

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: P701836

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9040-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701836
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-1020-9040-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

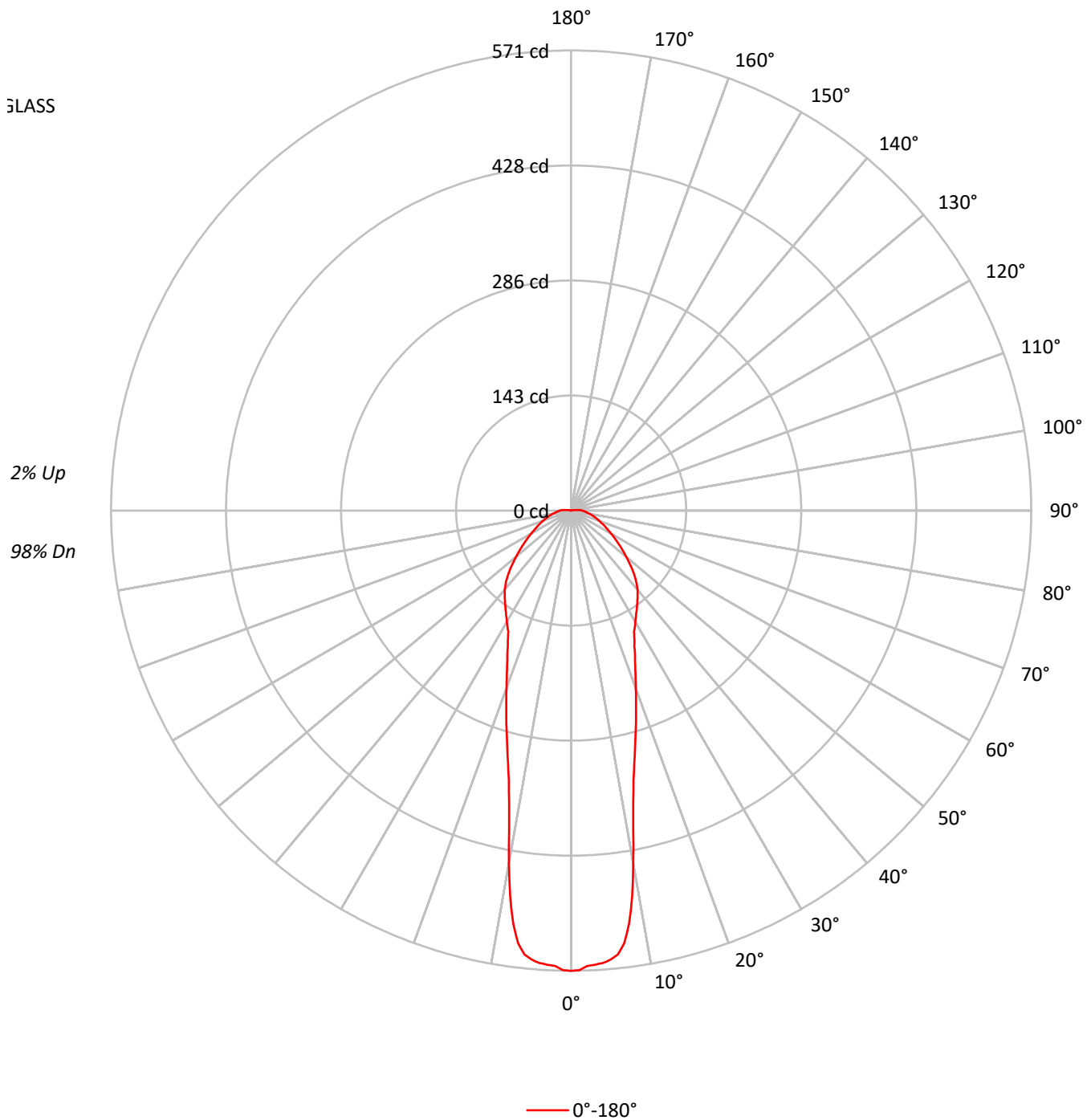
Lumens per Lamp: N/A
Luminaire Lumens: 569.1 lumens
Efficiency: N/A
Efficacy: 57.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	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°	66250
5°	56717
10°	40271
15°	25280
20°	17897
25°	13257
30°	10781
35°	9238
40°	8012
45°	6670
50°	5312
55°	4234
60°	3373
65°	2732
70°	2233
75°	1814
80°	1433
85°	1167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6670 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	8.8
10°-20°	86.6	15.2
20°-30°	86.7	15.2
30°-40°	89.5	15.7
40°-50°	84.2	14.8
50°-60°	64.6	11.3
60°-70°	46.0	8.1
70°-80°	31.4	5.5
80°-90°	19.7	3.5
90°-100°	9.3	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°	223.5	39.3
0°-40°	313.0	55.0
0°-60°	461.8	81.2
0°-90°	558.9	98.2
90°-120°	10.1	1.8
90°-150°	10.1	1.8
90°-180°	10.0	1.8
0°-180°	569.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	571	
5°	560	50
15°	306	87
25°	186	87
35°	143	89
45°	110	84
55°	72	65
65°	46	46
75°	30	31
85°	18	16
90°	14	8
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°	571.2
1°	570.5
2°	565.7
3°	564.3
4°	562.9
5°	559.5
6°	554.0
7°	540.9
8°	517.4
9°	484.3
10°	444.3
11°	403.6
12°	369.8
13°	343.6
14°	323.6
15°	306.3
16°	289.8
17°	275.3
18°	260.8
19°	247.0
20°	234.6
21°	222.8
22°	212.5
23°	202.8
24°	194.5
25°	185.6
27.5°	169.0
30°	159.4
32.5°	150.4
35°	142.8
37.5°	135.2
40°	128.3
42.5°	119.4
45°	109.7
47.5°	99.3
50°	89.0
52.5°	80.0
55°	71.7
57.5°	64.2
60°	57.3
62.5°	51.1
65°	46.2
67.5°	41.4
70°	37.3
72.5°	33.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	29.7
77.5°	26.2
80°	22.8
82.5°	20.0
85°	17.9
87.5°	15.9
90°	13.8
92.5°	11.7
95°	8.3
97.5°	5.5
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)