

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: P702481

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702481  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-14)  
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-GFF  
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

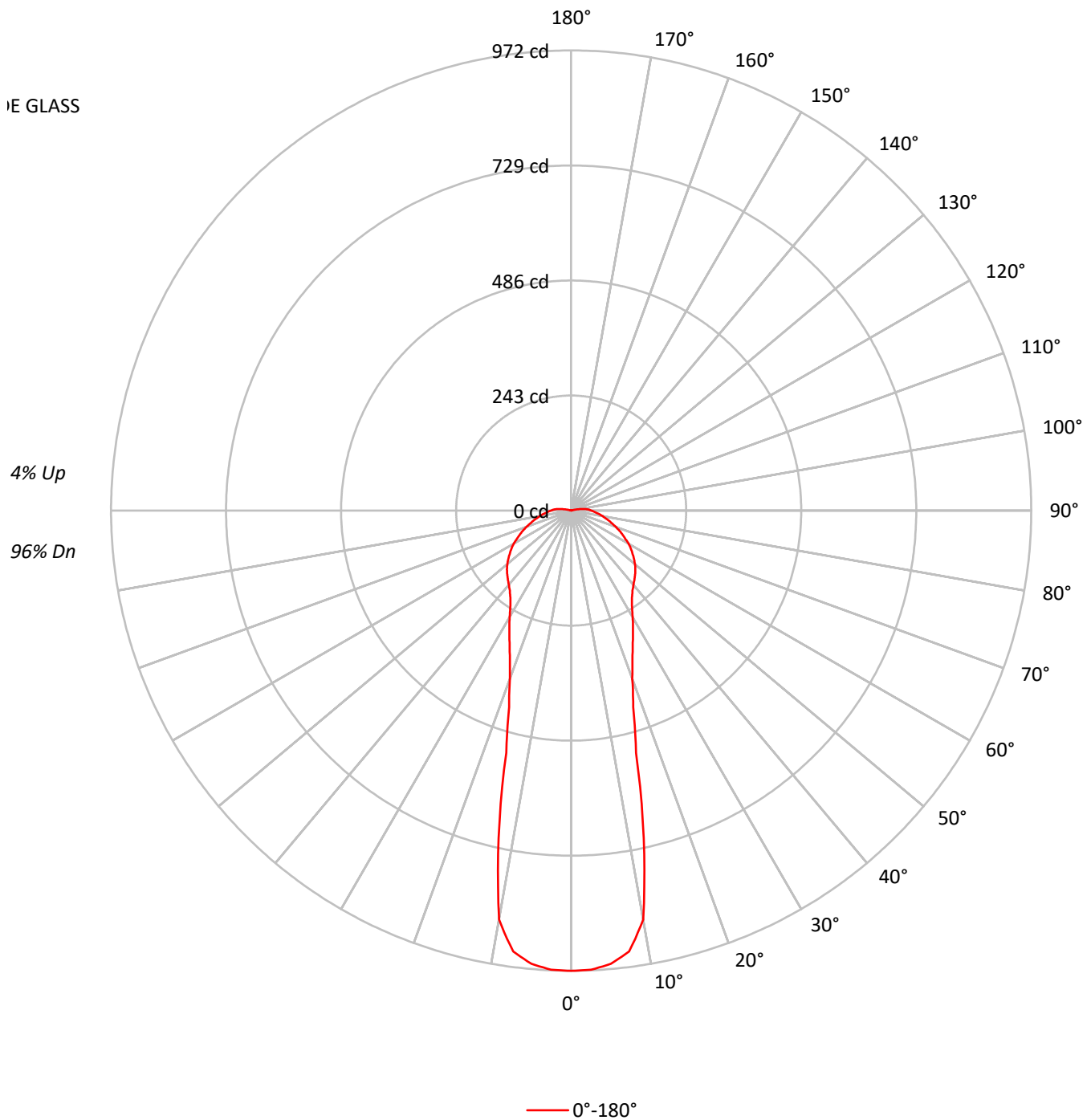
Lumens per Lamp: N/A  
Luminaire Lumens: 1125.3 lumens  
Efficiency: N/A  
Efficacy: 51.6 lumens/watt  
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.63  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

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

TEST NUMBER: P702481

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

### Luminous Intensity Polar Plot



TEST NUMBER: P702481

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

**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	109	109	109		104	104	104		99	99	99	96
1	107	102	97	93	104	99	95	91	94	91	88		90	87	84		85	83	81	79
2	98	89	82	77	95	87	81	75	83	78	73		79	75	71		76	72	69	66
3	90	79	71	65	87	77	70	64	74	68	62		71	65	61		68	63	59	57
4	83	71	63	56	80	70	62	56	67	60	54		64	58	53		61	56	52	50
5	77	65	56	49	75	63	55	49	61	54	48		58	52	47		56	51	47	44
6	72	59	50	44	70	58	50	44	56	49	43		54	47	43		52	46	42	40
7	67	54	46	40	65	53	45	40	51	44	39		50	43	39		48	43	38	36
8	63	50	42	37	61	49	42	36	48	41	36		46	40	36		45	39	35	33
9	60	47	39	34	58	46	39	34	45	38	33		43	37	33		42	37	33	31
10	56	44	36	31	55	43	36	31	42	35	31		41	35	31		40	34	30	29

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

	0°
0°	63420
5°	56255
10°	46882
15°	26236
20°	17535
25°	13549
30°	10950
35°	9130
40°	8138
45°	7463
50°	6808
55°	6104
60°	5448
65°	4710
70°	4035
75°	3419
80°	2902
85°	2420

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7463 cd/sqm

TEST NUMBER: P702481

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.4	7.9
10°-20°	155.6	13.8
20°-30°	142.7	12.7
30°-40°	141.9	12.6
40°-50°	147.4	13.1
50°-60°	141.7	12.6
60°-70°	118.5	10.5
70°-80°	87.4	7.8
80°-90°	59.1	5.3
90°-100°	34.3	3.0
100°-110°	7.1	0.6
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°	387.7	34.5
0°-40°	529.6	47.1
0°-60°	818.6	72.7
0°-90°	1083.7	96.3
90°-120°	41.6	3.7
90°-150°	41.6	3.7
90°-180°	42.0	3.7
0°-180°	1125.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	972	
5°	961	89
15°	530	156
25°	308	143
35°	224	142
45°	191	147
55°	158	142
65°	120	119
75°	82	87
85°	54	47
90°	43	24
95°	33	23
105°	6	7
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

TEST NUMBER: P702481

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	972.1
2.5°	970.8
5°	961.2
7.5°	939.2
10°	877.4
12.5°	708.5
15°	530.0
17.5°	435.3
20°	377.6
22.5°	337.8
25°	307.6
27.5°	282.9
30°	259.5
32.5°	238.9
35°	223.8
37.5°	212.8
40°	204.6
42.5°	197.7
45°	190.9
47.5°	184.0
50°	175.8
52.5°	167.5
55°	157.9
57.5°	149.7
60°	140.1
62.5°	129.1
65°	119.5
67.5°	109.8
70°	100.2
72.5°	90.6
75°	82.4
77.5°	74.1
80°	67.3
82.5°	60.4
85°	53.5
87.5°	48.1
90°	42.6
92.5°	38.4
95°	33.0
97.5°	24.7
100°	16.5
102.5°	9.6
105°	5.5
107.5°	2.7
110°	1.4

TEST NUMBER: P702481

CATALOG NUMBER: 340-6C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

**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)