

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: P702131

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9727-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702131
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-30-D010 / 340-EU4C-3040-9727-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

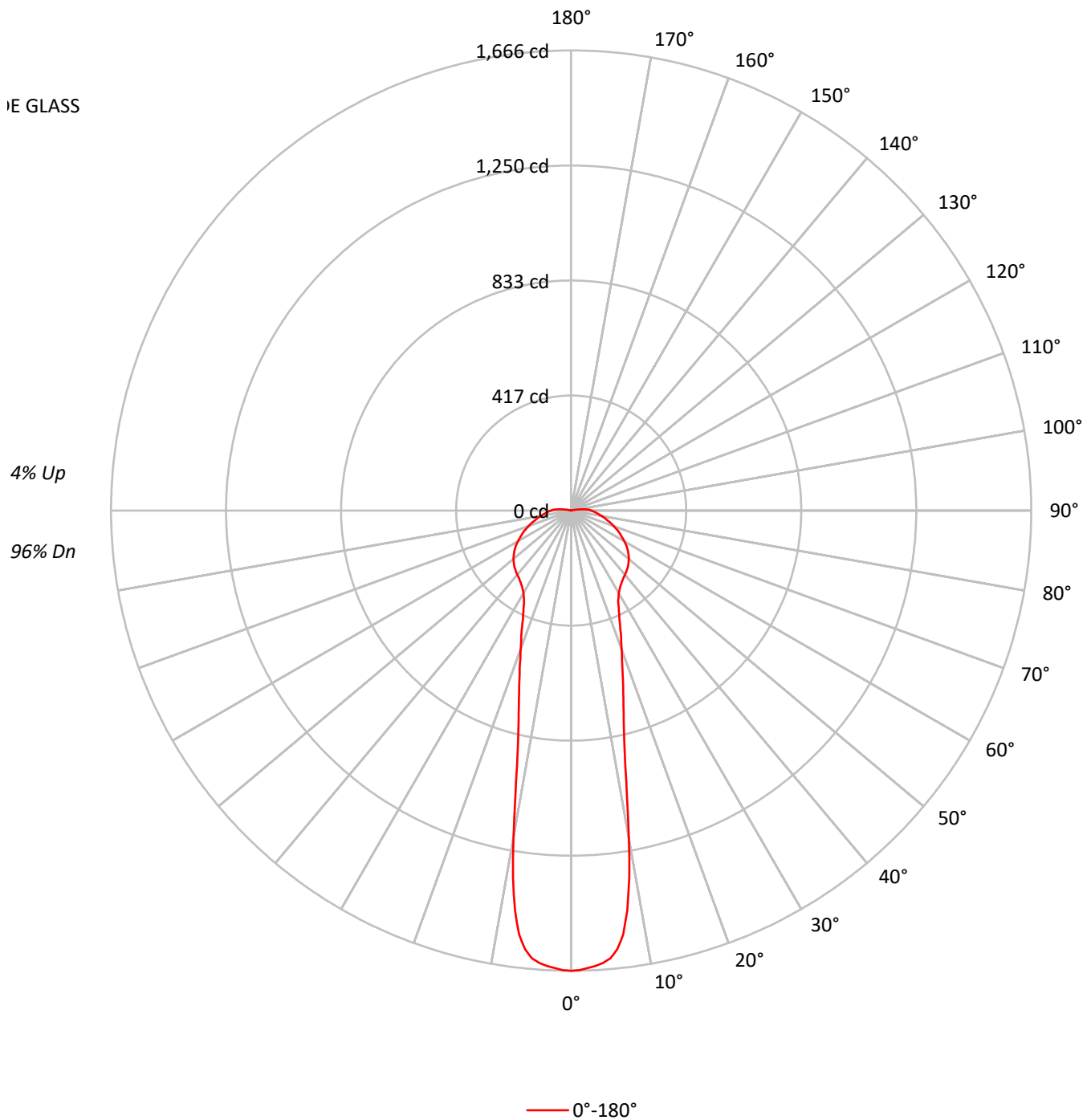
Lumens per Lamp: N/A
Luminaire Lumens: 1689.0 lumens
Efficiency: N/A
Efficacy: 53.4 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
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°	193274
5°	164939
10°	109131
15°	60488
20°	40769
25°	29286
30°	23307
35°	20598
40°	18934
45°	17639
50°	16270
55°	14809
60°	13098
65°	11479
70°	9795
75°	8259
80°	6988
85°	5974

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17639 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	8.5
10°-20°	209.9	12.4
20°-30°	192.0	11.4
30°-40°	200.7	11.9
40°-50°	223.5	13.2
50°-60°	223.4	13.2
60°-70°	191.5	11.3
70°-80°	144.6	8.6
80°-90°	99.9	5.9
90°-100°	53.0	3.1
100°-110°	7.3	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°	545.1	32.3
0°-40°	745.8	44.2
0°-60°	1192.7	70.6
0°-90°	1628.7	96.4
90°-120°	60.3	3.6
90°-150°	60.3	3.6
90°-180°	60.0	3.6
0°-180°	1689.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1666	
5°	1627	143
15°	733	210
25°	410	192
35°	318	201
45°	290	223
55°	251	223
65°	194	192
75°	135	145
85°	92	79
90°	72	40
95°	50	34
105°	4	7
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1666.4
1°	1664.2
2°	1657.6
3°	1651.1
4°	1642.4
5°	1627.1
6°	1596.6
7°	1546.4
8°	1461.3
9°	1345.7
10°	1204.0
11°	1060.0
12°	940.1
13°	852.8
14°	785.2
15°	732.9
16°	684.9
17°	641.2
18°	602.0
19°	564.9
20°	534.4
21°	506.0
22°	479.8
23°	453.7
24°	429.7
25°	410.0
27.5°	368.6
30°	344.6
32.5°	329.3
35°	318.4
37.5°	309.7
40°	303.2
42.5°	296.6
45°	290.1
47.5°	281.4
50°	272.6
52.5°	261.7
55°	250.8
57.5°	237.7
60°	222.5
62.5°	207.2
65°	194.1
67.5°	178.9
70°	163.6
72.5°	150.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	135.2
77.5°	124.3
80°	111.2
82.5°	100.3
85°	91.6
87.5°	82.9
90°	72.0
92.5°	65.4
95°	50.2
97.5°	32.7
100°	19.6
102.5°	10.9
105°	4.4
107.5°	2.2
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)