

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: P701944

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701944
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-15-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

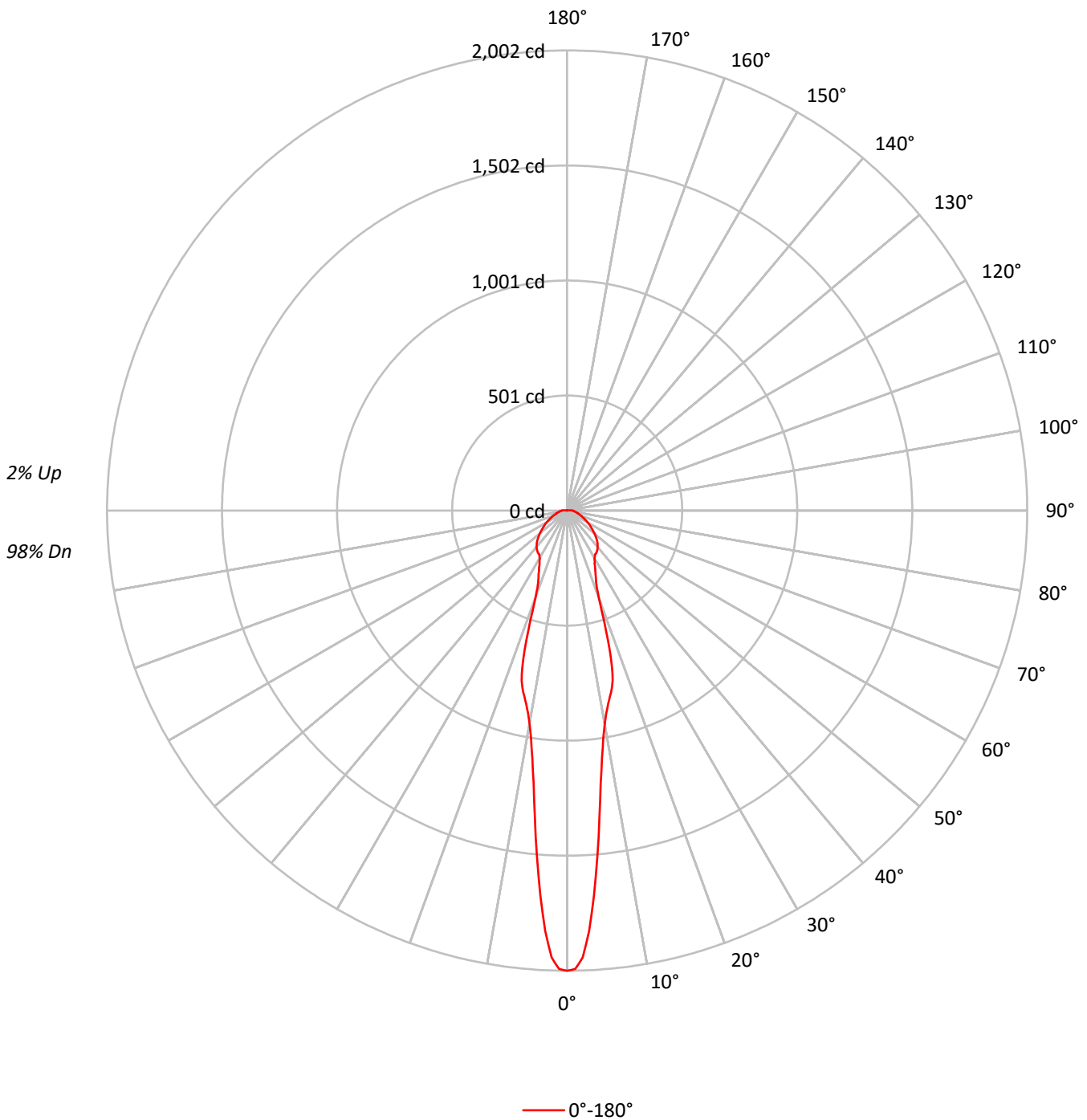
Lumens per Lamp: N/A
Luminaire Lumens: 1036.5 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 15.8
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°	232210
5°	153262
10°	85247
15°	63137
20°	30477
25°	20750
30°	16131
35°	14407
40°	12927
45°	11188
50°	9245
55°	7505
60°	6058
65°	4796
70°	3766
75°	3030
80°	2432
85°	1976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	11.9
10°-20°	195.2	18.8
20°-30°	135.6	13.1
30°-40°	139.0	13.4
40°-50°	140.9	13.6
50°-60°	114.3	11.0
60°-70°	80.7	7.8
70°-80°	52.7	5.1
80°-90°	33.2	3.2
90°-100°	17.8	1.7
100°-110°	3.4	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°	454.5	43.9
0°-40°	593.5	57.3
0°-60°	848.7	81.9
0°-90°	1015.3	98.0
90°-120°	21.2	2.0
90°-150°	21.2	2.0
90°-180°	21.0	2.0
0°-180°	1036.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2002	
5°	1512	124
15°	765	195
25°	290	136
35°	223	139
45°	184	141
55°	127	114
65°	81	81
75°	50	53
85°	30	26
90°	23	13
95°	17	12
105°	2	3
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°	2002.1
1°	1994.9
2°	1945.2
3°	1831.4
4°	1677.7
5°	1511.9
6°	1344.8
7°	1194.7
8°	1087.0
9°	1002.3
10°	940.5
11°	895.8
12°	859.4
13°	829.2
14°	800.1
15°	765.0
16°	709.3
17°	633.1
18°	545.9
19°	462.4
20°	399.5
21°	360.7
22°	335.3
23°	319.6
24°	305.0
25°	290.5
27.5°	259.0
30°	238.5
32.5°	226.4
35°	222.7
37.5°	215.5
40°	207.0
42.5°	196.1
45°	184.0
47.5°	169.5
50°	154.9
52.5°	140.4
55°	127.1
57.5°	115.0
60°	102.9
62.5°	90.8
65°	81.1
67.5°	71.4
70°	62.9
72.5°	55.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	49.6
77.5°	43.6
80°	38.7
82.5°	33.9
85°	30.3
87.5°	26.6
90°	23.0
92.5°	20.6
95°	16.9
97.5°	12.1
100°	8.5
102.5°	4.8
105°	2.4
107.5°	1.2
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)