

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: P701955

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701955
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-1020-9050-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

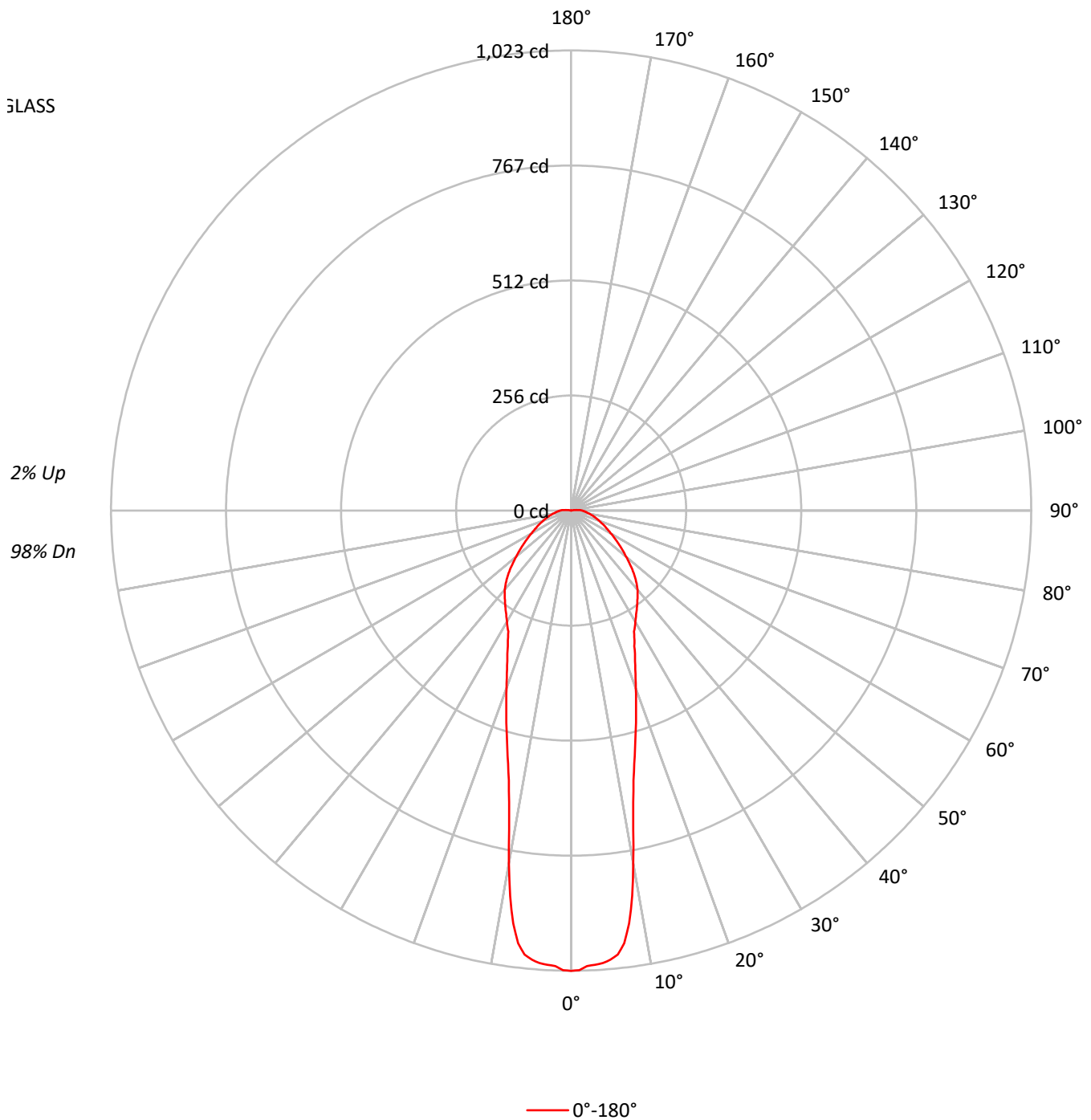
Lumens per Lamp: N/A
Luminaire Lumens: 1019.4 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	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°	118697
5°	101613
10°	72149
15°	45294
20°	32056
25°	23750
30°	19310
35°	16548
40°	14357
45°	11948
50°	9514
55°	7588
60°	6040
65°	4897
70°	3993
75°	3244
80°	2564
85°	2094

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11948 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	8.8
10°-20°	155.1	15.2
20°-30°	155.4	15.2
30°-40°	160.3	15.7
40°-50°	150.8	14.8
50°-60°	115.6	11.3
60°-70°	82.4	8.1
70°-80°	56.3	5.5
80°-90°	35.2	3.5
90°-100°	16.7	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°	400.5	39.3
0°-40°	560.8	55.0
0°-60°	827.3	81.2
0°-90°	1001.2	98.2
90°-120°	18.2	1.8
90°-150°	18.2	1.8
90°-180°	18.0	1.8
0°-180°	1019.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1023	
5°	1002	90
15°	549	155
25°	332	155
35°	256	160
45°	196	151
55°	128	116
65°	83	82
75°	53	56
85°	32	28
90°	25	14
95°	15	10
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°	1023.4
1°	1022.1
2°	1013.5
3°	1011.0
4°	1008.5
5°	1002.4
6°	992.5
7°	969.0
8°	927.0
9°	867.6
10°	796.0
11°	723.0
12°	662.5
13°	615.5
14°	579.7
15°	548.8
16°	519.1
17°	493.1
18°	467.2
19°	442.5
20°	420.2
21°	399.2
22°	380.7
23°	363.4
24°	348.5
25°	332.5
27.5°	302.8
30°	285.5
32.5°	269.4
35°	255.8
37.5°	242.2
40°	229.9
42.5°	213.8
45°	196.5
47.5°	178.0
50°	159.4
52.5°	143.4
55°	128.5
57.5°	114.9
60°	102.6
62.5°	91.5
65°	82.8
67.5°	74.2
70°	66.7
72.5°	59.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	53.1
77.5°	47.0
80°	40.8
82.5°	35.8
85°	32.1
87.5°	28.4
90°	24.7
92.5°	21.0
95°	14.8
97.5°	9.9
100°	6.2
102.5°	2.5
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)