

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: P702174

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702174
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-35-D010 / 340-EU4C-3040-9050-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

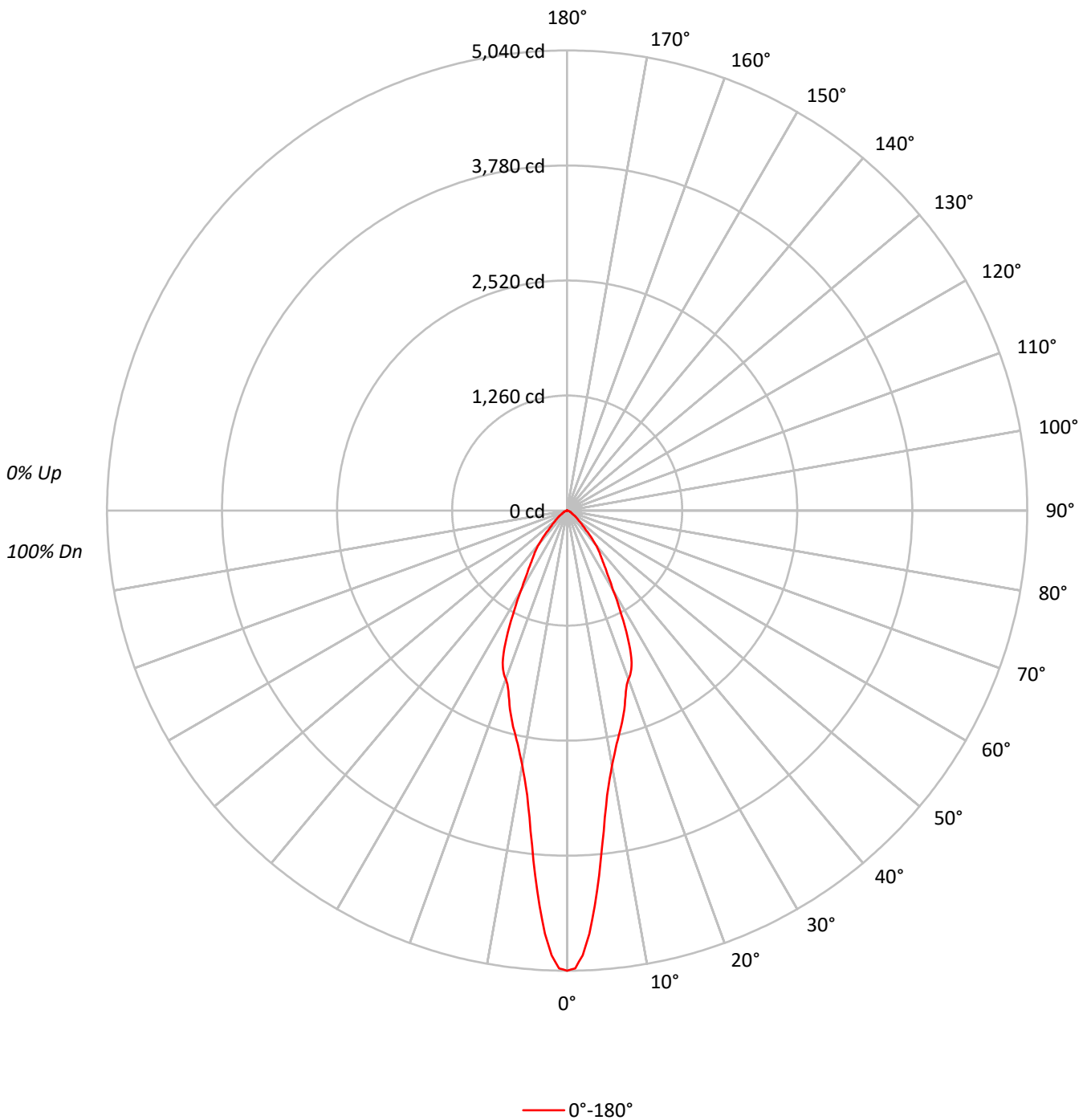
Lumens per Lamp: N/A
Luminaire Lumens: 2519.9 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 40.4
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: P702174

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

Luminous Intensity Polar Plot



TEST NUMBER: P702174

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-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°	584555
5°	466916
10°	333720
15°	282932
20°	242521
25°	205282
30°	134930
35°	96281
40°	73538
45°	43253
50°	28545
55°	20767
60°	13524
65°	12185
70°	10343
75°	7484
80°	5544
85°	3726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 43253 cd/sqm

TEST NUMBER: P702174

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.0	13.5
10°-20°	655.3	26.0
20°-30°	707.7	28.1
30°-40°	437.2	17.3
40°-50°	219.0	8.7
50°-60°	91.8	3.6
60°-70°	43.2	1.7
70°-80°	19.0	0.8
80°-90°	4.2	0.2
90°-100°	0.4	0.0
100°-110°	1.1	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°	1704.0	67.6
0°-40°	2141.1	85.0
0°-60°	2452.0	97.3
0°-90°	2518.4	99.9
90°-120°	1.5	0.1
90°-150°	1.5	0.1
90°-180°	2.0	0.1
0°-180°	2519.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5040	
5°	4010	341
15°	2356	655
25°	1604	708
35°	680	437
45°	264	219
55°	103	92
65°	44	43
75°	17	19
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	

TEST NUMBER: P702174

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

CANDELA DISTRIBUTION (FULL):

0°	
0°	5040.0
1°	5015.0
2°	4873.5
3°	4640.4
4°	4337.9
5°	4010.4
6°	3682.9
7°	3385.9
8°	3150.0
9°	2972.4
10°	2833.6
11°	2714.3
12°	2611.6
13°	2522.8
14°	2442.3
15°	2356.3
16°	2270.2
17°	2173.1
18°	2084.3
19°	2012.1
20°	1964.9
21°	1926.1
22°	1876.1
23°	1806.7
24°	1712.4
25°	1604.1
27.5°	1290.5
30°	1007.5
32.5°	813.2
35°	680.0
37.5°	582.8
40°	485.7
42.5°	363.6
45°	263.7
47.5°	199.8
50°	158.2
52.5°	130.4
55°	102.7
57.5°	72.2
60°	58.3
62.5°	50.0
65°	44.4
67.5°	36.1
70°	30.5
72.5°	22.2

TEST NUMBER: P702174

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

CANDELA DISTRIBUTION (continued):

	0°
75°	16.7
77.5°	13.9
80°	8.3
82.5°	5.6
85°	2.8
87.5°	2.8
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.8
102.5°	2.8
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)