

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: P702517

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9727-4LBW1LI-CC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702517  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9727-4LBW1LI-CC  
Description: FARALLON 6" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.  
Light Source: 2700K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

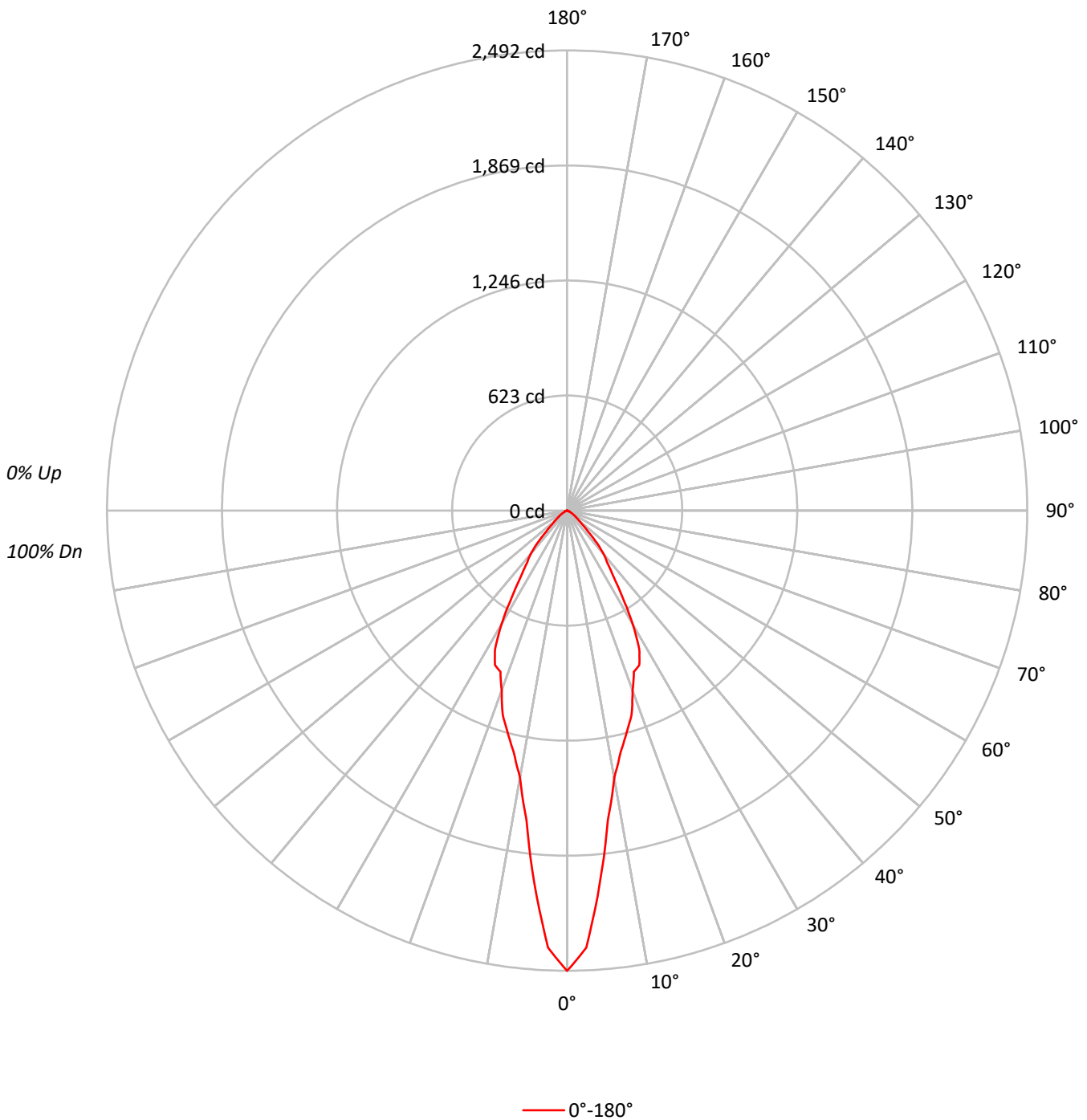
Lumens per Lamp: N/A  
Luminaire Lumens: 1431.7 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.71  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

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	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	104	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	84	90	86	83		88	85	82		86	83	80	79
4	96	88	82	78	94	87	81	77	85	80	76		83	79	75		81	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70		78	73	70		76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65		73	68	65		72	68	64	63
7	82	72	66	61	80	71	65	61	70	65	61		69	64	61		68	63	60	59
8	78	68	62	57	76	67	61	57	66	61	57		65	60	57		64	60	56	55
9	74	64	58	54	73	63	58	54	62	57	53		62	57	53		61	56	53	52
10	70	60	54	50	69	60	54	50	59	54	50		58	53	50		58	53	50	49

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

	0°
0°	162612
5°	132774
10°	97297
15°	84016
20°	71948
25°	66514
30°	53615
35°	34804
40°	26316
45°	14688
50°	8556
55°	5676
60°	3875
65°	2408
70°	2079
75°	1563
80°	1165
85°	1198

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 14688 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.3	12.2
10°-20°	348.1	24.3
20°-30°	411.5	28.7
30°-40°	288.0	20.1
40°-50°	134.4	9.4
50°-60°	46.6	3.3
60°-70°	17.7	1.2
70°-80°	7.2	0.5
80°-90°	1.7	0.1
90°-100°	1.1	0.1
100°-110°	0.6	0.0
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°	934.9	65.3
0°-40°	1222.8	85.4
0°-60°	1403.8	98.1
0°-90°	1430.5	99.9
90°-120°	1.7	0.1
90°-150°	1.7	0.1
90°-180°	2.0	0.1
0°-180°	1431.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2492	
5°	2027	175
15°	1244	348
25°	924	412
35°	437	288
45°	159	134
55°	50	47
65°	16	18
75°	6	7
85°	2	2
90°	0	0
95°	0	1
105°	0	1
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°	2492.5
2.5°	2369.2
5°	2027.4
7.5°	1690.3
10°	1468.7
12.5°	1337.6
15°	1243.9
17.5°	1159.6
20°	1036.3
22.5°	944.3
25°	924.0
27.5°	845.9
30°	711.7
32.5°	560.3
35°	437.0
37.5°	357.4
40°	309.0
42.5°	240.4
45°	159.2
47.5°	110.8
50°	84.3
52.5°	64.0
55°	49.9
57.5°	39.0
60°	29.7
62.5°	21.9
65°	15.6
67.5°	14.0
70°	10.9
72.5°	9.4
75°	6.2
77.5°	4.7
80°	3.1
82.5°	1.6
85°	1.6
87.5°	1.6
90°	0.0
92.5°	0.0
95°	0.0
97.5°	1.6
100°	1.6
102.5°	1.6
105°	0.0
107.5°	0.0
110°	0.0

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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)