

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: P702054

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702054
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)
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-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

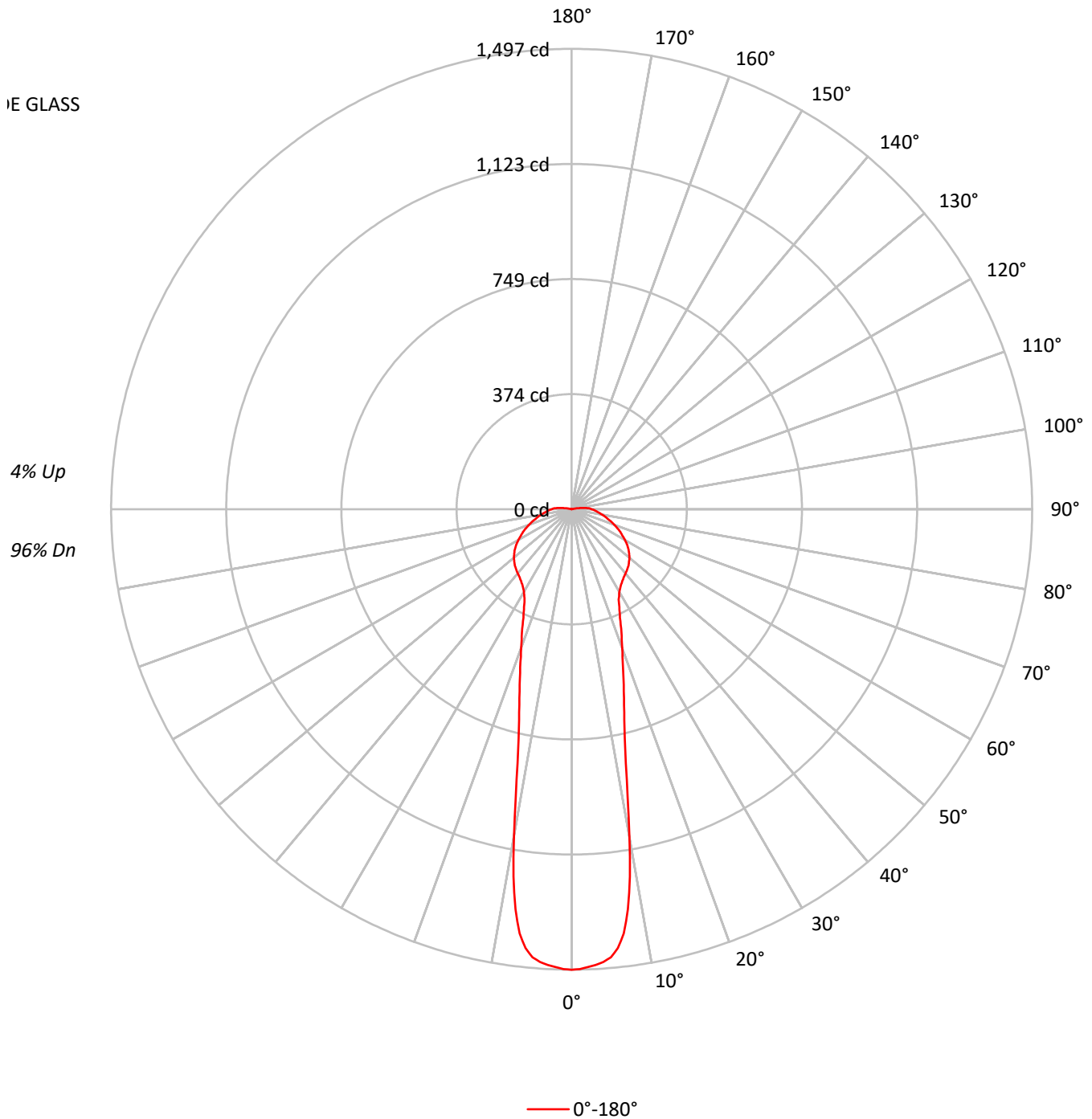
Lumens per Lamp: N/A
Luminaire Lumens: 1517.8 lumens
Efficiency: N/A
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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: P702054

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

Luminous Intensity Polar Plot



TEST NUMBER: P702054

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

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87	89	86	83	85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47	57	51	46	55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42	52	46	41	51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38	49	42	37	47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35	45	39	34	44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32	42	36	32	41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	173673
5°	148213
10°	98063
15°	54347
20°	36634
25°	26321
30°	20946
35°	18515
40°	17011
45°	15851
50°	14623
55°	13309
60°	11768
65°	10314
70°	8801
75°	7422
80°	6285
85°	5368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15851 cd/sqm

TEST NUMBER: P702054

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	8.5
10°-20°	188.6	12.4
20°-30°	172.5	11.4
30°-40°	180.4	11.9
40°-50°	200.8	13.2
50°-60°	200.7	13.2
60°-70°	172.1	11.3
70°-80°	129.9	8.6
80°-90°	89.8	5.9
90°-100°	47.7	3.1
100°-110°	6.5	0.4
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°	489.8	32.3
0°-40°	670.2	44.2
0°-60°	1071.8	70.6
0°-90°	1463.6	96.4
90°-120°	54.2	3.6
90°-150°	54.2	3.6
90°-180°	54.0	3.6
0°-180°	1517.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1497	
5°	1462	129
15°	658	189
25°	368	173
35°	286	180
45°	261	201
55°	225	201
65°	174	172
75°	122	130
85°	82	71
90°	65	36
95°	45	31
105°	4	7
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: P702054

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	1497.4
1°	1495.4
2°	1489.6
3°	1483.7
4°	1475.8
5°	1462.1
6°	1434.7
7°	1389.6
8°	1313.2
9°	1209.3
10°	1081.9
11°	952.5
12°	844.7
13°	766.3
14°	705.6
15°	658.5
16°	615.4
17°	576.2
18°	540.9
19°	507.6
20°	480.2
21°	454.7
22°	431.2
23°	407.7
24°	386.1
25°	368.5
27.5°	331.2
30°	309.7
32.5°	296.0
35°	286.2
37.5°	278.3
40°	272.4
42.5°	266.6
45°	260.7
47.5°	252.8
50°	245.0
52.5°	235.2
55°	225.4
57.5°	213.6
60°	199.9
62.5°	186.2
65°	174.4
67.5°	160.7
70°	147.0
72.5°	135.2

TEST NUMBER: P702054

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

CANDELA DISTRIBUTION (continued):

	0°
75°	121.5
77.5°	111.7
80°	100.0
82.5°	90.2
85°	82.3
87.5°	74.5
90°	64.7
92.5°	58.8
95°	45.1
97.5°	29.4
100°	17.6
102.5°	9.8
105°	3.9
107.5°	2.0
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)