

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: P701920

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701920
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-1020-9024-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

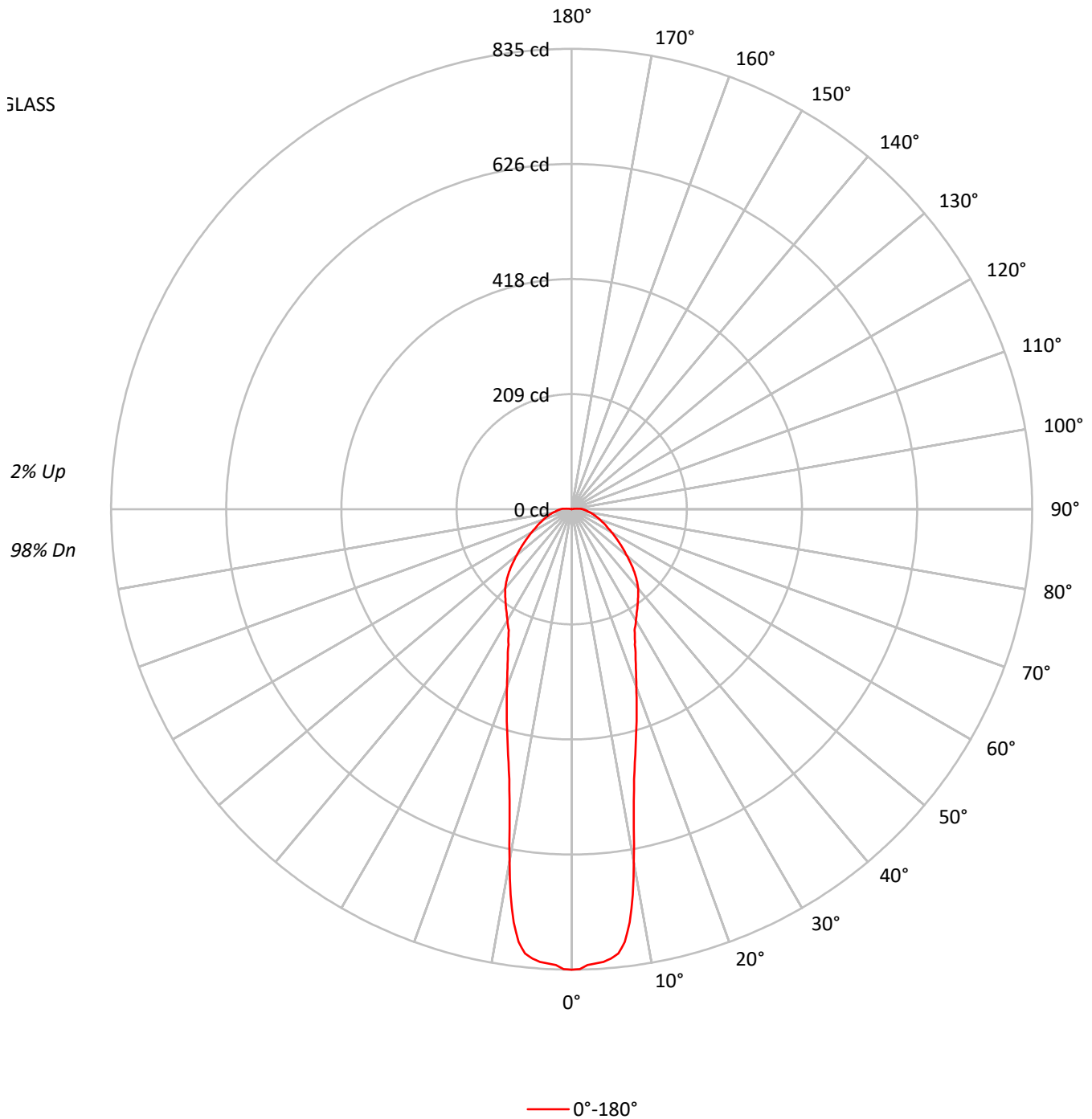
Lumens per Lamp: N/A
Luminaire Lumens: 831.9 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

TEST NUMBER: P701920

CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

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°	96858
5°	82921
10°	58871
15°	36958
20°	26159
25°	19379
30°	15759
35°	13507
40°	11715
45°	9753
50°	7765
55°	6194
60°	4927
65°	3998
70°	3263
75°	2651
80°	2093
85°	1709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9753 cd/sqm

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CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	8.8
10°-20°	126.6	15.2
20°-30°	126.8	15.2
30°-40°	130.9	15.7
40°-50°	123.1	14.8
50°-60°	94.4	11.3
60°-70°	67.3	8.1
70°-80°	45.9	5.5
80°-90°	28.7	3.5
90°-100°	13.6	1.6
100°-110°	1.2	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°	326.8	39.3
0°-40°	457.7	55.0
0°-60°	675.1	81.2
0°-90°	817.1	98.2
90°-120°	14.8	1.8
90°-150°	14.8	1.8
90°-180°	15.0	1.8
0°-180°	831.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	835	
5°	818	73
15°	448	127
25°	271	127
35°	209	131
45°	160	123
55°	105	94
65°	68	67
75°	43	46
85°	26	23
90°	20	11
95°	12	9
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	835.1
1°	834.1
2°	827.1
3°	825.0
4°	823.0
5°	818.0
6°	809.9
7°	790.7
8°	756.5
9°	708.0
10°	649.5
11°	590.0
12°	540.6
13°	502.3
14°	473.0
15°	447.8
16°	423.6
17°	402.4
18°	381.3
19°	361.1
20°	342.9
21°	325.8
22°	310.6
23°	296.5
24°	284.4
25°	271.3
27.5°	247.1
30°	233.0
32.5°	219.9
35°	208.8
37.5°	197.7
40°	187.6
42.5°	174.5
45°	160.4
47.5°	145.2
50°	130.1
52.5°	117.0
55°	104.9
57.5°	93.8
60°	83.7
62.5°	74.6
65°	67.6
67.5°	60.5
70°	54.5
72.5°	48.4

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CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	43.4
77.5°	38.3
80°	33.3
82.5°	29.2
85°	26.2
87.5°	23.2
90°	20.2
92.5°	17.1
95°	12.1
97.5°	8.1
100°	5.0
102.5°	2.0
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)