

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: P701767

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701767
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-1020-9030-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

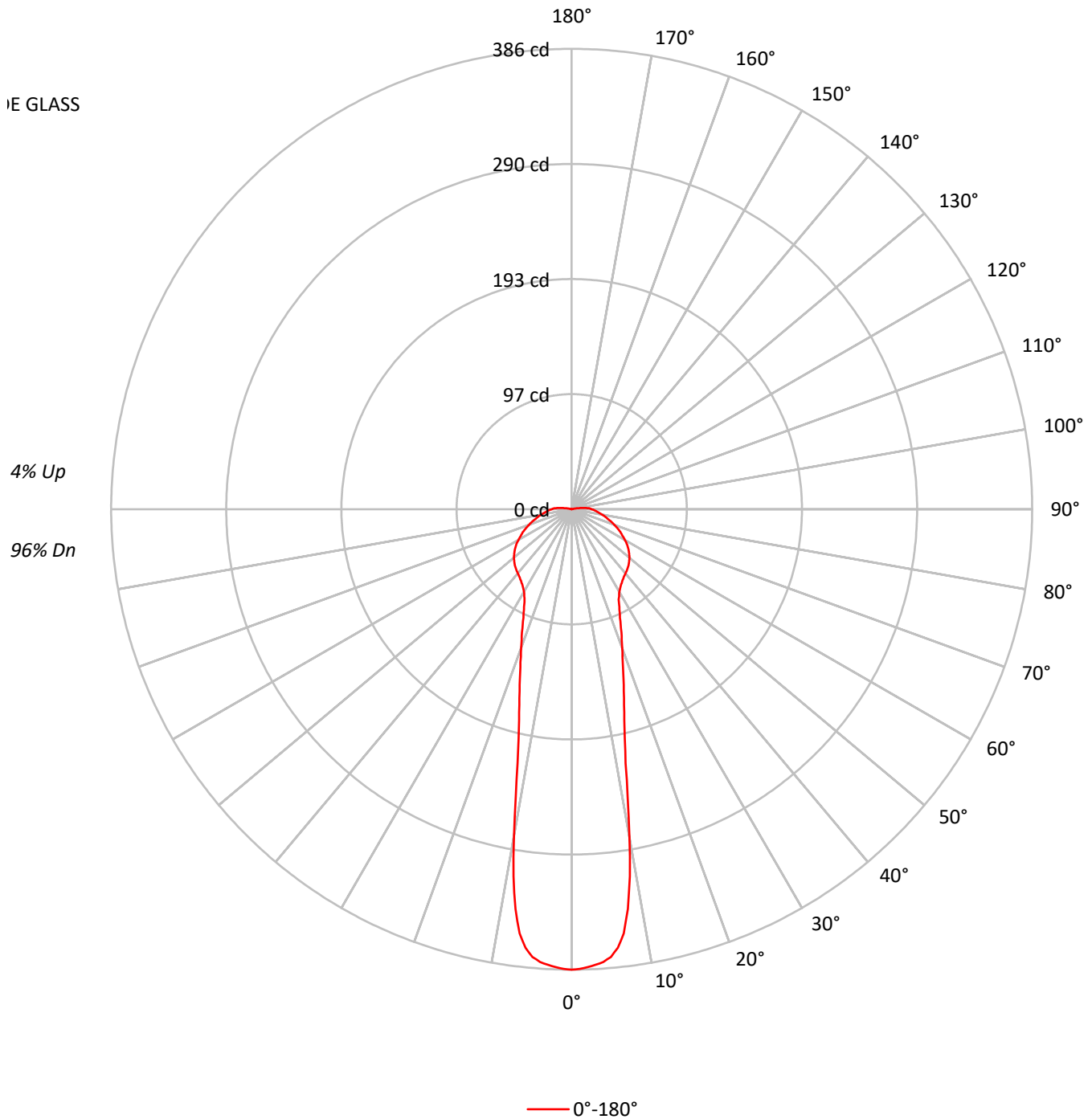
Lumens per Lamp: N/A
Luminaire Lumens: 391.2 lumens
Efficiency: N/A
Efficacy: 54.3 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

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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	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°	44770
5°	38206
10°	25280
15°	14014
20°	9445
25°	6786
30°	5397
35°	4774
40°	4384
45°	4086
50°	3772
55°	3431
60°	3032
65°	2661
70°	2269
75°	1912
80°	1621
85°	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4086 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.2	8.5
10°-20°	48.6	12.4
20°-30°	44.5	11.4
30°-40°	46.5	11.9
40°-50°	51.8	13.2
50°-60°	51.7	13.2
60°-70°	44.4	11.3
70°-80°	33.5	8.6
80°-90°	23.1	5.9
90°-100°	12.3	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°	126.3	32.3
0°-40°	172.8	44.2
0°-60°	276.3	70.6
0°-90°	377.3	96.4
90°-120°	14.0	3.6
90°-150°	14.0	3.6
90°-180°	14.0	3.6
0°-180°	391.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	386	
5°	377	33
15°	170	49
25°	95	44
35°	74	46
45°	67	52
55°	58	52
65°	45	44
75°	31	34
85°	21	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	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	386.0
1°	385.5
2°	384.0
3°	382.5
4°	380.4
5°	376.9
6°	369.8
7°	358.2
8°	338.5
9°	311.7
10°	278.9
11°	245.5
12°	217.7
13°	197.5
14°	181.9
15°	169.8
16°	158.6
17°	148.5
18°	139.4
19°	130.9
20°	123.8
21°	117.2
22°	111.1
23°	105.1
24°	99.5
25°	95.0
27.5°	85.4
30°	79.8
32.5°	76.3
35°	73.8
37.5°	71.7
40°	70.2
42.5°	68.7
45°	67.2
47.5°	65.2
50°	63.2
52.5°	60.6
55°	58.1
57.5°	55.1
60°	51.5
62.5°	48.0
65°	45.0
67.5°	41.4
70°	37.9
72.5°	34.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	31.3
77.5°	28.8
80°	25.8
82.5°	23.2
85°	21.2
87.5°	19.2
90°	16.7
92.5°	15.2
95°	11.6
97.5°	7.6
100°	4.5
102.5°	2.5
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)