

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: P701994

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701994  
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-1020-9035-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

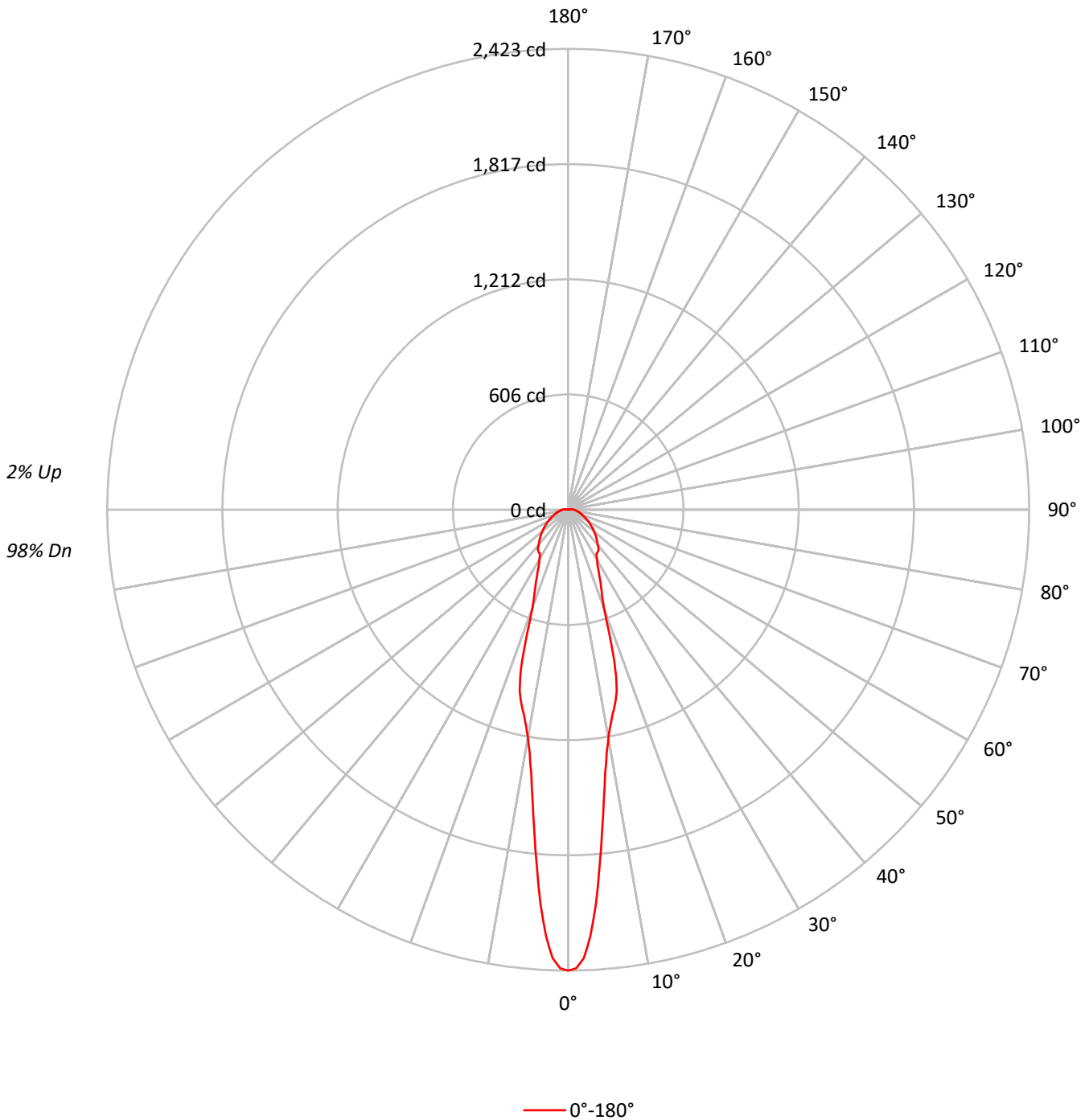
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1291.4 lumens  
Efficiency: N/A  
Efficacy: 59.2 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

TEST NUMBER: P701994

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

### Luminous Intensity Polar Plot



TEST NUMBER: P701994

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

**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	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°	281074
5°	191286
10°	110255
15°	81344
20°	41875
25°	27850
30°	20358
35°	17551
40°	15094
45°	12708
50°	10612
55°	8745
60°	7158
65°	5807
70°	4670
75°	3812
80°	3136
85°	2544

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12708 cd/sqm

TEST NUMBER: P701994

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.2	12.1
10°-20°	254.4	19.7
20°-30°	182.0	14.1
30°-40°	169.4	13.1
40°-50°	161.3	12.5
50°-60°	132.8	10.3
60°-70°	97.6	7.6
70°-80°	66.7	5.2
80°-90°	42.9	3.3
90°-100°	23.6	1.8
100°-110°	4.4	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°	592.6	45.9
0°-40°	762.0	59.0
0°-60°	1056.1	81.8
0°-90°	1263.4	97.8
90°-120°	28.0	2.2
90°-150°	28.0	2.2
90°-180°	28.0	2.2
0°-180°	1291.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2423	
5°	1887	156
15°	986	254
25°	390	182
35°	271	169
45°	209	161
55°	148	133
65°	98	98
75°	62	67
85°	39	34
90°	31	17
95°	22	16
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

TEST NUMBER: P701994

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2423.4
1°	2410.9
2°	2359.5
3°	2242.5
4°	2080.3
5°	1887.0
6°	1702.9
7°	1537.6
8°	1398.8
9°	1294.4
10°	1216.4
11°	1158.7
12°	1110.3
13°	1071.4
14°	1032.4
15°	985.6
16°	917.0
17°	826.5
18°	720.5
19°	622.2
20°	548.9
21°	503.7
22°	471.0
23°	442.9
24°	416.4
25°	389.9
27.5°	335.3
30°	301.0
32.5°	276.0
35°	271.3
37.5°	263.5
40°	241.7
42.5°	224.6
45°	209.0
47.5°	193.4
50°	177.8
52.5°	162.2
55°	148.1
57.5°	134.1
60°	121.6
62.5°	109.2
65°	98.2
67.5°	87.3
70°	78.0
72.5°	70.2

TEST NUMBER: P701994

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

**CANDELA DISTRIBUTION (continued):**

	0°
75°	62.4
77.5°	56.1
80°	49.9
82.5°	43.7
85°	39.0
87.5°	34.3
90°	31.2
92.5°	28.1
95°	21.8
97.5°	15.6
100°	10.9
102.5°	6.2
105°	3.1
107.5°	1.6
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)