

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: P701909

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9730-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701909
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-10-D010 / 340-EU4C-1020-9730-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

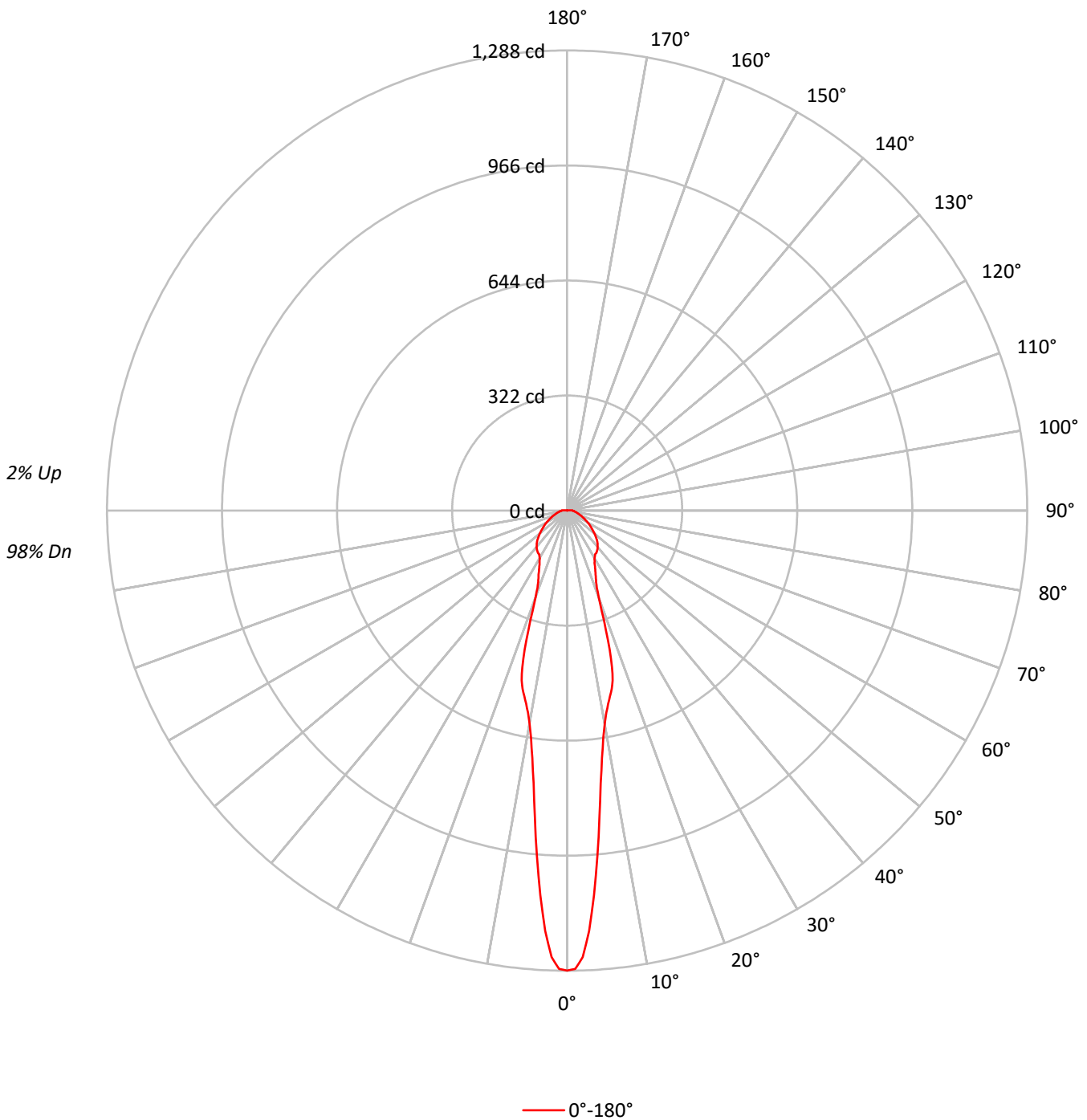
Lumens per Lamp: N/A
Luminaire Lumens: 666.6 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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: P701909

CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9730-4LBW1LI-CF

Luminous Intensity Polar Plot



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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°	149340
5°	98562
10°	54828
15°	40606
20°	19599
25°	13343
30°	10375
35°	9264
40°	8312
45°	7193
50°	5945
55°	4824
60°	3897
65°	3087
70°	2425
75°	1949
80°	1565
85°	1272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7193 cd/sqm

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CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9730-4LBW1LI-CF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	11.9
10°-20°	125.5	18.8
20°-30°	87.2	13.1
30°-40°	89.4	13.4
40°-50°	90.6	13.6
50°-60°	73.5	11.0
60°-70°	51.9	7.8
70°-80°	33.9	5.1
80°-90°	21.3	3.2
90°-100°	11.5	1.7
100°-110°	2.2	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°	292.3	43.9
0°-40°	381.7	57.3
0°-60°	545.8	81.9
0°-90°	652.9	98.0
90°-120°	13.7	2.0
90°-150°	13.7	2.0
90°-180°	14.0	2.1
0°-180°	666.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1288	
5°	972	80
15°	492	126
25°	187	87
35°	143	89
45°	118	91
55°	82	73
65°	52	52
75°	32	34
85°	20	17
90°	15	8
95°	11	8
105°	2	2
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: P701909

CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9730-4LBW1LI-CF

CANDELA DISTRIBUTION (FULL):

0°	
0°	1287.6
1°	1283.0
2°	1251.0
3°	1177.9
4°	1079.0
5°	972.3
6°	864.9
7°	768.4
8°	699.1
9°	644.6
10°	604.9
11°	576.1
12°	552.7
13°	533.3
14°	514.6
15°	492.0
16°	456.2
17°	407.2
18°	351.1
19°	297.4
20°	256.9
21°	232.0
22°	215.6
23°	205.5
24°	196.2
25°	186.8
27.5°	166.6
30°	153.4
32.5°	145.6
35°	143.2
37.5°	138.6
40°	133.1
42.5°	126.1
45°	118.3
47.5°	109.0
50°	99.6
52.5°	90.3
55°	81.7
57.5°	74.0
60°	66.2
62.5°	58.4
65°	52.2
67.5°	45.9
70°	40.5
72.5°	35.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	31.9
77.5°	28.0
80°	24.9
82.5°	21.8
85°	19.5
87.5°	17.1
90°	14.8
92.5°	13.2
95°	10.9
97.5°	7.8
100°	5.4
102.5°	3.1
105°	1.6
107.5°	0.8
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)