

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: P701879

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9030-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701879
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-1020-9030-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

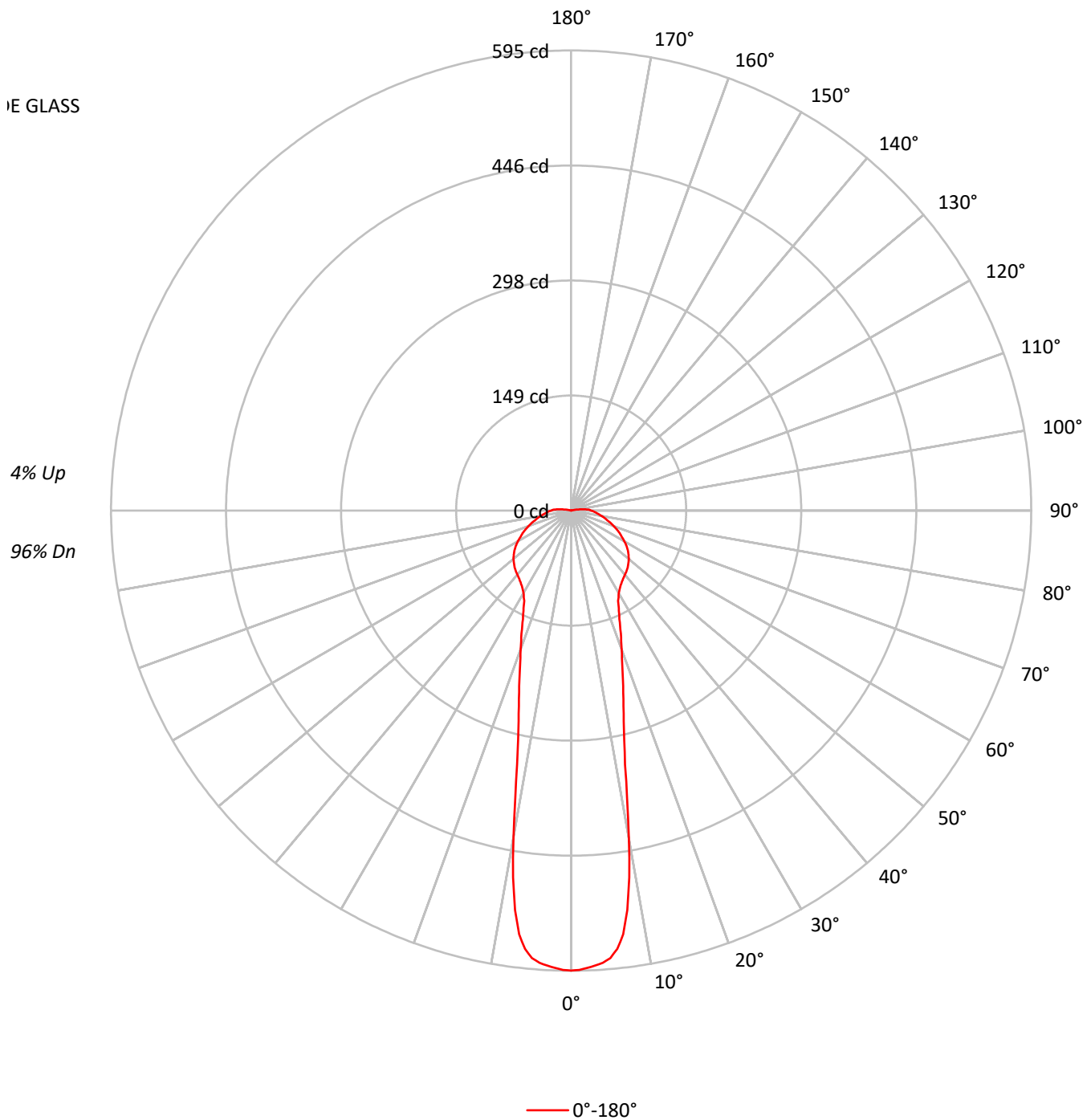
Lumens per Lamp: N/A
Luminaire Lumens: 602.9 lumens
Efficiency: N/A
Efficacy: 61.5 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P701879

CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9030-4LBW1LI-GFF

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°	68987
5°	58876
10°	38948
15°	21590
20°	14548
25°	10457
30°	8319
35°	7355
40°	6757
45°	6293
50°	5807
55°	5285
60°	4674
65°	4098
70°	3496
75°	2951
80°	2495
85°	2133

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6293 cd/sqm

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CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9030-4LBW1LI-GFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	8.5
10°-20°	74.9	12.4
20°-30°	68.5	11.4
30°-40°	71.7	11.9
40°-50°	79.8	13.2
50°-60°	79.7	13.2
60°-70°	68.4	11.3
70°-80°	51.6	8.6
80°-90°	35.7	5.9
90°-100°	18.9	3.1
100°-110°	2.6	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°	194.6	32.3
0°-40°	266.2	44.2
0°-60°	425.7	70.6
0°-90°	581.4	96.4
90°-120°	21.6	3.6
90°-150°	21.6	3.6
90°-180°	22.0	3.6
0°-180°	602.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	595	
5°	581	51
15°	262	75
25°	146	69
35°	114	72
45°	104	80
55°	90	80
65°	69	68
75°	48	52
85°	33	28
90°	26	14
95°	18	12
105°	2	3
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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CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9030-4LBW1LI-GFF

CANDELA DISTRIBUTION (FULL):

0°	
0°	594.8
1°	594.0
2°	591.7
3°	589.3
4°	586.2
5°	580.8
6°	569.9
7°	552.0
8°	521.6
9°	480.3
10°	429.7
11°	378.4
12°	335.5
13°	304.4
14°	280.3
15°	261.6
16°	244.5
17°	228.9
18°	214.9
19°	201.6
20°	190.7
21°	180.6
22°	171.3
23°	161.9
24°	153.4
25°	146.4
27.5°	131.6
30°	123.0
32.5°	117.6
35°	113.7
37.5°	110.6
40°	108.2
42.5°	105.9
45°	103.5
47.5°	100.4
50°	97.3
52.5°	93.4
55°	89.5
57.5°	84.9
60°	79.4
62.5°	74.0
65°	69.3
67.5°	63.8
70°	58.4
72.5°	53.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	48.3
77.5°	44.4
80°	39.7
82.5°	35.8
85°	32.7
87.5°	29.6
90°	25.7
92.5°	23.4
95°	17.9
97.5°	11.7
100°	7.0
102.5°	3.9
105°	1.6
107.5°	0.8
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)