

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: P701788

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701788
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-1020-9050-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

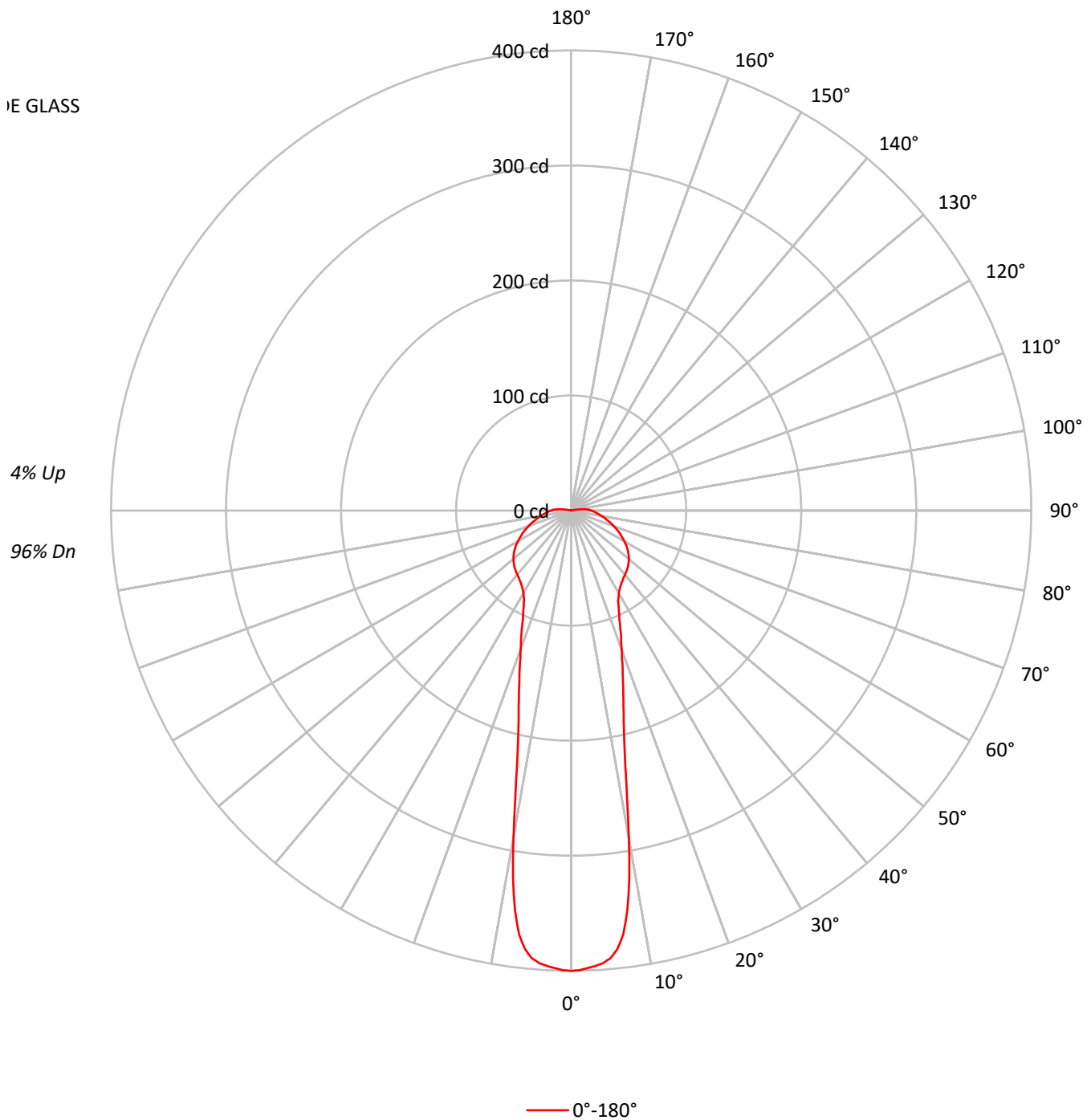
Lumens per Lamp: N/A
Luminaire Lumens: 405.6 lumens
Efficiency: N/A
Efficacy: 56.3 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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°	46416
5°	39605
10°	26204
15°	14526
20°	9788
25°	7036
30°	5600
35°	4949
40°	4546
45°	4238
50°	3909
55°	3555
60°	3144
65°	2756
70°	2353
75°	1985
80°	1678
85°	1435

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4238 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	8.5
10°-20°	50.4	12.4
20°-30°	46.1	11.4
30°-40°	48.2	11.9
40°-50°	53.7	13.2
50°-60°	53.6	13.2
60°-70°	46.0	11.3
70°-80°	34.7	8.6
80°-90°	24.0	5.9
90°-100°	12.7	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°	130.9	32.3
0°-40°	179.1	44.2
0°-60°	286.4	70.6
0°-90°	391.2	96.4
90°-120°	14.5	3.6
90°-150°	14.5	3.6
90°-180°	14.0	3.5
0°-180°	405.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	400	
5°	391	34
15°	176	50
25°	98	46
35°	76	48
45°	70	54
55°	60	54
65°	47	46
75°	32	35
85°	22	19
90°	17	10
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°	400.2
1°	399.6
2°	398.1
3°	396.5
4°	394.4
5°	390.7
6°	383.4
7°	371.3
8°	350.9
9°	323.2
10°	289.1
11°	254.5
12°	225.7
13°	204.8
14°	188.6
15°	176.0
16°	164.5
17°	154.0
18°	144.6
19°	135.7
20°	128.3
21°	121.5
22°	115.2
23°	108.9
24°	103.2
25°	98.5
27.5°	88.5
30°	82.8
32.5°	79.1
35°	76.5
37.5°	74.4
40°	72.8
42.5°	71.2
45°	69.7
47.5°	67.6
50°	65.5
52.5°	62.9
55°	60.2
57.5°	57.1
60°	53.4
62.5°	49.8
65°	46.6
67.5°	42.9
70°	39.3
72.5°	36.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	32.5
77.5°	29.9
80°	26.7
82.5°	24.1
85°	22.0
87.5°	19.9
90°	17.3
92.5°	15.7
95°	12.0
97.5°	7.9
100°	4.7
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)