

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: P701774

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9035-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701774
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-05-D010 / 340-EU4C-1020-9035-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

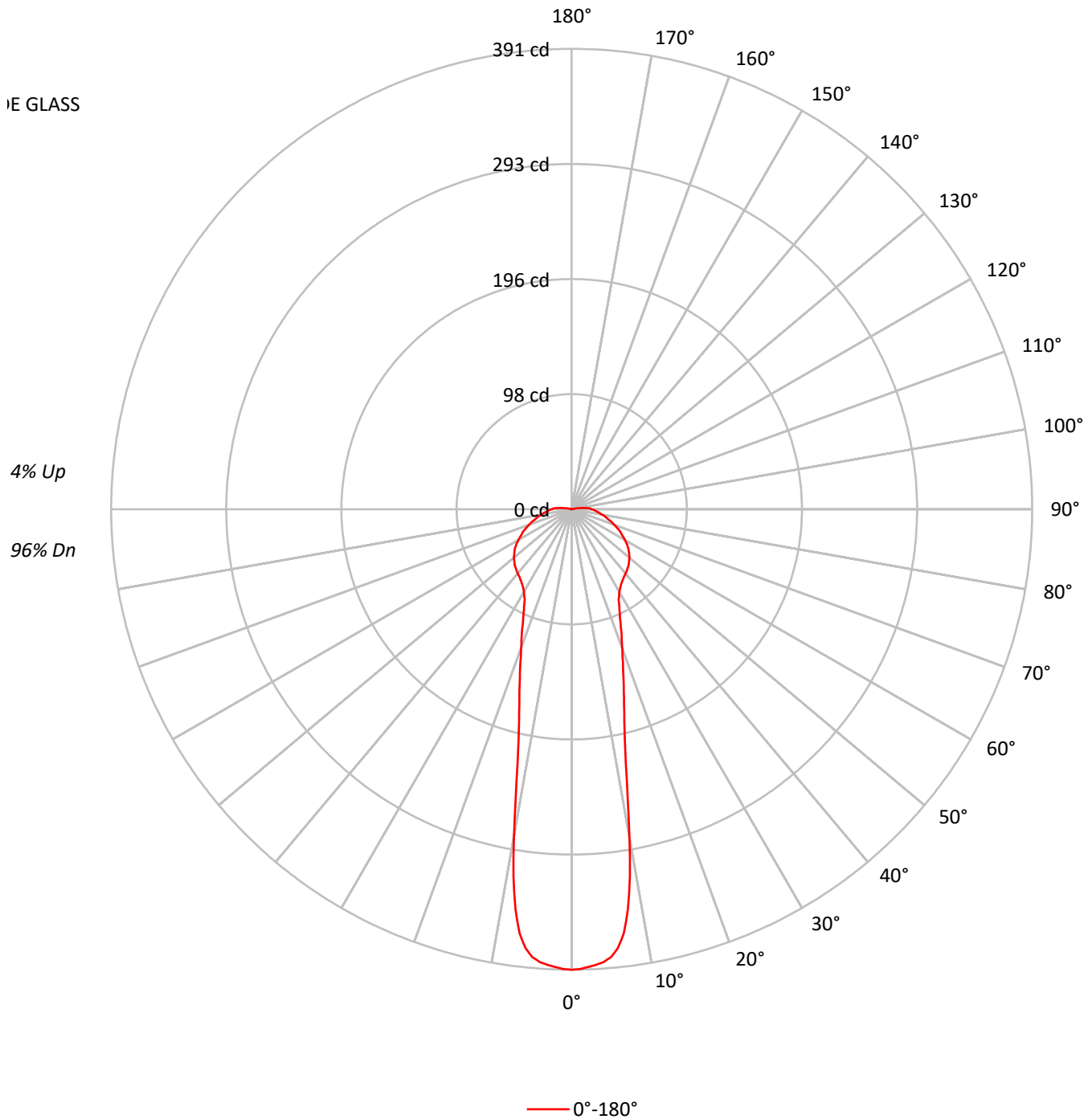
Lumens per Lamp: N/A
Luminaire Lumens: 396.5 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 7.2
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°	45361
5°	38713
10°	25615
15°	14196
20°	9567
25°	6871
30°	5472
35°	4832
40°	4446
45°	4141
50°	3820
55°	3478
60°	3073
65°	2697
70°	2299
75°	1936
80°	1640
85°	1402

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4141 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	8.5
10°-20°	49.3	12.4
20°-30°	45.1	11.4
30°-40°	47.1	11.9
40°-50°	52.5	13.2
50°-60°	52.4	13.2
60°-70°	45.0	11.3
70°-80°	33.9	8.6
80°-90°	23.5	5.9
90°-100°	12.5	3.1
100°-110°	1.7	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°	127.9	32.3
0°-40°	175.1	44.2
0°-60°	279.9	70.6
0°-90°	382.3	96.4
90°-120°	14.2	3.6
90°-150°	14.2	3.6
90°-180°	14.0	3.5
0°-180°	396.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	391	
5°	382	34
15°	172	49
25°	96	45
35°	75	47
45°	68	52
55°	59	52
65°	46	45
75°	32	34
85°	22	18
90°	17	9
95°	12	8
105°	1	2
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°	391.1
1°	390.6
2°	389.1
3°	387.6
4°	385.5
5°	381.9
6°	374.8
7°	363.0
8°	343.0
9°	315.9
10°	282.6
11°	248.8
12°	220.7
13°	200.2
14°	184.3
15°	172.0
16°	160.8
17°	150.5
18°	141.3
19°	132.6
20°	125.4
21°	118.8
22°	112.6
23°	106.5
24°	100.9
25°	96.2
27.5°	86.5
30°	80.9
32.5°	77.3
35°	74.7
37.5°	72.7
40°	71.2
42.5°	69.6
45°	68.1
47.5°	66.0
50°	64.0
52.5°	61.4
55°	58.9
57.5°	55.8
60°	52.2
62.5°	48.6
65°	45.6
67.5°	42.0
70°	38.4
72.5°	35.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	31.7
77.5°	29.2
80°	26.1
82.5°	23.6
85°	21.5
87.5°	19.5
90°	16.9
92.5°	15.4
95°	11.8
97.5°	7.7
100°	4.6
102.5°	2.6
105°	1.0
107.5°	0.5
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)