

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: P702229

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9040-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702229
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-40-D010 / 340-EU4C-3040-9040-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

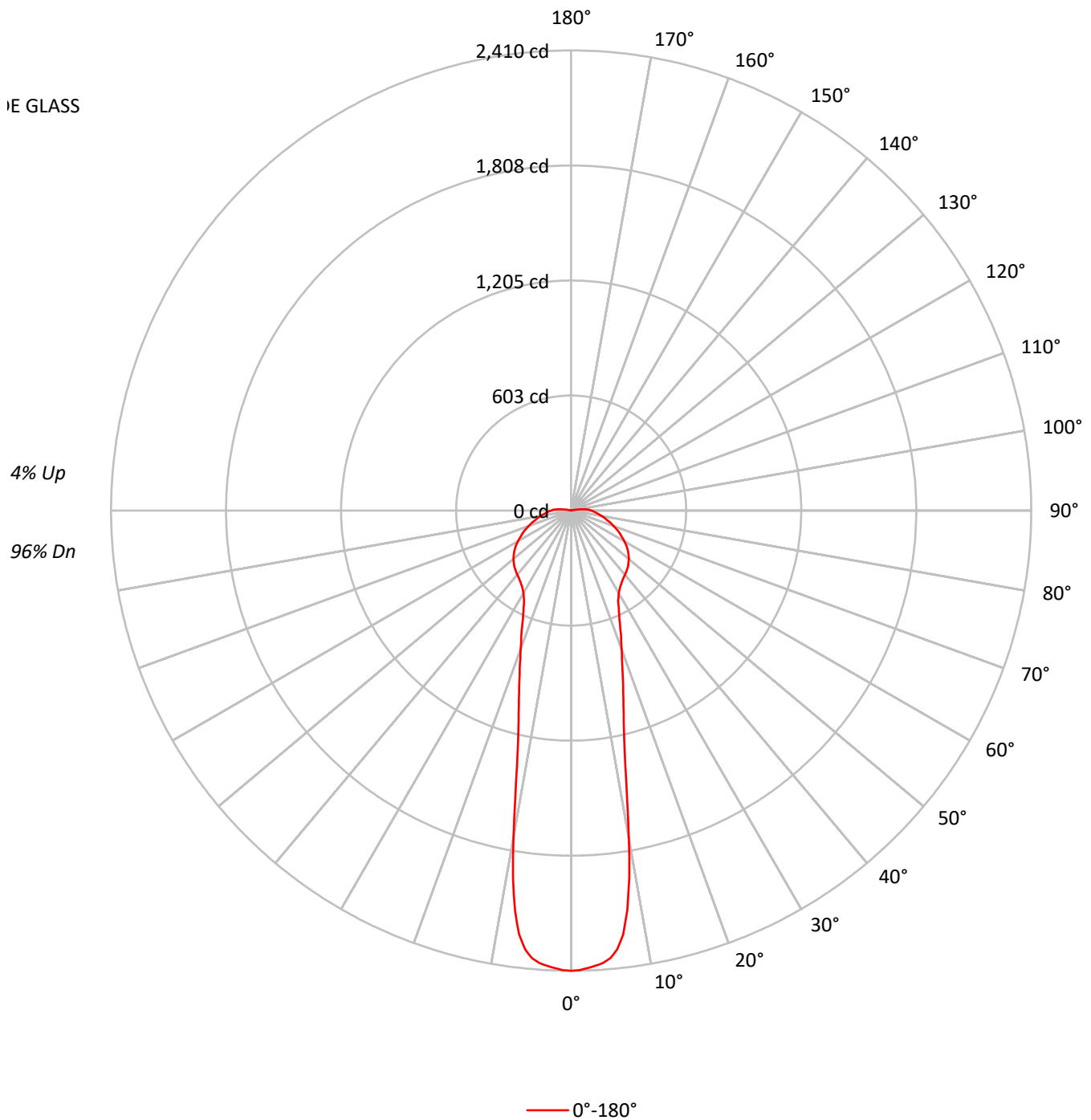
Lumens per Lamp: N/A
Luminaire Lumens: 2443.1 lumens
Efficiency: N/A
Efficacy: 52.0 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	279566
5°	238585
10°	157850
15°	87492
20°	58971
25°	42364
30°	33716
35°	29797
40°	27383
45°	25513
50°	23540
55°	21423
60°	18944
65°	16606
70°	14165
75°	11949
80°	10112
85°	8642

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25513 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.1	8.5
10°-20°	303.6	12.4
20°-30°	277.7	11.4
30°-40°	290.4	11.9
40°-50°	323.3	13.2
50°-60°	323.1	13.2
60°-70°	277.0	11.3
70°-80°	209.1	8.6
80°-90°	144.5	5.9
90°-100°	76.7	3.1
100°-110°	10.5	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°	788.5	32.3
0°-40°	1078.8	44.2
0°-60°	1725.3	70.6
0°-90°	2355.9	96.4
90°-120°	87.2	3.6
90°-150°	87.2	3.6
90°-180°	87.0	3.6
0°-180°	2443.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2410	
5°	2354	207
15°	1060	304
25°	593	278
35°	461	290
45°	420	323
55°	363	323
65°	281	277
75°	196	209
85°	132	114
90°	104	58
95°	73	49
105°	6	11
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°	2410.4
1°	2407.2
2°	2397.8
3°	2388.3
4°	2375.7
5°	2353.6
6°	2309.4
7°	2236.9
8°	2113.8
9°	1946.6
10°	1741.5
11°	1533.3
12°	1359.8
13°	1233.6
14°	1135.8
15°	1060.1
16°	990.7
17°	927.6
18°	870.8
19°	817.1
20°	773.0
21°	732.0
22°	694.1
23°	656.2
24°	621.5
25°	593.1
27.5°	533.2
30°	498.5
32.5°	476.4
35°	460.6
37.5°	448.0
40°	438.5
42.5°	429.1
45°	419.6
47.5°	407.0
50°	394.4
52.5°	378.6
55°	362.8
57.5°	343.9
60°	321.8
62.5°	299.7
65°	280.8
67.5°	258.7
70°	236.6
72.5°	217.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	195.6
77.5°	179.8
80°	160.9
82.5°	145.1
85°	132.5
87.5°	119.9
90°	104.1
92.5°	94.6
95°	72.6
97.5°	47.3
100°	28.4
102.5°	15.8
105°	6.3
107.5°	3.2
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)