

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: P702091

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9027-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702091
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-30-D010 / 340-EU4C-3040-9027-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

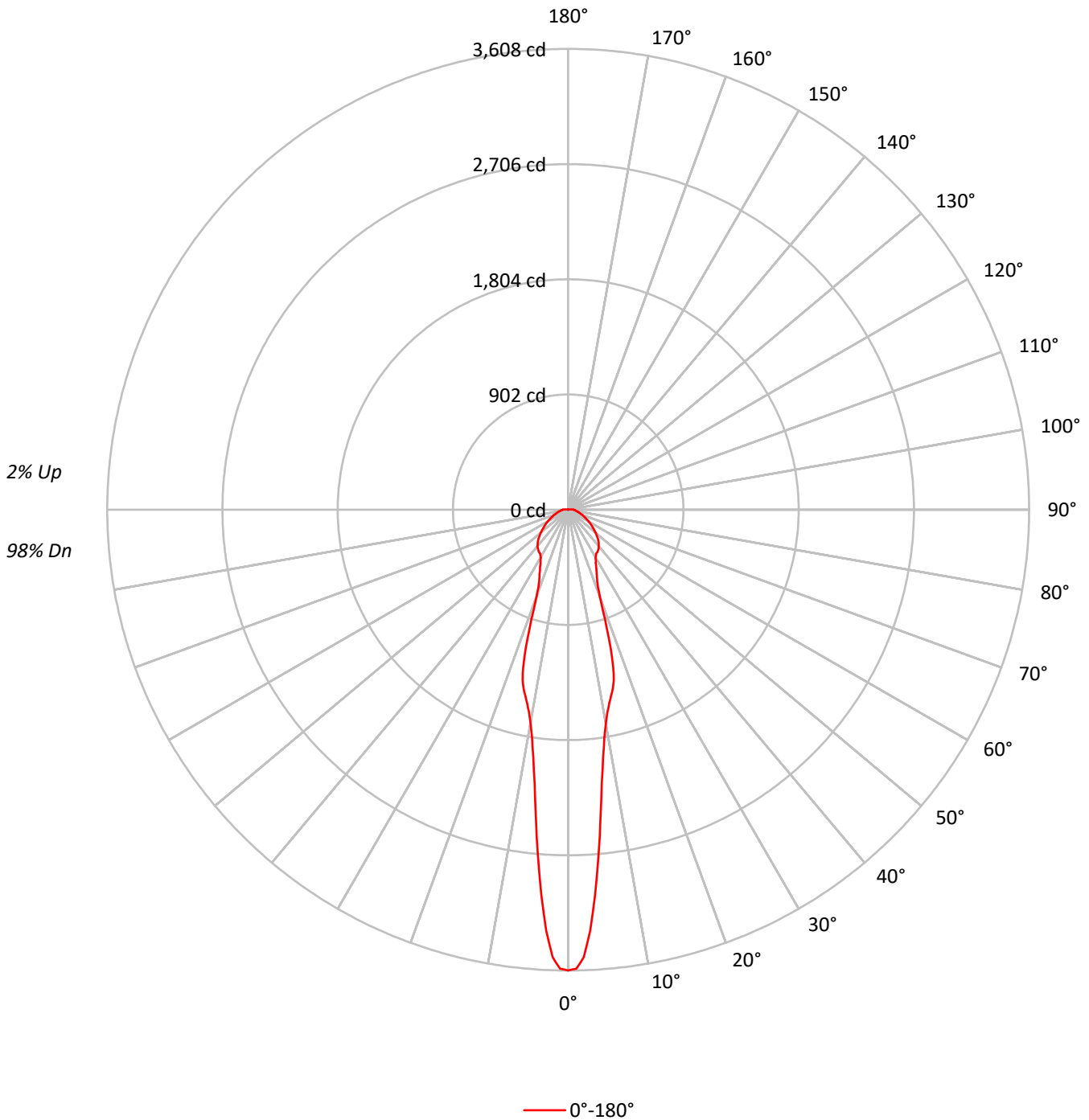
Lumens per Lamp: N/A
Luminaire Lumens: 1867.6 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
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°	418421
5°	276153
10°	153608
15°	113770
20°	54912
25°	37393
30°	29063
35°	25960
40°	23293
45°	20156
50°	16664
55°	13522
60°	10914
65°	8640
70°	6789
75°	5461
80°	4387
85°	3554

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20156 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.9	11.9
10°-20°	351.7	18.8
20°-30°	244.4	13.1
30°-40°	250.5	13.4
40°-50°	253.9	13.6
50°-60°	205.9	11.0
60°-70°	145.4	7.8
70°-80°	95.0	5.1
80°-90°	59.8	3.2
90°-100°	32.2	1.7
100°-110°	6.1	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°	819.0	43.9
0°-40°	1069.4	57.3
0°-60°	1529.2	81.9
0°-90°	1829.3	98.0
90°-120°	38.3	2.0
90°-150°	38.3	2.0
90°-180°	38.0	2.0
0°-180°	1867.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3608	
5°	2724	223
15°	1378	352
25°	524	244
35°	401	250
45°	332	254
55°	229	206
65°	146	145
75°	89	95
85°	54	48
90°	41	23
95°	30	21
105°	4	6
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°	3607.6
1°	3594.5
2°	3505.1
3°	3300.0
4°	3023.0
5°	2724.2
6°	2423.2
7°	2152.8
8°	1958.6
9°	1806.0
10°	1694.7
11°	1614.0
12°	1548.6
13°	1494.1
14°	1441.7
15°	1378.5
16°	1278.1
17°	1140.7
18°	983.7
19°	833.2
20°	719.8
21°	650.0
22°	604.2
23°	575.8
24°	549.6
25°	523.5
27.5°	466.8
30°	429.7
32.5°	407.9
35°	401.3
37.5°	388.2
40°	373.0
42.5°	353.3
45°	331.5
47.5°	305.4
50°	279.2
52.5°	253.0
55°	229.0
57.5°	207.2
60°	185.4
62.5°	163.6
65°	146.1
67.5°	128.7
70°	113.4
72.5°	100.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	89.4
77.5°	78.5
80°	69.8
82.5°	61.1
85°	54.5
87.5°	48.0
90°	41.4
92.5°	37.1
95°	30.5
97.5°	21.8
100°	15.3
102.5°	8.7
105°	4.4
107.5°	2.2
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)