

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: P701867

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9027-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701867
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-1020-9027-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

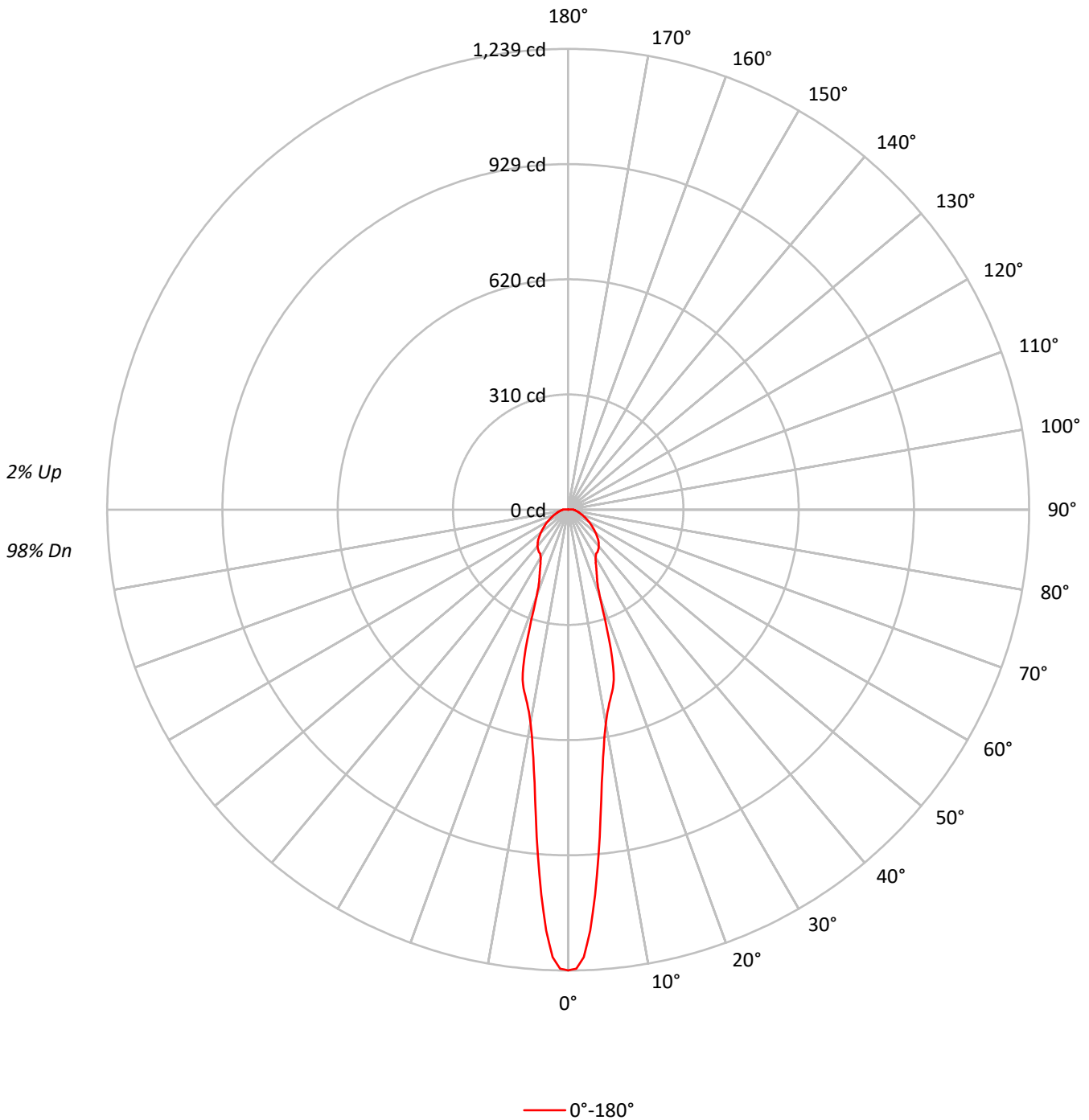
Lumens per Lamp: N/A
Luminaire Lumens: 641.2 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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

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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°	143668
5°	94822
10°	52743
15°	39062
20°	18851
25°	12836
30°	9976
35°	8914
40°	8000
45°	6919
50°	5724
55°	4641
60°	3750
65°	2969
70°	2329
75°	1875
80°	1508
85°	1220

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	11.9
10°-20°	120.8	18.8
20°-30°	83.9	13.1
30°-40°	86.0	13.4
40°-50°	87.1	13.6
50°-60°	70.7	11.0
60°-70°	49.9	7.8
70°-80°	32.6	5.1
80°-90°	20.5	3.2
90°-100°	11.0	1.7
100°-110°	2.1	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°	281.2	43.9
0°-40°	367.2	57.3
0°-60°	525.0	81.9
0°-90°	628.1	98.0
90°-120°	13.1	2.0
90°-150°	13.1	2.0
90°-180°	13.0	2.0
0°-180°	641.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1239	
5°	935	77
15°	473	121
25°	180	84
35°	138	86
45°	114	87
55°	79	71
65°	50	50
75°	31	33
85°	19	16
90°	14	8
95°	10	7
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

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1238.7
1°	1234.2
2°	1203.5
3°	1133.1
4°	1038.0
5°	935.4
6°	832.0
7°	739.2
8°	672.5
9°	620.1
10°	581.9
11°	554.2
12°	531.7
13°	513.0
14°	495.0
15°	473.3
16°	438.9
17°	391.7
18°	337.8
19°	286.1
20°	247.1
21°	223.2
22°	207.4
23°	197.7
24°	188.7
25°	179.7
27.5°	160.3
30°	147.5
32.5°	140.0
35°	137.8
37.5°	133.3
40°	128.1
42.5°	121.3
45°	113.8
47.5°	104.8
50°	95.9
52.5°	86.9
55°	78.6
57.5°	71.1
60°	63.7
62.5°	56.2
65°	50.2
67.5°	44.2
70°	38.9
72.5°	34.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	30.7
77.5°	27.0
80°	24.0
82.5°	21.0
85°	18.7
87.5°	16.5
90°	14.2
92.5°	12.7
95°	10.5
97.5°	7.5
100°	5.2
102.5°	3.0
105°	1.5
107.5°	0.7
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)