

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: P701986

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701986  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-20-D010 / 340-EU4C-1020-9030-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

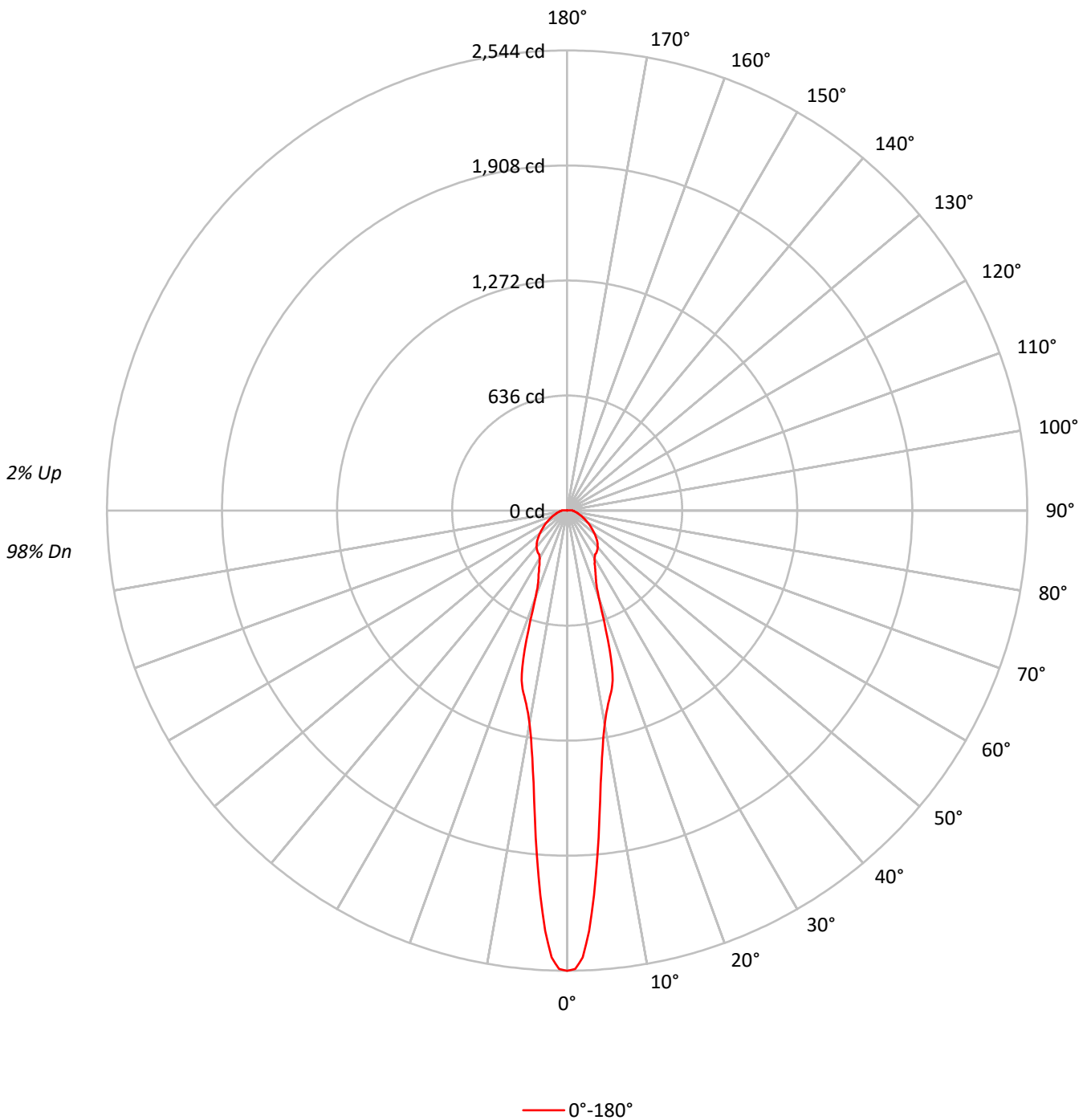
Lumens per Lamp: N/A  
Luminaire Lumens: 1317.3 lumens  
Efficiency: N/A  
Efficacy: 60.4 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
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	39		48	42	38		47	42	38	37

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

	0°
0°	295108
5°	194763
10°	108342
15°	80238
20°	38724
25°	26371
30°	20493
35°	18307
40°	16430
45°	14216
50°	11752
55°	9536
60°	7700
65°	6097
70°	4789
75°	3855
80°	3092
85°	2511

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14216 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.2	11.9
10°-20°	248.0	18.8
20°-30°	172.4	13.1
30°-40°	176.7	13.4
40°-50°	179.0	13.6
50°-60°	145.2	11.0
60°-70°	102.6	7.8
70°-80°	67.0	5.1
80°-90°	42.1	3.2
90°-100°	22.7	1.7
100°-110°	4.3	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°	577.6	43.8
0°-40°	754.2	57.3
0°-60°	1078.5	81.9
0°-90°	1290.3	97.9
90°-120°	27.0	2.1
90°-150°	27.0	2.1
90°-180°	27.0	2.0
0°-180°	1317.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2544	
5°	1921	157
15°	972	248
25°	369	172
35°	283	177
45°	234	179
55°	162	145
65°	103	103
75°	63	67
85°	38	34
90°	29	16
95°	22	15
105°	3	4
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°	2544.4
1°	2535.1
2°	2472.1
3°	2327.5
4°	2132.1
5°	1921.3
6°	1709.1
7°	1518.3
8°	1381.4
9°	1273.7
10°	1195.3
11°	1138.3
12°	1092.2
13°	1053.7
14°	1016.8
15°	972.2
16°	901.4
17°	804.5
18°	693.8
19°	587.6
20°	507.6
21°	458.4
22°	426.1
23°	406.1
24°	387.7
25°	369.2
27.5°	329.2
30°	303.0
32.5°	287.7
35°	283.0
37.5°	273.8
40°	263.1
42.5°	249.2
45°	233.8
47.5°	215.4
50°	196.9
52.5°	178.4
55°	161.5
57.5°	146.1
60°	130.8
62.5°	115.4
65°	103.1
67.5°	90.8
70°	80.0
72.5°	70.8

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	63.1
77.5°	55.4
80°	49.2
82.5°	43.1
85°	38.5
87.5°	33.8
90°	29.2
92.5°	26.2
95°	21.5
97.5°	15.4
100°	10.8
102.5°	6.2
105°	3.1
107.5°	1.5
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)