

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: P701958

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9727-4LBW1LI-CF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701958  
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-15-D010 / 340-EU4C-1020-9727-4LBW1LI-CF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.  
Light Source: 2700K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

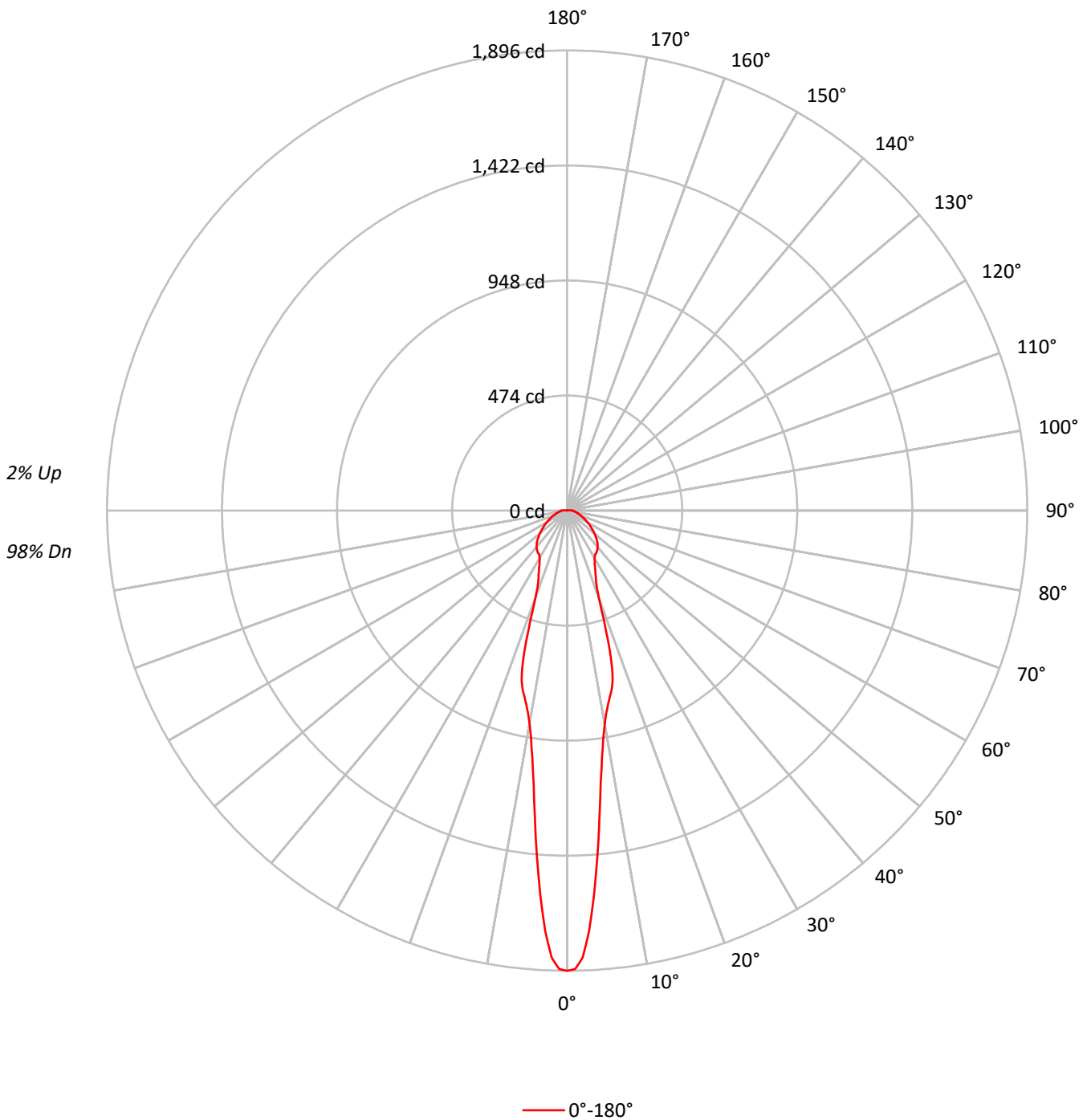
Lumens per Lamp: N/A  
Luminaire Lumens: 981.7 lumens  
Efficiency: N/A  
Efficacy: 62.1 lumens/watt  
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 15.8  
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°	219939
5°	145162
10°	80742
15°	59803
20°	28860
25°	19657
30°	15279
35°	13650
40°	12240
45°	10598
50°	8756
55°	7109
60°	5740
65°	4542
70°	3568
75°	2871
80°	2306
85°	1872

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 10598 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.1	11.9
10°-20°	184.9	18.8
20°-30°	128.5	13.1
30°-40°	131.7	13.4
40°-50°	133.4	13.6
50°-60°	108.2	11.0
60°-70°	76.4	7.8
70°-80°	49.9	5.1
80°-90°	31.4	3.2
90°-100°	16.9	1.7
100°-110°	3.2	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°	430.5	43.8
0°-40°	562.2	57.3
0°-60°	803.8	81.9
0°-90°	961.6	97.9
90°-120°	20.1	2.1
90°-150°	20.1	2.1
90°-180°	20.0	2.0
0°-180°	981.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1896	
5°	1432	117
15°	725	185
25°	275	128
35°	211	132
45°	174	133
55°	120	108
65°	77	76
75°	47	50
85°	29	25
90°	22	12
95°	16	11
105°	2	3
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1896.3
1°	1889.4
2°	1842.4
3°	1734.6
4°	1589.0
5°	1432.0
6°	1273.7
7°	1131.6
8°	1029.5
9°	949.3
10°	890.8
11°	848.4
12°	814.0
13°	785.3
14°	757.8
15°	724.6
16°	671.8
17°	599.6
18°	517.1
19°	438.0
20°	378.3
21°	341.7
22°	317.6
23°	302.7
24°	288.9
25°	275.2
27.5°	245.3
30°	225.9
32.5°	214.4
35°	211.0
37.5°	204.1
40°	196.0
42.5°	185.7
45°	174.3
47.5°	160.5
50°	146.7
52.5°	133.0
55°	120.4
57.5°	108.9
60°	97.5
62.5°	86.0
65°	76.8
67.5°	67.6
70°	59.6
72.5°	52.7

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	47.0
77.5°	41.3
80°	36.7
82.5°	32.1
85°	28.7
87.5°	25.2
90°	21.8
92.5°	19.5
95°	16.1
97.5°	11.5
100°	8.0
102.5°	4.6
105°	2.3
107.5°	1.1
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)