

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: P701822

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701822
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-08-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

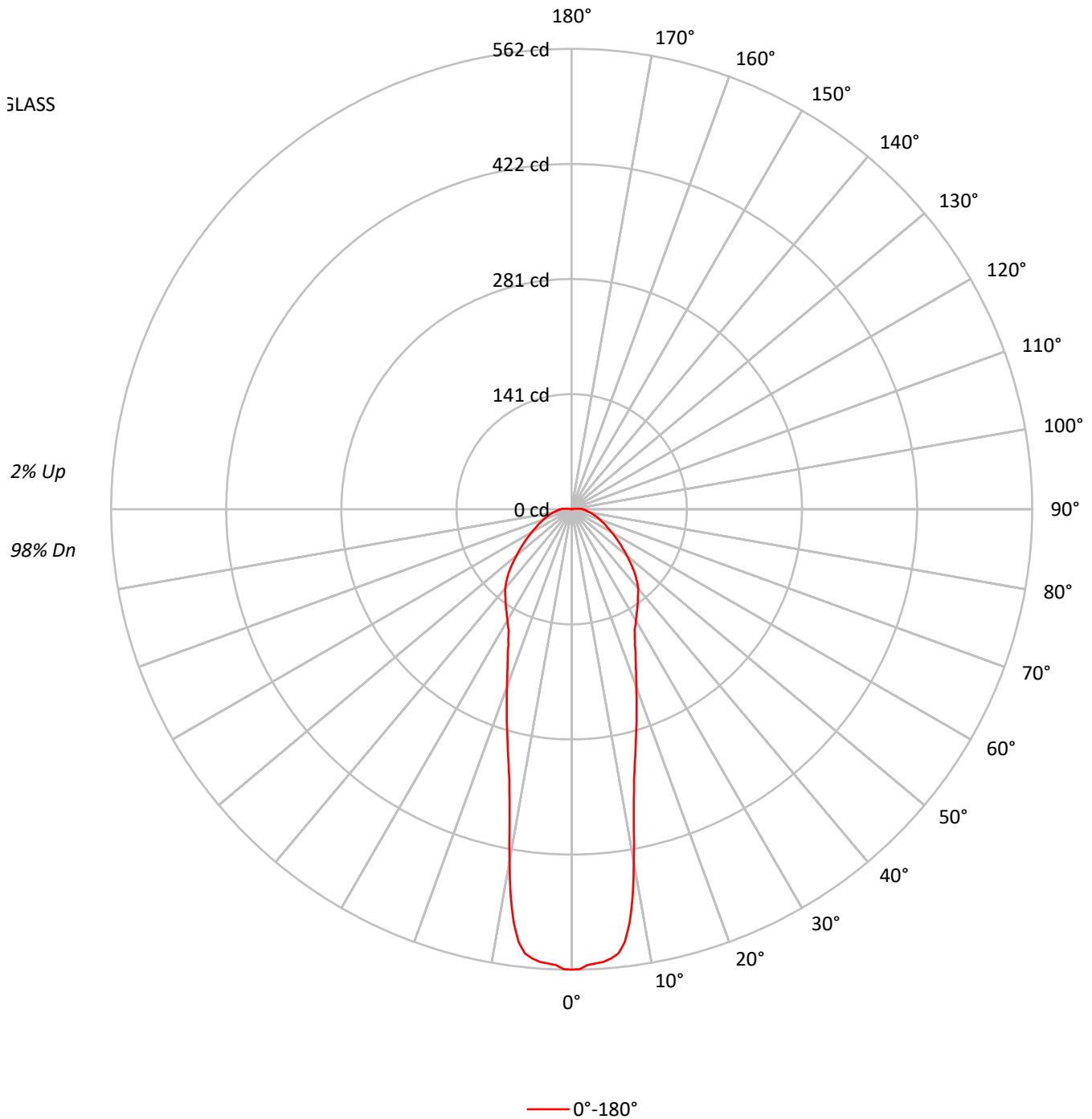
Lumens per Lamp: N/A
Luminaire Lumens: 559.9 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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	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°	65183
5°	55804
10°	39619
15°	24875
20°	17607
25°	13043
30°	10605
35°	9089
40°	7887
45°	6561
50°	5228
55°	4169
60°	3314
65°	2691
70°	2197
75°	1784
80°	1408
85°	1148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6561 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	8.8
10°-20°	85.2	15.2
20°-30°	85.3	15.2
30°-40°	88.1	15.7
40°-50°	82.8	14.8
50°-60°	63.5	11.3
60°-70°	45.3	8.1
70°-80°	30.9	5.5
80°-90°	19.3	3.5
90°-100°	9.2	1.6
100°-110°	0.8	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°	219.9	39.3
0°-40°	308.0	55.0
0°-60°	454.3	81.2
0°-90°	549.9	98.2
90°-120°	10.0	1.8
90°-150°	10.0	1.8
90°-180°	10.0	1.8
0°-180°	559.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	562	
5°	550	49
15°	301	85
25°	183	85
35°	140	88
45°	108	83
55°	71	64
65°	46	45
75°	29	31
85°	18	15
90°	14	7
95°	8	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°	562.0
1°	561.4
2°	556.6
3°	555.2
4°	553.9
5°	550.5
6°	545.1
7°	532.2
8°	509.1
9°	476.5
10°	437.1
11°	397.1
12°	363.8
13°	338.0
14°	318.4
15°	301.4
16°	285.1
17°	270.8
18°	256.6
19°	243.0
20°	230.8
21°	219.2
22°	209.1
23°	199.6
24°	191.4
25°	182.6
27.5°	166.3
30°	156.8
32.5°	148.0
35°	140.5
37.5°	133.0
40°	126.3
42.5°	117.4
45°	107.9
47.5°	97.7
50°	87.6
52.5°	78.7
55°	70.6
57.5°	63.1
60°	56.3
62.5°	50.2
65°	45.5
67.5°	40.7
70°	36.7
72.5°	32.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	29.2
77.5°	25.8
80°	22.4
82.5°	19.7
85°	17.6
87.5°	15.6
90°	13.6
92.5°	11.5
95°	8.1
97.5°	5.4
100°	3.4
102.5°	1.4
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)