

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: P701888

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9040-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701888
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-10-D010 / 340-EU4C-1020-9040-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

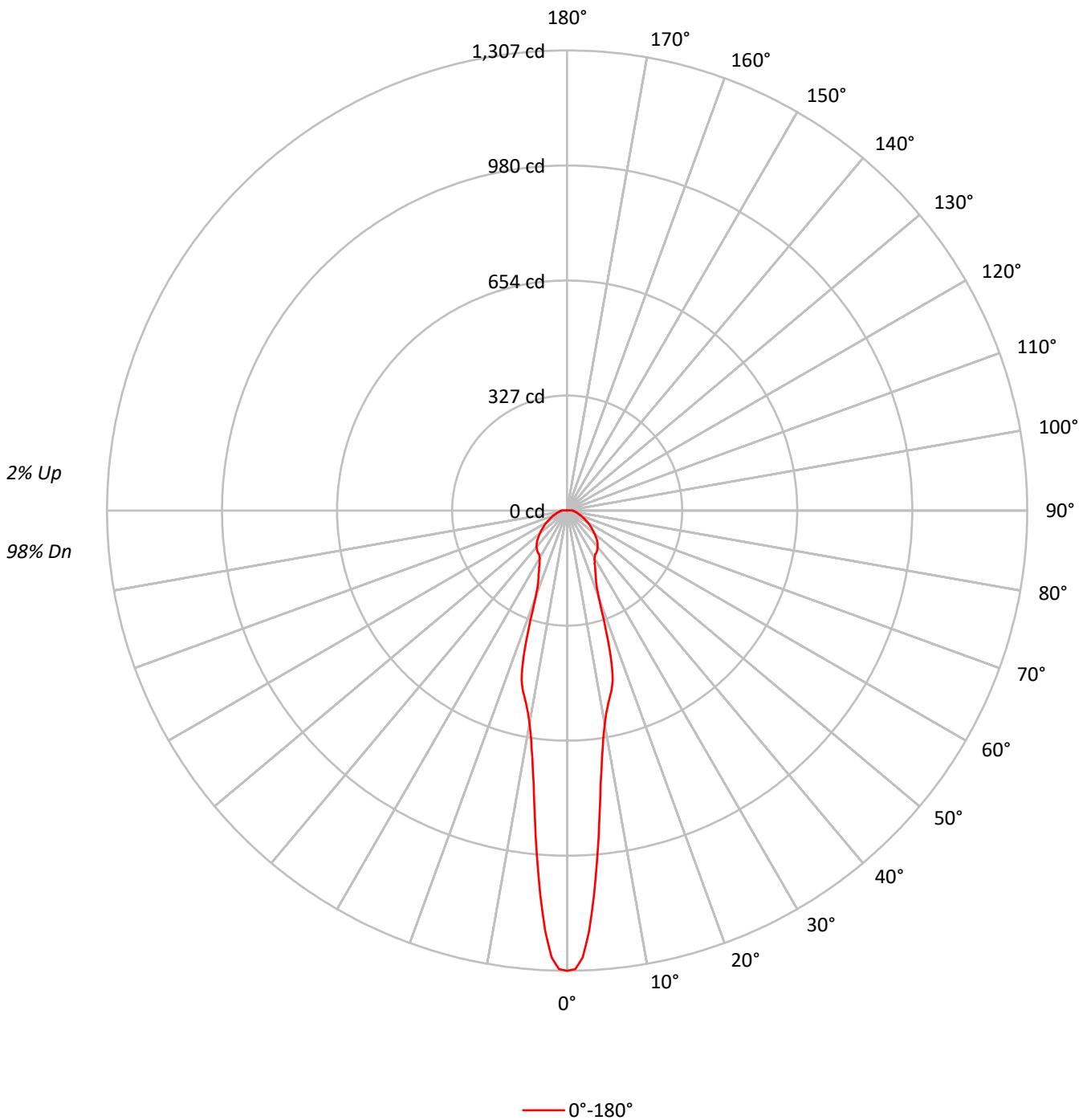
Lumens per Lamp: N/A
Luminaire Lumens: 676.8 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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°	151613
5°	100062
10°	55662
15°	41225
20°	19896
25°	13550
30°	10531
35°	9406
40°	8437
45°	7302
50°	6040
55°	4901
60°	3956
65°	3134
70°	2461
75°	1979
80°	1590
85°	1291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7302 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	11.9
10°-20°	127.4	18.8
20°-30°	88.6	13.1
30°-40°	90.8	13.4
40°-50°	92.0	13.6
50°-60°	74.6	11.0
60°-70°	52.7	7.8
70°-80°	34.5	5.1
80°-90°	21.7	3.2
90°-100°	11.6	1.7
100°-110°	2.2	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°	296.8	43.8
0°-40°	387.5	57.3
0°-60°	554.1	81.9
0°-90°	662.9	97.9
90°-120°	13.9	2.1
90°-150°	13.9	2.1
90°-180°	14.0	2.1
0°-180°	676.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1307	
5°	987	81
15°	500	127
25°	190	89
35°	145	91
45°	120	92
55°	83	75
65°	53	53
75°	32	34
85°	20	17
90°	15	8
95°	11	8
105°	2	2
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°	1307.2
1°	1302.5
2°	1270.1
3°	1195.8
4°	1095.4
5°	987.1
6°	878.1
7°	780.1
8°	709.7
9°	654.4
10°	614.1
11°	584.9
12°	561.1
13°	541.4
14°	522.4
15°	499.5
16°	463.1
17°	413.4
18°	356.4
19°	301.9
20°	260.8
21°	235.5
22°	218.9
23°	208.7
24°	199.2
25°	189.7
27.5°	169.1
30°	155.7
32.5°	147.8
35°	145.4
37.5°	140.7
40°	135.1
42.5°	128.0
45°	120.1
47.5°	110.6
50°	101.2
52.5°	91.7
55°	83.0
57.5°	75.1
60°	67.2
62.5°	59.3
65°	53.0
67.5°	46.6
70°	41.1
72.5°	36.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	32.4
77.5°	28.5
80°	25.3
82.5°	22.1
85°	19.8
87.5°	17.4
90°	15.0
92.5°	13.4
95°	11.1
97.5°	7.9
100°	5.5
102.5°	3.2
105°	1.6
107.5°	0.8
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)