

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: P702061

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9040-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702061
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-3040-9040-4LBW1LI-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

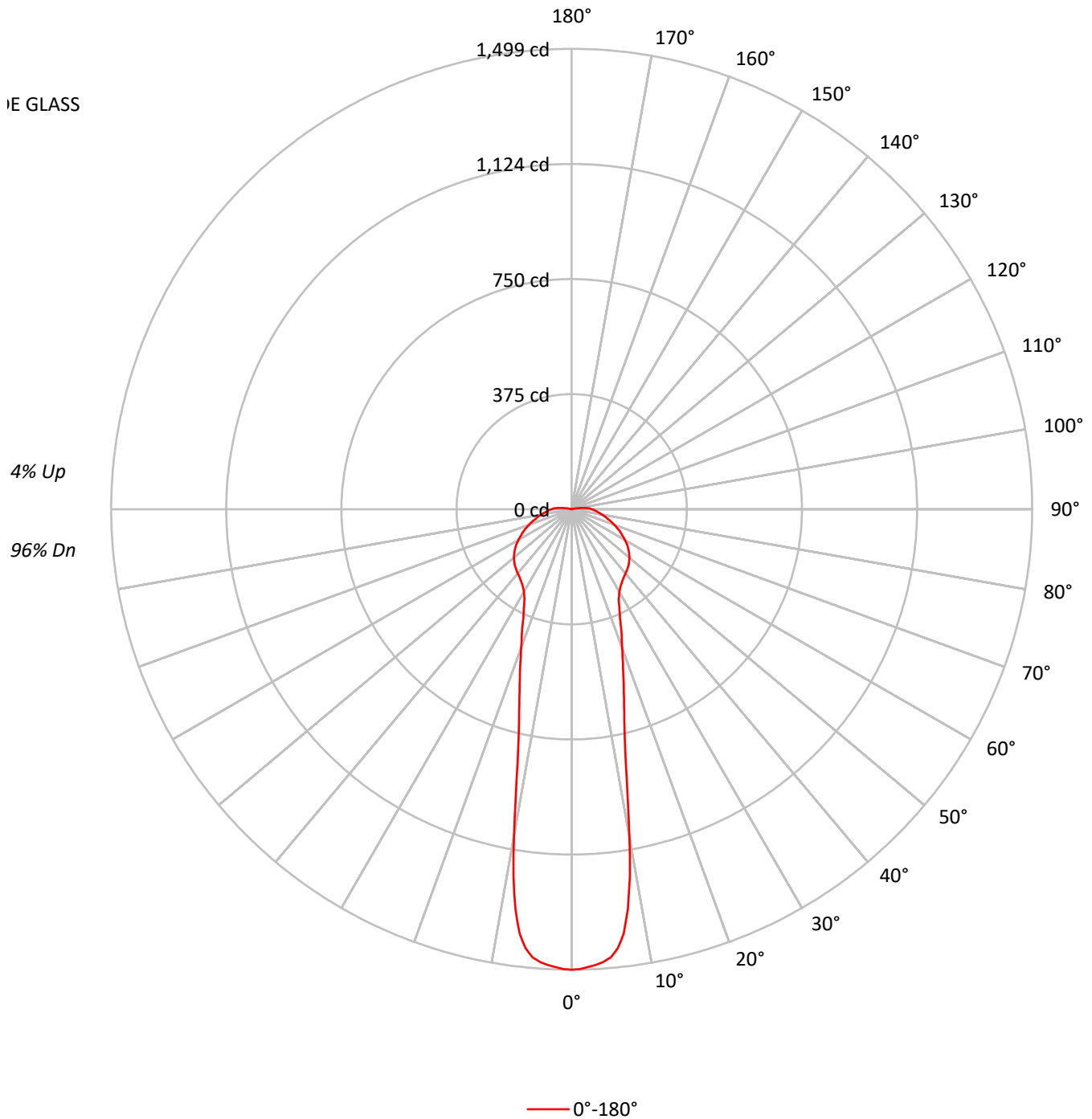
Lumens per Lamp: N/A
Luminaire Lumens: 1519.8 lumens
Efficiency: N/A
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	173905
5°	148416
10°	98190
15°	54422
20°	36679
25°	26357
30°	20973
35°	18534
40°	17036
45°	15870
50°	14641
55°	13327
60°	11785
65°	10331
70°	8813
75°	7434
80°	6291
85°	5374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15870 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	8.5
10°-20°	188.9	12.4
20°-30°	172.8	11.4
30°-40°	180.6	11.9
40°-50°	201.1	13.2
50°-60°	201.0	13.2
60°-70°	172.3	11.3
70°-80°	130.1	8.6
80°-90°	89.9	5.9
90°-100°	47.7	3.1
100°-110°	6.6	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°	490.5	32.3
0°-40°	671.1	44.2
0°-60°	1073.2	70.6
0°-90°	1465.5	96.4
90°-120°	54.3	3.6
90°-150°	54.3	3.6
90°-180°	54.0	3.6
0°-180°	1519.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1499	
5°	1464	129
15°	659	189
25°	369	173
35°	286	181
45°	261	201
55°	226	201
65°	175	172
75°	122	130
85°	82	71
90°	65	36
95°	45	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°	1499.4
1°	1497.4
2°	1491.5
3°	1485.6
4°	1477.8
5°	1464.1
6°	1436.6
7°	1391.4
8°	1314.9
9°	1210.9
10°	1083.3
11°	953.8
12°	845.9
13°	767.4
14°	706.5
15°	659.4
16°	616.2
17°	577.0
18°	541.7
19°	508.3
20°	480.8
21°	455.3
22°	431.8
23°	408.2
24°	386.6
25°	369.0
27.5°	331.7
30°	310.1
32.5°	296.3
35°	286.5
37.5°	278.7
40°	272.8
42.5°	266.9
45°	261.0
47.5°	253.2
50°	245.3
52.5°	235.5
55°	225.7
57.5°	213.9
60°	200.2
62.5°	186.4
65°	174.7
67.5°	160.9
70°	147.2
72.5°	135.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	121.7
77.5°	111.9
80°	100.1
82.5°	90.3
85°	82.4
87.5°	74.6
90°	64.8
92.5°	58.9
95°	45.1
97.5°	29.4
100°	17.7
102.5°	9.8
105°	3.9
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)