

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: P702032

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702032
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-3040-9024-4LBW1LI-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

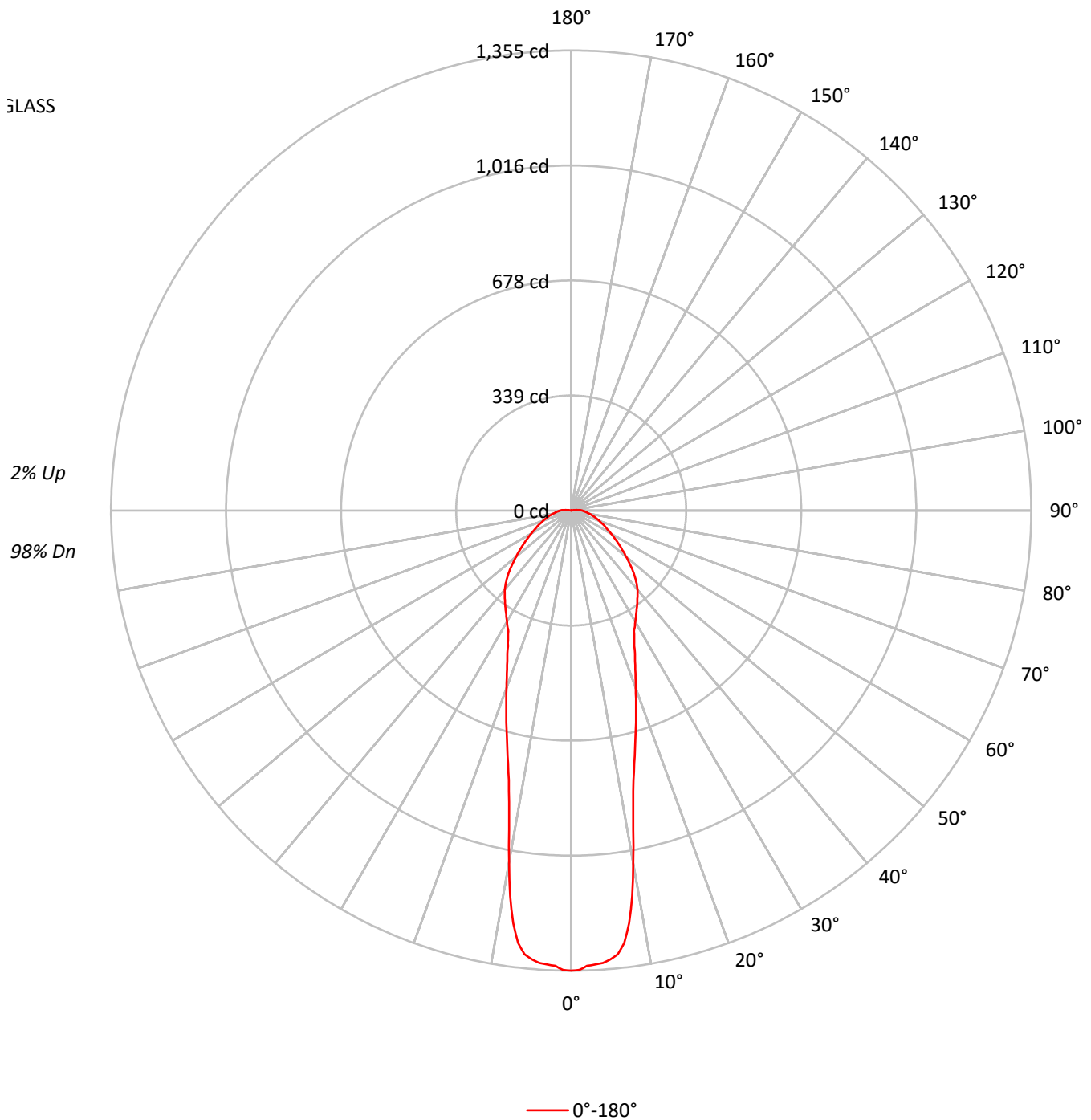
Lumens per Lamp: N/A
Luminaire Lumens: 1349.7 lumens
Efficiency: N/A
Efficacy: 42.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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: P702032

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

Luminous Intensity Polar Plot



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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°	157146
5°	134528
10°	95516
15°	59960
20°	42447
25°	31443
30°	25566
35°	21911
40°	19009
45°	15821
50°	12599
55°	10050
60°	7994
65°	6482
70°	5292
75°	4301
80°	3394
85°	2772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15821 cd/sqm

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CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	8.8
10°-20°	205.4	15.2
20°-30°	205.7	15.2
30°-40°	212.3	15.7
40°-50°	199.7	14.8
50°-60°	153.1	11.3
60°-70°	109.1	8.1
70°-80°	74.5	5.5
80°-90°	46.6	3.5
90°-100°	22.1	1.6
100°-110°	2.0	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°	530.2	39.3
0°-40°	742.5	55.0
0°-60°	1095.4	81.2
0°-90°	1325.6	98.2
90°-120°	24.1	1.8
90°-150°	24.1	1.8
90°-180°	24.0	1.8
0°-180°	1349.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1355	
5°	1327	119
15°	726	205
25°	440	206
35°	339	212
45°	260	200
55°	170	153
65°	110	109
75°	70	75
85°	42	37
90°	33	18
95°	20	14
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

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CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

CANDELA DISTRIBUTION (FULL):

0°	
0°	1354.9
1°	1353.3
2°	1341.8
3°	1338.5
4°	1335.3
5°	1327.1
6°	1314.0
7°	1282.9
8°	1227.3
9°	1148.7
10°	1053.8
11°	957.3
12°	877.1
13°	814.9
14°	767.5
15°	726.5
16°	687.3
17°	652.9
18°	618.5
19°	585.8
20°	556.4
21°	528.5
22°	504.0
23°	481.1
24°	461.5
25°	440.2
27.5°	400.9
30°	378.0
32.5°	356.7
35°	338.7
37.5°	320.7
40°	304.4
42.5°	283.1
45°	260.2
47.5°	235.6
50°	211.1
52.5°	189.8
55°	170.2
57.5°	152.2
60°	135.8
62.5°	121.1
65°	109.6
67.5°	98.2
70°	88.4
72.5°	78.5

TEST NUMBER: P702032

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	70.4
77.5°	62.2
80°	54.0
82.5°	47.5
85°	42.5
87.5°	37.6
90°	32.7
92.5°	27.8
95°	19.6
97.5°	13.1
100°	8.2
102.5°	3.3
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)