

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: P702070

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9727-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702070
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-3040-9727-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

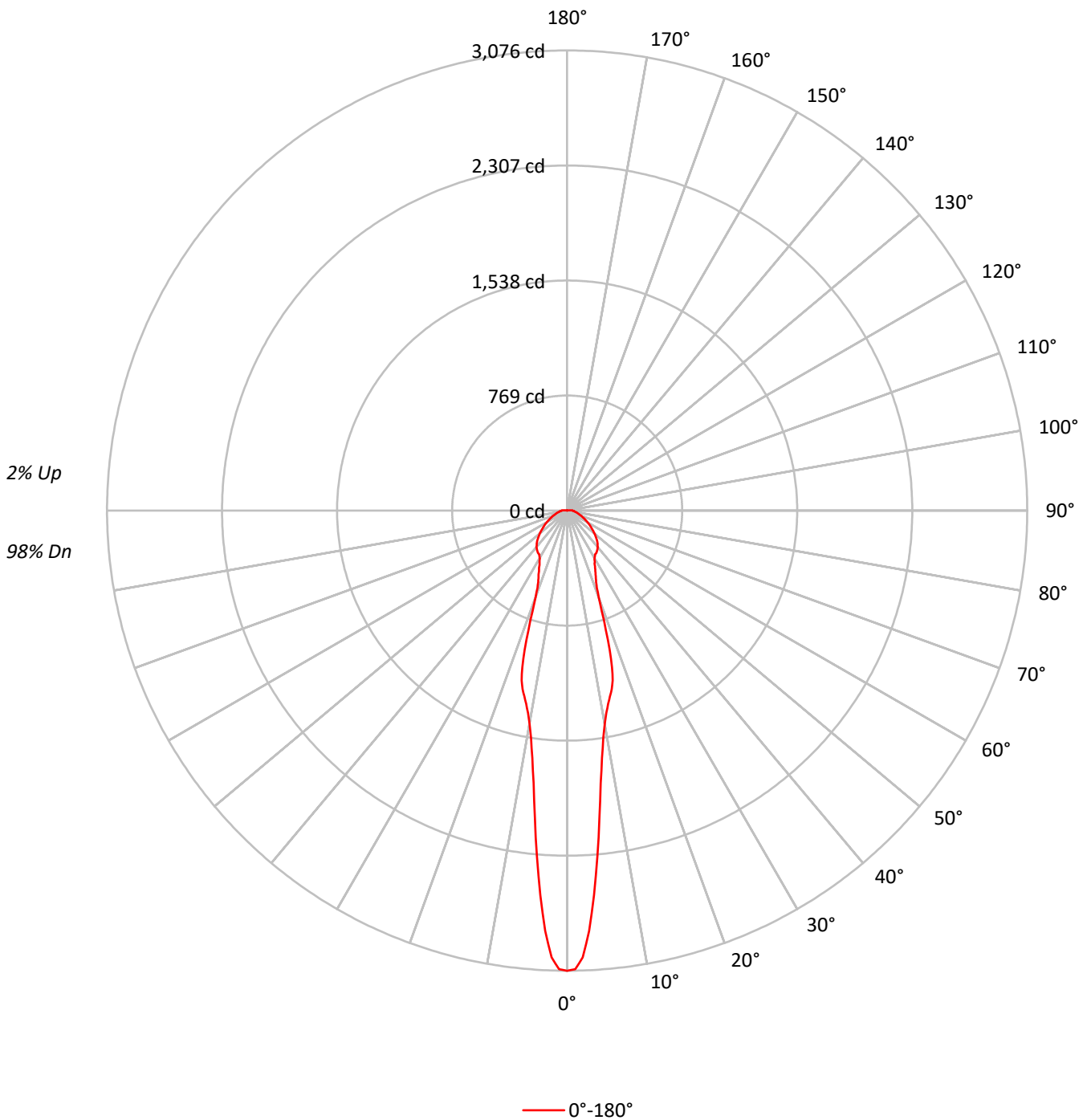
Lumens per Lamp: N/A
Luminaire Lumens: 1592.7 lumens
Efficiency: N/A
Efficacy: 50.6 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

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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°	356822
5°	235503
10°	131002
15°	97025
20°	46826
25°	31886
30°	24781
35°	22137
40°	19865
45°	17189
50°	14211
55°	11532
60°	9307
65°	7369
70°	5789
75°	4661
80°	3739
85°	3033

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.1	11.9
10°-20°	299.9	18.8
20°-30°	208.4	13.1
30°-40°	213.6	13.4
40°-50°	216.5	13.6
50°-60°	175.6	11.0
60°-70°	124.0	7.8
70°-80°	81.1	5.1
80°-90°	50.9	3.2
90°-100°	27.4	1.7
100°-110°	5.2	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°	698.4	43.9
0°-40°	912.0	57.3
0°-60°	1304.1	81.9
0°-90°	1560.1	98.0
90°-120°	32.6	2.0
90°-150°	32.6	2.0
90°-180°	33.0	2.1
0°-180°	1592.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3076	
5°	2323	190
15°	1176	300
25°	446	208
35°	342	214
45°	283	216
55°	195	176
65°	125	124
75°	76	81
85°	46	41
90°	35	20
95°	26	18
105°	4	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

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CANDELA DISTRIBUTION (FULL):

0°	
0°	3076.5
1°	3065.4
2°	2989.1
3°	2814.3
4°	2578.0
5°	2323.2
6°	2066.5
7°	1835.9
8°	1670.3
9°	1540.1
10°	1445.3
11°	1376.4
12°	1320.6
13°	1274.1
14°	1229.5
15°	1175.6
16°	1090.0
17°	972.8
18°	838.9
19°	710.5
20°	613.8
21°	554.3
22°	515.2
23°	491.1
24°	468.7
25°	446.4
27.5°	398.1
30°	366.4
32.5°	347.8
35°	342.2
37.5°	331.1
40°	318.1
42.5°	301.3
45°	282.7
47.5°	260.4
50°	238.1
52.5°	215.8
55°	195.3
57.5°	176.7
60°	158.1
62.5°	139.5
65°	124.6
67.5°	109.7
70°	96.7
72.5°	85.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	76.3
77.5°	67.0
80°	59.5
82.5°	52.1
85°	46.5
87.5°	40.9
90°	35.3
92.5°	31.6
95°	26.0
97.5°	18.6
100°	13.0
102.5°	7.4
105°	3.7
107.5°	1.9
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)