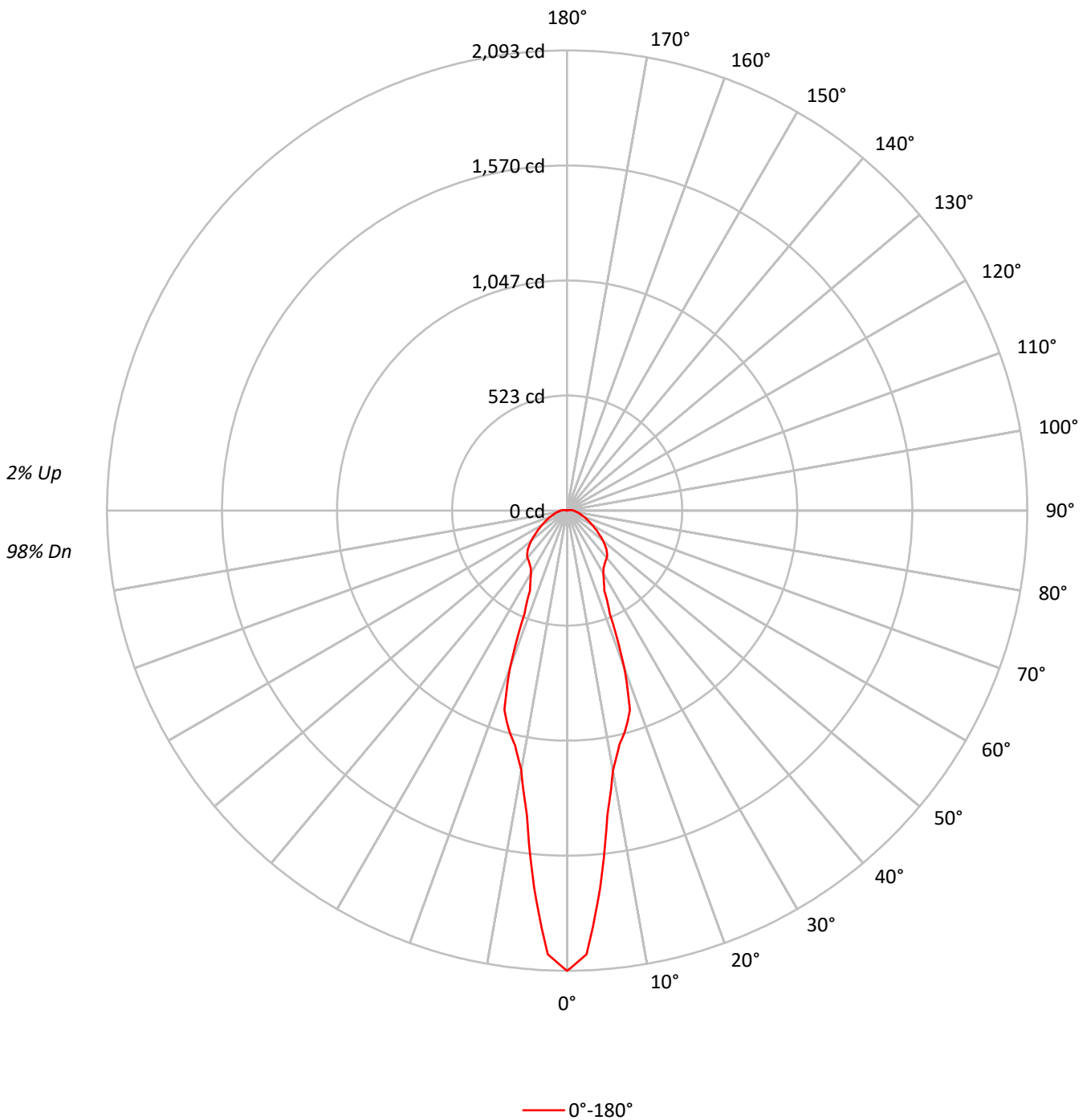
Lumens per Lamp: N/A  
Luminaire Lumens: 1407.0 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.55  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

Input Watts (W): 21.8  
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	107	103	99	96	98	95	93		94	92	90		90	88	87	84
2	101	94	88	83	99	92	87	82	88	84	80		85	81	78		82	79	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	77	70	64	85	76	69	64	73	67	63		71	66	62		69	64	61	59
5	82	71	63	58	80	70	63	57	68	61	56		66	60	56		64	59	55	53
6	77	66	58	52	75	65	57	52	63	56	52		61	55	51		59	54	50	49
7	73	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	47	45
8	69	57	50	44	67	56	49	44	55	48	44		53	48	44		52	47	43	42
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	38		48	42	38		47	42	38	36

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

	0°
0°	136575
5°	100770
10°	64077
15°	50928
20°	35117
25°	17655
30°	13900
35°	12116
40°	11165
45°	9899
50°	8233
55°	6525
60°	5175
65°	4095
70°	3202
75°	2560
80°	2100
85°	1688

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9899 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.6	10.4
10°-20°	281.5	20.0
20°-30°	204.4	14.5
30°-40°	187.5	13.3
40°-50°	193.5	13.7
50°-60°	152.0	10.8
60°-70°	103.4	7.3
70°-80°	66.2	4.7
80°-90°	40.9	2.9
90°-100°	23.7	1.7
100°-110°	7.1	0.5
110°-120°	0.2	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°	632.5	45.0
0°-40°	820.0	58.3
0°-60°	1165.4	82.8
0°-90°	1376.0	97.8
90°-120°	31.0	2.2
90°-150°	31.0	2.2
90°-180°	31.0	2.2
0°-180°	1407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2093	
5°	1722	147
15°	1029	281
25°	401	204
35°	297	188
45°	253	193
55°	169	152
65°	104	103
75°	62	66
85°	37	33
90°	28	16
95°	23	16
105°	6	7
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°	2093.4
2.5°	2020.4
5°	1721.8
7.5°	1398.8
10°	1199.2
12.5°	1093.7
15°	1028.8
17.5°	949.3
20°	756.2
22.5°	506.3
25°	400.8
27.5°	360.3
30°	329.4
32.5°	308.3
35°	297.0
37.5°	287.2
40°	280.7
42.5°	269.4
45°	253.2
47.5°	233.7
50°	212.6
52.5°	189.9
55°	168.8
57.5°	149.3
60°	133.1
62.5°	116.8
65°	103.9
67.5°	90.9
70°	79.5
72.5°	69.8
75°	61.7
77.5°	55.2
80°	48.7
82.5°	42.2
85°	37.3
87.5°	32.5
90°	27.6
92.5°	26.0
95°	22.7
97.5°	17.9
100°	13.0
102.5°	9.7
105°	6.5
107.5°	3.2
110°	1.6

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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)