

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: P702220

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702220  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

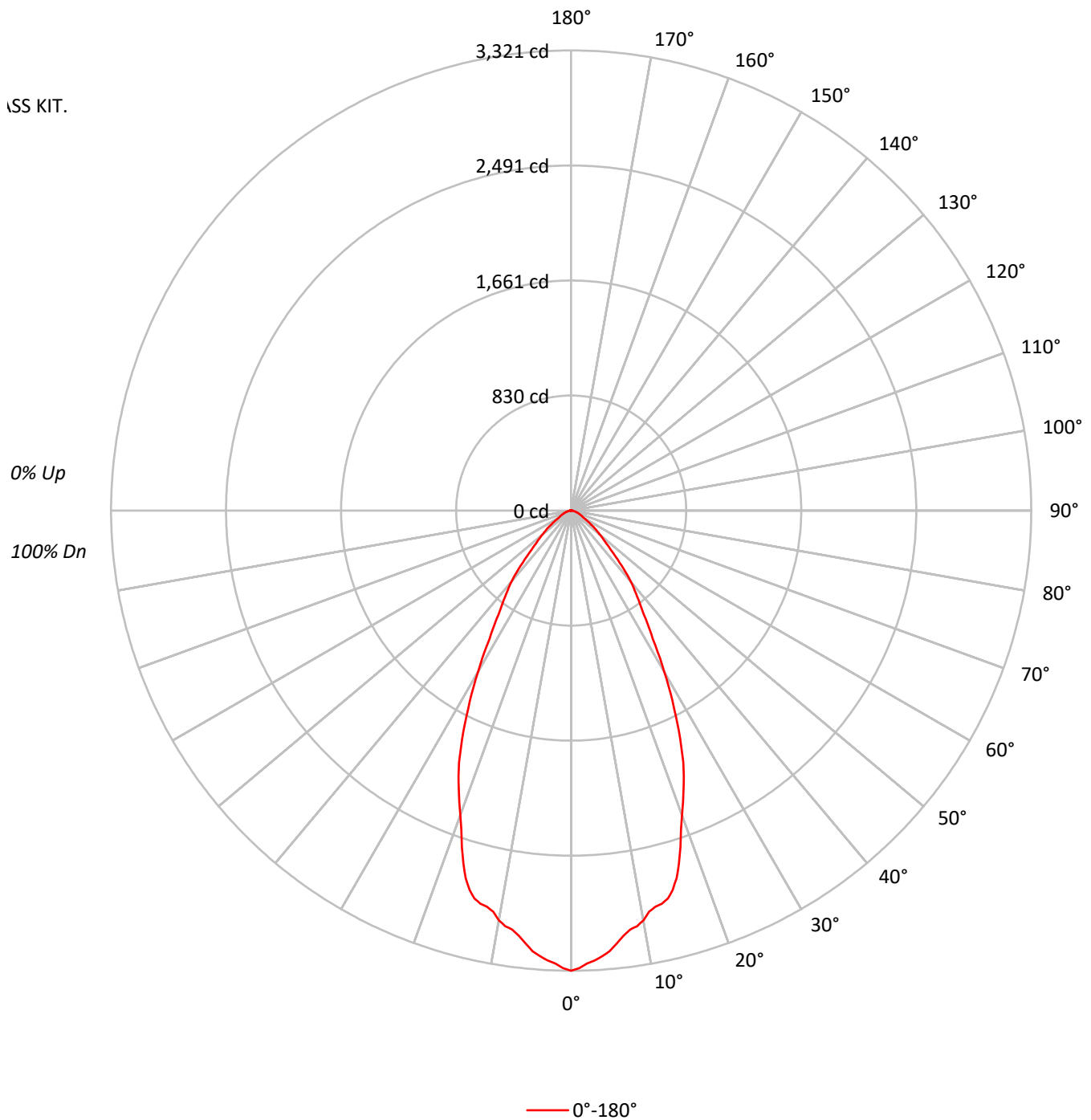
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3133.2 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
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: P702220

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

### Luminous Intensity Polar Plot



TEST NUMBER: P702220

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

**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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91
2	106	101	96	92	104	99	95	91	95	92	89	92	89	87	89	87	85	83				83
3	100	93	87	83	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70				70
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64				64
6	84	74	68	63	82	73	67	63	72	66	62	70	65	62	69	65	61	60				60
7	79	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55				55
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	56	53	52				52
9	71	61	55	50	70	61	54	50	60	54	50	59	53	50	58	53	50	48				48
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	385180
5°	371621
10°	353647
15°	340135
20°	288572
25°	240731
30°	180184
35°	129384
40°	102093
45°	67710
50°	49458
55°	35043
60°	24124
65°	20748
70°	18176
75°	15550
80°	12624
85°	12642

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 67710 cd/sqm

TEST NUMBER: P702220

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.4	9.5
10°-20°	772.2	24.6
20°-30°	849.5	27.1
30°-40°	589.0	18.8
40°-50°	335.8	10.7
50°-60°	159.6	5.1
60°-70°	75.5	2.4
70°-80°	37.0	1.2
80°-90°	10.7	0.3
90°-100°	3.9	0.1
100°-110°	2.6	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°	1919.1	61.3
0°-40°	2508.1	80.0
0°-60°	3003.5	95.9
0°-90°	3126.8	99.8
90°-120°	6.5	0.2
90°-150°	6.5	0.2
90°-180°	6.0	0.2
0°-180°	3133.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3321	
5°	3192	297
15°	2833	772
25°	1881	850
35°	914	589
45°	413	336
55°	173	160
65°	76	76
75°	35	37
85°	10	9
90°	3	2
95°	3	3
105°	3	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: P702220

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3321.0
1°	3302.1
2°	3270.6
3°	3251.7
4°	3223.4
5°	3191.9
6°	3141.4
7°	3091.0
8°	3053.2
9°	3037.5
10°	3002.8
11°	2949.2
12°	2924.0
13°	2911.4
14°	2886.2
15°	2832.7
16°	2760.2
17°	2662.5
18°	2552.2
19°	2435.6
20°	2338.0
21°	2252.9
22°	2167.8
23°	2079.6
24°	1988.2
25°	1881.1
27.5°	1610.1
30°	1345.4
32.5°	1096.5
35°	913.8
37.5°	781.4
40°	674.3
42.5°	538.8
45°	412.8
47.5°	330.8
50°	274.1
52.5°	223.7
55°	173.3
57.5°	132.3
60°	104.0
62.5°	88.2
65°	75.6
67.5°	63.0
70°	53.6
72.5°	44.1

TEST NUMBER: P702220

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-GCC

**CANDELA DISTRIBUTION (continued):**

	0°
75°	34.7
77.5°	25.2
80°	18.9
82.5°	12.6
85°	9.5
87.5°	6.3
90°	3.2
92.5°	3.2
95°	3.2
97.5°	3.2
100°	6.3
102.5°	3.2
105°	3.2
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)