

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: P701830

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701830
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-08-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

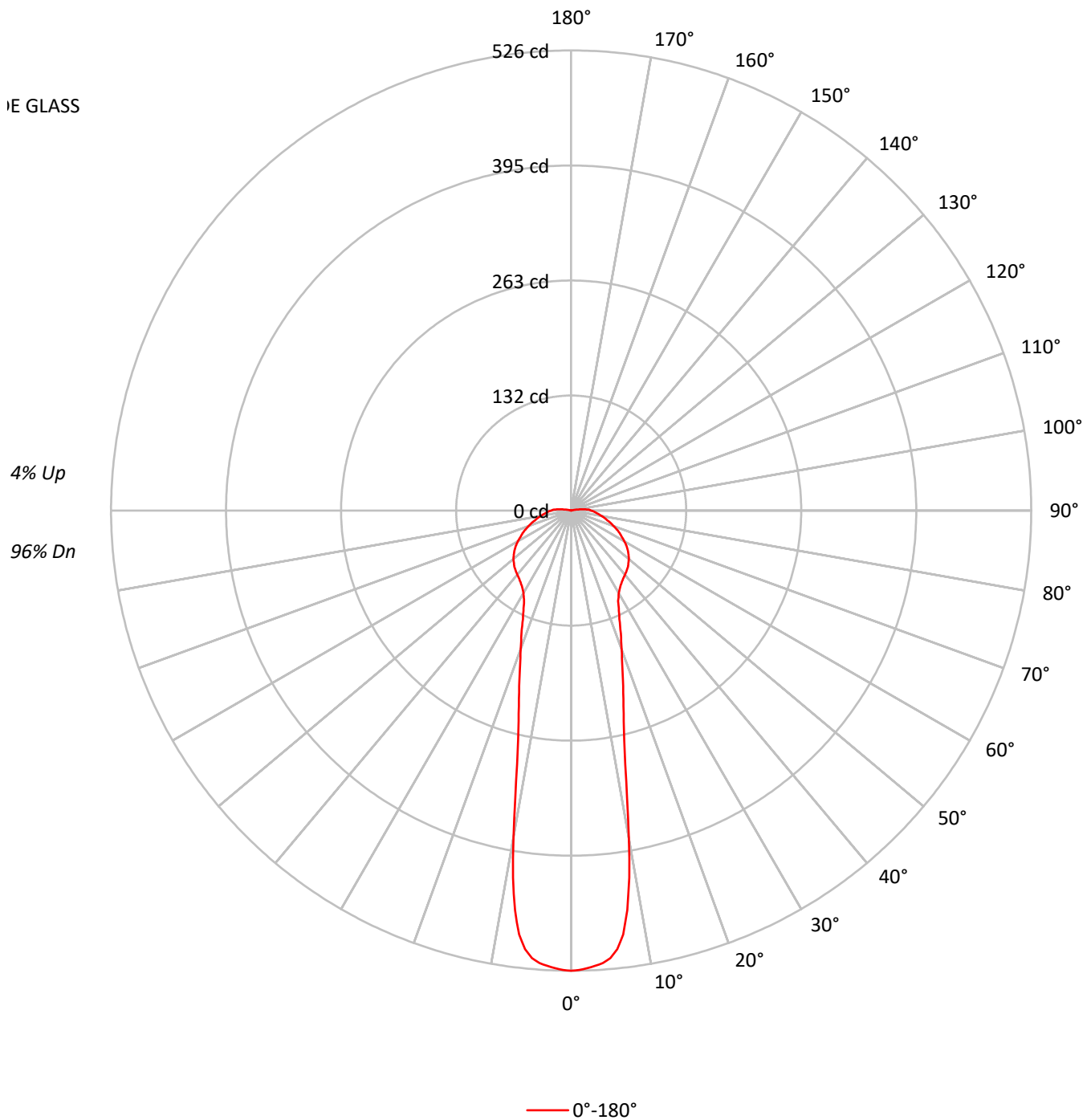
Lumens per Lamp: N/A
Luminaire Lumens: 533.2 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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°	61007
5°	52064
10°	34452
15°	19090
20°	12870
25°	9243
30°	7359
35°	6501
40°	5976
45°	5570
50°	5139
55°	4677
60°	4133
65°	3625
70°	3089
75°	2608
80°	2206
85°	1885

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5570 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.2	8.5
10°-20°	66.3	12.4
20°-30°	60.6	11.4
30°-40°	63.4	11.9
40°-50°	70.5	13.2
50°-60°	70.5	13.2
60°-70°	60.5	11.3
70°-80°	45.6	8.6
80°-90°	31.5	5.9
90°-100°	16.7	3.1
100°-110°	2.3	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°	172.1	32.3
0°-40°	235.4	44.2
0°-60°	376.5	70.6
0°-90°	514.1	96.4
90°-120°	19.0	3.6
90°-150°	19.0	3.6
90°-180°	19.0	3.6
0°-180°	533.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	526	
5°	514	45
15°	231	66
25°	129	61
35°	100	63
45°	92	71
55°	79	71
65°	61	60
75°	43	46
85°	29	25
90°	23	13
95°	16	11
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	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	526.0
1°	525.3
2°	523.3
3°	521.2
4°	518.5
5°	513.6
6°	504.0
7°	488.2
8°	461.3
9°	424.8
10°	380.1
11°	334.6
12°	296.8
13°	269.2
14°	247.9
15°	231.3
16°	216.2
17°	202.4
18°	190.0
19°	178.3
20°	168.7
21°	159.7
22°	151.5
23°	143.2
24°	135.6
25°	129.4
27.5°	116.4
30°	108.8
32.5°	104.0
35°	100.5
37.5°	97.8
40°	95.7
42.5°	93.6
45°	91.6
47.5°	88.8
50°	86.1
52.5°	82.6
55°	79.2
57.5°	75.0
60°	70.2
62.5°	65.4
65°	61.3
67.5°	56.5
70°	51.6
72.5°	47.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	42.7
77.5°	39.2
80°	35.1
82.5°	31.7
85°	28.9
87.5°	26.2
90°	22.7
92.5°	20.7
95°	15.8
97.5°	10.3
100°	6.2
102.5°	3.4
105°	1.4
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)