

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: P702105

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702105  
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-30-D010 / 340-EU4C-3040-9035-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

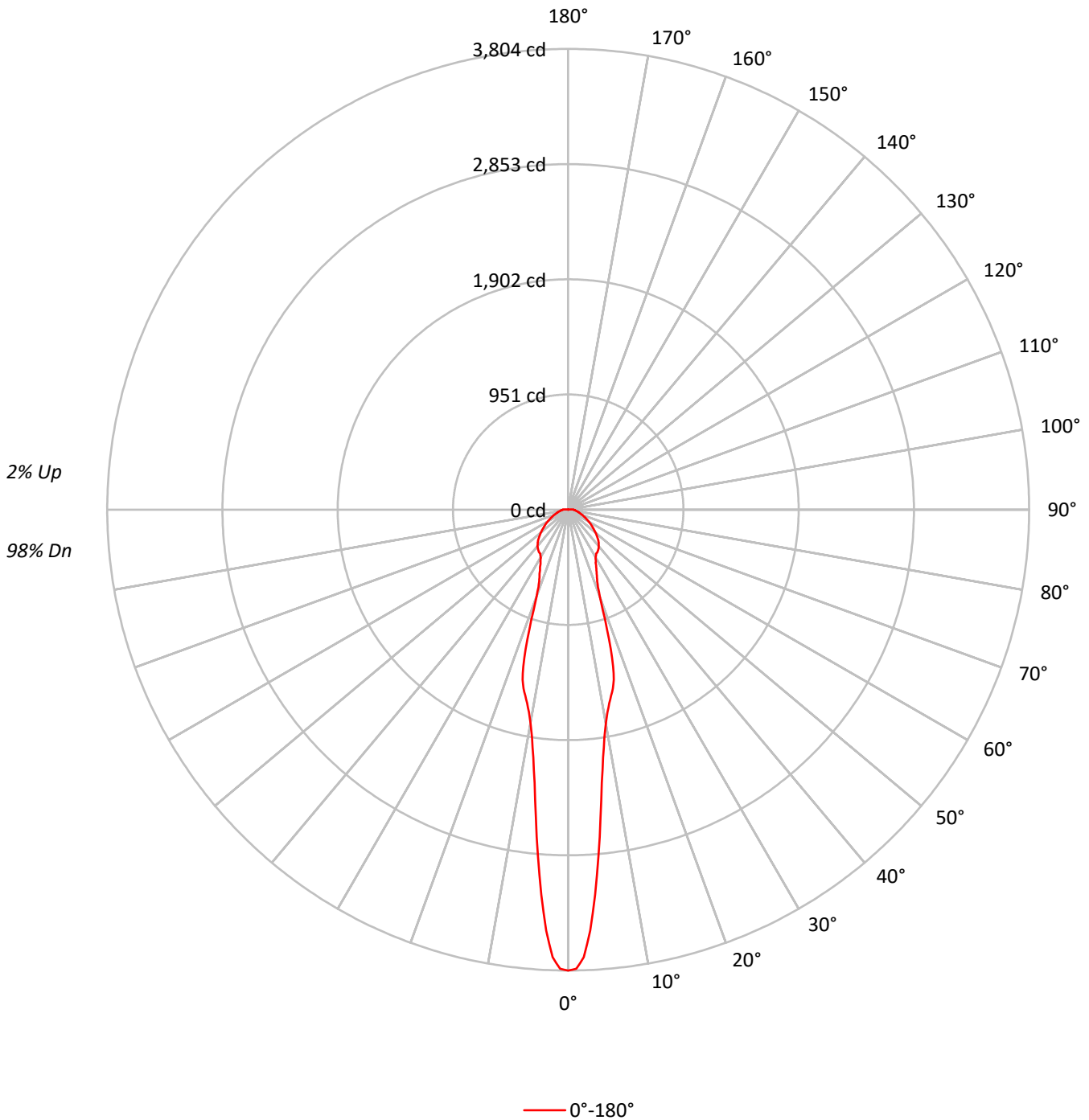
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1969.5 lumens  
Efficiency: N/A  
Efficacy: 62.3 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): 31.6  
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°	441246
5°	291226
10°	161992
15°	119977
20°	57903
25°	39429
30°	30645
35°	27377
40°	24561
45°	21257
50°	17571
55°	14260
60°	11509
65°	9113
70°	7160
75°	5761
80°	4625
85°	3750

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21257 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.0	11.9
10°-20°	370.9	18.8
20°-30°	257.7	13.1
30°-40°	264.1	13.4
40°-50°	267.7	13.6
50°-60°	217.1	11.0
60°-70°	153.3	7.8
70°-80°	100.2	5.1
80°-90°	63.0	3.2
90°-100°	33.9	1.7
100°-110°	6.4	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°	863.6	43.9
0°-40°	1127.8	57.3
0°-60°	1612.6	81.9
0°-90°	1929.1	98.0
90°-120°	40.4	2.0
90°-150°	40.4	2.0
90°-180°	40.0	2.0
0°-180°	1969.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3804	
5°	2873	235
15°	1454	371
25°	552	258
35°	423	264
45°	350	268
55°	242	217
65°	154	153
75°	94	100
85°	58	50
90°	44	24
95°	32	23
105°	5	6
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°	3804.4
1°	3790.6
2°	3696.3
3°	3480.1
4°	3188.0
5°	2872.9
6°	2555.5
7°	2270.2
8°	2065.5
9°	1904.5
10°	1787.2
11°	1702.1
12°	1633.1
13°	1575.6
14°	1520.4
15°	1453.7
16°	1347.9
17°	1203.0
18°	1037.4
19°	878.7
20°	759.0
21°	685.4
22°	637.1
23°	607.2
24°	579.6
25°	552.0
27.5°	492.2
30°	453.1
32.5°	430.1
35°	423.2
37.5°	409.4
40°	393.3
42.5°	372.6
45°	349.6
47.5°	322.0
50°	294.4
52.5°	266.8
55°	241.5
57.5°	218.5
60°	195.5
62.5°	172.5
65°	154.1
67.5°	135.7
70°	119.6
72.5°	105.8

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	94.3
77.5°	82.8
80°	73.6
82.5°	64.4
85°	57.5
87.5°	50.6
90°	43.7
92.5°	39.1
95°	32.2
97.5°	23.0
100°	16.1
102.5°	9.2
105°	4.6
107.5°	2.3
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)