

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: P701899

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701899
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-1020-9050-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

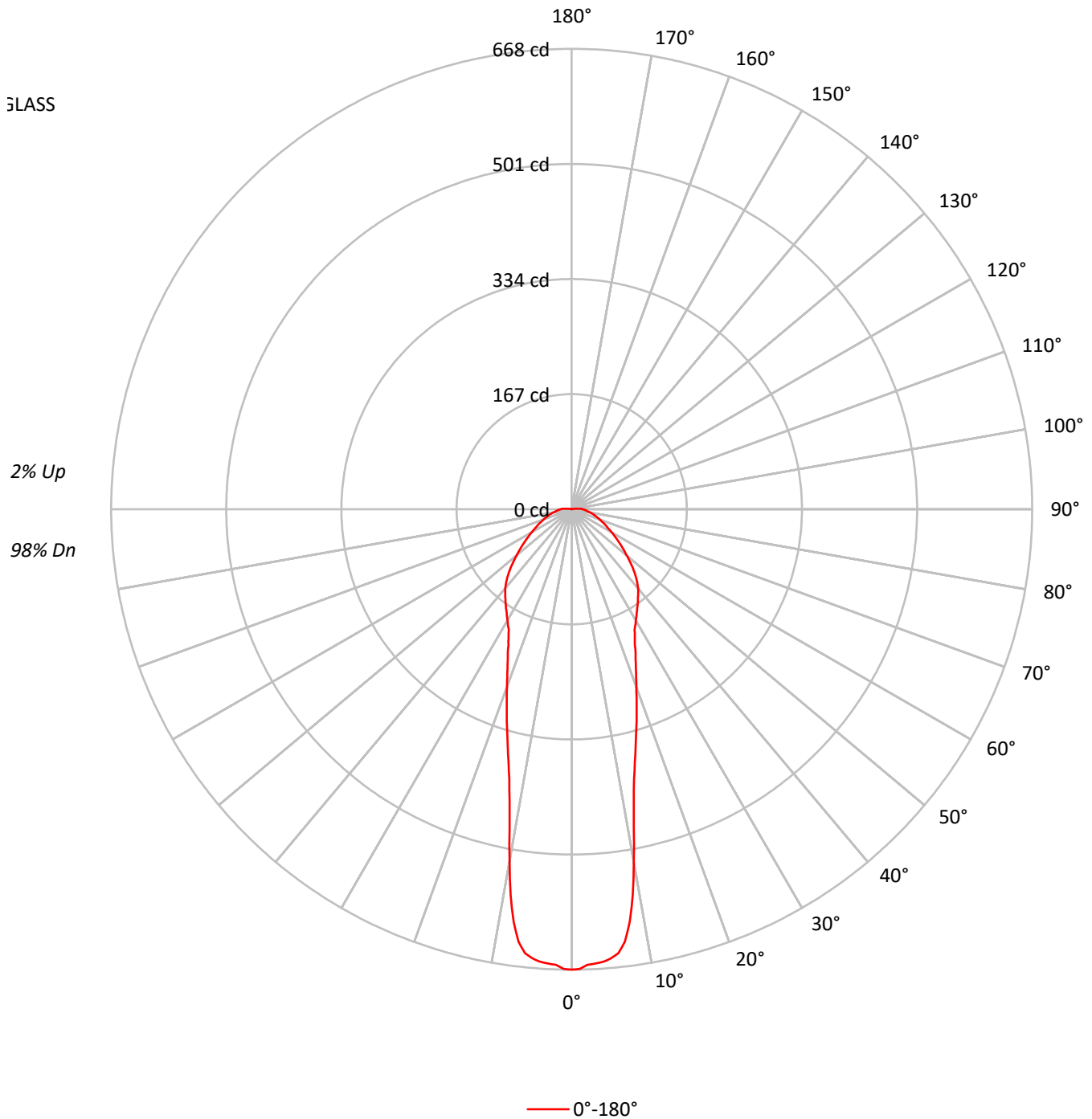
Lumens per Lamp: N/A
Luminaire Lumens: 665.4 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	42	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°	77465
5°	66316
10°	47088
15°	29563
20°	20926
25°	15500
30°	12600
35°	10803
40°	9367
45°	7801
50°	6213
55°	4954
60°	3944
65°	3193
70°	2610
75°	2120
80°	1672
85°	1370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7801 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	8.8
10°-20°	101.3	15.2
20°-30°	101.4	15.2
30°-40°	104.6	15.7
40°-50°	98.5	14.8
50°-60°	75.5	11.3
60°-70°	53.8	8.1
70°-80°	36.8	5.5
80°-90°	23.0	3.5
90°-100°	10.9	1.6
100°-110°	1.0	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°	261.4	39.3
0°-40°	366.0	55.0
0°-60°	540.0	81.2
0°-90°	653.6	98.2
90°-120°	11.9	1.8
90°-150°	11.9	1.8
90°-180°	12.0	1.8
0°-180°	665.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	668	
5°	654	59
15°	358	101
25°	217	101
35°	167	105
45°	128	98
55°	84	76
65°	54	54
75°	35	37
85°	21	18
90°	16	9
95°	10	7
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°	667.9
1°	667.1
2°	661.5
3°	659.9
4°	658.2
5°	654.2
6°	647.8
7°	632.4
8°	605.0
9°	566.3
10°	519.5
11°	471.9
12°	432.4
13°	401.7
14°	378.3
15°	358.2
16°	338.8
17°	321.9
18°	304.9
19°	288.8
20°	274.3
21°	260.6
22°	248.5
23°	237.2
24°	227.5
25°	217.0
27.5°	197.6
30°	186.3
32.5°	175.9
35°	167.0
37.5°	158.1
40°	150.0
42.5°	139.6
45°	128.3
47.5°	116.2
50°	104.1
52.5°	93.6
55°	83.9
57.5°	75.0
60°	67.0
62.5°	59.7
65°	54.0
67.5°	48.4
70°	43.6
72.5°	38.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	34.7
77.5°	30.7
80°	26.6
82.5°	23.4
85°	21.0
87.5°	18.6
90°	16.1
92.5°	13.7
95°	9.7
97.5°	6.5
100°	4.0
102.5°	1.6
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)