

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: P701829

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701829
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-1020-9035-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

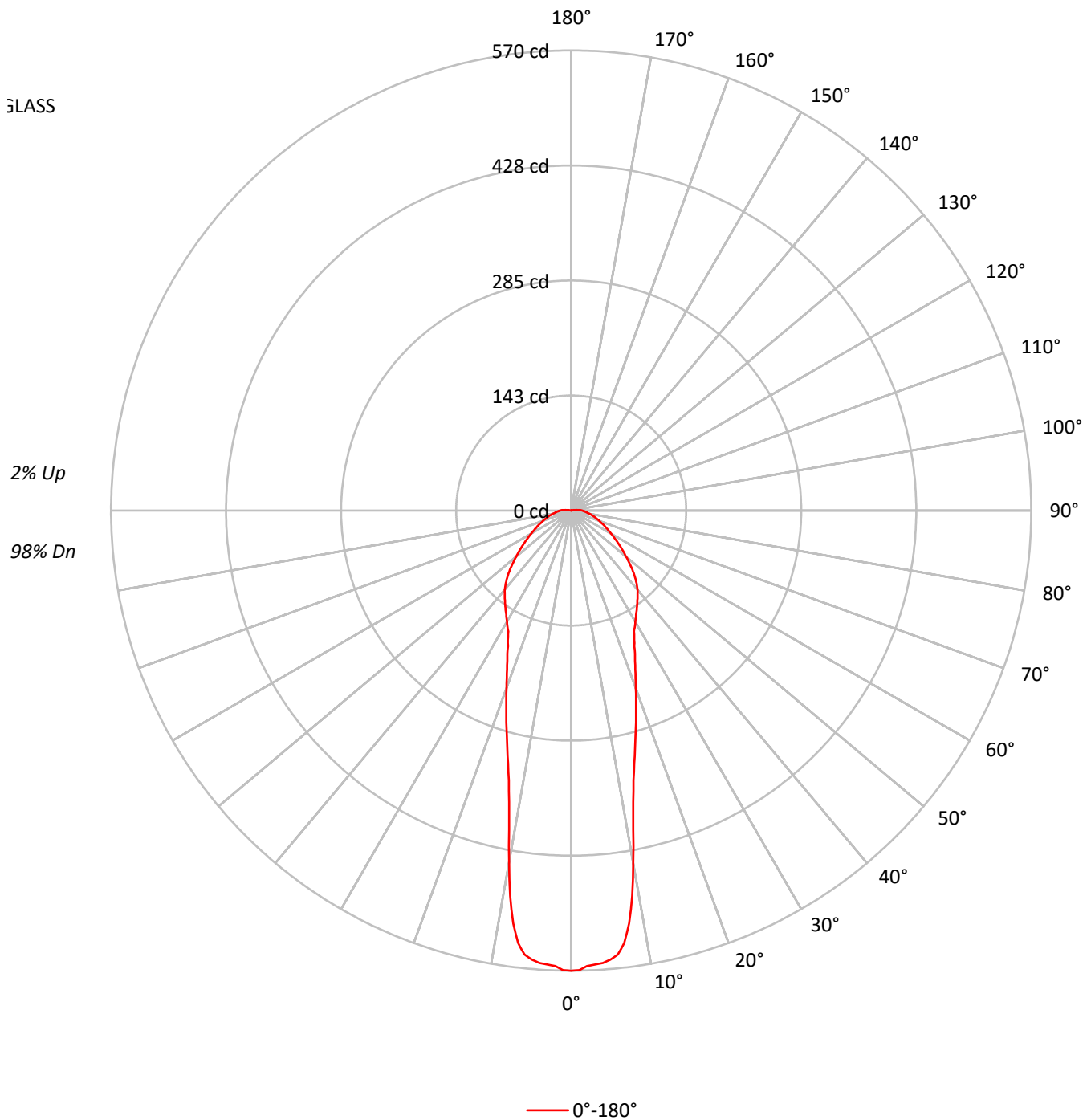
Lumens per Lamp: N/A
Luminaire Lumens: 567.9 lumens
Efficiency: N/A
Efficacy: 57.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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: P701829

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-GFC

Luminous Intensity Polar Plot



TEST NUMBER: P701829

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-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°	66122
5°	56605
10°	40190
15°	25230
20°	17859
25°	13229
30°	10761
35°	9218
40°	8000
45°	6658
50°	5300
55°	4228
60°	3361
65°	2726
70°	2227
75°	1808
80°	1427
85°	1167

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6658 cd/sqm

TEST NUMBER: P701829

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	8.8
10°-20°	86.4	15.2
20°-30°	86.6	15.2
30°-40°	89.3	15.7
40°-50°	84.0	14.8
50°-60°	64.4	11.3
60°-70°	45.9	8.1
70°-80°	31.4	5.5
80°-90°	19.6	3.5
90°-100°	9.3	1.6
100°-110°	0.8	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°	223.1	39.3
0°-40°	312.4	55.0
0°-60°	460.9	81.2
0°-90°	557.8	98.2
90°-120°	10.1	1.8
90°-150°	10.1	1.8
90°-180°	10.0	1.8
0°-180°	567.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	570	
5°	558	50
15°	306	86
25°	185	87
35°	142	89
45°	110	84
55°	72	64
65°	46	46
75°	30	31
85°	18	16
90°	14	8
95°	8	6
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: P701829

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-GFC

CANDELA DISTRIBUTION (FULL):

0°	
0°	570.1
1°	569.4
2°	564.6
3°	563.2
4°	561.8
5°	558.4
6°	552.9
7°	539.8
8°	516.4
9°	483.3
10°	443.4
11°	402.8
12°	369.1
13°	342.9
14°	322.9
15°	305.7
16°	289.2
17°	274.7
18°	260.3
19°	246.5
20°	234.1
21°	222.4
22°	212.1
23°	202.4
24°	194.2
25°	185.2
27.5°	168.7
30°	159.1
32.5°	150.1
35°	142.5
37.5°	135.0
40°	128.1
42.5°	119.1
45°	109.5
47.5°	99.1
50°	88.8
52.5°	79.9
55°	71.6
57.5°	64.0
60°	57.1
62.5°	51.0
65°	46.1
67.5°	41.3
70°	37.2
72.5°	33.0

TEST NUMBER: P701829

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	29.6
77.5°	26.2
80°	22.7
82.5°	20.0
85°	17.9
87.5°	15.8
90°	13.8
92.5°	11.7
95°	8.3
97.5°	5.5
100°	3.4
102.5°	1.4
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)