

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: P702068

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702068
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-25-D010 / 340-EU4C-3040-9050-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

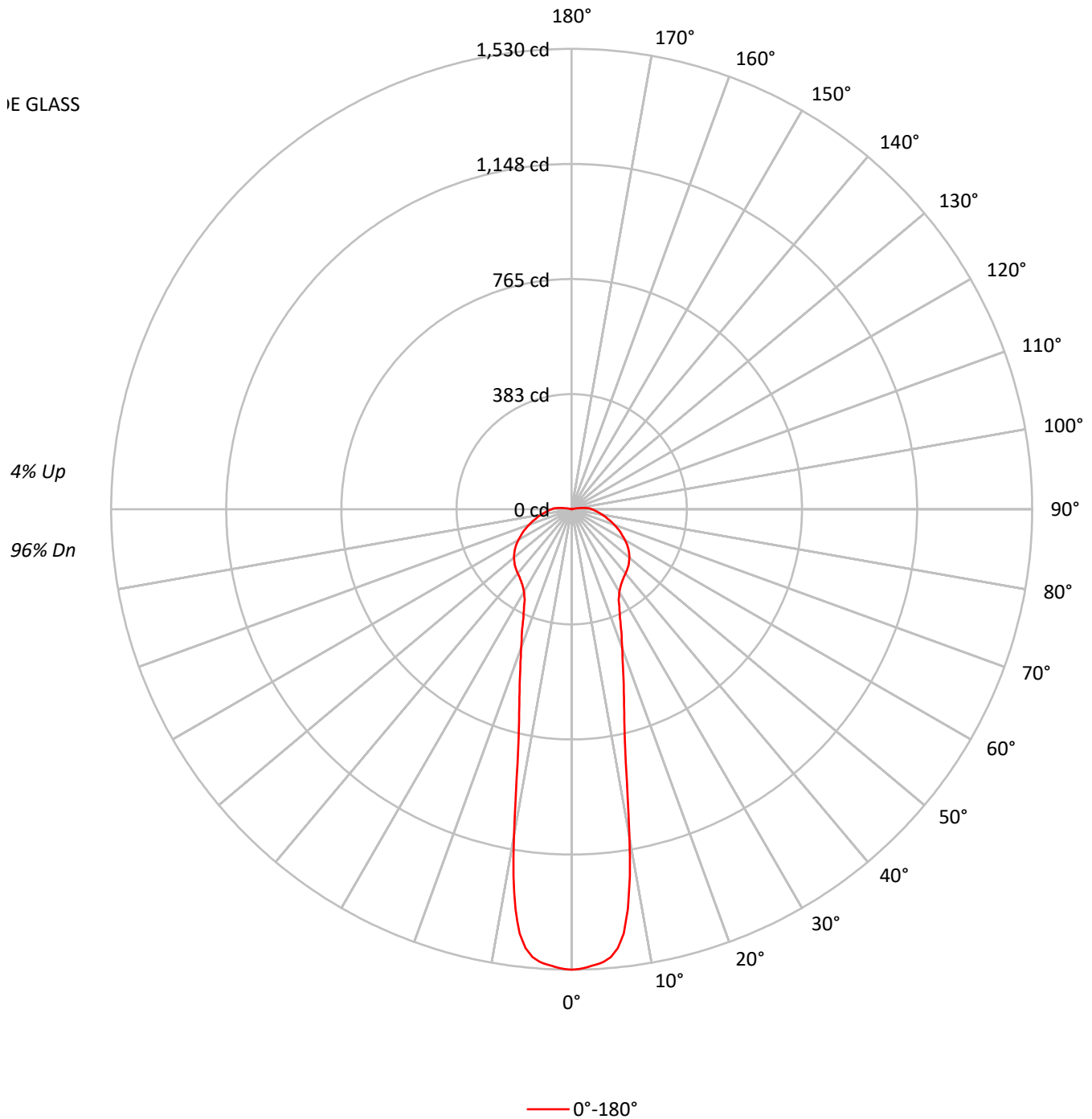
Lumens per Lamp: N/A
Luminaire Lumens: 1550.8 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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°	177454
5°	151447
10°	100203
15°	55536
20°	37427
25°	26893
30°	21400
35°	18916
40°	17386
45°	16198
50°	14939
55°	13599
60°	12027
65°	10538
70°	8992
75°	7587
80°	6417
85°	5485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.5	8.5
10°-20°	192.7	12.4
20°-30°	176.3	11.4
30°-40°	184.3	11.9
40°-50°	205.2	13.2
50°-60°	205.1	13.2
60°-70°	175.8	11.3
70°-80°	132.8	8.6
80°-90°	91.7	5.9
90°-100°	48.7	3.1
100°-110°	6.7	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°	500.5	32.3
0°-40°	684.8	44.2
0°-60°	1095.1	70.6
0°-90°	1495.5	96.4
90°-120°	55.4	3.6
90°-150°	55.4	3.6
90°-180°	55.0	3.5
0°-180°	1550.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1530	
5°	1494	131
15°	673	193
25°	376	176
35°	292	184
45°	266	205
55°	230	205
65°	178	176
75°	124	133
85°	84	72
90°	66	37
95°	46	31
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°	1530.0
1°	1528.0
2°	1522.0
3°	1516.0
4°	1508.0
5°	1494.0
6°	1465.9
7°	1419.9
8°	1341.8
9°	1235.6
10°	1105.5
11°	973.3
12°	863.1
13°	783.0
14°	721.0
15°	672.9
16°	628.8
17°	588.8
18°	552.7
19°	518.7
20°	490.6
21°	464.6
22°	440.6
23°	416.6
24°	394.5
25°	376.5
27.5°	338.4
30°	316.4
32.5°	302.4
35°	292.4
37.5°	284.4
40°	278.4
42.5°	272.4
45°	266.4
47.5°	258.3
50°	250.3
52.5°	240.3
55°	230.3
57.5°	218.3
60°	204.3
62.5°	190.3
65°	178.2
67.5°	164.2
70°	150.2
72.5°	138.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	124.2
77.5°	114.2
80°	102.1
82.5°	92.1
85°	84.1
87.5°	76.1
90°	66.1
92.5°	60.1
95°	46.1
97.5°	30.0
100°	18.0
102.5°	10.0
105°	4.0
107.5°	2.0
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)