

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: P702082

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9730-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702082
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-3040-9730-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

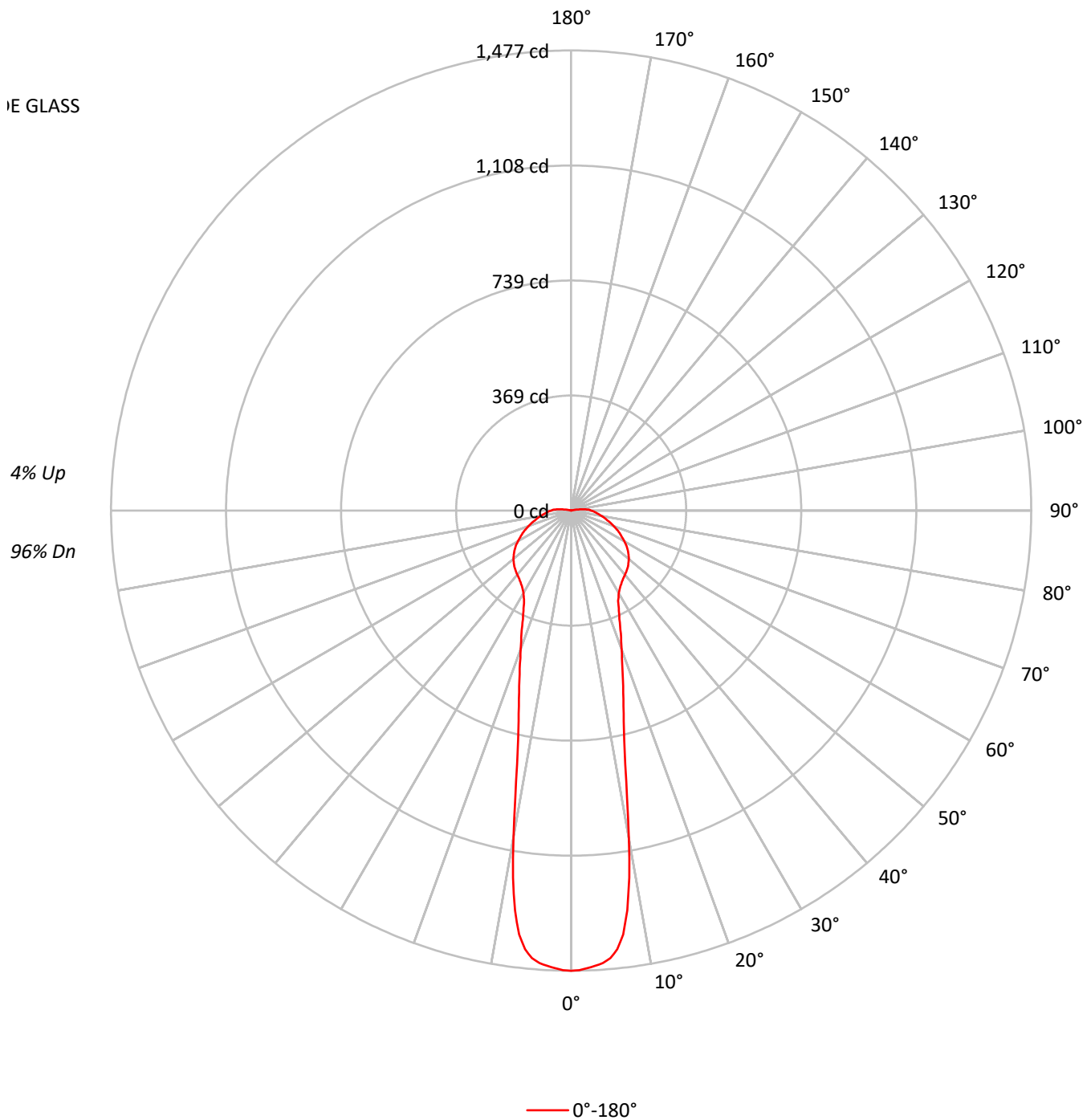
Lumens per Lamp: N/A
Luminaire Lumens: 1497.4 lumens
Efficiency: N/A
Efficacy: 47.5 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	171330
5°	146216
10°	96740
15°	53621
20°	36138
25°	25964
30°	20662
35°	18262
40°	16786
45°	15638
50°	14426
55°	13132
60°	11609
65°	10178
70°	8681
75°	7324
80°	6197
85°	5296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15638 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	8.5
10°-20°	186.1	12.4
20°-30°	170.2	11.4
30°-40°	178.0	11.9
40°-50°	198.1	13.2
50°-60°	198.0	13.2
60°-70°	169.8	11.3
70°-80°	128.2	8.6
80°-90°	88.6	5.9
90°-100°	47.0	3.1
100°-110°	6.5	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°	483.2	32.3
0°-40°	661.2	44.2
0°-60°	1057.4	70.6
0°-90°	1443.9	96.4
90°-120°	53.5	3.6
90°-150°	53.5	3.6
90°-180°	53.0	3.5
0°-180°	1497.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1477	
5°	1442	127
15°	650	186
25°	364	170
35°	282	178
45°	257	198
55°	222	198
65°	172	170
75°	120	128
85°	81	70
90°	64	36
95°	44	30
105°	4	6
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°	1477.2
1°	1475.3
2°	1469.5
3°	1463.7
4°	1456.0
5°	1442.4
6°	1415.4
7°	1370.9
8°	1295.5
9°	1193.0
10°	1067.3
11°	939.7
12°	833.4
13°	756.0
14°	696.1
15°	649.7
16°	607.1
17°	568.5
18°	533.7
19°	500.8
20°	473.7
21°	448.6
22°	425.4
23°	402.2
24°	380.9
25°	363.5
27.5°	326.8
30°	305.5
32.5°	292.0
35°	282.3
37.5°	274.6
40°	268.8
42.5°	263.0
45°	257.2
47.5°	249.4
50°	241.7
52.5°	232.0
55°	222.4
57.5°	210.8
60°	197.2
62.5°	183.7
65°	172.1
67.5°	158.6
70°	145.0
72.5°	133.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	119.9
77.5°	110.2
80°	98.6
82.5°	88.9
85°	81.2
87.5°	73.5
90°	63.8
92.5°	58.0
95°	44.5
97.5°	29.0
100°	17.4
102.5°	9.7
105°	3.9
107.5°	1.9
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)