

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: P701942

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701942
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-15-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

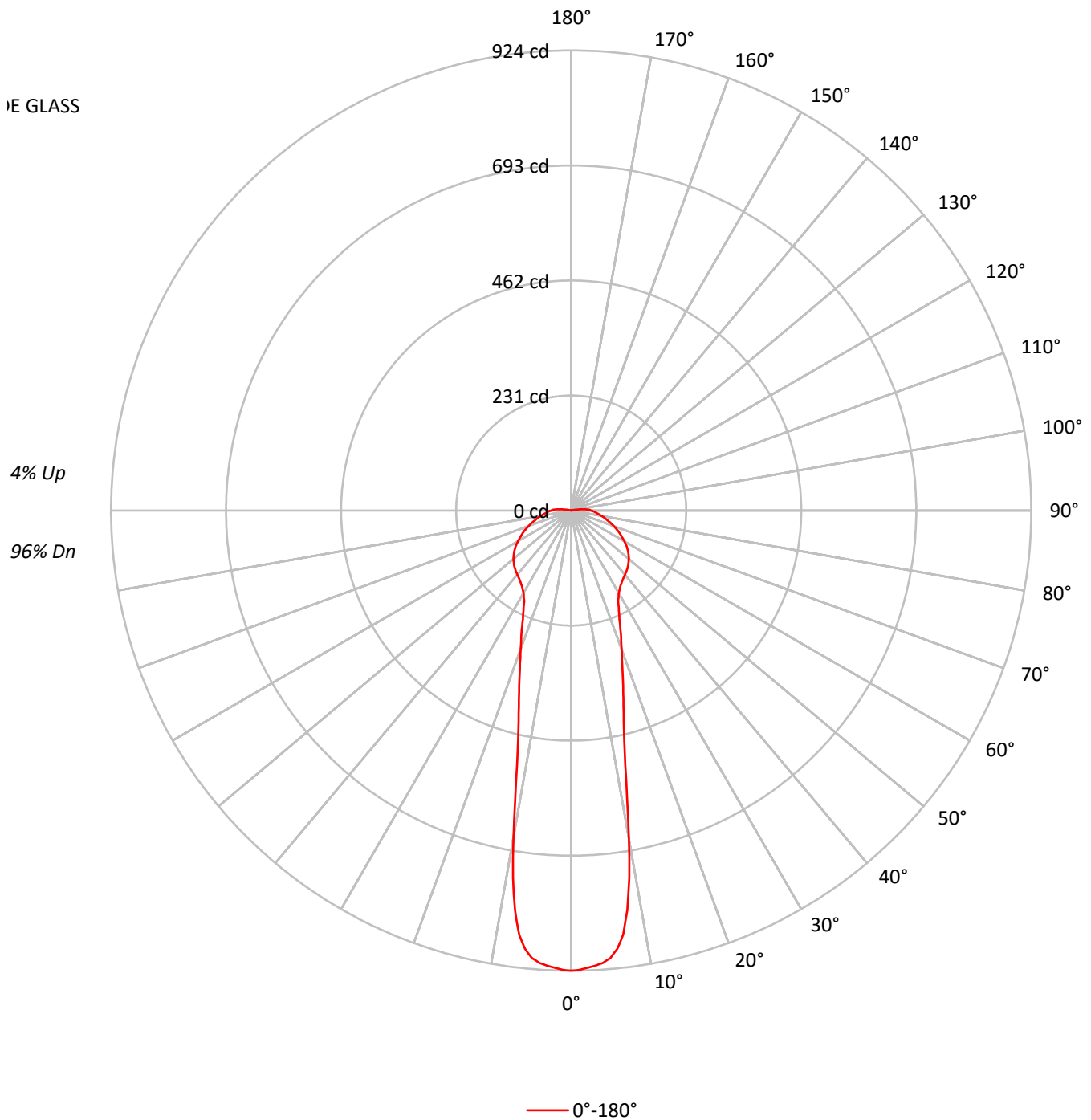
Lumens per Lamp: N/A
Luminaire Lumens: 936.5 lumens
Efficiency: N/A
Efficacy: 59.3 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 15.8
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°	107157
5°	91456
10°	60511
15°	33533
20°	22604
25°	16243
30°	12925
35°	11424
40°	10498
45°	9777
50°	9024
55°	8214
60°	7264
65°	6363
70°	5430
75°	4582
80°	3878
85°	3313

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9777 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.4	8.5
10°-20°	116.4	12.4
20°-30°	106.5	11.4
30°-40°	111.3	11.9
40°-50°	123.9	13.2
50°-60°	123.9	13.2
60°-70°	106.2	11.3
70°-80°	80.2	8.6
80°-90°	55.4	5.9
90°-100°	29.4	3.1
100°-110°	4.0	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°	302.2	32.3
0°-40°	413.5	44.2
0°-60°	661.3	70.6
0°-90°	903.1	96.4
90°-120°	33.4	3.6
90°-150°	33.4	3.6
90°-180°	33.0	3.5
0°-180°	936.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	924	
5°	902	79
15°	406	116
25°	227	106
35°	177	111
45°	161	124
55°	139	124
65°	108	106
75°	75	80
85°	51	44
90°	40	22
95°	28	19
105°	2	4
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°	923.9
1°	922.7
2°	919.1
3°	915.5
4°	910.6
5°	902.2
6°	885.2
7°	857.4
8°	810.3
9°	746.2
10°	667.6
11°	587.7
12°	521.2
13°	472.9
14°	435.4
15°	406.3
16°	379.7
17°	355.5
18°	333.8
19°	313.2
20°	296.3
21°	280.6
22°	266.1
23°	251.5
24°	238.2
25°	227.4
27.5°	204.4
30°	191.1
32.5°	182.6
35°	176.6
37.5°	171.7
40°	168.1
42.5°	164.5
45°	160.8
47.5°	156.0
50°	151.2
52.5°	145.1
55°	139.1
57.5°	131.8
60°	123.4
62.5°	114.9
65°	107.6
67.5°	99.2
70°	90.7
72.5°	83.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	75.0
77.5°	68.9
80°	61.7
82.5°	55.6
85°	50.8
87.5°	46.0
90°	39.9
92.5°	36.3
95°	27.8
97.5°	18.1
100°	10.9
102.5°	6.0
105°	2.4
107.5°	1.2
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)