

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: P702026

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9730-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702026
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-20-D010 / 340-EU4C-1020-9730-4LBW1LI-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

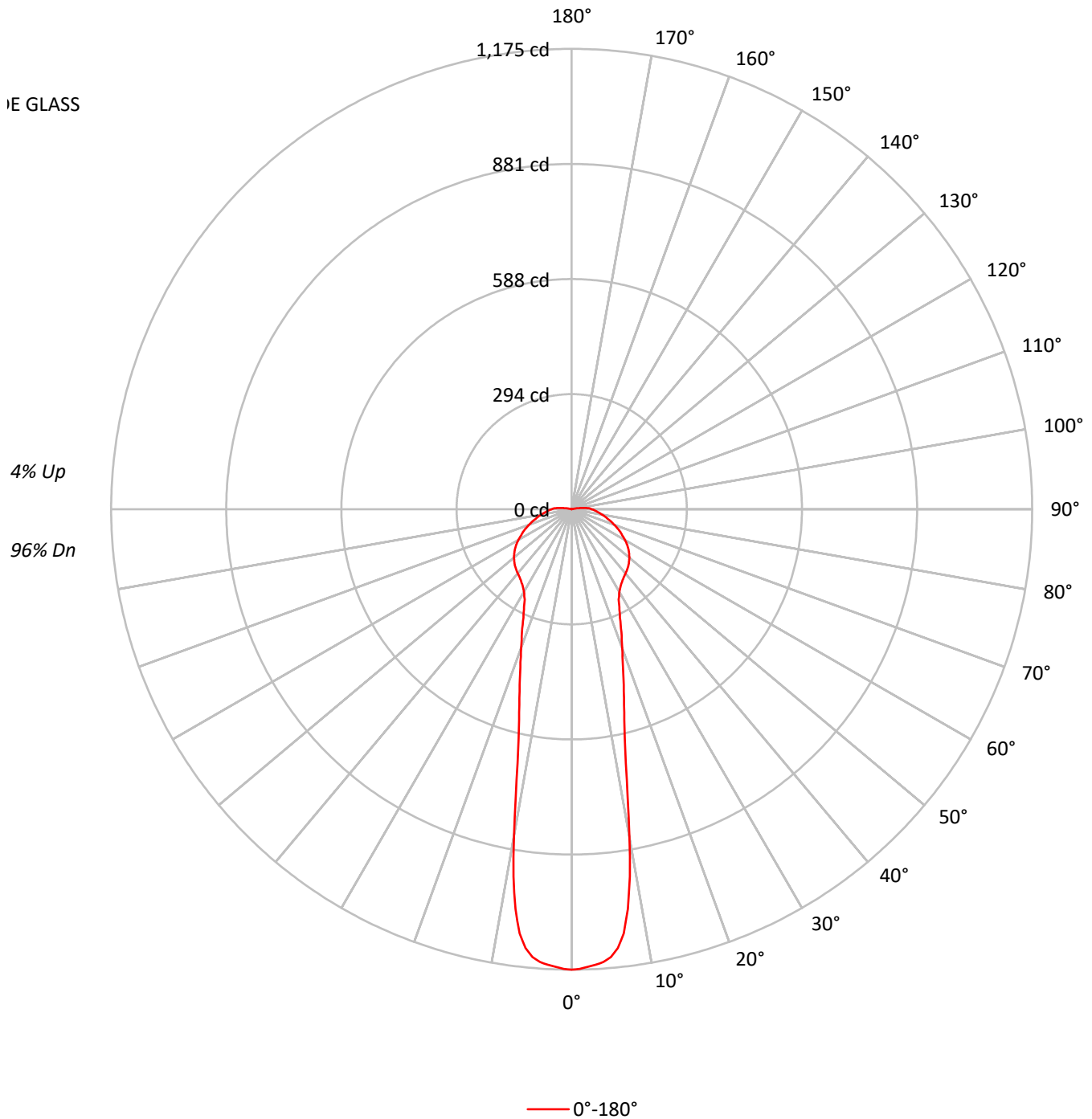
Lumens per Lamp: N/A
Luminaire Lumens: 1190.9 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 21.8
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°	136280
5°	116302
10°	76944
15°	42644
20°	28745
25°	20650
30°	16435
35°	14523
40°	13351
45°	12434
50°	11471
55°	10446
60°	9236
65°	8096
70°	6903
75°	5828
80°	4927
85°	4213

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12434 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	8.5
10°-20°	148.0	12.4
20°-30°	135.4	11.4
30°-40°	141.5	11.9
40°-50°	157.6	13.2
50°-60°	157.5	13.2
60°-70°	135.0	11.3
70°-80°	102.0	8.6
80°-90°	70.4	5.9
90°-100°	37.4	3.1
100°-110°	5.1	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°	384.3	32.3
0°-40°	525.9	44.2
0°-60°	841.0	70.6
0°-90°	1148.4	96.4
90°-120°	42.5	3.6
90°-150°	42.5	3.6
90°-180°	43.0	3.6
0°-180°	1190.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1175	
5°	1147	101
15°	517	148
25°	289	135
35°	224	142
45°	204	158
55°	177	158
65°	137	135
75°	95	102
85°	65	55
90°	51	28
95°	35	24
105°	3	5
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°	1175.0
1°	1173.4
2°	1168.8
3°	1164.2
4°	1158.1
5°	1147.3
6°	1125.8
7°	1090.4
8°	1030.4
9°	948.9
10°	848.9
11°	747.4
12°	662.8
13°	601.3
14°	553.6
15°	516.7
16°	482.9
17°	452.1
18°	424.5
19°	398.3
20°	376.8
21°	356.8
22°	338.3
23°	319.9
24°	303.0
25°	289.1
27.5°	259.9
30°	243.0
32.5°	232.2
35°	224.5
37.5°	218.4
40°	213.8
42.5°	209.2
45°	204.5
47.5°	198.4
50°	192.2
52.5°	184.5
55°	176.9
57.5°	167.6
60°	156.9
62.5°	146.1
65°	136.9
67.5°	126.1
70°	115.3
72.5°	106.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	95.4
77.5°	87.7
80°	78.4
82.5°	70.7
85°	64.6
87.5°	58.4
90°	50.8
92.5°	46.1
95°	35.4
97.5°	23.1
100°	13.8
102.5°	7.7
105°	3.1
107.5°	1.5
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)