

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: P702000

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702000
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-20-D010 / 340-EU4C-1020-9040-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

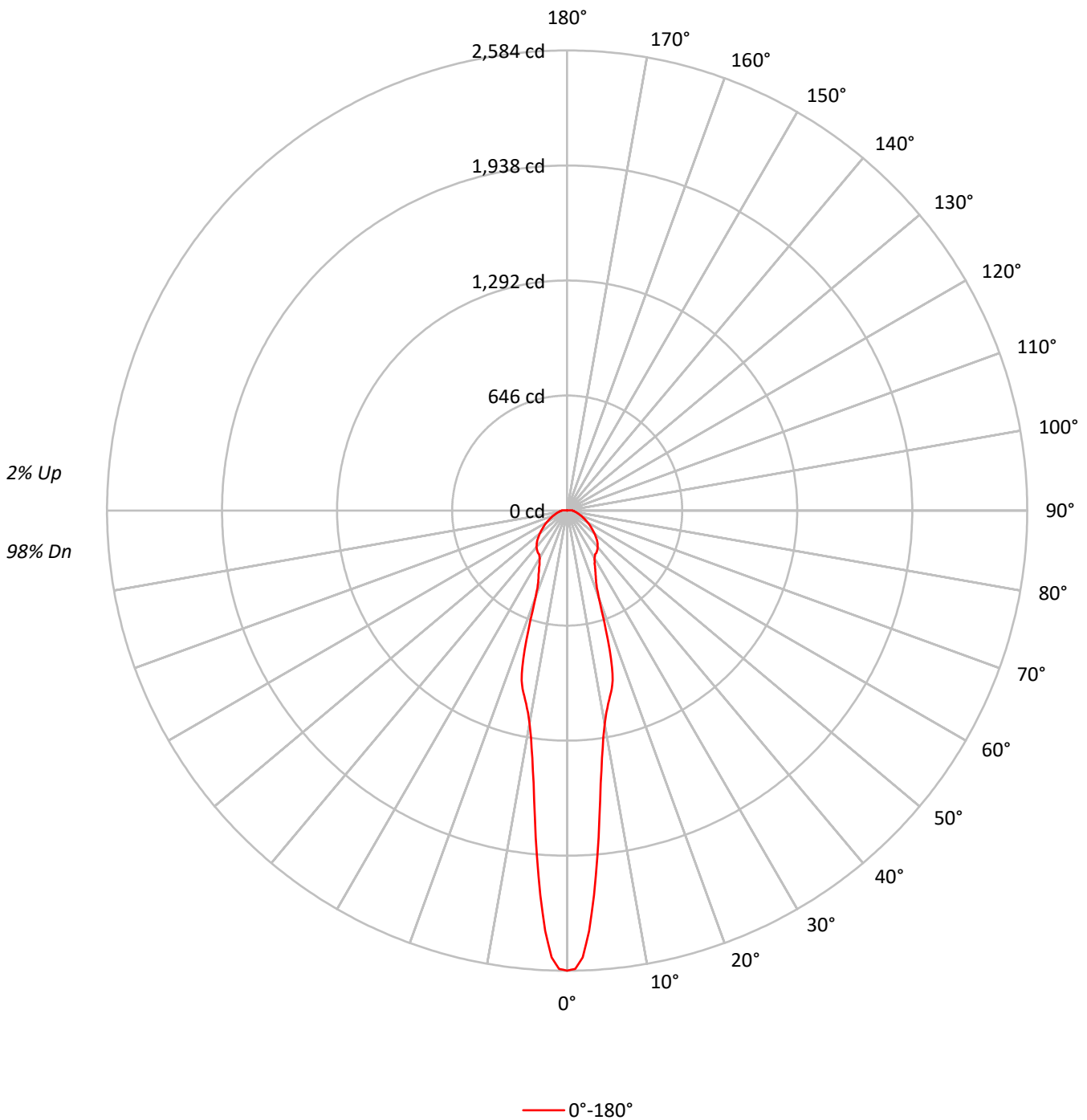
Lumens per Lamp: N/A
Luminaire Lumens: 1337.6 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 21.8
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: P702000

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-CF

Luminous Intensity Polar Plot



TEST NUMBER: P702000

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-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	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°	299654
5°	197773
10°	110010
15°	81476
20°	39327
25°	26779
30°	20811
35°	18592
40°	16680
45°	14435
50°	11931
55°	9684
60°	7818
65°	6192
70°	4861
75°	3910
80°	3142
85°	2550

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14435 cd/sqm

TEST NUMBER: P702000

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-CF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	11.9
10°-20°	251.9	18.8
20°-30°	175.0	13.1
30°-40°	179.4	13.4
40°-50°	181.8	13.6
50°-60°	147.4	11.0
60°-70°	104.2	7.8
70°-80°	68.0	5.1
80°-90°	42.8	3.2
90°-100°	23.0	1.7
100°-110°	4.4	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°	586.5	43.8
0°-40°	765.9	57.3
0°-60°	1095.1	81.9
0°-90°	1310.2	98.0
90°-120°	27.4	2.0
90°-150°	27.4	2.0
90°-180°	27.0	2.0
0°-180°	1337.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2584	
5°	1951	160
15°	987	252
25°	375	175
35°	287	179
45°	237	182
55°	164	147
65°	105	104
75°	64	68
85°	39	34
90°	30	16
95°	22	15
105°	3	4
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: P702000

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-CF

CANDELA DISTRIBUTION (FULL):

0°	
0°	2583.6
1°	2574.3
2°	2510.2
3°	2363.4
4°	2165.0
5°	1951.0
6°	1735.4
7°	1541.7
8°	1402.7
9°	1293.4
10°	1213.7
11°	1155.9
12°	1109.1
13°	1070.0
14°	1032.5
15°	987.2
16°	915.4
17°	817.0
18°	704.5
19°	596.7
20°	515.5
21°	465.5
22°	432.7
23°	412.4
24°	393.6
25°	374.9
27.5°	334.3
30°	307.7
32.5°	292.1
35°	287.4
37.5°	278.0
40°	267.1
42.5°	253.1
45°	237.4
47.5°	218.7
50°	199.9
52.5°	181.2
55°	164.0
57.5°	148.4
60°	132.8
62.5°	117.2
65°	104.7
67.5°	92.2
70°	81.2
72.5°	71.9

TEST NUMBER: P702000

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-CF

CANDELA DISTRIBUTION (continued):

	0°
75°	64.0
77.5°	56.2
80°	50.0
82.5°	43.7
85°	39.1
87.5°	34.4
90°	29.7
92.5°	26.6
95°	21.9
97.5°	15.6
100°	10.9
102.5°	6.2
105°	3.1
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)