

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: P702196

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702196
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-40-D010 / 340-EU4C-3040-9024-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

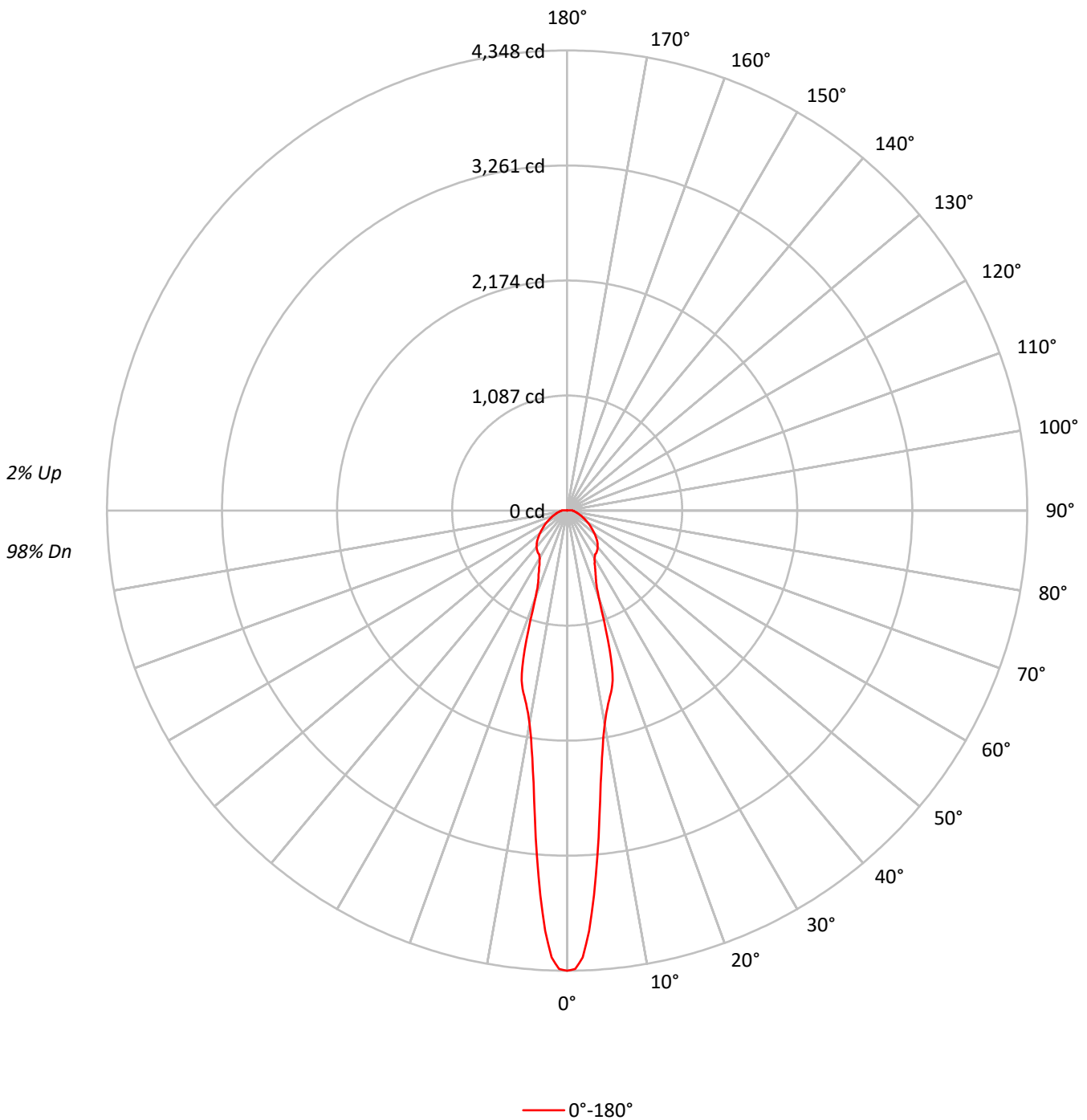
Lumens per Lamp: N/A
Luminaire Lumens: 2250.8 lumens
Efficiency: N/A
Efficacy: 47.9 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 47
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°	504272
5°	332819
10°	185132
15°	137111
20°	66180
25°	45064
30°	35021
35°	31291
40°	28070
45°	24297
50°	20084
55°	16297
60°	13151
65°	10414
70°	8184
75°	6585
80°	5285
85°	4285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24297 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.6	11.9
10°-20°	423.9	18.8
20°-30°	294.5	13.1
30°-40°	301.9	13.4
40°-50°	305.9	13.6
50°-60°	248.1	11.0
60°-70°	175.3	7.8
70°-80°	114.5	5.1
80°-90°	72.0	3.2
90°-100°	38.8	1.7
100°-110°	7.4	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°	987.0	43.9
0°-40°	1288.9	57.3
0°-60°	1842.9	81.9
0°-90°	2204.7	98.0
90°-120°	46.1	2.0
90°-150°	46.1	2.0
90°-180°	46.0	2.0
0°-180°	2250.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4348	
5°	3283	269
15°	1661	424
25°	631	295
35°	484	302
45°	400	306
55°	276	248
65°	176	175
75°	108	115
85°	66	57
90°	50	28
95°	37	26
105°	5	7
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°	4347.8
1°	4332.1
2°	4224.3
3°	3977.2
4°	3643.3
5°	3283.2
6°	2920.5
7°	2594.5
8°	2360.6
9°	2176.5
10°	2042.5
11°	1945.2
12°	1866.4
13°	1800.6
14°	1737.6
15°	1661.3
16°	1540.4
17°	1374.8
18°	1185.5
19°	1004.2
20°	867.5
21°	783.3
22°	728.1
23°	694.0
24°	662.4
25°	630.9
27.5°	562.5
30°	517.8
32.5°	491.6
35°	483.7
37.5°	467.9
40°	449.5
42.5°	425.8
45°	399.6
47.5°	368.0
50°	336.5
52.5°	304.9
55°	276.0
57.5°	249.7
60°	223.4
62.5°	197.2
65°	176.1
67.5°	155.1
70°	136.7
72.5°	120.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	107.8
77.5°	94.6
80°	84.1
82.5°	73.6
85°	65.7
87.5°	57.8
90°	49.9
92.5°	44.7
95°	36.8
97.5°	26.3
100°	18.4
102.5°	10.5
105°	5.3
107.5°	2.6
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)