

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: P702200

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702200
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-40-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

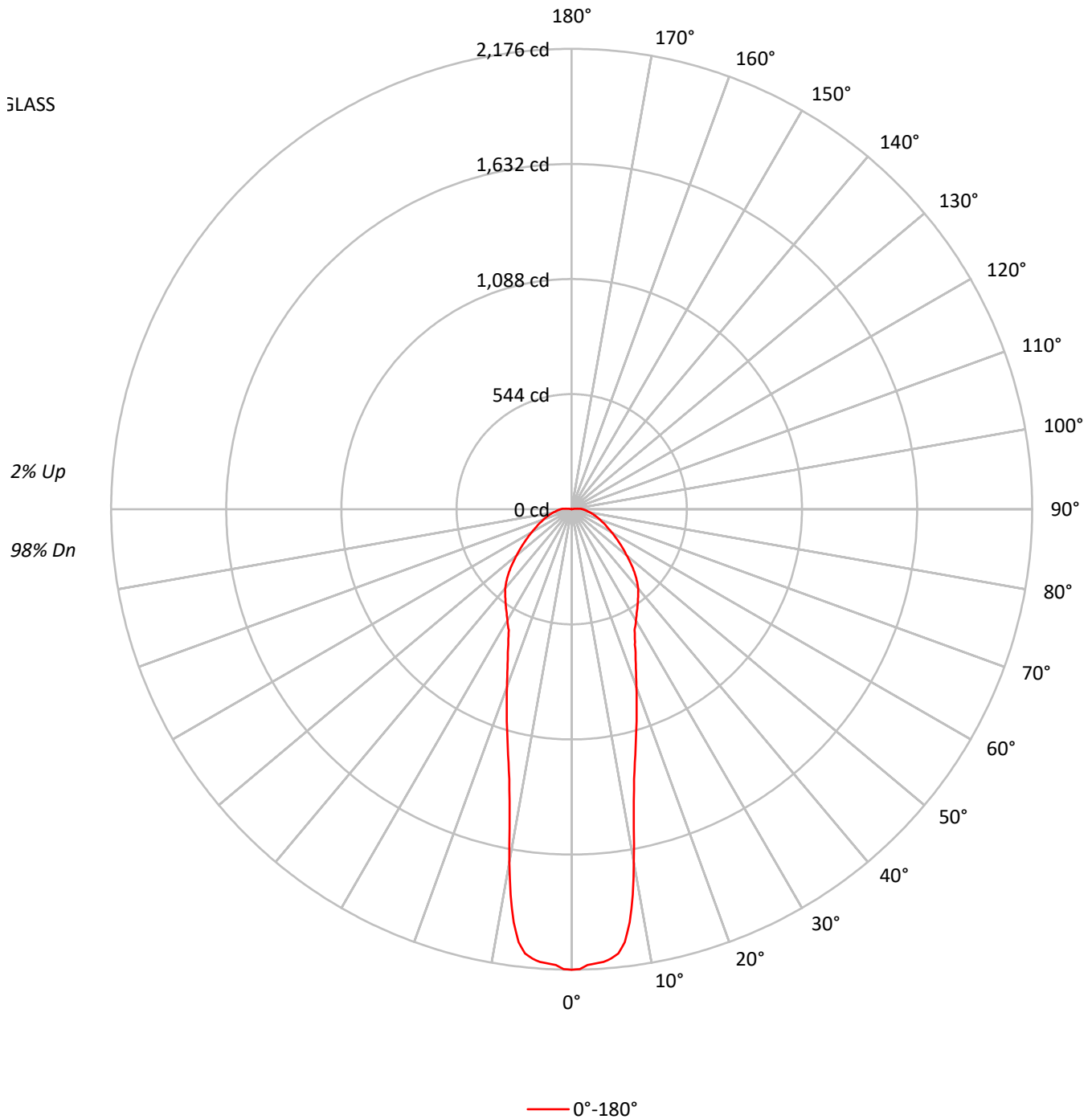
Lumens per Lamp: N/A
Luminaire Lumens: 2168.2 lumens
Efficiency: N/A
Efficacy: 46.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 47
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: P702200

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

Luminous Intensity Polar Plot



TEST NUMBER: P702200

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-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°	252437
5°	216101
10°	153445
15°	96323
20°	68179
25°	50507
30°	41068
35°	35198
40°	30531
45°	25416
50°	20239
55°	16144
60°	12845
65°	10414
70°	8495
75°	6903
80°	5449
85°	4455

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25416 cd/sqm

TEST NUMBER: P702200

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.4	8.8
10°-20°	330.0	15.2
20°-30°	330.4	15.2
30°-40°	341.0	15.7
40°-50°	320.8	14.8
50°-60°	246.0	11.3
60°-70°	175.3	8.1
70°-80°	119.7	5.5
80°-90°	74.9	3.5
90°-100°	35.5	1.6
100°-110°	3.2	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°	851.8	39.3
0°-40°	1192.7	55.0
0°-60°	1759.6	81.2
0°-90°	2129.5	98.2
90°-120°	38.7	1.8
90°-150°	38.7	1.8
90°-180°	39.0	1.8
0°-180°	2168.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2176	
5°	2132	191
15°	1167	330
25°	707	330
35°	544	341
45°	418	321
55°	273	246
65°	176	175
75°	113	120
85°	68	59
90°	53	29
95°	32	22
105°	0	3
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: P702200

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

CANDELA DISTRIBUTION (FULL):

0°	
0°	2176.5
1°	2173.9
2°	2155.5
3°	2150.2
4°	2145.0
5°	2131.8
6°	2110.8
7°	2060.9
8°	1971.5
9°	1845.3
10°	1692.9
11°	1537.8
12°	1409.0
13°	1309.1
14°	1232.8
15°	1167.1
16°	1104.0
17°	1048.8
18°	993.6
19°	941.1
20°	893.7
21°	849.1
22°	809.6
23°	772.8
24°	741.3
25°	707.1
27.5°	644.0
30°	607.2
32.5°	573.0
35°	544.1
37.5°	515.2
40°	488.9
42.5°	454.8
45°	418.0
47.5°	378.5
50°	339.1
52.5°	304.9
55°	273.4
57.5°	244.5
60°	218.2
62.5°	194.5
65°	176.1
67.5°	157.7
70°	141.9
72.5°	126.2

TEST NUMBER: P702200

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	113.0
77.5°	99.9
80°	86.7
82.5°	76.2
85°	68.3
87.5°	60.5
90°	52.6
92.5°	44.7
95°	31.5
97.5°	21.0
100°	13.1
102.5°	5.3
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)