

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: P702477

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702477  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-CQ  
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

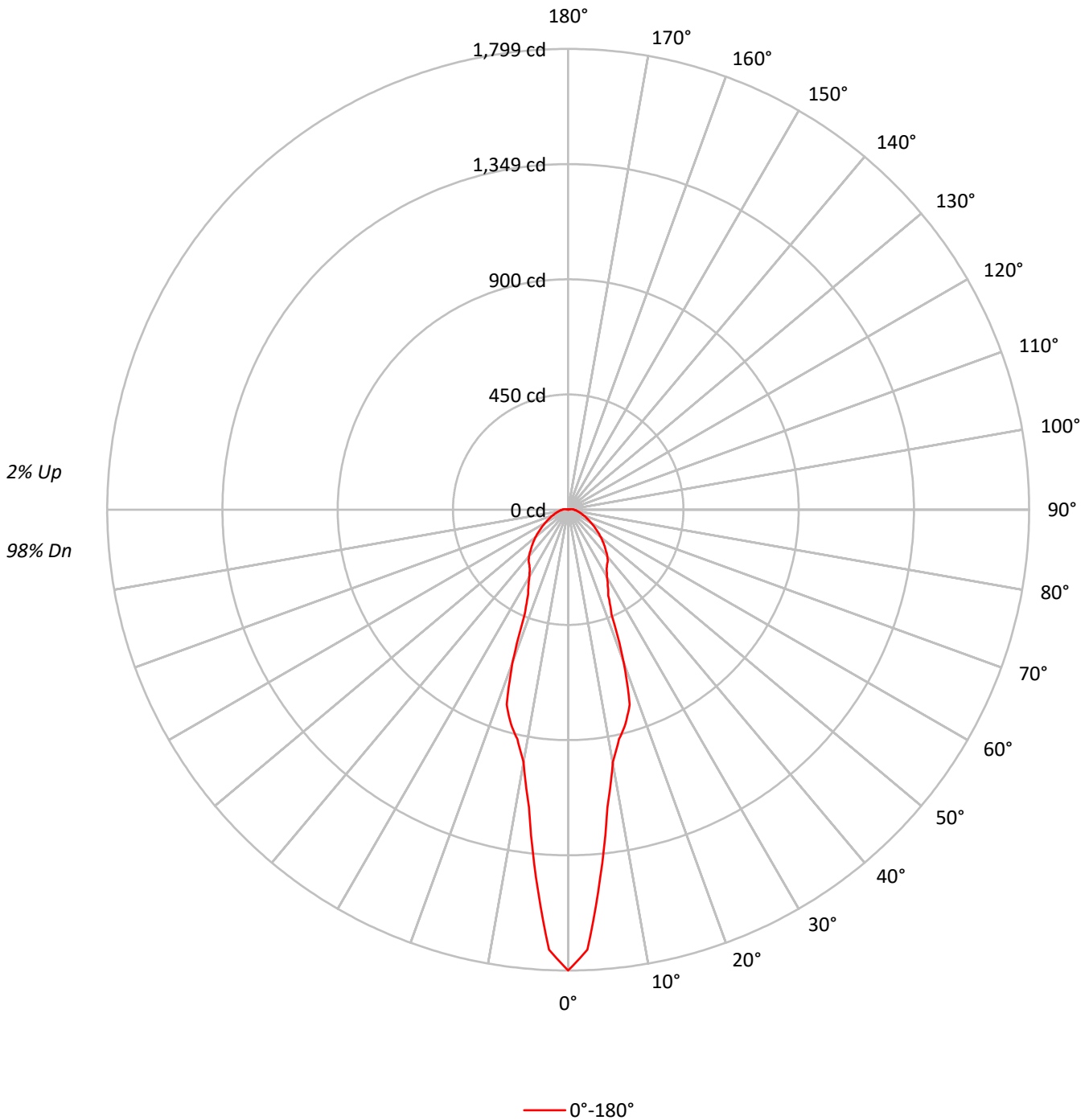
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1176.1 lumens  
Efficiency: N/A  
Efficacy: 53.9 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
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	0
RCR																				
0	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	110	105	102	98	107	103	100	97	98	96	93		94	92	90		90	89	87	85
2	102	95	89	84	99	93	87	83	89	84	81		85	82	78		82	79	76	74
3	95	86	79	73	92	84	78	72	81	75	71		78	73	70		75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63		72	67	62		69	65	61	59
5	83	72	64	58	81	71	63	58	68	62	57		66	61	57		64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52		62	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	46
8	69	58	50	45	68	57	50	45	55	49	45		54	48	44		53	48	44	42
9	66	54	47	42	64	53	47	42	52	46	42		51	45	41		50	45	41	40
10	62	51	44	40	61	50	44	39	49	43	39		48	43	39		47	42	39	37

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

	0°
0°	117348
5°	84295
10°	53487
15°	42819
20°	29461
25°	16329
30°	12803
35°	10753
40°	9446
45°	7838
50°	6432
55°	5095
60°	4059
65°	3193
70°	2545
75°	2049
80°	1656
85°	1366

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7838 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	10.5
10°-20°	236.2	20.1
20°-30°	183.4	15.6
30°-40°	166.8	14.2
40°-50°	154.8	13.2
50°-60°	119.1	10.1
60°-70°	81.5	6.9
70°-80°	52.9	4.5
80°-90°	32.9	2.8
90°-100°	19.1	1.6
100°-110°	6.0	0.5
110°-120°	0.2	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°	542.7	46.1
0°-40°	709.5	60.3
0°-60°	983.4	83.6
0°-90°	1150.7	97.8
90°-120°	25.3	2.2
90°-150°	25.3	2.2
90°-180°	25.0	2.1
0°-180°	1176.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1799	
5°	1440	123
15°	865	236
25°	371	183
35°	264	167
45°	200	155
55°	132	119
65°	81	82
75°	49	53
85°	30	26
90°	22	12
95°	18	13
105°	6	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°	1798.7
2.5°	1719.1
5°	1440.3
7.5°	1171.2
10°	1001.0
12.5°	917.2
15°	865.0
17.5°	797.7
20°	634.4
22.5°	443.5
25°	370.7
27.5°	335.0
30°	303.4
32.5°	278.7
35°	263.6
37.5°	254.0
40°	237.5
42.5°	218.3
45°	200.5
47.5°	182.6
50°	166.1
52.5°	148.3
55°	131.8
57.5°	118.1
60°	104.4
62.5°	92.0
65°	81.0
67.5°	72.8
70°	63.2
72.5°	56.3
75°	49.4
77.5°	43.9
80°	38.4
82.5°	34.3
85°	30.2
87.5°	26.1
90°	22.0
92.5°	20.6
95°	17.8
97.5°	15.1
100°	11.0
102.5°	8.2
105°	5.5
107.5°	2.7
110°	1.4

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**CANDELA DISTRIBUTION (continued):**

	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)