

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: P702751

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9730-4LBW1LI-FF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702751  
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-40-D010 / 340-EU4C-3040-9730-4LBW1LI-FF  
Description: FARALLON 6" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

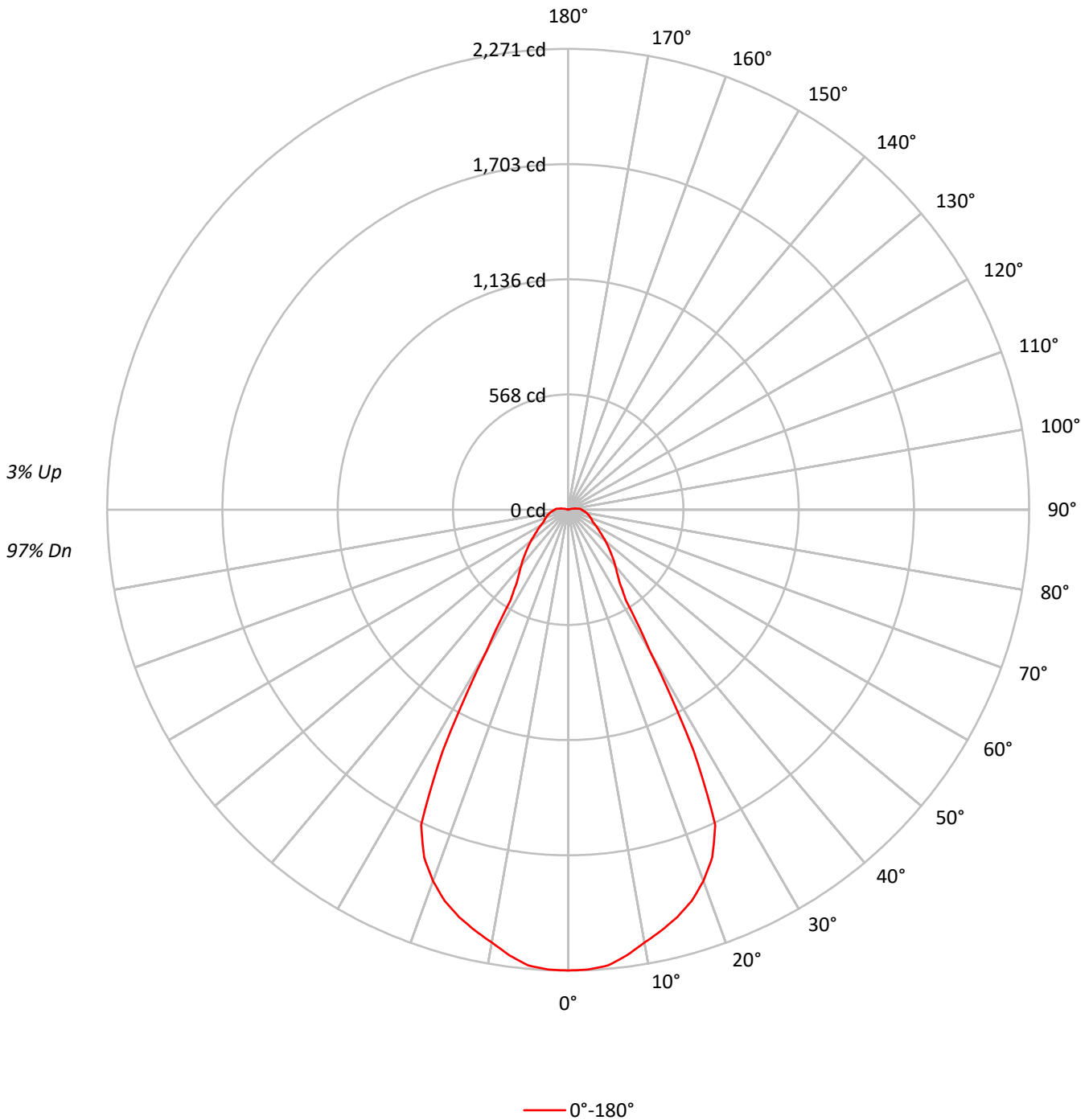
Lumens per Lamp: N/A  
Luminaire Lumens: 2615.3 lumens  
Efficiency: N/A  
Efficacy: 55.6 lumens/watt  
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.81  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

Input Watts (W): 47  
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°	148155
5°	131947
10°	115736
15°	102841
20°	90394
25°	75491
30°	33877
35°	18048
40°	14339
45°	11529
50°	9263
55°	7349
60°	6116
65°	5167
70°	4752
75°	4352
80°	3958
85°	3556

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 11529 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.2	8.1
10°-20°	583.6	22.3
20°-30°	711.9	27.2
30°-40°	301.4	11.5
40°-50°	228.7	8.7
50°-60°	173.1	6.6
60°-70°	132.3	5.1
70°-80°	110.8	4.2
80°-90°	85.8	3.3
90°-100°	57.3	2.2
100°-110°	17.0	0.6
110°-120°	1.3	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°	1507.6	57.6
0°-40°	1809.0	69.2
0°-60°	2210.9	84.5
0°-90°	2539.8	97.1
90°-120°	75.5	2.9
90°-150°	75.5	2.9
90°-180°	76.0	2.9
0°-180°	2615.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2271	
5°	2254	212
15°	2078	584
25°	1714	712
35°	442	301
45°	295	229
55°	190	173
65°	131	132
75°	105	111
85°	79	67
90°	66	36
95°	56	40
105°	13	17
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°	2270.9
2.5°	2267.6
5°	2254.5
7.5°	2215.2
10°	2166.0
12.5°	2123.4
15°	2077.5
17.5°	2021.8
20°	1946.5
22.5°	1854.7
25°	1713.8
27.5°	1337.0
30°	802.8
32.5°	527.6
35°	442.4
37.5°	396.5
40°	360.5
42.5°	327.7
45°	294.9
47.5°	265.4
50°	239.2
52.5°	213.0
55°	190.1
57.5°	173.7
60°	157.3
62.5°	140.9
65°	131.1
67.5°	124.5
70°	118.0
72.5°	111.4
75°	104.9
77.5°	98.3
80°	91.8
82.5°	85.2
85°	78.6
87.5°	72.1
90°	65.5
92.5°	62.3
95°	55.7
97.5°	42.6
100°	32.8
102.5°	22.9
105°	13.1
107.5°	9.8
110°	3.3

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**CANDELA DISTRIBUTION (continued):**

	0°
112.5°	3.3
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)