

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: P702230

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702230
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-3040-9050-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

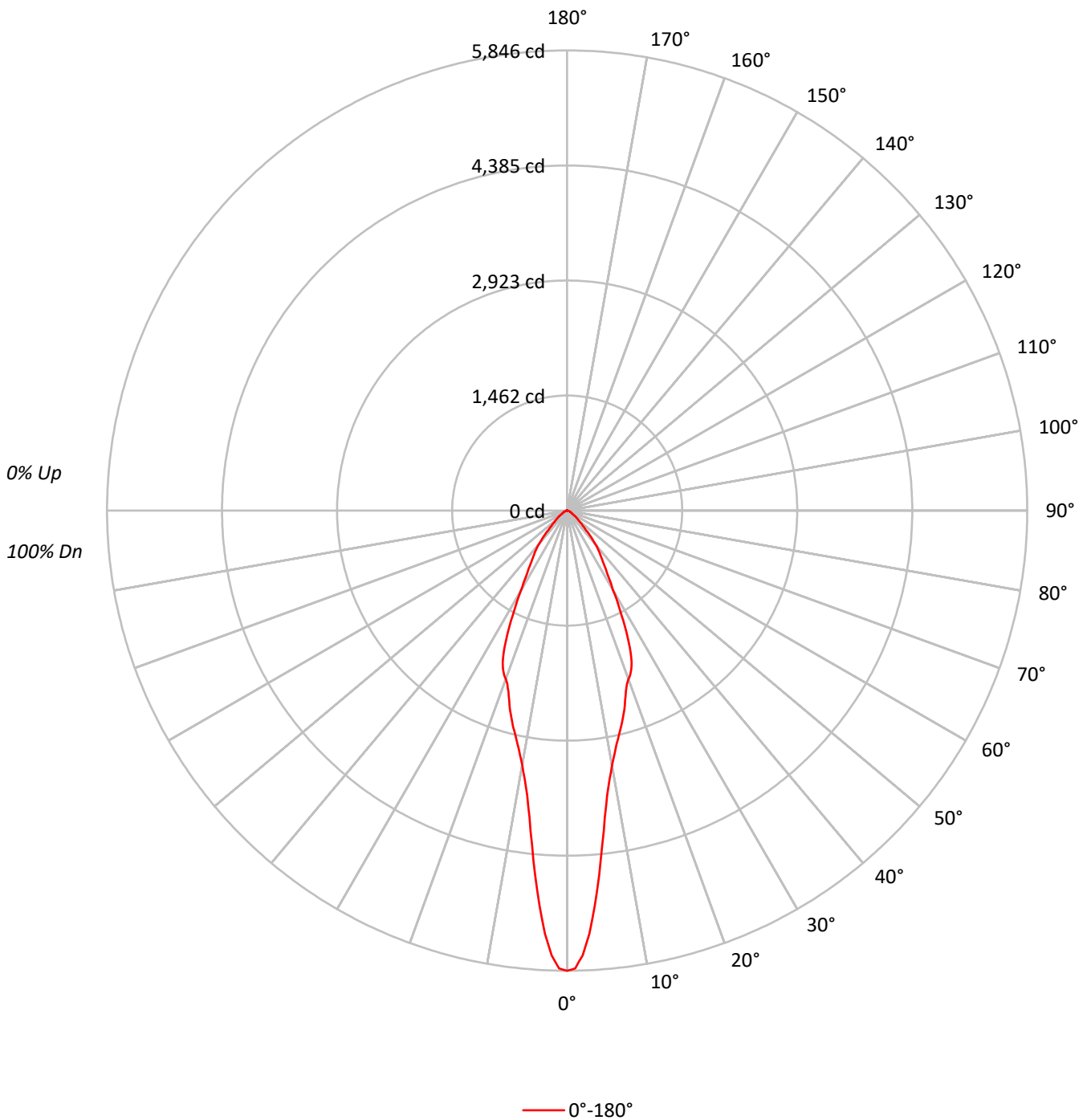
Lumens per Lamp: N/A
Luminaire Lumens: 2923.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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: P702230

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

Luminous Intensity Polar Plot



TEST NUMBER: P702230

CATALOG NUMBER: 340-4C-40-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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	82	76	72	80	75	71		78	74	70		76	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65	61	57	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	52		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	678084
5°	541615
10°	387118
15°	328200
20°	281326
25°	238133
30°	156506
35°	111671
40°	85302
45°	50159
50°	33110
55°	24083
60°	15681
65°	14134
70°	12005
75°	8649
80°	6479
85°	4258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 50159 cd/sqm

TEST NUMBER: P702230

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	395.5	13.5
10°-20°	760.1	26.0
20°-30°	821.0	28.1
30°-40°	507.1	17.3
40°-50°	254.0	8.7
50°-60°	106.5	3.6
60°-70°	50.1	1.7
70°-80°	22.1	0.8
80°-90°	4.8	0.2
90°-100°	0.4	0.0
100°-110°	1.3	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°	1976.6	67.6
0°-40°	2483.7	85.0
0°-60°	2844.2	97.3
0°-90°	2921.2	99.9
90°-120°	1.7	0.1
90°-150°	1.7	0.1
90°-180°	2.0	0.1
0°-180°	2923.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5846	
5°	4652	396
15°	2733	760
25°	1861	821
35°	789	507
45°	306	254
55°	119	107
65°	52	50
75°	19	22
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: P702230

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

CANDELA DISTRIBUTION (FULL):

0°	
0°	5846.4
1°	5817.4
2°	5653.2
3°	5382.8
4°	5031.9
5°	4652.0
6°	4272.1
7°	3927.6
8°	3654.0
9°	3448.0
10°	3287.0
11°	3148.6
12°	3029.4
13°	2926.4
14°	2833.1
15°	2733.3
16°	2633.5
17°	2520.8
18°	2417.8
19°	2334.1
20°	2279.3
21°	2234.3
22°	2176.3
23°	2095.8
24°	1986.4
25°	1860.8
27.5°	1497.0
30°	1168.6
32.5°	943.3
35°	788.7
37.5°	676.1
40°	563.4
42.5°	421.7
45°	305.8
47.5°	231.8
50°	183.5
52.5°	151.3
55°	119.1
57.5°	83.7
60°	67.6
62.5°	57.9
65°	51.5
67.5°	41.9
70°	35.4
72.5°	25.8

TEST NUMBER: P702230

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

CANDELA DISTRIBUTION (continued):

	0°
75°	19.3
77.5°	16.1
80°	9.7
82.5°	6.4
85°	3.2
87.5°	3.2
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	3.2
102.5°	3.2
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)