

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: P702478

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702478  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-10)  
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-FF  
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

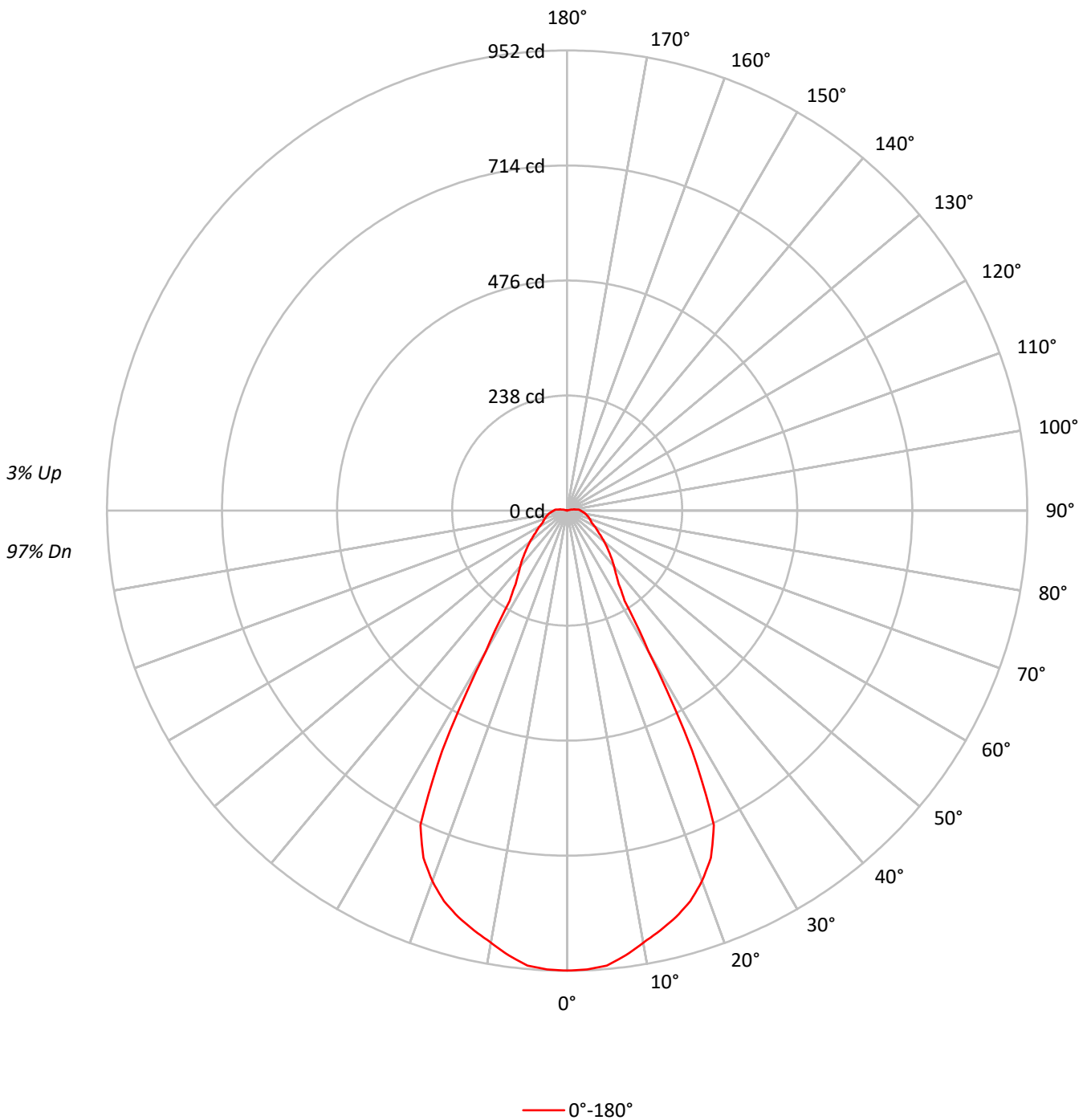
Lumens per Lamp: N/A  
Luminaire Lumens: 1095.8 lumens  
Efficiency: N/A  
Efficacy: 50.3 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		99	99	99	97
1	110	106	102	99	107	103	100	97	99	96	93		94	92	90		90	89	87	85
2	102	96	90	86	100	94	89	84	90	86	82		86	83	80		83	80	78	76
3	96	87	81	76	93	86	80	75	83	77	73		80	75	72		77	73	70	68
4	90	80	73	68	88	79	72	67	76	71	66		74	69	65		71	67	64	62
5	85	74	67	62	83	73	66	61	71	65	61		69	64	60		67	62	59	57
6	80	69	62	57	78	68	61	56	66	60	56		64	59	55		63	58	54	53
7	75	64	57	52	74	64	57	52	62	56	52		60	55	51		59	54	51	49
8	71	60	53	49	70	60	53	48	58	52	48		57	52	48		56	51	47	46
9	68	57	50	45	66	56	50	45	55	49	45		54	48	45		53	48	44	43
10	64	54	47	43	63	53	47	42	52	46	42		51	46	42		50	45	42	40

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

	0°
0°	62076
5°	55289
10°	48496
15°	43092
20°	37876
25°	31632
30°	14195
35°	7563
40°	6006
45°	4832
50°	3880
55°	3077
60°	2562
65°	2164
70°	1989
75°	1821
80°	1656
85°	1493

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4832 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.9	8.1
10°-20°	244.5	22.3
20°-30°	298.3	27.2
30°-40°	126.3	11.5
40°-50°	95.8	8.7
50°-60°	72.5	6.6
60°-70°	55.4	5.1
70°-80°	46.4	4.2
80°-90°	35.9	3.3
90°-100°	24.0	2.2
100°-110°	7.1	0.6
110°-120°	0.5	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°	631.7	57.7
0°-40°	758.0	69.2
0°-60°	926.4	84.5
0°-90°	1064.2	97.1
90°-120°	31.6	2.9
90°-150°	31.6	2.9
90°-180°	32.0	2.9
0°-180°	1095.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	952	
5°	945	89
15°	870	245
25°	718	298
35°	185	126
45°	124	96
55°	80	73
65°	55	55
75°	44	46
85°	33	28
90°	28	15
95°	23	17
105°	6	7
115°	0	1
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°	951.5
2.5°	950.2
5°	944.7
7.5°	928.2
10°	907.6
12.5°	889.7
15°	870.5
17.5°	847.2
20°	815.6
22.5°	777.2
25°	718.1
27.5°	560.2
30°	336.4
32.5°	221.1
35°	185.4
37.5°	166.1
40°	151.0
42.5°	137.3
45°	123.6
47.5°	111.2
50°	100.2
52.5°	89.2
55°	79.6
57.5°	72.8
60°	65.9
62.5°	59.0
65°	54.9
67.5°	52.2
70°	49.4
72.5°	46.7
75°	43.9
77.5°	41.2
80°	38.4
82.5°	35.7
85°	33.0
87.5°	30.2
90°	27.5
92.5°	26.1
95°	23.3
97.5°	17.8
100°	13.7
102.5°	9.6
105°	5.5
107.5°	4.1
110°	1.4

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	1.4
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)