

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: P701951

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9050-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701951
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-1020-9050-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

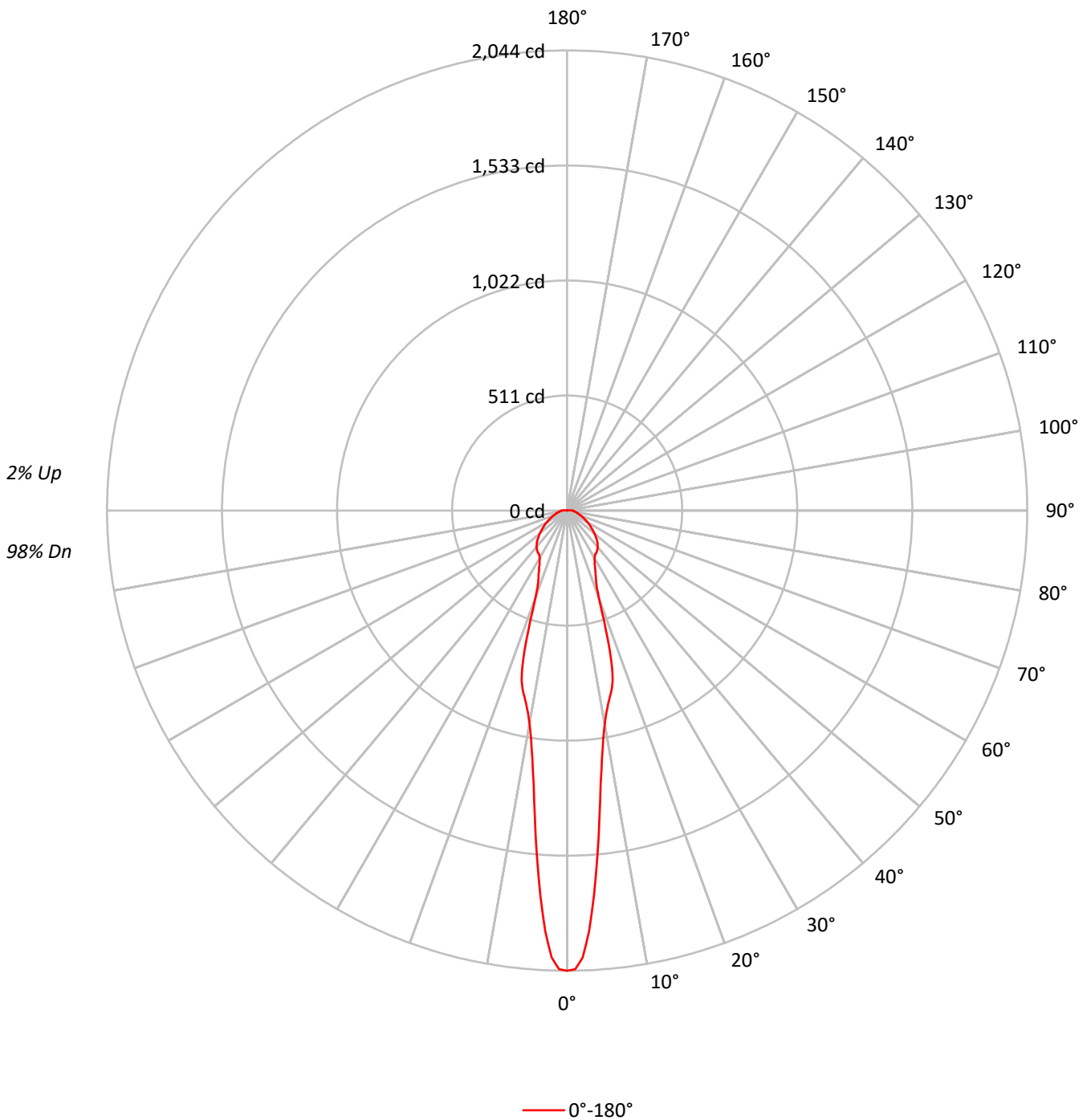
Lumens per Lamp: N/A
Luminaire Lumens: 1058.4 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	237104
5°	156485
10°	87042
15°	64466
20°	31118
25°	21186
30°	16469
35°	14711
40°	13195
45°	11425
50°	9442
55°	7664
60°	6187
65°	4897
70°	3850
75°	3097
80°	2489
85°	2015

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11425 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	11.9
10°-20°	199.3	18.8
20°-30°	138.5	13.1
30°-40°	141.9	13.4
40°-50°	143.8	13.6
50°-60°	116.7	11.0
60°-70°	82.4	7.8
70°-80°	53.9	5.1
80°-90°	33.9	3.2
90°-100°	18.2	1.7
100°-110°	3.5	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°	464.1	43.8
0°-40°	606.0	57.3
0°-60°	866.5	81.9
0°-90°	1036.7	97.9
90°-120°	21.7	2.1
90°-150°	21.7	2.1
90°-180°	22.0	2.1
0°-180°	1058.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2044	
5°	1544	126
15°	781	199
25°	297	138
35°	227	142
45°	188	144
55°	130	117
65°	83	82
75°	51	54
85°	31	27
90°	24	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	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2044.3
1°	2036.9
2°	1986.2
3°	1870.0
4°	1713.0
5°	1543.7
6°	1373.1
7°	1219.9
8°	1109.9
9°	1023.4
10°	960.3
11°	914.6
12°	877.5
13°	846.6
14°	817.0
15°	781.1
16°	724.3
17°	646.4
18°	557.4
19°	472.1
20°	407.9
21°	368.3
22°	342.4
23°	326.3
24°	311.5
25°	296.6
27.5°	264.5
30°	243.5
32.5°	231.1
35°	227.4
37.5°	220.0
40°	211.3
42.5°	200.2
45°	187.9
47.5°	173.0
50°	158.2
52.5°	143.4
55°	129.8
57.5°	117.4
60°	105.1
62.5°	92.7
65°	82.8
67.5°	72.9
70°	64.3
72.5°	56.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	50.7
77.5°	44.5
80°	39.6
82.5°	34.6
85°	30.9
87.5°	27.2
90°	23.5
92.5°	21.0
95°	17.3
97.5°	12.4
100°	8.7
102.5°	4.9
105°	2.5
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)