

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: P701766

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701766
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-05-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

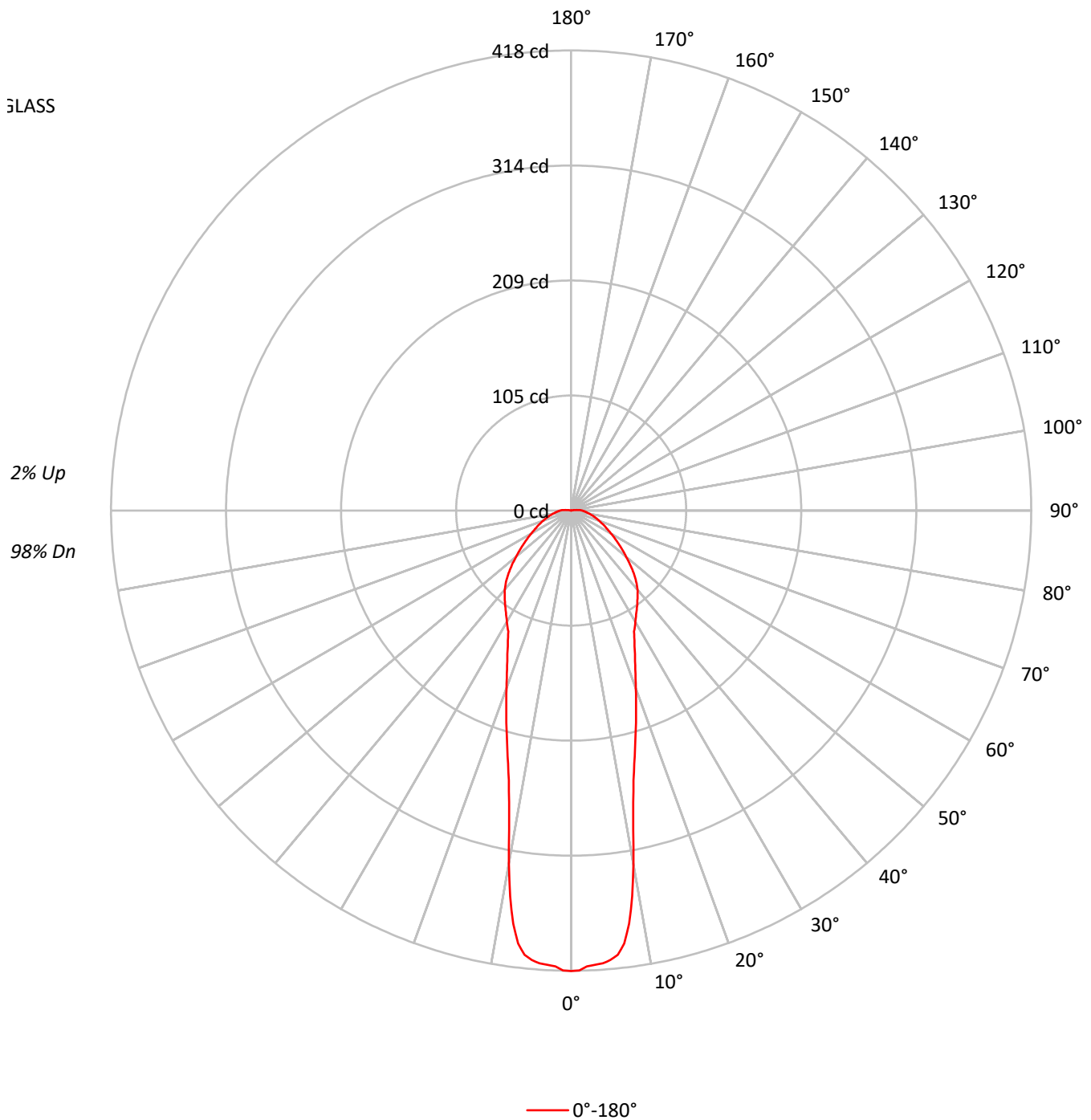
Lumens per Lamp: N/A
Luminaire Lumens: 416.7 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 7.2
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: P701766

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC

Luminous Intensity Polar Plot



TEST NUMBER: P701766

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-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°	48516
5°	41531
10°	29494
15°	18512
20°	13106
25°	9707
30°	7893
35°	6767
40°	5870
45°	4882
50°	3891
55°	3100
60°	2467
65°	1999
70°	1634
75°	1326
80°	1050
85°	854

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4882 cd/sqm

TEST NUMBER: P701766

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.8	8.8
10°-20°	63.4	15.2
20°-30°	63.5	15.2
30°-40°	65.5	15.7
40°-50°	61.7	14.8
50°-60°	47.3	11.3
60°-70°	33.7	8.1
70°-80°	23.0	5.5
80°-90°	14.4	3.5
90°-100°	6.8	1.6
100°-110°	0.6	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°	163.7	39.3
0°-40°	229.2	55.0
0°-60°	338.2	81.2
0°-90°	409.3	98.2
90°-120°	7.4	1.8
90°-150°	7.4	1.8
90°-180°	7.0	1.7
0°-180°	416.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	418	
5°	410	37
15°	224	63
25°	136	64
35°	105	66
45°	80	62
55°	52	47
65°	34	34
75°	22	23
85°	13	11
90°	10	6
95°	6	4
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: P701766

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC

CANDELA DISTRIBUTION (FULL):

0°	
0°	418.3
1°	417.8
2°	414.3
3°	413.3
4°	412.3
5°	409.7
6°	405.7
7°	396.1
8°	378.9
9°	354.7
10°	325.4
11°	295.6
12°	270.8
13°	251.6
14°	236.9
15°	224.3
16°	212.2
17°	201.6
18°	191.0
19°	180.9
20°	171.8
21°	163.2
22°	155.6
23°	148.5
24°	142.5
25°	135.9
27.5°	123.8
30°	116.7
32.5°	110.1
35°	104.6
37.5°	99.0
40°	94.0
42.5°	87.4
45°	80.3
47.5°	72.8
50°	65.2
52.5°	58.6
55°	52.5
57.5°	47.0
60°	41.9
62.5°	37.4
65°	33.8
67.5°	30.3
70°	27.3
72.5°	24.3

TEST NUMBER: P701766

CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	21.7
77.5°	19.2
80°	16.7
82.5°	14.7
85°	13.1
87.5°	11.6
90°	10.1
92.5°	8.6
95°	6.1
97.5°	4.0
100°	2.5
102.5°	1.0
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)