

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: P702028

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

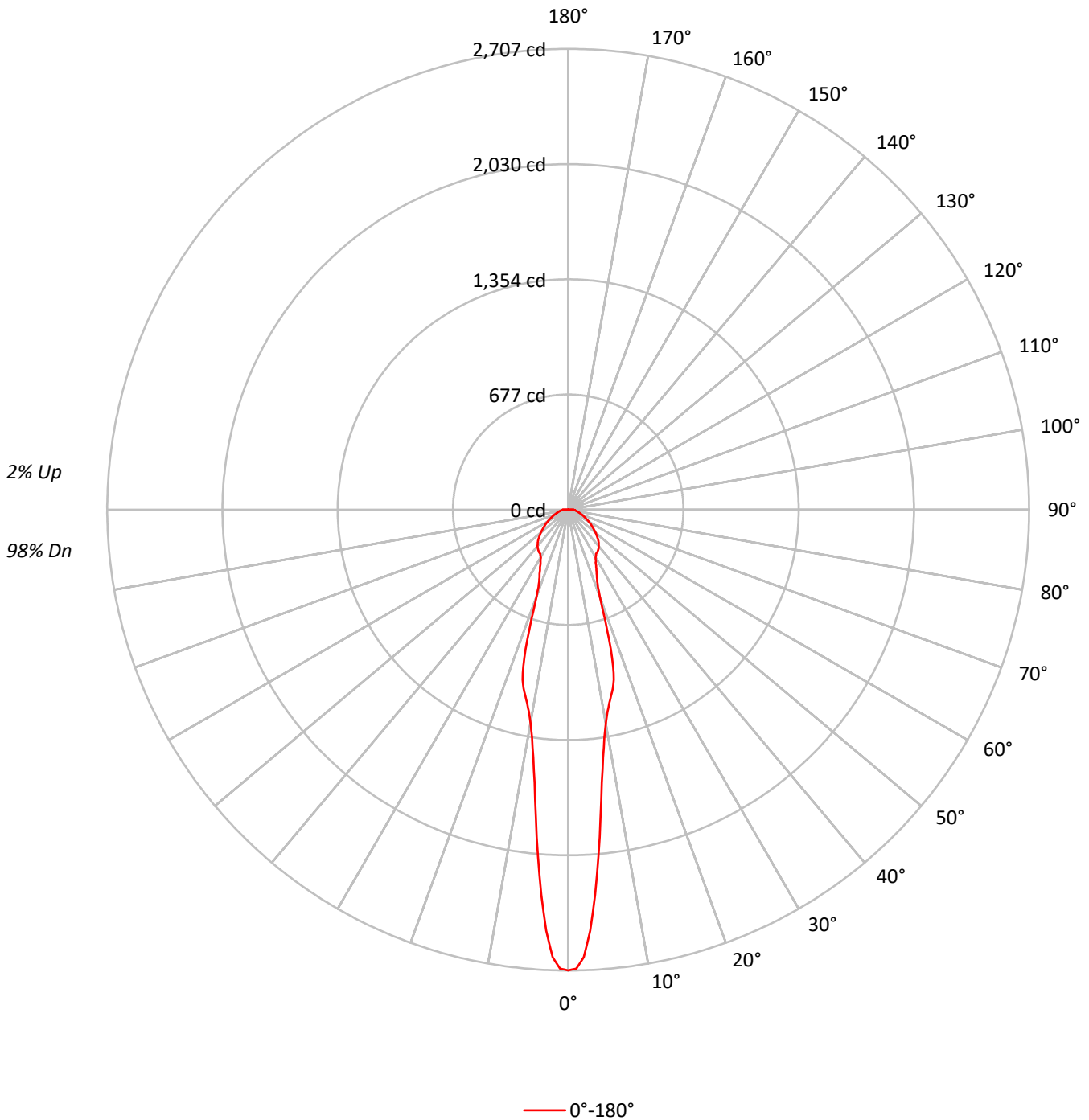
Lumens per Lamp: N/A
Luminaire Lumens: 1401.2 lumens
Efficiency: N/A
Efficacy: 44.5 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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: P702028

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CF

Luminous Intensity Polar Plot



TEST NUMBER: P702028

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CF

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	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	313920
5°	207180
10°	115249
15°	85355
20°	41196
25°	28050
30°	21805
35°	19478
40°	17473
45°	15122
50°	12504
55°	10144
60°	8189
65°	6482
70°	5095
75°	4099
80°	3293
85°	2667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15122 cd/sqm

TEST NUMBER: P702028

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	11.9
10°-20°	263.9	18.8
20°-30°	183.4	13.1
30°-40°	187.9	13.4
40°-50°	190.5	13.6
50°-60°	154.5	11.0
60°-70°	109.1	7.8
70°-80°	71.3	5.1
80°-90°	44.8	3.2
90°-100°	24.1	1.7
100°-110°	4.6	0.3
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°	614.4	43.9
0°-40°	802.3	57.3
0°-60°	1147.3	81.9
0°-90°	1372.5	98.0
90°-120°	28.7	2.0
90°-150°	28.7	2.0
90°-180°	29.0	2.1
0°-180°	1401.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2707	
5°	2044	167
15°	1034	264
25°	393	183
35°	301	188
45°	249	190
55°	172	154
65°	110	109
75°	67	71
85°	41	36
90°	31	17
95°	23	16
105°	3	5
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: P702028

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CF

CANDELA DISTRIBUTION (FULL):

0°	
0°	2706.6
1°	2696.7
2°	2629.6
3°	2475.8
4°	2268.0
5°	2043.8
6°	1818.0
7°	1615.1
8°	1469.5
9°	1354.9
10°	1271.5
11°	1210.9
12°	1161.8
13°	1120.9
14°	1081.6
15°	1034.2
16°	958.9
17°	855.8
18°	738.0
19°	625.1
20°	540.0
21°	487.6
22°	453.3
23°	432.0
24°	412.4
25°	392.7
27.5°	350.2
30°	322.4
32.5°	306.0
35°	301.1
37.5°	291.3
40°	279.8
42.5°	265.1
45°	248.7
47.5°	229.1
50°	209.5
52.5°	189.8
55°	171.8
57.5°	155.5
60°	139.1
62.5°	122.7
65°	109.6
67.5°	96.5
70°	85.1
72.5°	75.3

TEST NUMBER: P702028

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-CF

CANDELA DISTRIBUTION (continued):

	0°
75°	67.1
77.5°	58.9
80°	52.4
82.5°	45.8
85°	40.9
87.5°	36.0
90°	31.1
92.5°	27.8
95°	22.9
97.5°	16.4
100°	11.5
102.5°	6.5
105°	3.3
107.5°	1.6
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)