

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: P702046

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9030-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702046
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-7)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-25-D010 / 340-EU4C-3040-9030-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

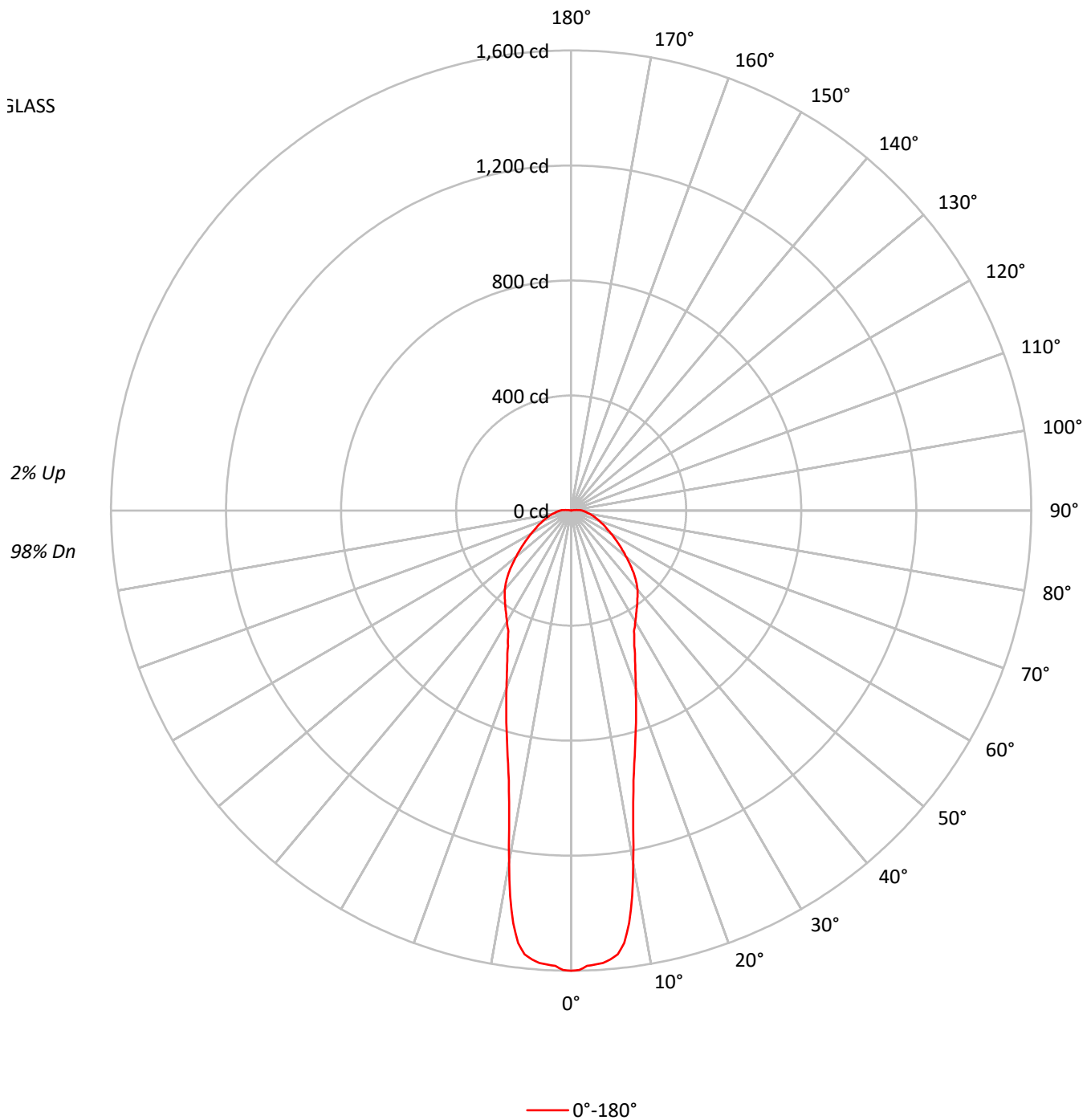
Lumens per Lamp: N/A
Luminaire Lumens: 1593.8 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92		93	91	89		89	87	86	83
2	100	93	87	81	98	91	85	80	87	82	78		84	80	76		80	77	74	72
3	93	83	76	70	90	82	75	69	78	73	68		75	71	66		73	69	65	63
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		66	62	58	56
5	80	69	60	54	78	67	60	54	65	58	53		63	57	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	48		57	51	47	45
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	54	46	41	65	53	46	41	52	45	40		50	44	40		49	44	40	38
9	62	50	43	38	61	50	43	38	48	42	37		47	41	37		46	41	37	35
10	59	47	40	35	58	47	40	35	45	39	35		44	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	185561
5°	158847
10°	112792
15°	70804
20°	50122
25°	37129
30°	30185
35°	25876
40°	22444
45°	18679
50°	14879
55°	11869
60°	9442
65°	7658
70°	6244
75°	5076
80°	4010
85°	3274

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18679 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	8.8
10°-20°	242.5	15.2
20°-30°	242.9	15.2
30°-40°	250.7	15.7
40°-50°	235.8	14.8
50°-60°	180.8	11.3
60°-70°	128.9	8.1
70°-80°	88.0	5.5
80°-90°	55.0	3.5
90°-100°	26.1	1.6
100°-110°	2.3	0.1
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°	626.1	39.3
0°-40°	876.8	55.0
0°-60°	1293.4	81.2
0°-90°	1565.3	98.2
90°-120°	28.5	1.8
90°-150°	28.5	1.8
90°-180°	28.0	1.8
0°-180°	1593.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1600	
5°	1567	141
15°	858	243
25°	520	243
35°	400	251
45°	307	236
55°	201	181
65°	130	129
75°	83	88
85°	50	44
90°	39	21
95°	23	16
105°	0	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°	1599.9
1°	1598.0
2°	1584.4
3°	1580.6
4°	1576.7
5°	1567.0
6°	1551.6
7°	1514.9
8°	1449.2
9°	1356.4
10°	1244.4
11°	1130.4
12°	1035.7
13°	962.3
14°	906.2
15°	857.9
16°	811.5
17°	771.0
18°	730.4
19°	691.7
20°	657.0
21°	624.1
22°	595.1
23°	568.1
24°	544.9
25°	519.8
27.5°	473.4
30°	446.3
32.5°	421.2
35°	400.0
37.5°	378.7
40°	359.4
42.5°	334.3
45°	307.2
47.5°	278.2
50°	249.3
52.5°	224.1
55°	201.0
57.5°	179.7
60°	160.4
62.5°	143.0
65°	129.5
67.5°	115.9
70°	104.3
72.5°	92.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	83.1
77.5°	73.4
80°	63.8
82.5°	56.0
85°	50.2
87.5°	44.4
90°	38.6
92.5°	32.8
95°	23.2
97.5°	15.5
100°	9.7
102.5°	3.9
105°	0.0
107.5°	0.0
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)