

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: P702249

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9730-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702249
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-40-D010 / 340-EU4C-3040-9730-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

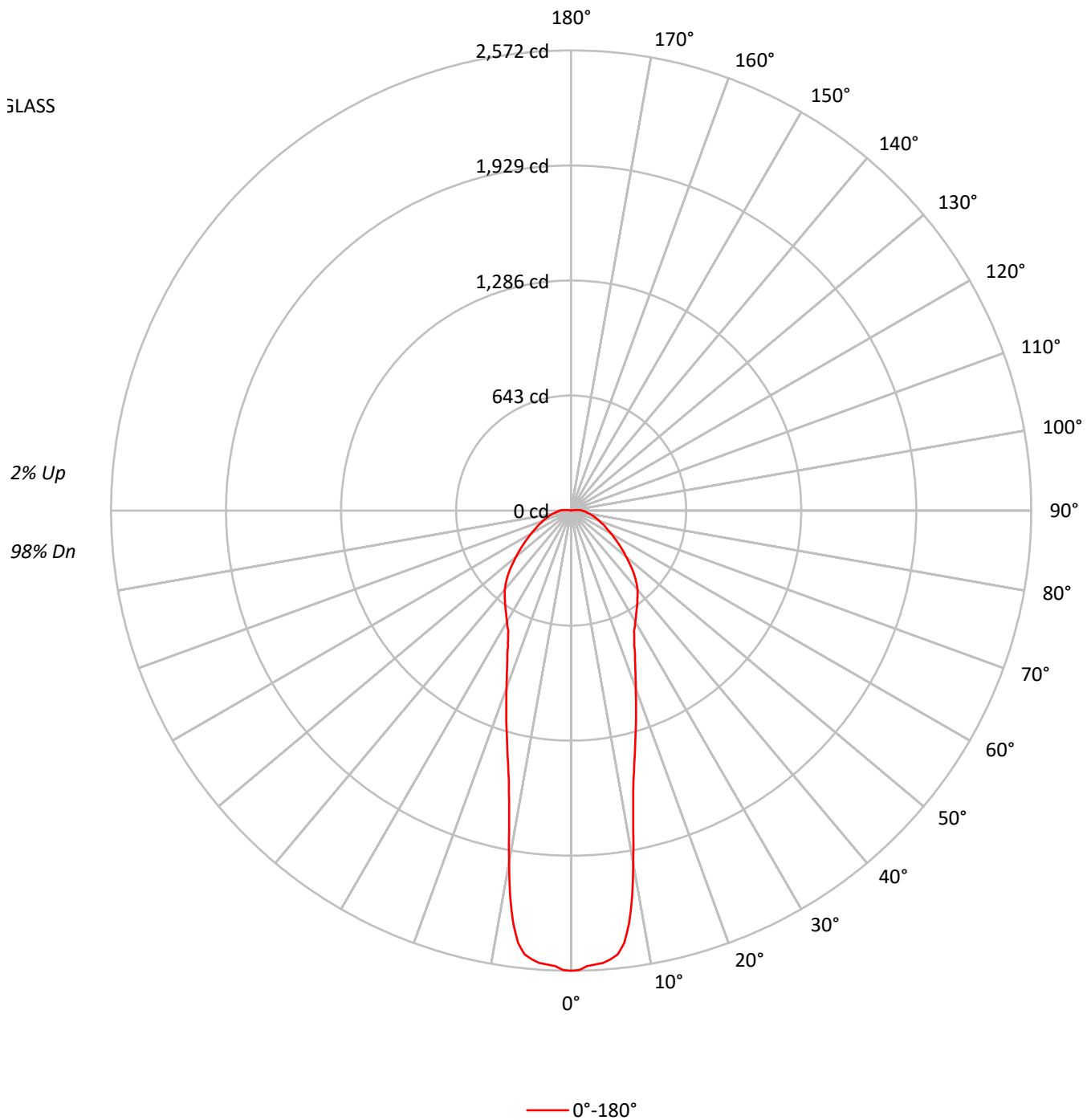
Lumens per Lamp: N/A
Luminaire Lumens: 2562.1 lumens
Efficiency: N/A
Efficacy: 54.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 47
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°	298286
5°	255351
10°	181307
15°	113820
20°	80568
25°	59678
30°	48528
35°	41596
40°	36076
45°	30031
50°	23916
55°	19073
60°	15176
65°	12307
70°	10040
75°	8161
80°	6442
85°	5270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 30031 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	8.8
10°-20°	389.9	15.2
20°-30°	390.5	15.2
30°-40°	402.9	15.7
40°-50°	379.1	14.8
50°-60°	290.7	11.3
60°-70°	207.2	8.1
70°-80°	141.5	5.5
80°-90°	88.5	3.5
90°-100°	42.0	1.6
100°-110°	3.7	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°	1006.5	39.3
0°-40°	1409.4	55.0
0°-60°	2079.2	81.2
0°-90°	2516.3	98.2
90°-120°	45.7	1.8
90°-150°	45.7	1.8
90°-180°	46.0	1.8
0°-180°	2562.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2572	
5°	2519	226
15°	1379	390
25°	836	390
35°	643	403
45°	494	379
55°	323	291
65°	208	207
75°	134	141
85°	81	70
90°	62	34
95°	37	26
105°	0	4
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°	2571.8
1°	2568.7
2°	2547.0
3°	2540.8
4°	2534.6
5°	2519.0
6°	2494.2
7°	2435.2
8°	2329.6
9°	2180.5
10°	2000.3
11°	1817.1
12°	1664.9
13°	1546.8
14°	1456.8
15°	1379.1
16°	1304.6
17°	1239.3
18°	1174.1
19°	1112.0
20°	1056.1
21°	1003.3
22°	956.7
23°	913.2
24°	875.9
25°	835.5
27.5°	761.0
30°	717.5
32.5°	677.1
35°	643.0
37.5°	608.8
40°	577.7
42.5°	537.4
45°	493.9
47.5°	447.3
50°	400.7
52.5°	360.3
55°	323.0
57.5°	288.9
60°	257.8
62.5°	229.9
65°	208.1
67.5°	186.4
70°	167.7
72.5°	149.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	133.6
77.5°	118.0
80°	102.5
82.5°	90.1
85°	80.8
87.5°	71.4
90°	62.1
92.5°	52.8
95°	37.3
97.5°	24.8
100°	15.5
102.5°	6.2
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)