

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: P702014

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9727-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702014
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-20-D010 / 340-EU4C-1020-9727-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

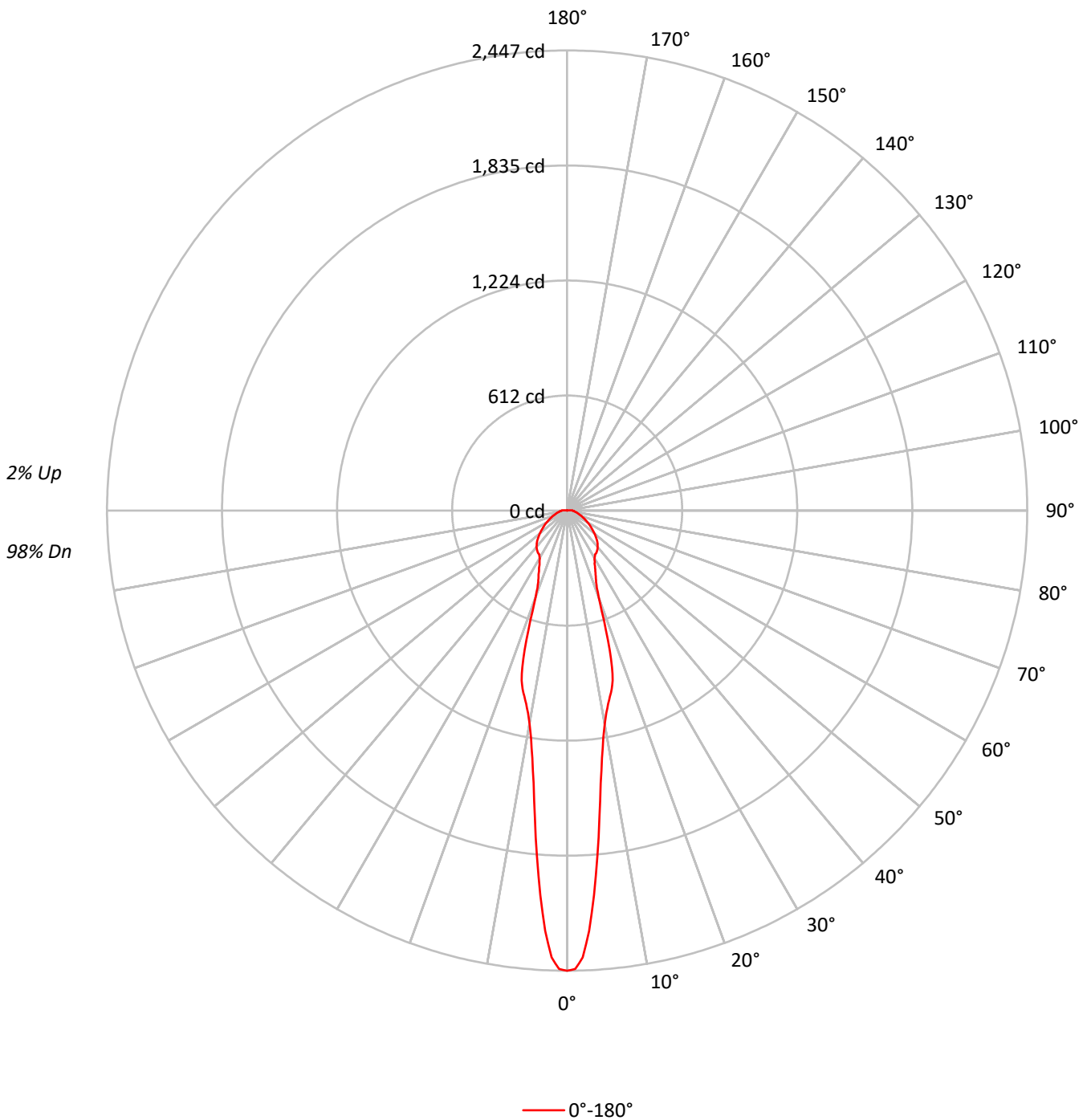
Lumens per Lamp: N/A
Luminaire Lumens: 1266.9 lumens
Efficiency: N/A
Efficacy: 58.1 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 21.8
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°	283811
5°	187312
10°	104191
15°	77167
20°	37244
25°	25364
30°	19715
35°	17609
40°	15799
45°	13675
50°	11304
55°	9170
60°	7406
65°	5861
70°	4604
75°	3708
80°	2973
85°	2413

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 13675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.2	11.9
10°-20°	238.5	18.8
20°-30°	165.8	13.1
30°-40°	169.9	13.4
40°-50°	172.2	13.6
50°-60°	139.6	11.0
60°-70°	98.6	7.8
70°-80°	64.5	5.1
80°-90°	40.5	3.2
90°-100°	21.8	1.7
100°-110°	4.2	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°	555.5	43.8
0°-40°	725.4	57.3
0°-60°	1037.2	81.9
0°-90°	1240.9	97.9
90°-120°	26.0	2.1
90°-150°	26.0	2.1
90°-180°	26.0	2.1
0°-180°	1266.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2447	
5°	1848	151
15°	935	239
25°	355	166
35°	272	170
45°	225	172
55°	155	140
65°	99	99
75°	61	64
85°	37	32
90°	28	16
95°	21	15
105°	3	4
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°	2447.0
1°	2438.1
2°	2377.5
3°	2238.4
4°	2050.5
5°	1847.8
6°	1643.7
7°	1460.2
8°	1328.5
9°	1225.0
10°	1149.5
11°	1094.8
12°	1050.4
13°	1013.4
14°	977.9
15°	935.0
16°	867.0
17°	773.7
18°	667.2
19°	565.1
20°	488.2
21°	440.9
22°	409.8
23°	390.6
24°	372.8
25°	355.1
27.5°	316.6
30°	291.5
32.5°	276.7
35°	272.2
37.5°	263.3
40°	253.0
42.5°	239.7
45°	224.9
47.5°	207.1
50°	189.4
52.5°	171.6
55°	155.3
57.5°	140.5
60°	125.8
62.5°	111.0
65°	99.1
67.5°	87.3
70°	76.9
72.5°	68.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	60.7
77.5°	53.3
80°	47.3
82.5°	41.4
85°	37.0
87.5°	32.5
90°	28.1
92.5°	25.2
95°	20.7
97.5°	14.8
100°	10.4
102.5°	5.9
105°	3.0
107.5°	1.5
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)