

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: P701872

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9027-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701872
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-10-D010 / 340-EU4C-1020-9027-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

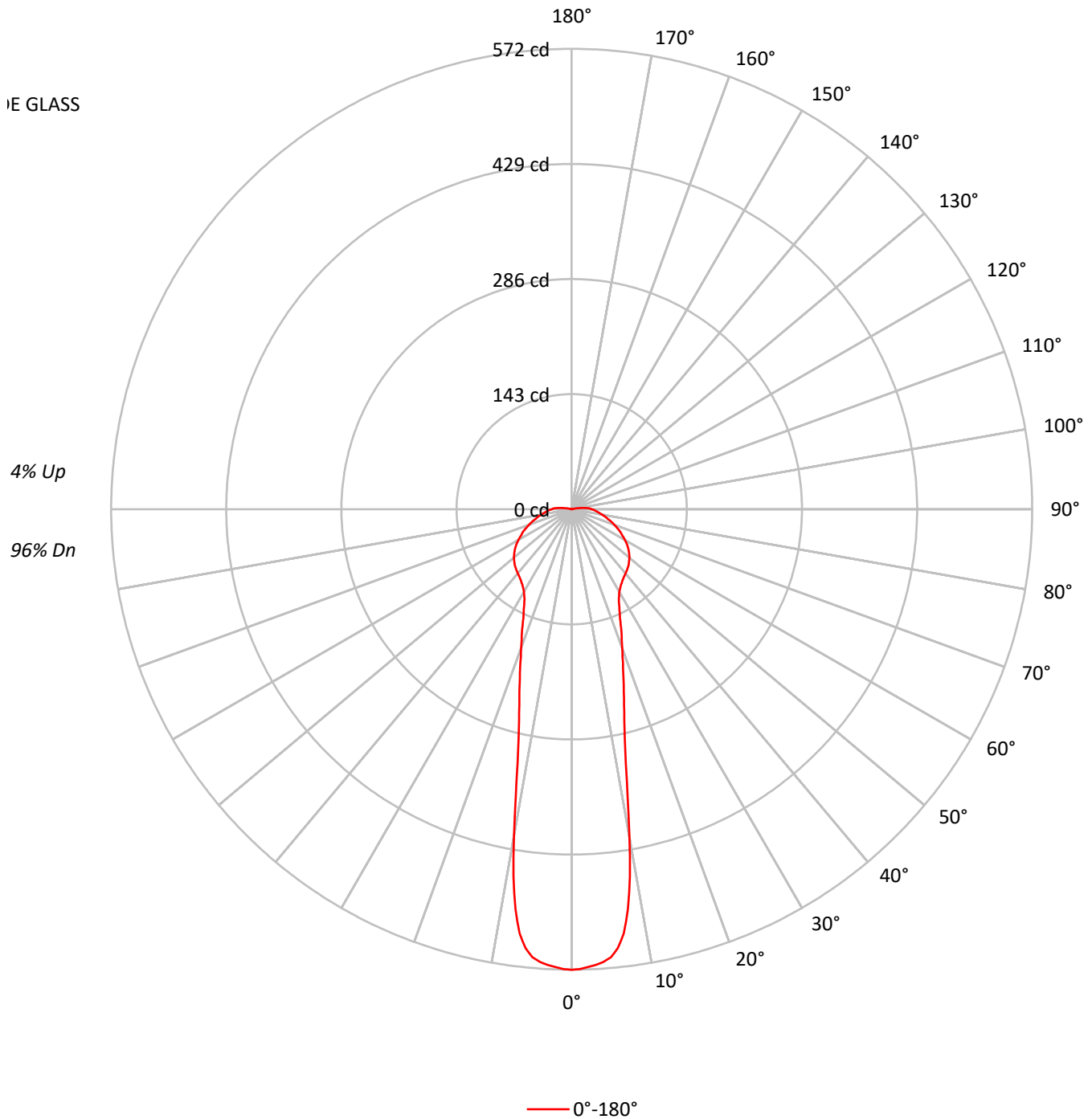
Lumens per Lamp: N/A
Luminaire Lumens: 579.9 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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°	66366
5°	56636
10°	37471
15°	20765
20°	13999
25°	10057
30°	8001
35°	7071
40°	6501
45°	6056
50°	5586
55°	5084
60°	4498
65°	3945
70°	3365
75°	2834
80°	2401
85°	2054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6056 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	8.5
10°-20°	72.1	12.4
20°-30°	65.9	11.4
30°-40°	68.9	11.9
40°-50°	76.7	13.2
50°-60°	76.7	13.2
60°-70°	65.8	11.3
70°-80°	49.7	8.6
80°-90°	34.3	5.9
90°-100°	18.2	3.1
100°-110°	2.5	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°	187.2	32.3
0°-40°	256.1	44.2
0°-60°	409.5	70.6
0°-90°	559.2	96.4
90°-120°	20.7	3.6
90°-150°	20.7	3.6
90°-180°	21.0	3.6
0°-180°	579.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	572	
5°	559	49
15°	252	72
25°	141	66
35°	109	69
45°	100	77
55°	86	77
65°	67	66
75°	46	50
85°	32	27
90°	25	14
95°	17	12
105°	2	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°	572.2
1°	571.4
2°	569.2
3°	566.9
4°	563.9
5°	558.7
6°	548.2
7°	531.0
8°	501.8
9°	462.1
10°	413.4
11°	364.0
12°	322.8
13°	292.8
14°	269.6
15°	251.6
16°	235.2
17°	220.2
18°	206.7
19°	194.0
20°	183.5
21°	173.7
22°	164.8
23°	155.8
24°	147.5
25°	140.8
27.5°	126.6
30°	118.3
32.5°	113.1
35°	109.3
37.5°	106.3
40°	104.1
42.5°	101.8
45°	99.6
47.5°	96.6
50°	93.6
52.5°	89.9
55°	86.1
57.5°	81.6
60°	76.4
62.5°	71.1
65°	66.7
67.5°	61.4
70°	56.2
72.5°	51.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	46.4
77.5°	42.7
80°	38.2
82.5°	34.4
85°	31.5
87.5°	28.5
90°	24.7
92.5°	22.5
95°	17.2
97.5°	11.2
100°	6.7
102.5°	3.7
105°	1.5
107.5°	0.7
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)