

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: P701823

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9030-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701823
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-1020-9030-4LBW1LI-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

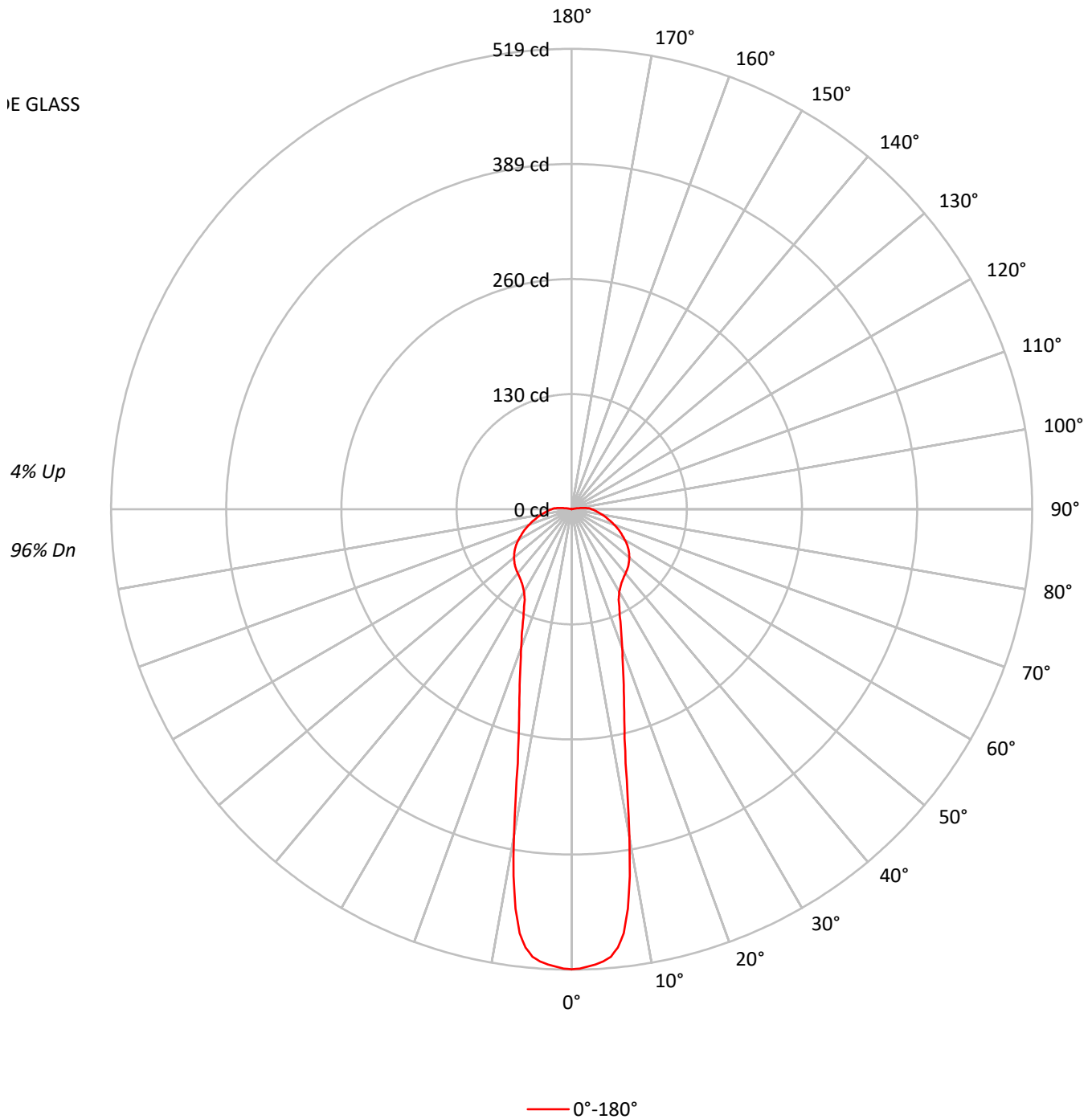
Lumens per Lamp: N/A
Luminaire Lumens: 525.7 lumens
Efficiency: N/A
Efficacy: 53.1 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	60149
5°	51334
10°	33963
15°	18826
20°	12687
25°	9114
30°	7250
35°	6411
40°	5895
45°	5490
50°	5061
55°	4612
60°	4074
65°	3572
70°	3047
75°	2572
80°	2174
85°	1859

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5490 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	8.5
10°-20°	65.3	12.4
20°-30°	59.7	11.4
30°-40°	62.5	11.9
40°-50°	69.6	13.2
50°-60°	69.5	13.2
60°-70°	59.6	11.3
70°-80°	45.0	8.6
80°-90°	31.1	5.9
90°-100°	16.5	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°	169.6	32.3
0°-40°	232.1	44.2
0°-60°	371.2	70.6
0°-90°	506.9	96.4
90°-120°	18.8	3.6
90°-150°	18.8	3.6
90°-180°	19.0	3.6
0°-180°	525.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	519	
5°	506	45
15°	228	65
25°	128	60
35°	99	62
45°	90	70
55°	78	70
65°	60	60
75°	42	45
85°	28	24
90°	22	12
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	518.6
1°	517.9
2°	515.9
3°	513.8
4°	511.1
5°	506.4
6°	496.9
7°	481.3
8°	454.8
9°	418.8
10°	374.7
11°	329.9
12°	292.6
13°	265.4
14°	244.4
15°	228.1
16°	213.1
17°	199.6
18°	187.3
19°	175.8
20°	166.3
21°	157.5
22°	149.3
23°	141.2
24°	133.7
25°	127.6
27.5°	114.7
30°	107.2
32.5°	102.5
35°	99.1
37.5°	96.4
40°	94.4
42.5°	92.3
45°	90.3
47.5°	87.6
50°	84.8
52.5°	81.5
55°	78.1
57.5°	74.0
60°	69.2
62.5°	64.5
65°	60.4
67.5°	55.7
70°	50.9
72.5°	46.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	42.1
77.5°	38.7
80°	34.6
82.5°	31.2
85°	28.5
87.5°	25.8
90°	22.4
92.5°	20.4
95°	15.6
97.5°	10.2
100°	6.1
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)