

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: P701781

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701781
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-05-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

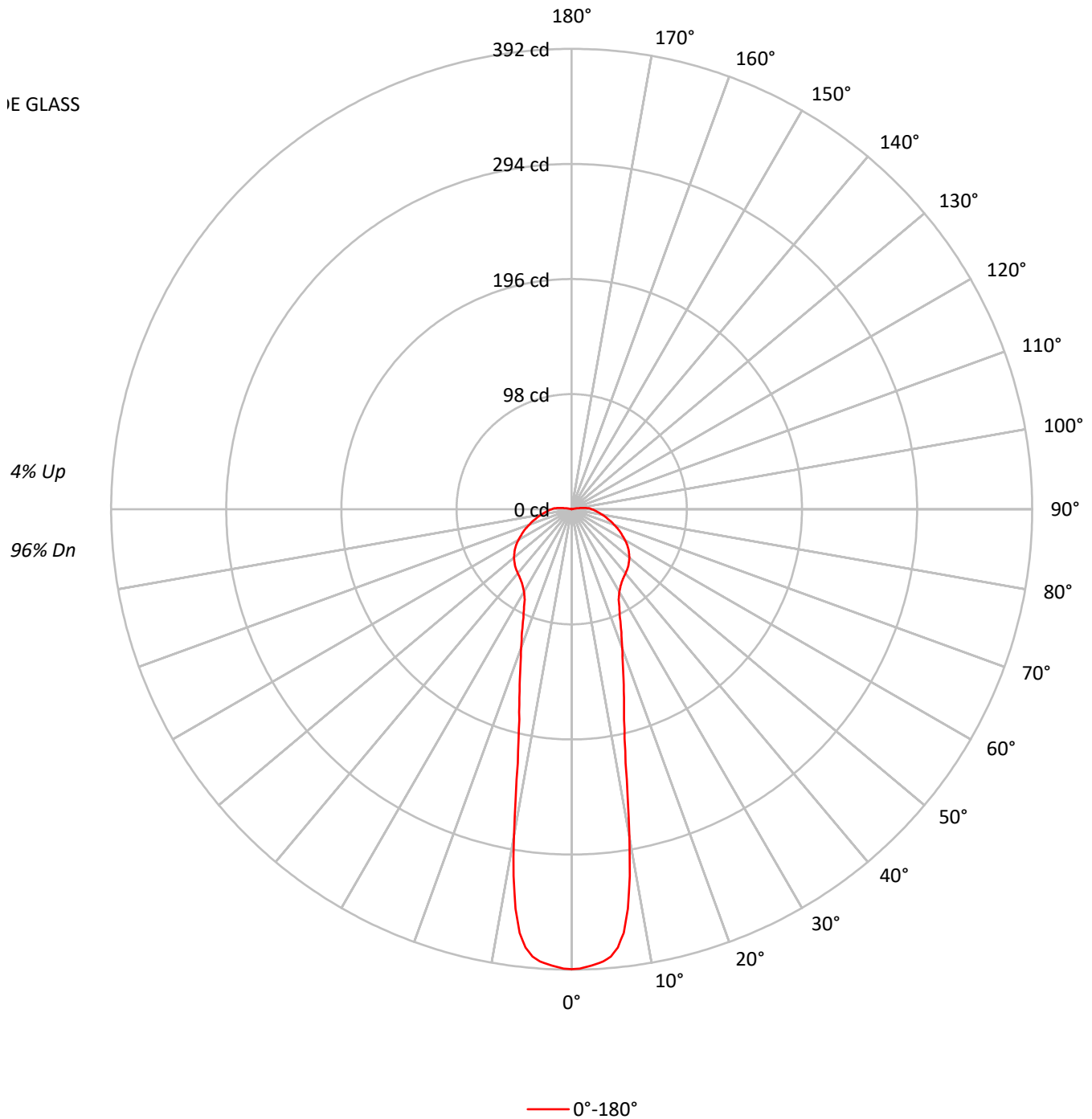
Lumens per Lamp: N/A
Luminaire Lumens: 397.0 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 7.2
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: P701781

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

Luminous Intensity Polar Plot



TEST NUMBER: P701781

CATALOG NUMBER: 340-4C-05-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°	45419
5°	38764
10°	25651
15°	14212
20°	9582
25°	6886
30°	5478
35°	4839
40°	4453
45°	4147
50°	3826
55°	3484
60°	3079
65°	2697
70°	2299
75°	1943
80°	1640
85°	1402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4147 cd/sqm

TEST NUMBER: P701781

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	8.5
10°-20°	49.3	12.4
20°-30°	45.1	11.4
30°-40°	47.2	11.9
40°-50°	52.5	13.2
50°-60°	52.5	13.2
60°-70°	45.0	11.3
70°-80°	34.0	8.6
80°-90°	23.5	5.9
90°-100°	12.5	3.1
100°-110°	1.7	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°	128.1	32.3
0°-40°	175.3	44.2
0°-60°	280.3	70.6
0°-90°	382.8	96.4
90°-120°	14.2	3.6
90°-150°	14.2	3.6
90°-180°	14.0	3.5
0°-180°	397.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	392	
5°	382	34
15°	172	49
25°	96	45
35°	75	47
45°	68	53
55°	59	53
65°	46	45
75°	32	34
85°	22	18
90°	17	9
95°	12	8
105°	1	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

TEST NUMBER: P701781

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

CANDELA DISTRIBUTION (FULL):

0°	
0°	391.6
1°	391.1
2°	389.6
3°	388.0
4°	386.0
5°	382.4
6°	375.2
7°	363.4
8°	343.5
9°	316.3
10°	283.0
11°	249.1
12°	220.9
13°	200.4
14°	184.5
15°	172.2
16°	161.0
17°	150.7
18°	141.5
19°	132.8
20°	125.6
21°	118.9
22°	112.8
23°	106.6
24°	101.0
25°	96.4
27.5°	86.6
30°	81.0
32.5°	77.4
35°	74.8
37.5°	72.8
40°	71.3
42.5°	69.7
45°	68.2
47.5°	66.1
50°	64.1
52.5°	61.5
55°	59.0
57.5°	55.9
60°	52.3
62.5°	48.7
65°	45.6
67.5°	42.0
70°	38.4
72.5°	35.4

TEST NUMBER: P701781

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

CANDELA DISTRIBUTION (continued):

	0°
75°	31.8
77.5°	29.2
80°	26.1
82.5°	23.6
85°	21.5
87.5°	19.5
90°	16.9
92.5°	15.4
95°	11.8
97.5°	7.7
100°	4.6
102.5°	2.6
105°	1.0
107.5°	0.5
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)