

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: P701811

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9027-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701811
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-08-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

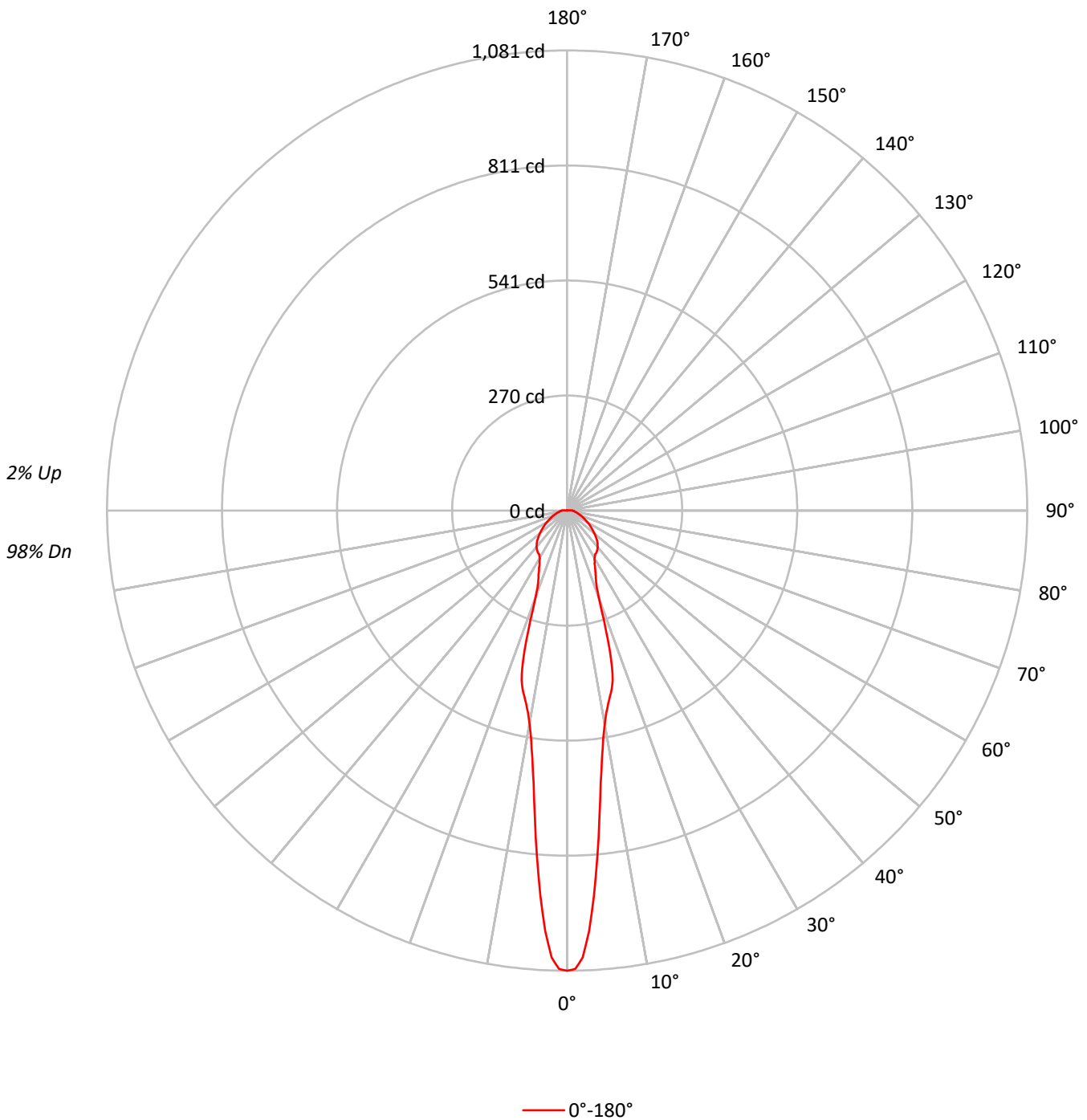
Lumens per Lamp: N/A
Luminaire Lumens: 559.6 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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°	125366
5°	82748
10°	46027
15°	34086
20°	16455
25°	11200
30°	8705
35°	7776
40°	6982
45°	6038
50°	4996
55°	4051
60°	3273
65°	2590
70°	2036
75°	1637
80°	1313
85°	1063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6038 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.8	11.9
10°-20°	105.4	18.8
20°-30°	73.2	13.1
30°-40°	75.0	13.4
40°-50°	76.1	13.6
50°-60°	61.7	11.0
60°-70°	43.6	7.8
70°-80°	28.5	5.1
80°-90°	17.9	3.2
90°-100°	9.6	1.7
100°-110°	1.8	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°	245.4	43.8
0°-40°	320.4	57.3
0°-60°	458.2	81.9
0°-90°	548.2	98.0
90°-120°	11.5	2.0
90°-150°	11.5	2.0
90°-180°	11.0	2.0
0°-180°	559.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1081	
5°	816	67
15°	413	105
25°	157	73
35°	120	75
45°	99	76
55°	69	62
65°	44	44
75°	27	28
85°	16	14
90°	12	7
95°	9	6
105°	1	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°	1080.9
1°	1077.0
2°	1050.2
3°	988.8
4°	905.8
5°	816.3
6°	726.1
7°	645.0
8°	586.9
9°	541.1
10°	507.8
11°	483.6
12°	464.0
13°	447.7
14°	432.0
15°	413.0
16°	383.0
17°	341.8
18°	294.7
19°	249.6
20°	215.7
21°	194.8
22°	181.0
23°	172.5
24°	164.7
25°	156.8
27.5°	139.9
30°	128.7
32.5°	122.2
35°	120.2
37.5°	116.3
40°	111.8
42.5°	105.9
45°	99.3
47.5°	91.5
50°	83.7
52.5°	75.8
55°	68.6
57.5°	62.1
60°	55.6
62.5°	49.0
65°	43.8
67.5°	38.6
70°	34.0
72.5°	30.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	26.8
77.5°	23.5
80°	20.9
82.5°	18.3
85°	16.3
87.5°	14.4
90°	12.4
92.5°	11.1
95°	9.1
97.5°	6.5
100°	4.6
102.5°	2.6
105°	1.3
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)