

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: P701787

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701787
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-05-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

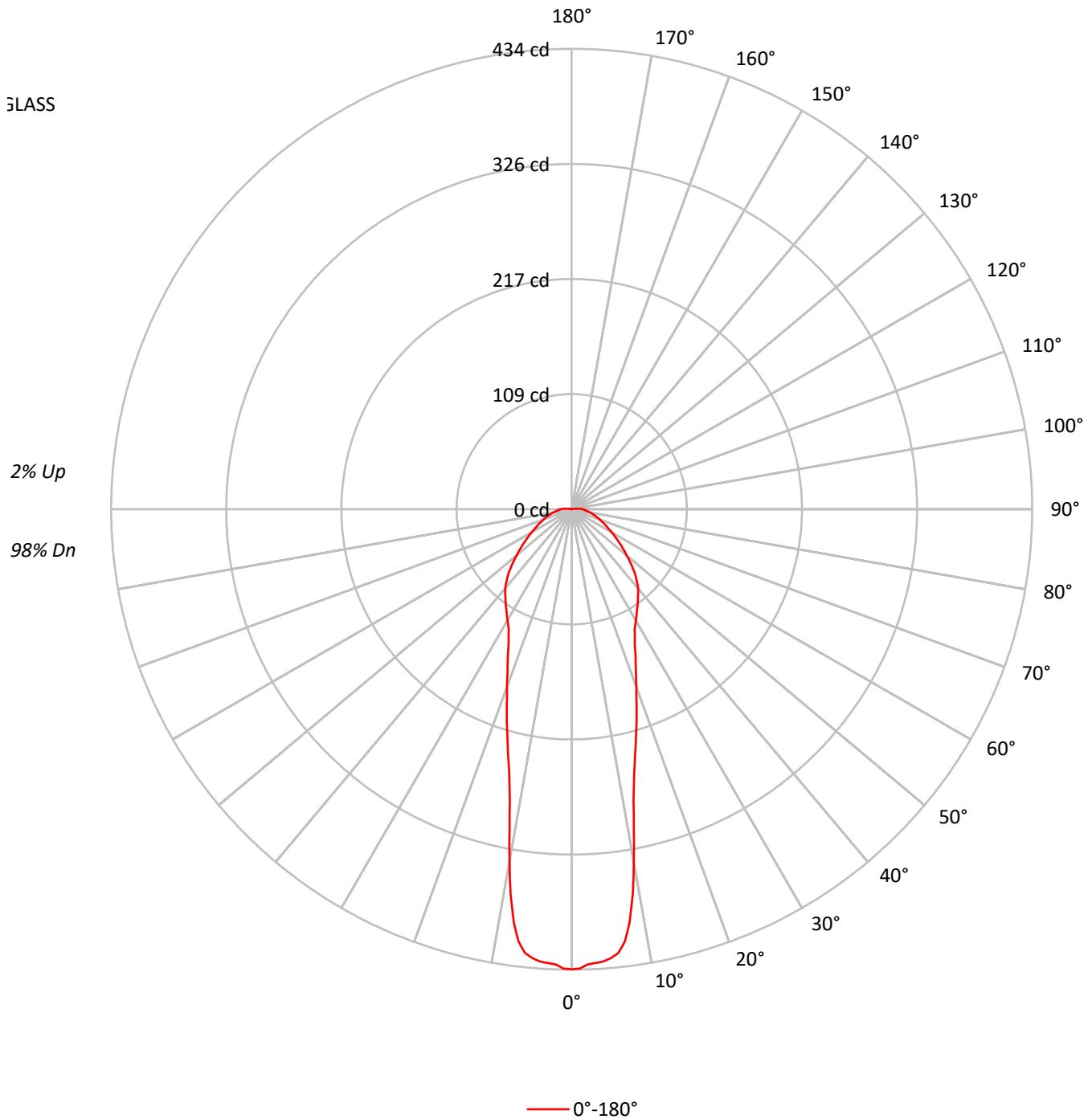
Lumens per Lamp: N/A
Luminaire Lumens: 432.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 7.2
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°	50302
5°	43062
10°	30573
15°	19189
20°	13587
25°	10064
30°	8184
35°	7012
40°	6082
45°	5065
50°	4035
55°	3218
60°	2561
65°	2076
70°	1694
75°	1374
80°	1087
85°	887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5065 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.1	8.8
10°-20°	65.7	15.2
20°-30°	65.8	15.2
30°-40°	68.0	15.7
40°-50°	63.9	14.8
50°-60°	49.0	11.4
60°-70°	34.9	8.1
70°-80°	23.8	5.5
80°-90°	14.9	3.5
90°-100°	7.1	1.6
100°-110°	0.6	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°	169.7	39.3
0°-40°	237.7	55.0
0°-60°	350.6	81.2
0°-90°	424.3	98.2
90°-120°	7.7	1.8
90°-150°	7.7	1.8
90°-180°	8.0	1.9
0°-180°	432.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	434	
5°	425	38
15°	232	66
25°	141	66
35°	108	68
45°	83	64
55°	54	49
65°	35	35
75°	22	24
85°	14	12
90°	10	6
95°	6	4
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°	433.7
1°	433.1
2°	429.5
3°	428.4
4°	427.4
5°	424.8
6°	420.6
7°	410.6
8°	392.8
9°	367.7
10°	337.3
11°	306.4
12°	280.7
13°	260.8
14°	245.6
15°	232.5
16°	220.0
17°	209.0
18°	198.0
19°	187.5
20°	178.1
21°	169.2
22°	161.3
23°	154.0
24°	147.7
25°	140.9
27.5°	128.3
30°	121.0
32.5°	114.2
35°	108.4
37.5°	102.7
40°	97.4
42.5°	90.6
45°	83.3
47.5°	75.4
50°	67.6
52.5°	60.8
55°	54.5
57.5°	48.7
60°	43.5
62.5°	38.8
65°	35.1
67.5°	31.4
70°	28.3
72.5°	25.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	22.5
77.5°	19.9
80°	17.3
82.5°	15.2
85°	13.6
87.5°	12.0
90°	10.5
92.5°	8.9
95°	6.3
97.5°	4.2
100°	2.6
102.5°	1.0
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)