

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: P701753

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701753
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-05-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

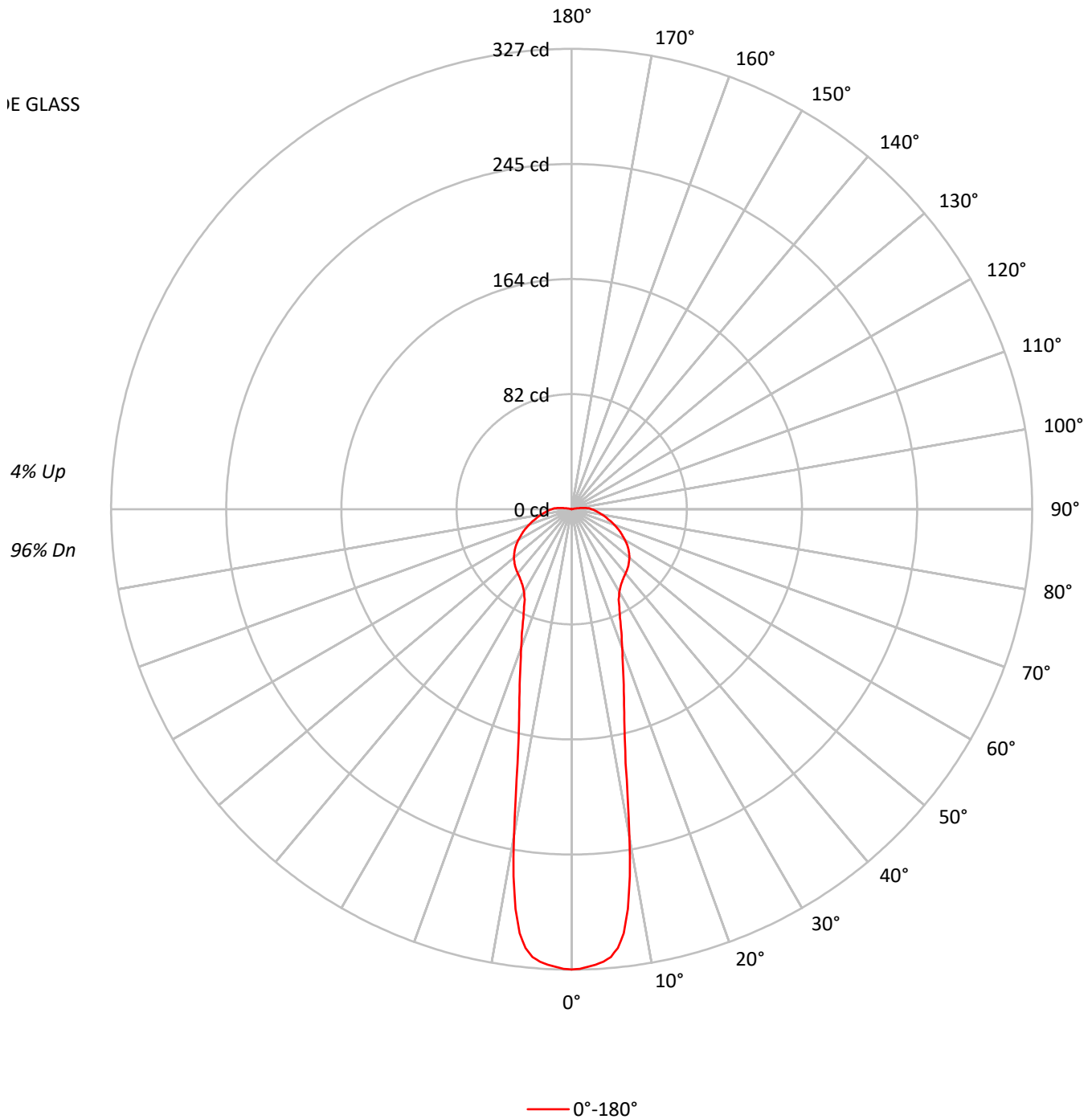
Lumens per Lamp: N/A
Luminaire Lumens: 331.4 lumens
Efficiency: N/A
Efficacy: 46.0 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87		89	86	83		85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72		78	73	69		74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61		69	64	59		66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47		57	51	46		55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42		52	46	41		51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38		49	42	37		47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35		45	39	34		44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32		42	36	32		41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	37915
5°	32357
10°	21409
15°	11868
20°	7995
25°	5750
30°	4572
35°	4043
40°	3716
45°	3460
50°	3193
55°	2905
60°	2573
65°	2253
70°	1922
75°	1619
80°	1370
85°	1174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3460 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	8.5
10°-20°	41.2	12.4
20°-30°	37.7	11.4
30°-40°	39.4	11.9
40°-50°	43.8	13.2
50°-60°	43.8	13.2
60°-70°	37.6	11.3
70°-80°	28.4	8.6
80°-90°	19.6	5.9
90°-100°	10.4	3.1
100°-110°	1.4	0.4
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°	106.9	32.3
0°-40°	146.3	44.2
0°-60°	234.0	70.6
0°-90°	319.6	96.4
90°-120°	11.8	3.6
90°-150°	11.8	3.6
90°-180°	12.0	3.6
0°-180°	331.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	327	
5°	319	28
15°	144	41
25°	80	38
35°	62	39
45°	57	44
55°	49	44
65°	38	38
75°	26	28
85°	18	15
90°	14	8
95°	10	7
105°	1	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°	326.9
1°	326.5
2°	325.2
3°	324.0
4°	322.2
5°	319.2
6°	313.3
7°	303.4
8°	286.7
9°	264.0
10°	236.2
11°	208.0
12°	184.4
13°	167.3
14°	154.1
15°	143.8
16°	134.4
17°	125.8
18°	118.1
19°	110.8
20°	104.8
21°	99.3
22°	94.1
23°	89.0
24°	84.3
25°	80.5
27.5°	72.3
30°	67.6
32.5°	64.6
35°	62.5
37.5°	60.8
40°	59.5
42.5°	58.2
45°	56.9
47.5°	55.2
50°	53.5
52.5°	51.4
55°	49.2
57.5°	46.6
60°	43.7
62.5°	40.7
65°	38.1
67.5°	35.1
70°	32.1
72.5°	29.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	26.5
77.5°	24.4
80°	21.8
82.5°	19.7
85°	18.0
87.5°	16.3
90°	14.1
92.5°	12.8
95°	9.8
97.5°	6.4
100°	3.9
102.5°	2.1
105°	0.9
107.5°	0.4
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)