

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: P702147

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9027-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702147  
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-35-D010 / 340-EU4C-3040-9027-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 2700K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

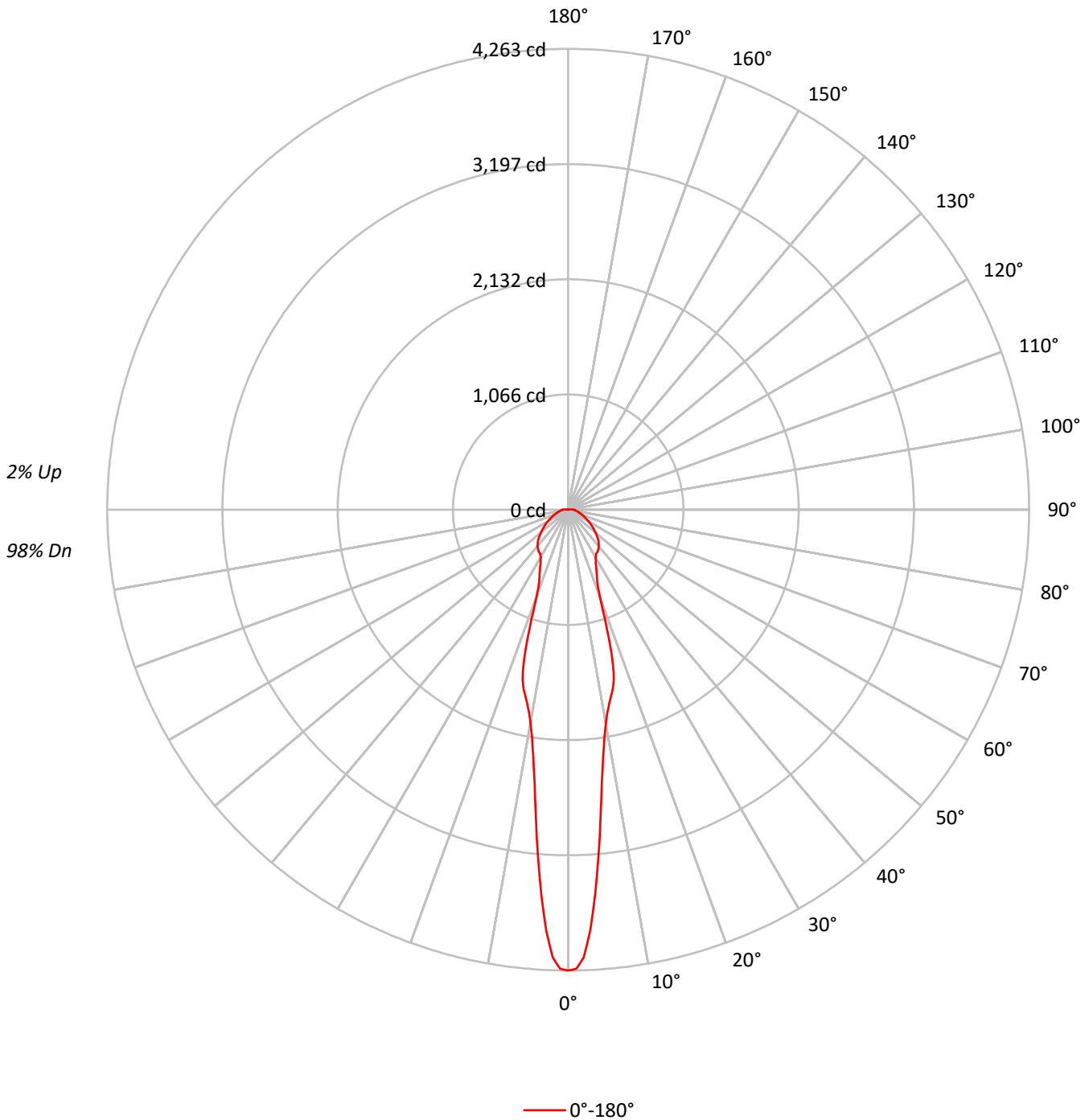
Lumens per Lamp: N/A  
Luminaire Lumens: 2206.8 lumens  
Efficiency: N/A  
Efficacy: 54.6 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 40.4  
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°	494390
5°	326300
10°	181507
15°	134428
20°	64883
25°	44179
30°	34338
35°	30676
40°	27521
45°	23816
50°	19690
55°	15978
60°	12898
65°	10213
70°	8022
75°	6457
80°	5185
85°	4200

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 23816 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.3	11.9
10°-20°	415.6	18.8
20°-30°	288.8	13.1
30°-40°	295.9	13.4
40°-50°	299.9	13.6
50°-60°	243.3	11.0
60°-70°	171.8	7.8
70°-80°	112.3	5.1
80°-90°	70.6	3.2
90°-100°	38.0	1.7
100°-110°	7.2	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°	967.7	43.8
0°-40°	1263.6	57.3
0°-60°	1806.9	81.9
0°-90°	2161.6	97.9
90°-120°	45.2	2.1
90°-150°	45.2	2.1
90°-180°	45.0	2.0
0°-180°	2206.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4263	
5°	3219	263
15°	1629	416
25°	618	289
35°	474	296
45°	392	300
55°	271	243
65°	173	172
75°	106	112
85°	64	56
90°	49	27
95°	36	25
105°	5	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°	4262.6
1°	4247.2
2°	4141.5
3°	3899.3
4°	3572.0
5°	3218.9
6°	2863.2
7°	2543.7
8°	2314.3
9°	2133.9
10°	2002.5
11°	1907.1
12°	1829.8
13°	1765.4
14°	1703.5
15°	1628.8
16°	1510.2
17°	1347.9
18°	1162.3
19°	984.5
20°	850.5
21°	768.0
22°	713.9
23°	680.4
24°	649.4
25°	618.5
27.5°	551.5
30°	507.7
32.5°	481.9
35°	474.2
37.5°	458.7
40°	440.7
42.5°	417.5
45°	391.7
47.5°	360.8
50°	329.9
52.5°	299.0
55°	270.6
57.5°	244.8
60°	219.1
62.5°	193.3
65°	172.7
67.5°	152.1
70°	134.0
72.5°	118.5

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	105.7
77.5°	92.8
80°	82.5
82.5°	72.2
85°	64.4
87.5°	56.7
90°	49.0
92.5°	43.8
95°	36.1
97.5°	25.8
100°	18.0
102.5°	10.3
105°	5.2
107.5°	2.6
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)