

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: P701851

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9727-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701851
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-08-D010 / 340-EU4C-1020-9727-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

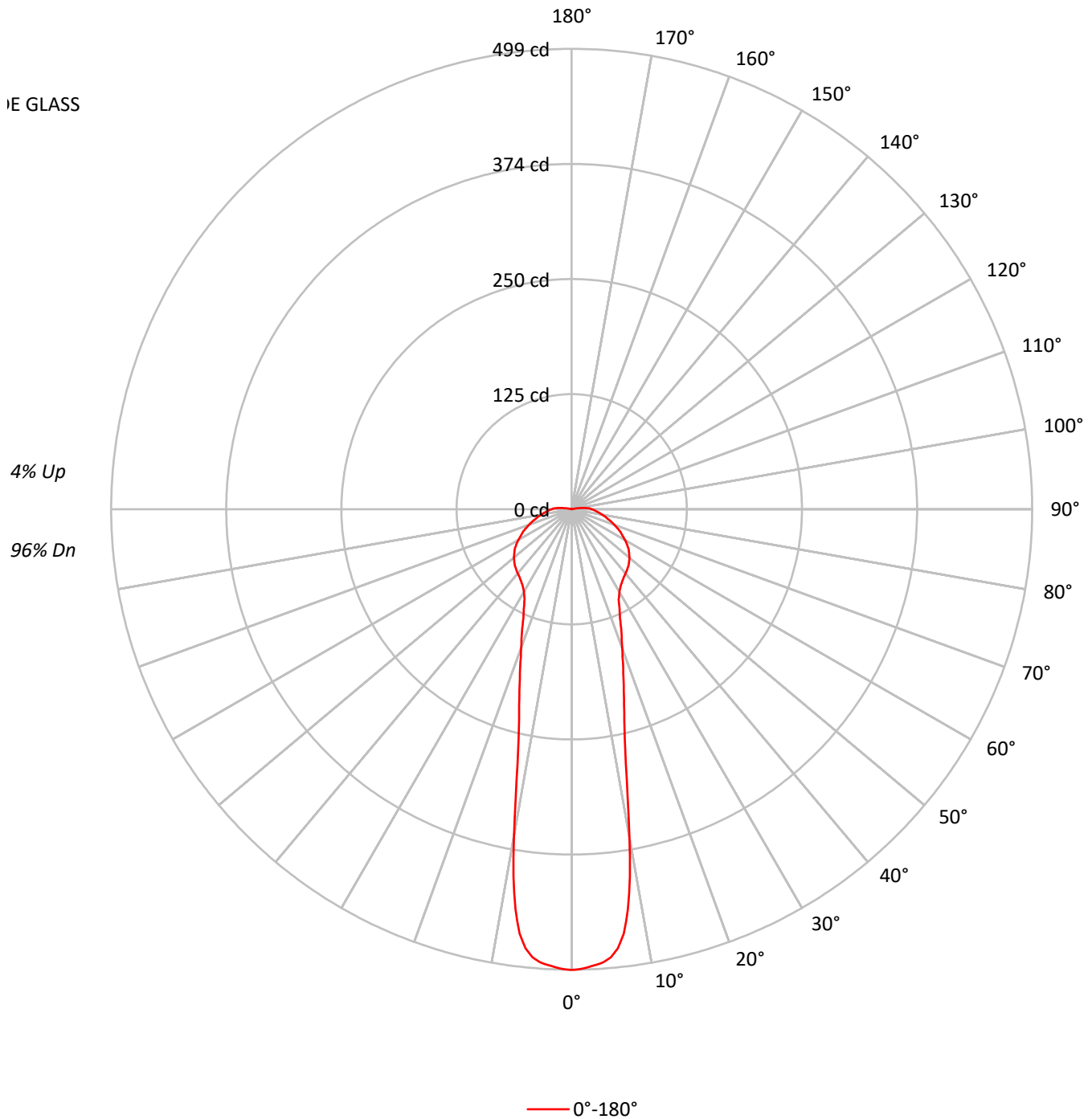
Lumens per Lamp: N/A
Luminaire Lumens: 506.1 lumens
Efficiency: N/A
Efficacy: 51.1 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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°	57910
5°	49418
10°	32694
15°	18124
20°	12214
25°	8779
30°	6987
35°	6172
40°	5670
45°	5284
50°	4876
55°	4440
60°	3927
65°	3442
70°	2934
75°	2474
80°	2093
85°	1787

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5284 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.9	8.5
10°-20°	62.9	12.4
20°-30°	57.5	11.4
30°-40°	60.1	11.9
40°-50°	67.0	13.2
50°-60°	66.9	13.2
60°-70°	57.4	11.3
70°-80°	43.3	8.6
80°-90°	29.9	5.9
90°-100°	15.9	3.1
100°-110°	2.2	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°	163.3	32.3
0°-40°	223.5	44.2
0°-60°	357.4	70.6
0°-90°	488.0	96.4
90°-120°	18.1	3.6
90°-150°	18.1	3.6
90°-180°	18.0	3.6
0°-180°	506.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	499	
5°	488	43
15°	220	63
25°	123	58
35°	95	60
45°	87	67
55°	75	67
65°	58	57
75°	40	43
85°	27	24
90°	22	12
95°	15	10
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	499.3
1°	498.6
2°	496.7
3°	494.7
4°	492.1
5°	487.5
6°	478.4
7°	463.4
8°	437.9
9°	403.2
10°	360.7
11°	317.6
12°	281.7
13°	255.5
14°	235.3
15°	219.6
16°	205.2
17°	192.1
18°	180.4
19°	169.3
20°	160.1
21°	151.6
22°	143.8
23°	135.9
24°	128.7
25°	122.9
27.5°	110.4
30°	103.3
32.5°	98.7
35°	95.4
37.5°	92.8
40°	90.8
42.5°	88.9
45°	86.9
47.5°	84.3
50°	81.7
52.5°	78.4
55°	75.2
57.5°	71.2
60°	66.7
62.5°	62.1
65°	58.2
67.5°	53.6
70°	49.0
72.5°	45.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	40.5
77.5°	37.3
80°	33.3
82.5°	30.1
85°	27.4
87.5°	24.8
90°	21.6
92.5°	19.6
95°	15.0
97.5°	9.8
100°	5.9
102.5°	3.3
105°	1.3
107.5°	0.7
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)