

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: P701893

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701893
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

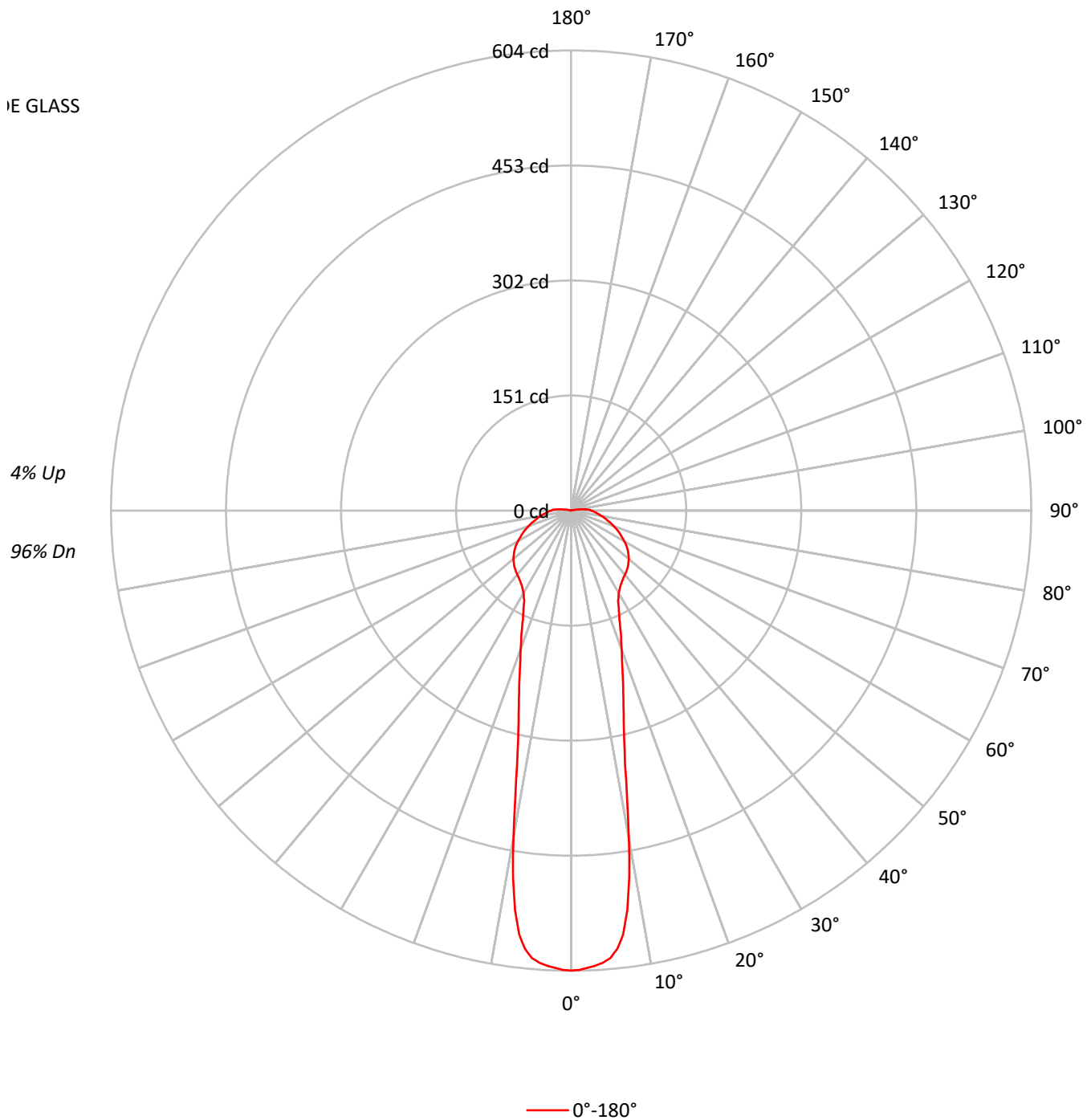
Lumens per Lamp: N/A
Luminaire Lumens: 612.0 lumens
Efficiency: N/A
Efficacy: 62.5 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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: P701893

CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

Luminous Intensity Polar Plot



TEST NUMBER: P701893

CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-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	101	96	92	103	98	94	90	94	90	87		89	86	83		85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72		78	73	69		74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61		69	64	59		66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47		57	51	46		55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42		52	46	41		51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38		49	42	37		47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35		45	39	34		44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32		42	36	32		41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	70031
5°	59768
10°	39546
15°	21921
20°	14769
25°	10614
30°	8448
35°	7465
40°	6863
45°	6390
50°	5897
55°	5367
60°	4745
65°	4157
70°	3550
75°	2993
80°	2533
85°	2165

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6390 cd/sqm

TEST NUMBER: P701893

CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.9	8.5
10°-20°	76.1	12.4
20°-30°	69.6	11.4
30°-40°	72.7	11.9
40°-50°	81.0	13.2
50°-60°	80.9	13.2
60°-70°	69.4	11.3
70°-80°	52.4	8.6
80°-90°	36.2	5.9
90°-100°	19.2	3.1
100°-110°	2.7	0.4
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°	197.5	32.3
0°-40°	270.3	44.2
0°-60°	432.2	70.6
0°-90°	590.2	96.4
90°-120°	21.9	3.6
90°-150°	21.9	3.6
90°-180°	22.0	3.6
0°-180°	612.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	604	
5°	590	52
15°	266	76
25°	149	70
35°	115	73
45°	105	81
55°	91	81
65°	70	69
75°	49	52
85°	33	29
90°	26	15
95°	18	12
105°	2	3
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: P701893

CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

CANDELA DISTRIBUTION (FULL):

0°	
0°	603.8
1°	603.0
2°	600.7
3°	598.3
4°	595.1
5°	589.6
6°	578.5
7°	560.4
8°	529.5
9°	487.6
10°	436.3
11°	384.1
12°	340.6
13°	309.0
14°	284.5
15°	265.6
16°	248.2
17°	232.4
18°	218.1
19°	204.7
20°	193.6
21°	183.4
22°	173.9
23°	164.4
24°	155.7
25°	148.6
27.5°	133.6
30°	124.9
32.5°	119.3
35°	115.4
37.5°	112.2
40°	109.9
42.5°	107.5
45°	105.1
47.5°	102.0
50°	98.8
52.5°	94.8
55°	90.9
57.5°	86.1
60°	80.6
62.5°	75.1
65°	70.3
67.5°	64.8
70°	59.3
72.5°	54.5

TEST NUMBER: P701893

CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

CANDELA DISTRIBUTION (continued):

	0°
75°	49.0
77.5°	45.0
80°	40.3
82.5°	36.4
85°	33.2
87.5°	30.0
90°	26.1
92.5°	23.7
95°	18.2
97.5°	11.9
100°	7.1
102.5°	4.0
105°	1.6
107.5°	0.8
110°	0.0
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)