

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: P702195

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702195
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)
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-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

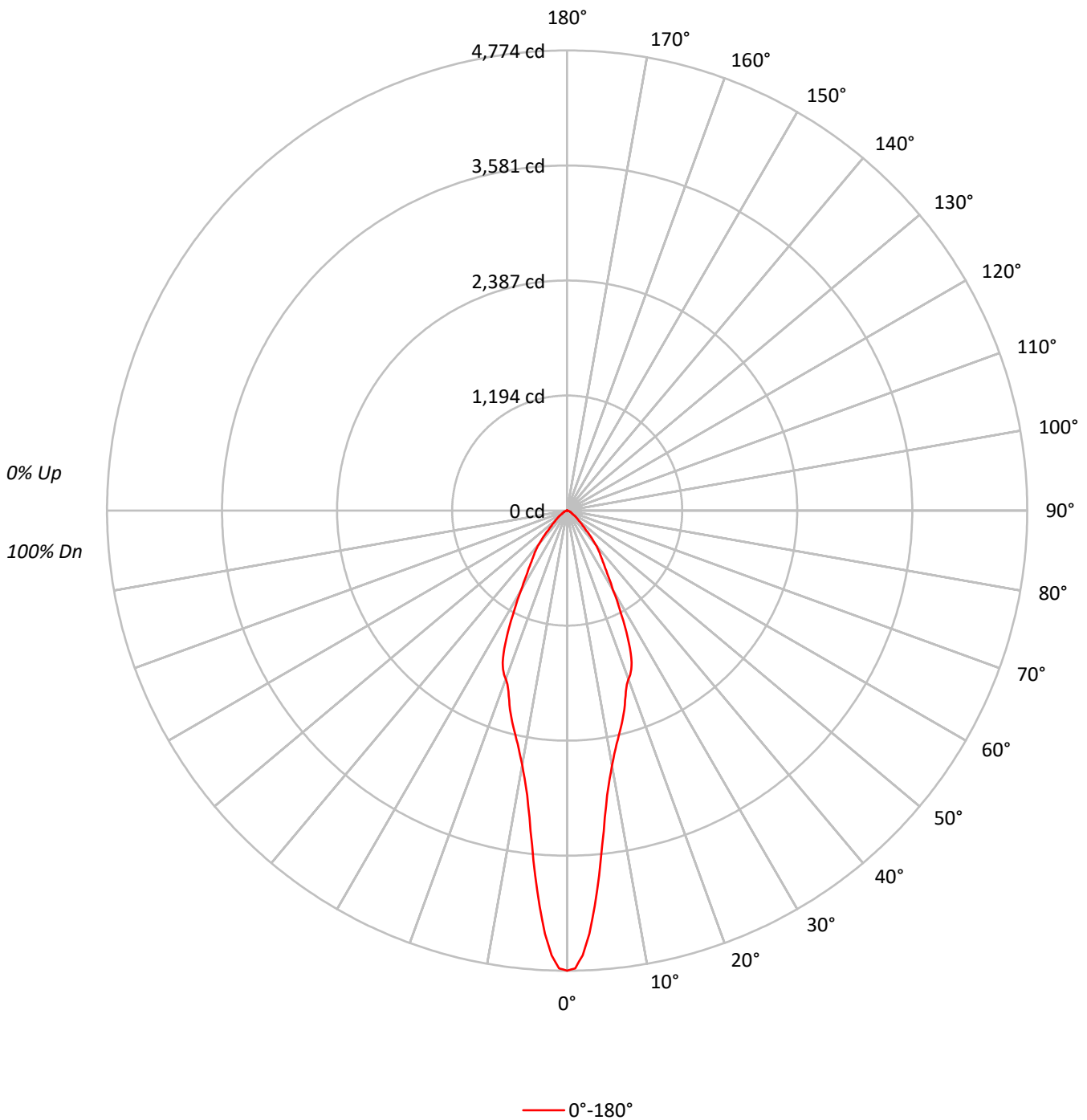
Lumens per Lamp: N/A
Luminaire Lumens: 2386.6 lumens
Efficiency: N/A
Efficacy: 50.8 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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: P702195

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

Luminous Intensity Polar Plot



TEST NUMBER: P702195

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

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	110	108	105	111	108	106	103	104	102	100	100	99	97	97	96	94	93				93
2	107	102	98	94	105	100	96	93	97	94	91	94	91	89	91	89	87	85				85
3	101	95	89	85	99	93	88	85	91	87	83	88	85	82	86	83	81	79				79
4	96	88	82	78	94	87	82	78	85	80	77	83	79	76	81	78	75	73				73
5	91	82	76	72	89	82	76	72	80	75	71	78	74	70	76	73	70	68				68
6	87	77	71	67	85	77	71	67	75	70	66	74	69	66	72	68	65	64				64
7	82	73	67	62	81	72	66	62	71	66	62	70	65	61	68	64	61	60				60
8	78	69	63	58	77	68	62	58	67	62	58	66	61	58	65	61	57	56				56
9	75	65	59	55	74	64	59	55	63	58	55	63	58	54	62	57	54	53				53
10	71	62	56	52	70	61	55	52	60	55	52	59	55	51	59	54	51	50				50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	553657
5°	442233
10°	316089
15°	267971
20°	229709
25°	194443
30°	127792
35°	91184
40°	69646
45°	40957
50°	27030
55°	19675
60°	12805
65°	11554
70°	9800
75°	7080
80°	5277
85°	3460

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 40957 cd/sqm

TEST NUMBER: P702195

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.9	13.5
10°-20°	620.6	26.0
20°-30°	670.3	28.1
30°-40°	414.1	17.3
40°-50°	207.4	8.7
50°-60°	87.0	3.6
60°-70°	40.9	1.7
70°-80°	18.0	0.8
80°-90°	3.9	0.2
90°-100°	0.4	0.0
100°-110°	1.0	0.0
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°	1613.9	67.6
0°-40°	2028.0	85.0
0°-60°	2322.4	97.3
0°-90°	2385.2	99.9
90°-120°	1.4	0.1
90°-150°	1.4	0.1
90°-180°	1.0	0.0
0°-180°	2386.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4774	
5°	3798	323
15°	2232	621
25°	1519	670
35°	644	414
45°	250	207
55°	97	87
65°	42	41
75°	16	18
85°	3	4
90°	0	0
95°	0	1
105°	0	1
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: P702195

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

CANDELA DISTRIBUTION (FULL):

0°	
0°	4773.6
1°	4750.0
2°	4615.9
3°	4395.1
4°	4108.6
5°	3798.4
6°	3488.2
7°	3207.0
8°	2983.5
9°	2815.3
10°	2683.9
11°	2570.8
12°	2473.6
13°	2389.5
14°	2313.2
15°	2231.7
16°	2150.2
17°	2058.2
18°	1974.1
19°	1905.8
20°	1861.1
21°	1824.3
22°	1777.0
23°	1711.3
24°	1621.9
25°	1519.4
27.5°	1222.3
30°	954.2
32.5°	770.2
35°	644.0
37.5°	552.0
40°	460.0
42.5°	344.4
45°	249.7
47.5°	189.3
50°	149.8
52.5°	123.5
55°	97.3
57.5°	68.3
60°	55.2
62.5°	47.3
65°	42.1
67.5°	34.2
70°	28.9
72.5°	21.0

TEST NUMBER: P702195

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

CANDELA DISTRIBUTION (continued):

	0°
75°	15.8
77.5°	13.1
80°	7.9
82.5°	5.3
85°	2.6
87.5°	2.6
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.6
102.5°	2.6
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)