

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: P701895

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701895
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-1020-9050-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

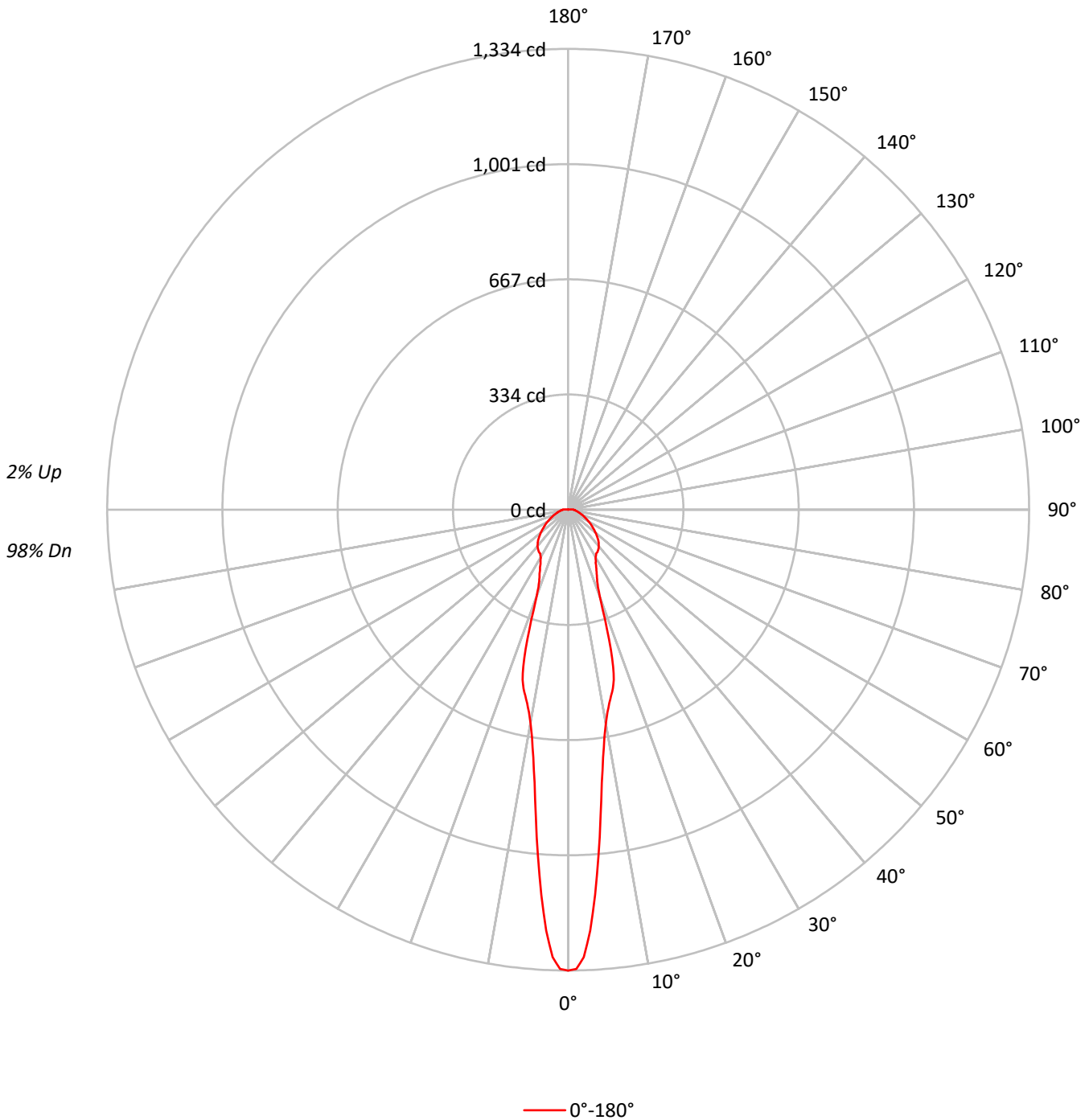
Lumens per Lamp: N/A
Luminaire Lumens: 690.7 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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: P701895

CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-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°	154756
5°	102130
10°	56813
15°	42075
20°	20308
25°	13829
30°	10747
35°	9600
40°	8612
45°	7454
50°	6165
55°	5001
60°	4038
65°	3193
70°	2509
75°	2022
80°	1621
85°	1317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7454 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.4	11.9
10°-20°	130.1	18.8
20°-30°	90.4	13.1
30°-40°	92.6	13.4
40°-50°	93.9	13.6
50°-60°	76.2	11.0
60°-70°	53.8	7.8
70°-80°	35.1	5.1
80°-90°	22.1	3.2
90°-100°	11.9	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°	302.9	43.9
0°-40°	395.5	57.3
0°-60°	565.5	81.9
0°-90°	676.5	98.0
90°-120°	14.1	2.0
90°-150°	14.1	2.0
90°-180°	14.0	2.0
0°-180°	690.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1334	
5°	1008	82
15°	510	130
25°	194	90
35°	148	93
45°	123	94
55°	85	76
65°	54	54
75°	33	35
85°	20	18
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1334.3
1°	1329.4
2°	1296.3
3°	1220.5
4°	1118.1
5°	1007.5
6°	896.2
7°	796.2
8°	724.4
9°	667.9
10°	626.8
11°	596.9
12°	572.7
13°	552.6
14°	533.2
15°	509.8
16°	472.7
17°	421.9
18°	363.8
19°	308.2
20°	266.2
21°	240.4
22°	223.5
23°	213.0
24°	203.3
25°	193.6
27.5°	172.6
30°	158.9
32.5°	150.8
35°	148.4
37.5°	143.6
40°	137.9
42.5°	130.7
45°	122.6
47.5°	112.9
50°	103.3
52.5°	93.6
55°	84.7
57.5°	76.6
60°	68.6
62.5°	60.5
65°	54.0
67.5°	47.6
70°	41.9
72.5°	37.1

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CATALOG NUMBER: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-CF

CANDELA DISTRIBUTION (continued):

	0°
75°	33.1
77.5°	29.0
80°	25.8
82.5°	22.6
85°	20.2
87.5°	17.7
90°	15.3
92.5°	13.7
95°	11.3
97.5°	8.1
100°	5.6
102.5°	3.2
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)