

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: P701906

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9727-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-7)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-10-D010 / 340-EU4C-1020-9727-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

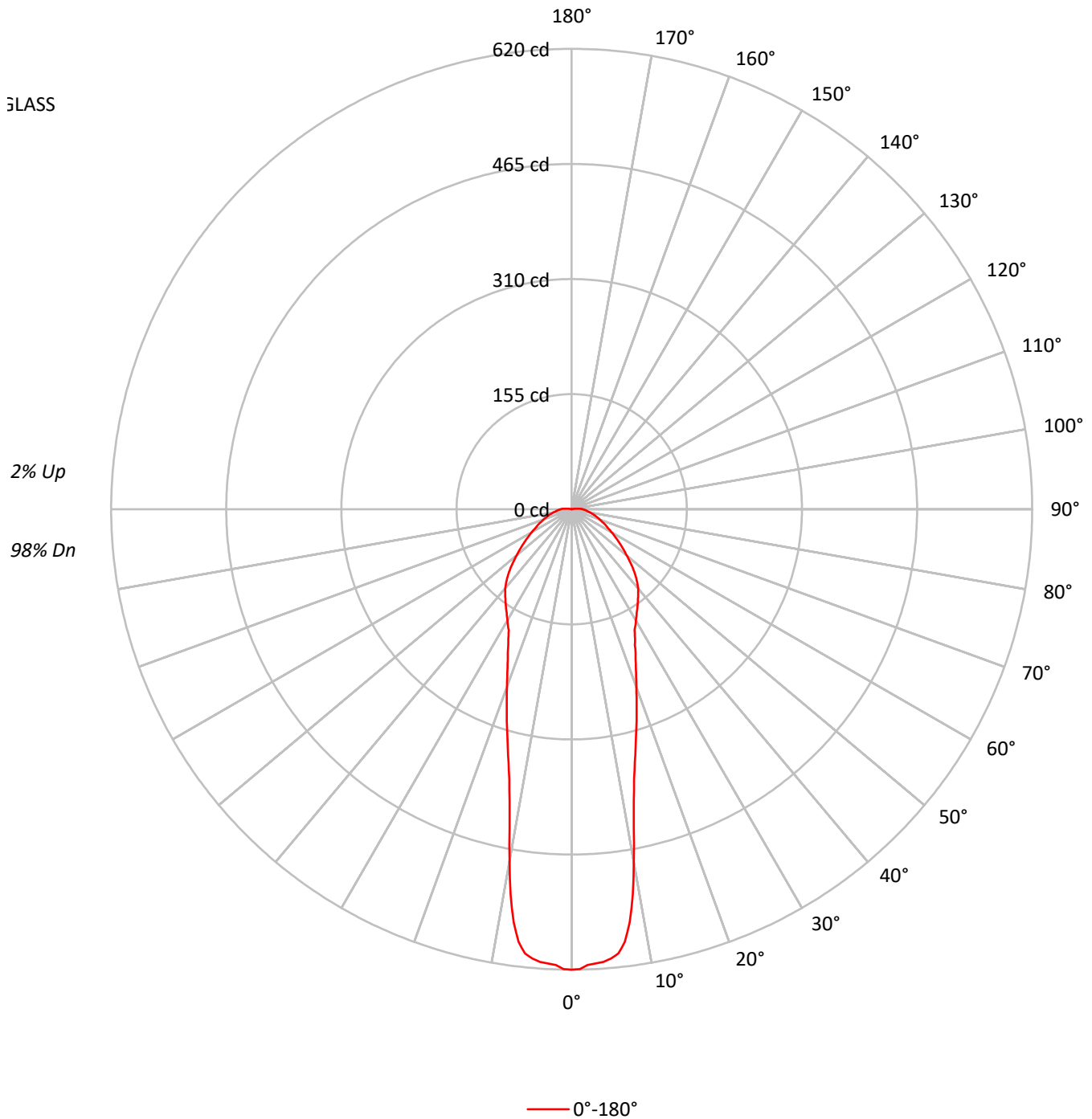
Lumens per Lamp: N/A
Luminaire Lumens: 617.7 lumens
Efficiency: N/A
Efficacy: 63.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92		93	91	89		89	87	86	83
2	100	93	87	81	98	91	85	80	87	82	78		84	80	76		80	77	74	72
3	93	83	76	70	90	82	75	69	78	73	68		75	71	66		73	69	65	63
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		66	62	58	56
5	80	69	60	54	78	67	60	54	65	58	53		63	57	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	48		57	51	47	45
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	54	46	41	65	53	46	41	52	45	40		50	44	40		49	44	40	38
9	62	50	43	38	61	50	43	38	48	42	37		47	41	37		46	41	37	35
10	59	47	40	35	58	47	40	35	45	39	35		44	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	71921
5°	61562
10°	43716
15°	27442
20°	19423
25°	14393
30°	11701
35°	10027
40°	8699
45°	7242
50°	5766
55°	4600
60°	3662
65°	2969
70°	2419
75°	1967
80°	1552
85°	1272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7242 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	8.8
10°-20°	94.0	15.2
20°-30°	94.2	15.2
30°-40°	97.2	15.7
40°-50°	91.4	14.8
50°-60°	70.1	11.3
60°-70°	49.9	8.1
70°-80°	34.1	5.5
80°-90°	21.3	3.5
90°-100°	10.1	1.6
100°-110°	0.9	0.1
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°	242.7	39.3
0°-40°	339.8	55.0
0°-60°	501.3	81.2
0°-90°	606.7	98.2
90°-120°	11.0	1.8
90°-150°	11.0	1.8
90°-180°	11.0	1.8
0°-180°	617.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	620	
5°	607	55
15°	332	94
25°	202	94
35°	155	97
45°	119	91
55°	78	70
65°	50	50
75°	32	34
85°	20	17
90°	15	8
95°	9	6
105°	0	1
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°	620.1
1°	619.3
2°	614.1
3°	612.6
4°	611.1
5°	607.3
6°	601.4
7°	587.1
8°	561.7
9°	525.7
10°	482.3
11°	438.1
12°	401.4
13°	372.9
14°	351.2
15°	332.5
16°	314.5
17°	298.8
18°	283.1
19°	268.1
20°	254.6
21°	241.9
22°	230.7
23°	220.2
24°	211.2
25°	201.5
27.5°	183.5
30°	173.0
32.5°	163.3
35°	155.0
37.5°	146.8
40°	139.3
42.5°	129.6
45°	119.1
47.5°	107.8
50°	96.6
52.5°	86.9
55°	77.9
57.5°	69.6
60°	62.2
62.5°	55.4
65°	50.2
67.5°	44.9
70°	40.4
72.5°	35.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	32.2
77.5°	28.5
80°	24.7
82.5°	21.7
85°	19.5
87.5°	17.2
90°	15.0
92.5°	12.7
95°	9.0
97.5°	6.0
100°	3.7
102.5°	1.5
105°	0.0
107.5°	0.0
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)