

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: P701808

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701808
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-08-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

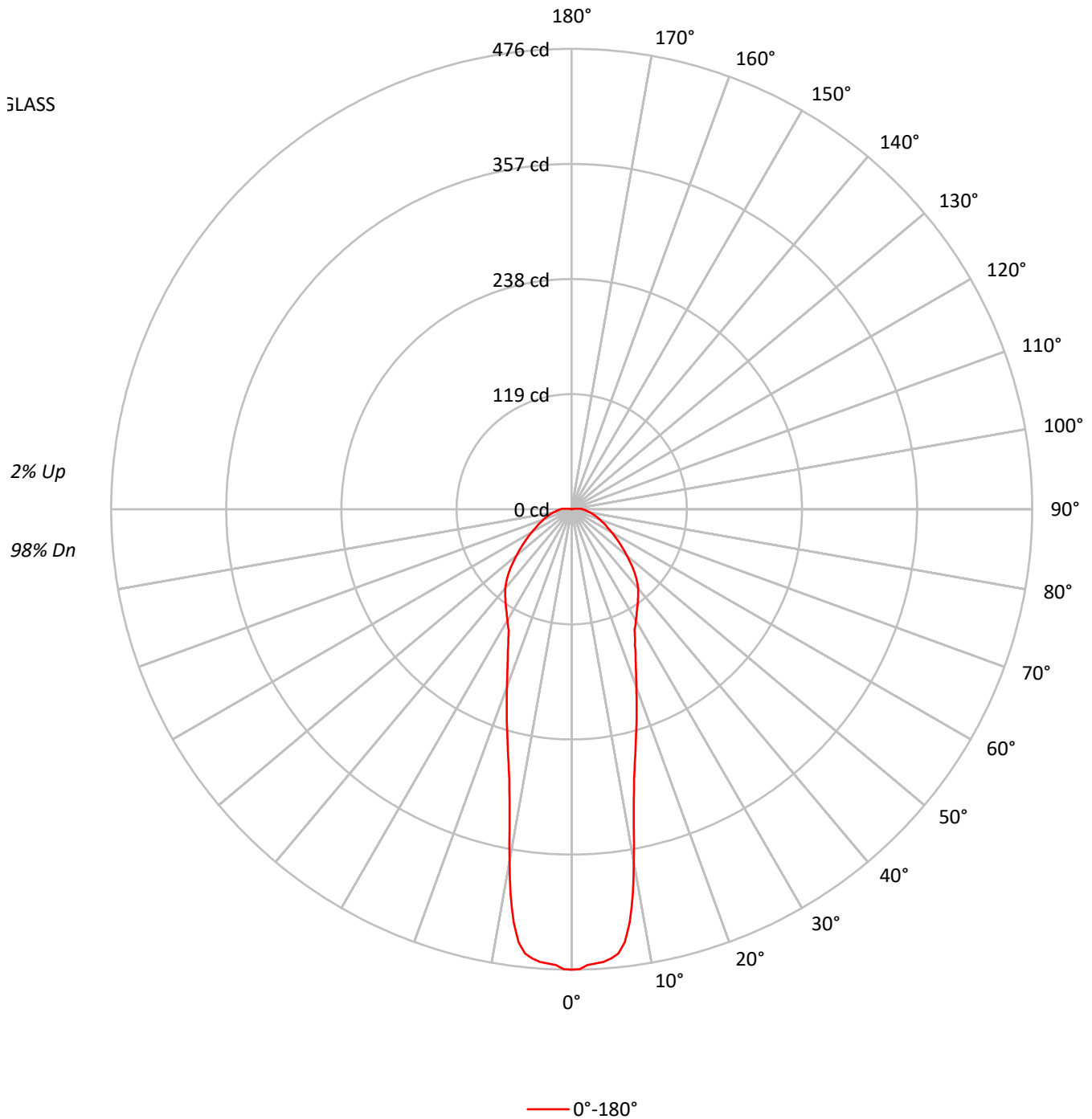
Lumens per Lamp: N/A
Luminaire Lumens: 474.2 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P701808

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

Luminous Intensity Polar Plot



TEST NUMBER: P701808

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

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°	55208
5°	47269
10°	33564
15°	21070
20°	14914
25°	11050
30°	8982
35°	7698
40°	6676
45°	5557
50°	4429
55°	3531
60°	2808
65°	2277
70°	1856
75°	1509
80°	1194
85°	972

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5557 cd/sqm

TEST NUMBER: P701808

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.9	8.8
10°-20°	72.2	15.2
20°-30°	72.3	15.2
30°-40°	74.6	15.7
40°-50°	70.2	14.8
50°-60°	53.8	11.3
60°-70°	38.3	8.1
70°-80°	26.2	5.5
80°-90°	16.4	3.5
90°-100°	7.8	1.6
100°-110°	0.7	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°	186.3	39.3
0°-40°	260.9	55.0
0°-60°	384.9	81.2
0°-90°	465.7	98.2
90°-120°	8.5	1.8
90°-150°	8.5	1.8
90°-180°	8.0	1.7
0°-180°	474.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	476	
5°	466	42
15°	255	72
25°	155	72
35°	119	75
45°	91	70
55°	60	54
65°	38	38
75°	25	26
85°	15	13
90°	12	6
95°	7	5
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

TEST NUMBER: P701808

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

CANDELA DISTRIBUTION (FULL):

0°	
0°	476.0
1°	475.5
2°	471.4
3°	470.3
4°	469.1
5°	466.3
6°	461.7
7°	450.8
8°	431.2
9°	403.6
10°	370.3
11°	336.3
12°	308.2
13°	286.3
14°	269.6
15°	255.3
16°	241.5
17°	229.4
18°	217.3
19°	205.8
20°	195.5
21°	185.7
22°	177.1
23°	169.0
24°	162.1
25°	154.7
27.5°	140.9
30°	132.8
32.5°	125.3
35°	119.0
37.5°	112.7
40°	106.9
42.5°	99.5
45°	91.4
47.5°	82.8
50°	74.2
52.5°	66.7
55°	59.8
57.5°	53.5
60°	47.7
62.5°	42.5
65°	38.5
67.5°	34.5
70°	31.0
72.5°	27.6

TEST NUMBER: P701808

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	24.7
77.5°	21.8
80°	19.0
82.5°	16.7
85°	14.9
87.5°	13.2
90°	11.5
92.5°	9.8
95°	6.9
97.5°	4.6
100°	2.9
102.5°	1.1
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)