

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: P702513

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-FF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702513  
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-1020-9050-4LBW1LI-FF  
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

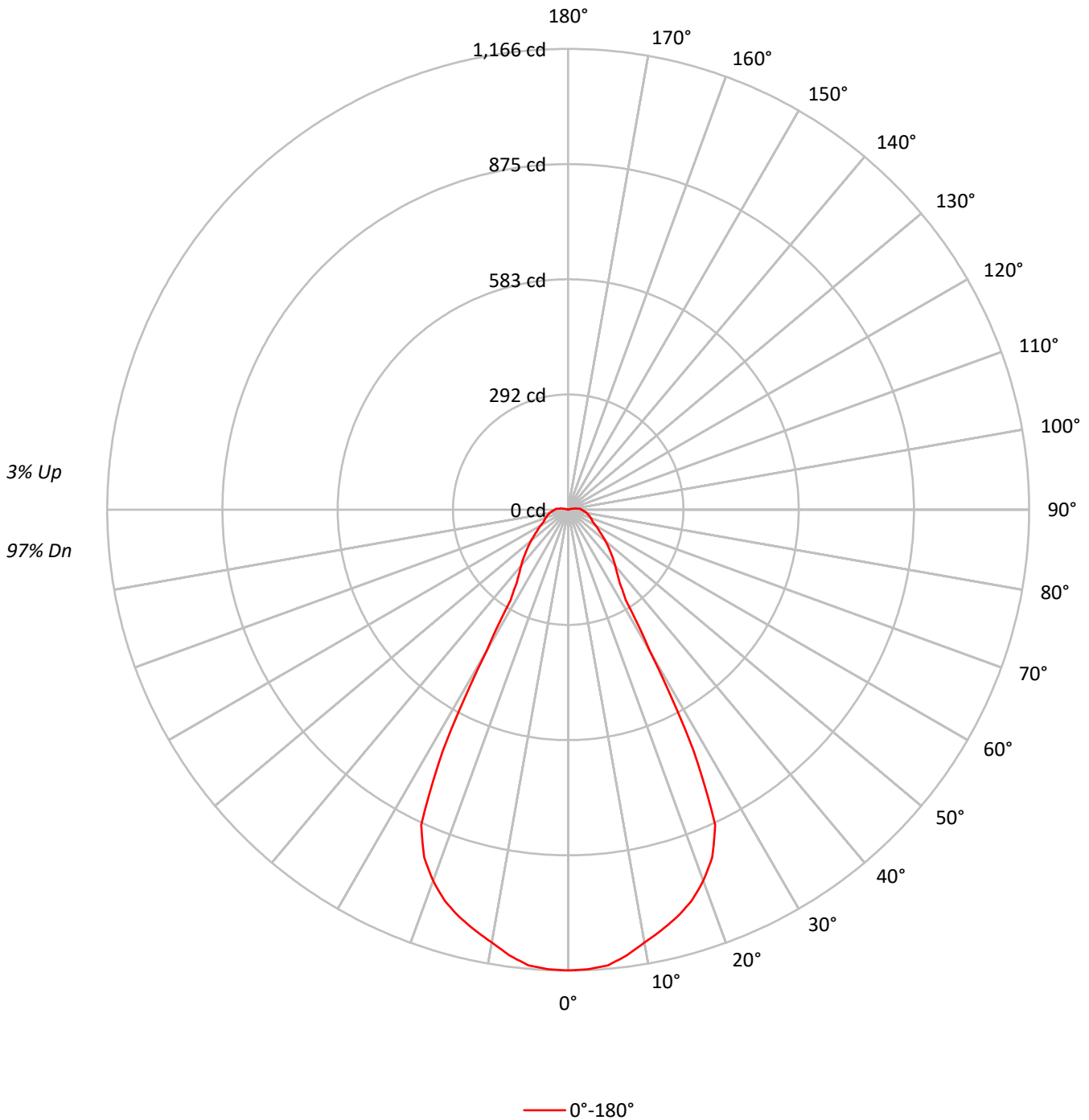
Lumens per Lamp: N/A  
Luminaire Lumens: 1342.4 lumens  
Efficiency: N/A  
Efficacy: 61.6 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

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	82	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	53	47	43	63	53	47	42	52	46	42		51	46	42		50	45	42	40

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

	0°
0°	76044
5°	67726
10°	59407
15°	52789
20°	46398
25°	38750
30°	17390
35°	9264
40°	7358
45°	5919
50°	4756
55°	3773
60°	3138
65°	2653
70°	2440
75°	2232
80°	2031
85°	1828

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5919 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	8.1
10°-20°	299.6	22.3
20°-30°	365.4	27.2
30°-40°	154.7	11.5
40°-50°	117.4	8.7
50°-60°	88.9	6.6
60°-70°	67.9	5.1
70°-80°	56.9	4.2
80°-90°	44.0	3.3
90°-100°	29.4	2.2
100°-110°	8.7	0.6
110°-120°	0.6	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°	773.9	57.6
0°-40°	928.6	69.2
0°-60°	1134.8	84.5
0°-90°	1303.6	97.1
90°-120°	38.8	2.9
90°-150°	38.8	2.9
90°-180°	39.0	2.9
0°-180°	1342.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1166	
5°	1157	109
15°	1066	300
25°	880	365
35°	227	155
45°	151	117
55°	98	89
65°	67	68
75°	54	57
85°	40	34
90°	34	19
95°	29	20
105°	7	9
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°	1165.6
2.5°	1163.9
5°	1157.2
7.5°	1137.0
10°	1111.8
12.5°	1089.9
15°	1066.4
17.5°	1037.8
20°	999.1
22.5°	952.0
25°	879.7
27.5°	686.2
30°	412.1
32.5°	270.8
35°	227.1
37.5°	203.5
40°	185.0
42.5°	168.2
45°	151.4
47.5°	136.2
50°	122.8
52.5°	109.3
55°	97.6
57.5°	89.1
60°	80.7
62.5°	72.3
65°	67.3
67.5°	63.9
70°	60.6
72.5°	57.2
75°	53.8
77.5°	50.5
80°	47.1
82.5°	43.7
85°	40.4
87.5°	37.0
90°	33.6
92.5°	32.0
95°	28.6
97.5°	21.9
100°	16.8
102.5°	11.8
105°	6.7
107.5°	5.0
110°	1.7

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	1.7
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)