

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: P701948

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701948
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-15-D010 / 340-EU4C-1020-9040-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

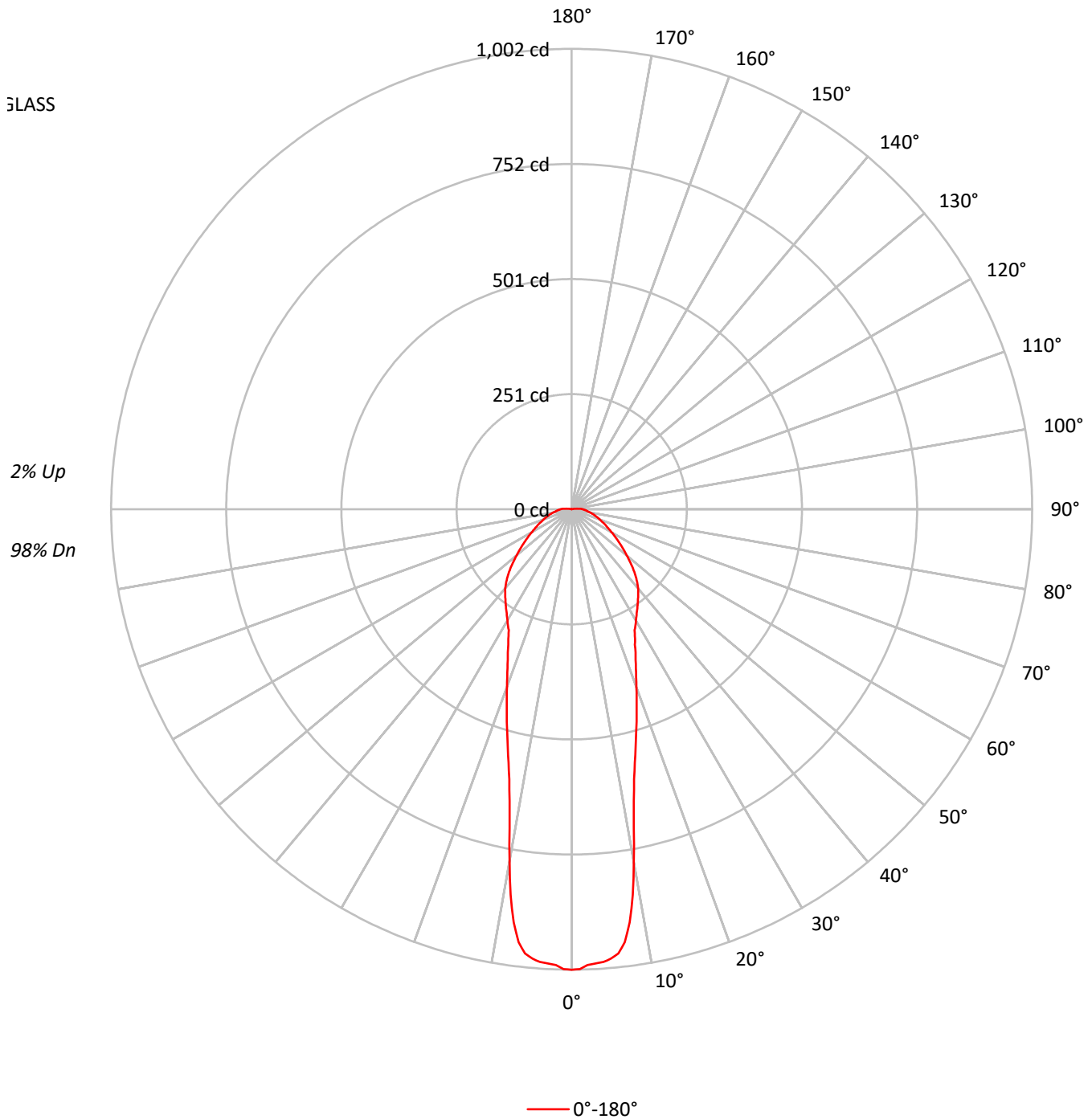
Lumens per Lamp: N/A
Luminaire Lumens: 998.5 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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	42	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°	116250
5°	99515
10°	70654
15°	44353
20°	31400
25°	23257
30°	18911
35°	16212
40°	14057
45°	11705
50°	9323
55°	7434
60°	5916
65°	4796
70°	3915
75°	3183
80°	2508
85°	2054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11705 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	8.8
10°-20°	151.9	15.2
20°-30°	152.2	15.2
30°-40°	157.0	15.7
40°-50°	147.7	14.8
50°-60°	113.3	11.3
60°-70°	80.7	8.1
70°-80°	55.1	5.5
80°-90°	34.5	3.5
90°-100°	16.4	1.6
100°-110°	1.5	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°	392.2	39.3
0°-40°	549.3	55.0
0°-60°	810.3	81.2
0°-90°	980.7	98.2
90°-120°	17.8	1.8
90°-150°	17.8	1.8
90°-180°	18.0	1.8
0°-180°	998.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1002	
5°	982	88
15°	537	152
25°	326	152
35°	251	157
45°	192	148
55°	126	113
65°	81	81
75°	52	55
85°	32	27
90°	24	13
95°	14	10
105°	0	1
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°	1002.3
1°	1001.1
2°	992.6
3°	990.2
4°	987.7
5°	981.7
6°	972.0
7°	949.0
8°	907.8
9°	849.7
10°	779.5
11°	708.1
12°	648.8
13°	602.8
14°	567.7
15°	537.4
16°	508.4
17°	483.0
18°	457.6
19°	433.3
20°	411.6
21°	391.0
22°	372.8
23°	355.9
24°	341.4
25°	325.6
27.5°	296.6
30°	279.6
32.5°	263.9
35°	250.6
37.5°	237.3
40°	225.1
42.5°	209.4
45°	192.5
47.5°	174.3
50°	156.2
52.5°	140.4
55°	125.9
57.5°	112.6
60°	100.5
62.5°	89.6
65°	81.1
67.5°	72.6
70°	65.4
72.5°	58.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	52.1
77.5°	46.0
80°	39.9
82.5°	35.1
85°	31.5
87.5°	27.8
90°	24.2
92.5°	20.6
95°	14.5
97.5°	9.7
100°	6.1
102.5°	2.4
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)