

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: P701987

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701987  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)  
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-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

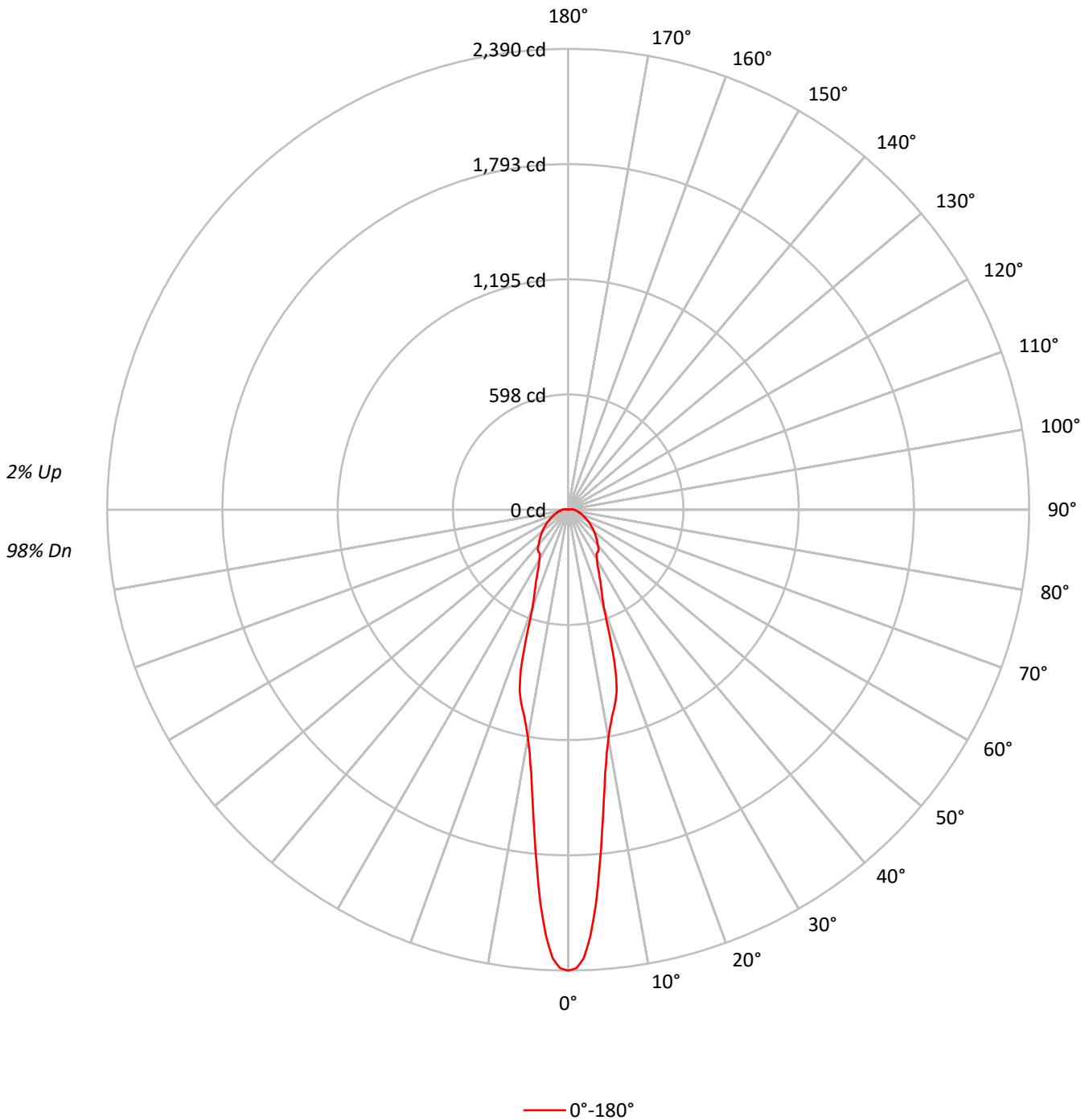
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1273.9 lumens  
Efficiency: N/A  
Efficacy: 58.4 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46  
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	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	99	92	87	82	88	84	80	85	81	78	81	78	76	74				
3	94	85	78	72	92	83	77	72	80	75	70	77	73	69	75	71	67	65				
4	88	78	70	64	86	76	69	64	74	68	63	71	66	62	69	64	61	59				
5	82	71	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55	53				
6	77	66	58	53	76	65	58	53	63	57	52	61	56	52	60	55	51	49				
7	73	62	54	49	71	61	54	49	59	53	48	58	52	48	56	51	47	45				
8	69	58	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42				
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	50	45	41	40				
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	37				

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

	0°
0°	277258
5°	188680
10°	108759
15°	80238
20°	41310
25°	27471
30°	20081
35°	17318
40°	14888
45°	12531
50°	10469
55°	8627
60°	7064
65°	5731
70°	4604
75°	3757
80°	3092
85°	2511

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12531 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.1	12.1
10°-20°	250.9	19.7
20°-30°	179.5	14.1
30°-40°	167.1	13.1
40°-50°	159.1	12.5
50°-60°	131.0	10.3
60°-70°	96.3	7.6
70°-80°	65.8	5.2
80°-90°	42.4	3.3
90°-100°	23.3	1.8
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°	584.6	45.9
0°-40°	751.7	59.0
0°-60°	1041.8	81.8
0°-90°	1246.3	97.8
90°-120°	27.6	2.2
90°-150°	27.6	2.2
90°-180°	28.0	2.2
0°-180°	1273.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2390	
5°	1861	154
15°	972	251
25°	385	180
35°	268	167
45°	206	159
55°	146	131
65°	97	96
75°	62	66
85°	38	34
90°	31	17
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°	2390.5
1°	2378.2
2°	2327.4
3°	2212.1
4°	2052.1
5°	1861.3
6°	1679.8
7°	1516.8
8°	1379.9
9°	1276.8
10°	1199.9
11°	1143.0
12°	1095.3
13°	1056.8
14°	1018.4
15°	972.2
16°	904.5
17°	815.3
18°	710.7
19°	613.8
20°	541.5
21°	496.9
22°	464.6
23°	436.9
24°	410.7
25°	384.6
27.5°	330.7
30°	296.9
32.5°	272.3
35°	267.7
37.5°	260.0
40°	238.4
42.5°	221.5
45°	206.1
47.5°	190.7
50°	175.4
52.5°	160.0
55°	146.1
57.5°	132.3
60°	120.0
62.5°	107.7
65°	96.9
67.5°	86.1
70°	76.9
72.5°	69.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	61.5
77.5°	55.4
80°	49.2
82.5°	43.1
85°	38.5
87.5°	33.8
90°	30.8
92.5°	27.7
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)