

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: P702053

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702053
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-25-D010 / 340-EU4C-3040-9035-4LBW1LI-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

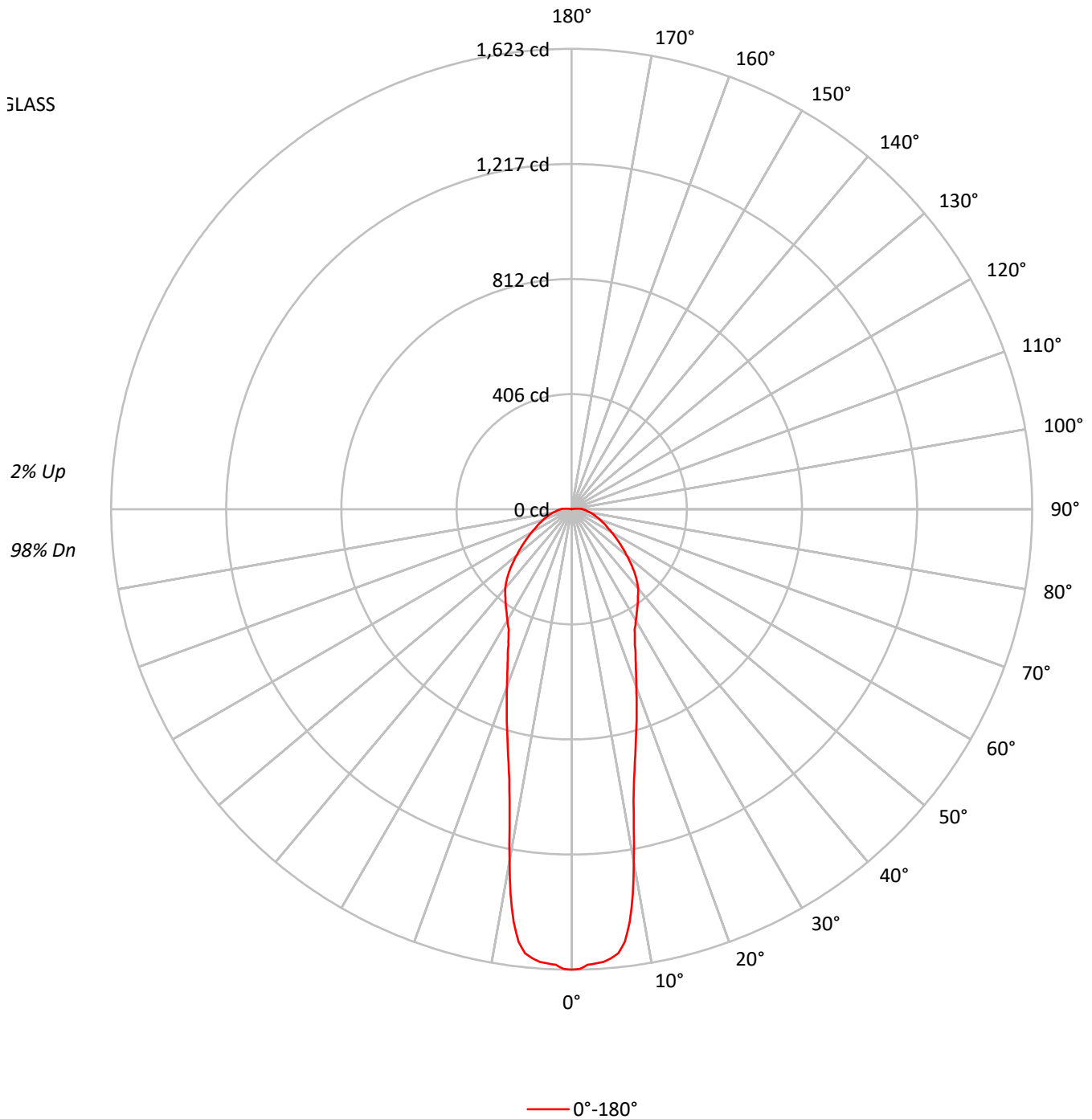
Lumens per Lamp: N/A
Luminaire Lumens: 1616.6 lumens
Efficiency: N/A
Efficacy: 51.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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: P702053

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

Luminous Intensity Polar Plot



TEST NUMBER: P702053

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9035-4LBW1LI-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°	188217
5°	161128
10°	114406
15°	71819
20°	50839
25°	37657
30°	30618
35°	26245
40°	22762
45°	18946
50°	15088
55°	12034
60°	9578
65°	7765
70°	6334
75°	5150
80°	4066
85°	3326

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18946 cd/sqm

TEST NUMBER: P702053

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	8.8
10°-20°	246.0	15.2
20°-30°	246.4	15.2
30°-40°	254.2	15.7
40°-50°	239.2	14.8
50°-60°	183.4	11.3
60°-70°	130.7	8.1
70°-80°	89.3	5.5
80°-90°	55.8	3.5
90°-100°	26.5	1.6
100°-110°	2.4	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°	635.1	39.3
0°-40°	889.3	55.0
0°-60°	1311.9	81.2
0°-90°	1587.8	98.2
90°-120°	28.9	1.8
90°-150°	28.9	1.8
90°-180°	29.0	1.8
0°-180°	1616.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1623	
5°	1590	143
15°	870	246
25°	527	246
35°	406	254
45°	312	239
55°	204	183
65°	131	131
75°	84	89
85°	51	44
90°	39	21
95°	24	17
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

TEST NUMBER: P702053

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

CANDELA DISTRIBUTION (FULL):

0°	
0°	1622.8
1°	1620.9
2°	1607.2
3°	1603.2
4°	1599.3
5°	1589.5
6°	1573.8
7°	1536.6
8°	1470.0
9°	1375.9
10°	1262.2
11°	1146.6
12°	1050.5
13°	976.1
14°	919.2
15°	870.2
16°	823.2
17°	782.0
18°	740.9
19°	701.7
20°	666.4
21°	633.1
22°	603.7
23°	576.2
24°	552.7
25°	527.2
27.5°	480.2
30°	452.7
32.5°	427.3
35°	405.7
37.5°	384.1
40°	364.5
42.5°	339.1
45°	311.6
47.5°	282.2
50°	252.8
52.5°	227.4
55°	203.8
57.5°	182.3
60°	162.7
62.5°	145.0
65°	131.3
67.5°	117.6
70°	105.8
72.5°	94.1

TEST NUMBER: P702053

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	84.3
77.5°	74.5
80°	64.7
82.5°	56.8
85°	51.0
87.5°	45.1
90°	39.2
92.5°	33.3
95°	23.5
97.5°	15.7
100°	9.8
102.5°	3.9
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)