

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: P701886

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701886
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-1020-9035-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

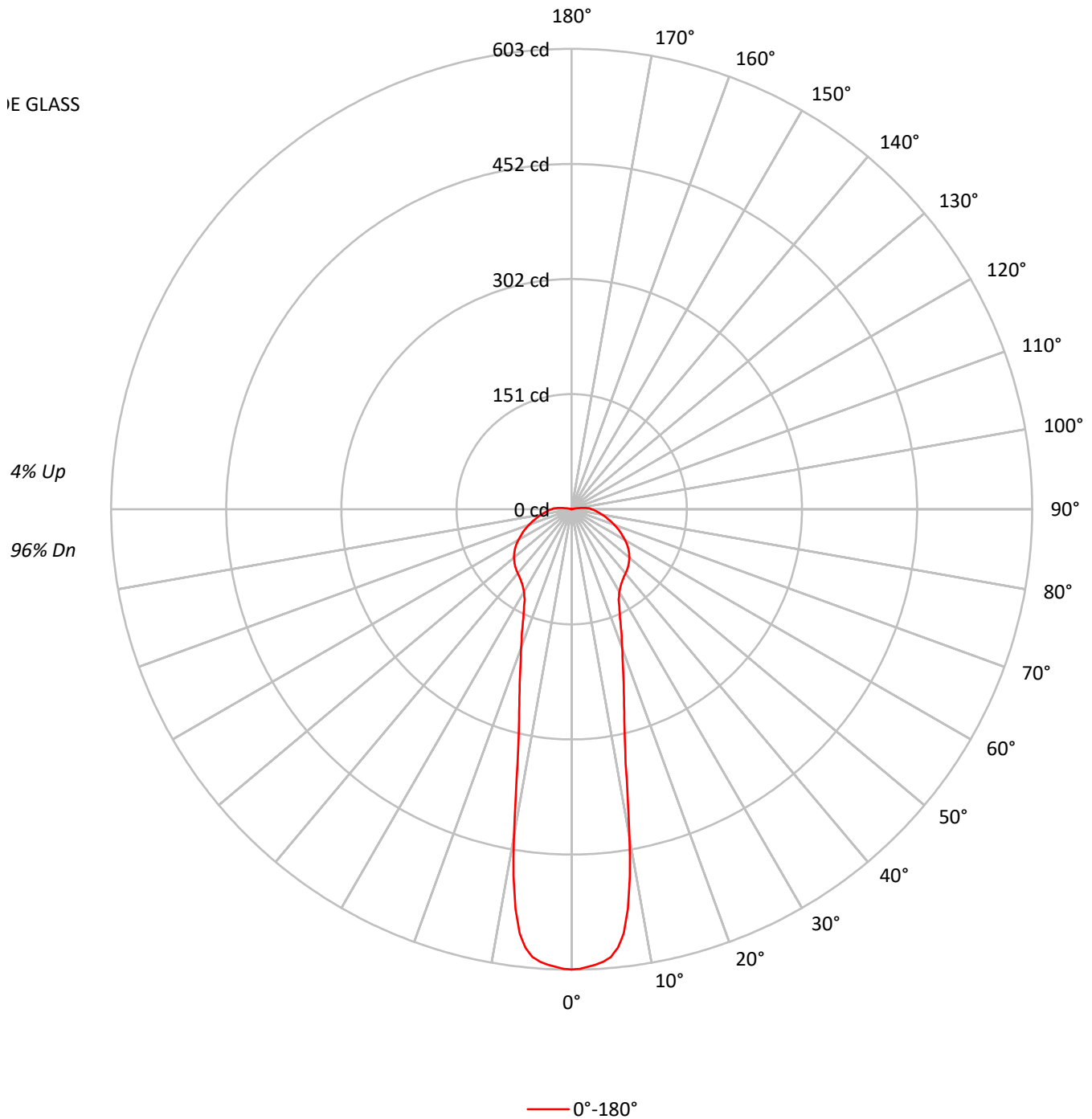
Lumens per Lamp: N/A
Luminaire Lumens: 610.9 lumens
Efficiency: N/A
Efficacy: 62.3 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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

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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°	69915
5°	59666
10°	39474
15°	21879
20°	14747
25°	10593
30°	8434
35°	7452
40°	6851
45°	6378
50°	5885
55°	5356
60°	4739
65°	4152
70°	3544
75°	2987
80°	2526
85°	2159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6378 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	8.5
10°-20°	75.9	12.4
20°-30°	69.5	11.4
30°-40°	72.6	11.9
40°-50°	80.8	13.2
50°-60°	80.8	13.2
60°-70°	69.3	11.3
70°-80°	52.3	8.6
80°-90°	36.1	5.9
90°-100°	19.2	3.1
100°-110°	2.6	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°	197.2	32.3
0°-40°	269.8	44.2
0°-60°	431.4	70.6
0°-90°	589.1	96.4
90°-120°	21.8	3.6
90°-150°	21.8	3.6
90°-180°	22.0	3.6
0°-180°	610.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	603	
5°	589	52
15°	265	76
25°	148	69
35°	115	73
45°	105	81
55°	91	81
65°	70	69
75°	49	52
85°	33	28
90°	26	14
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	602.8
1°	602.0
2°	599.6
3°	597.3
4°	594.1
5°	588.6
6°	577.6
7°	559.4
8°	528.6
9°	486.8
10°	435.5
11°	383.5
12°	340.1
13°	308.5
14°	284.0
15°	265.1
16°	247.7
17°	232.0
18°	217.8
19°	204.4
20°	193.3
21°	183.1
22°	173.6
23°	164.1
24°	155.4
25°	148.3
27.5°	133.3
30°	124.7
32.5°	119.1
35°	115.2
37.5°	112.0
40°	109.7
42.5°	107.3
45°	104.9
47.5°	101.8
50°	98.6
52.5°	94.7
55°	90.7
57.5°	86.0
60°	80.5
62.5°	75.0
65°	70.2
67.5°	64.7
70°	59.2
72.5°	54.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	48.9
77.5°	45.0
80°	40.2
82.5°	36.3
85°	33.1
87.5°	30.0
90°	26.0
92.5°	23.7
95°	18.1
97.5°	11.8
100°	7.1
102.5°	3.9
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)