

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: P702189

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9730-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702189
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-35-D010 / 340-EU4C-3040-9730-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

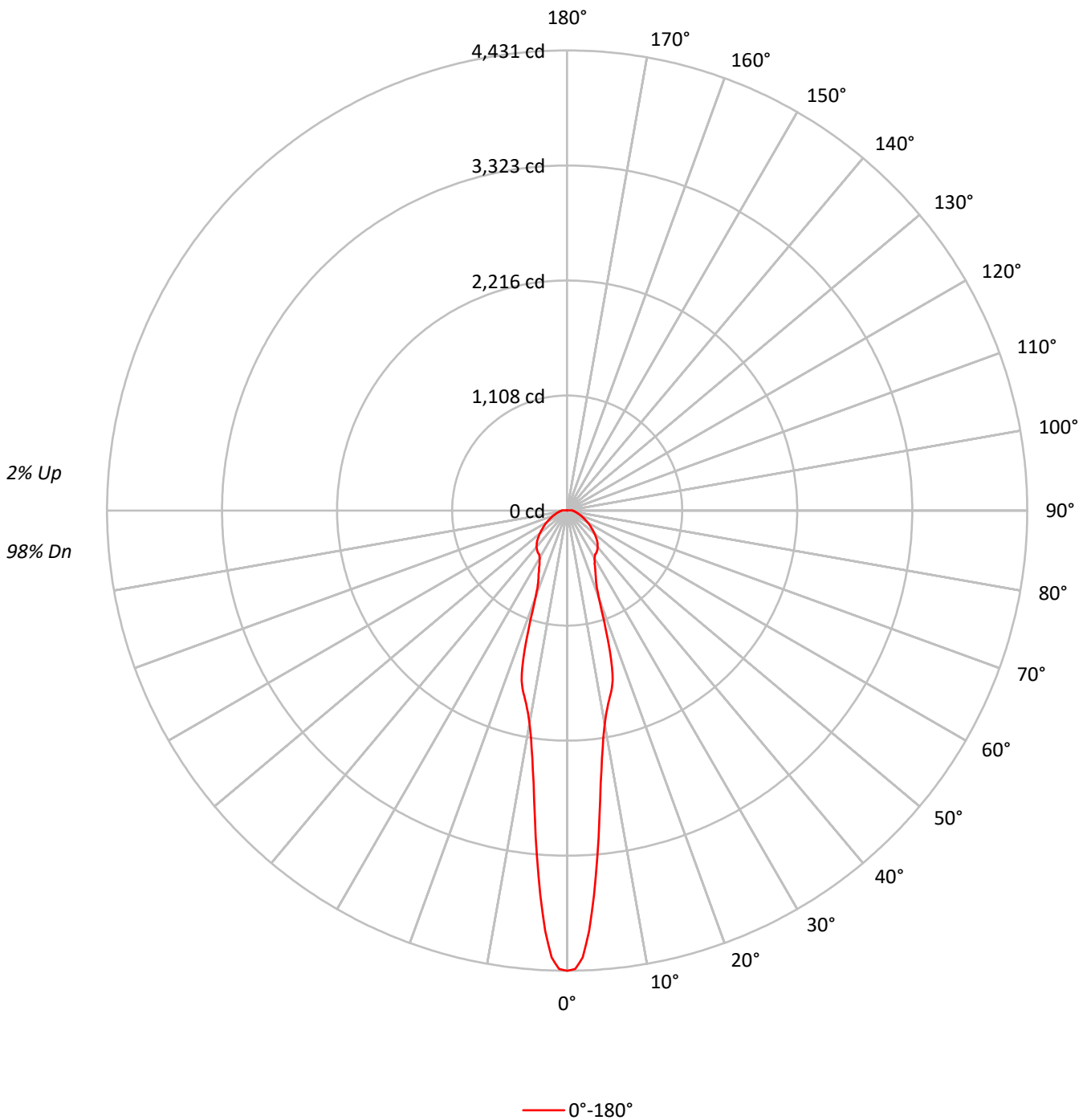
Lumens per Lamp: N/A
Luminaire Lumens: 2294.0 lumens
Efficiency: N/A
Efficacy: 56.8 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 40.4
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°	513933
5°	339195
10°	188676
15°	139743
20°	67447
25°	45929
30°	35698
35°	31886
40°	28607
45°	24759
50°	20466
55°	16610
60°	13404
65°	10615
70°	8340
75°	6707
80°	5386
85°	4370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24759 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.7	11.9
10°-20°	432.0	18.8
20°-30°	300.2	13.1
30°-40°	307.7	13.4
40°-50°	311.8	13.6
50°-60°	252.9	11.0
60°-70°	178.6	7.8
70°-80°	116.7	5.1
80°-90°	73.4	3.2
90°-100°	39.5	1.7
100°-110°	7.5	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°	1005.9	43.9
0°-40°	1313.6	57.3
0°-60°	1878.3	81.9
0°-90°	2246.9	97.9
90°-120°	47.0	2.1
90°-150°	47.0	2.1
90°-180°	47.0	2.0
0°-180°	2294.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4431	
5°	3346	274
15°	1693	432
25°	643	300
35°	493	308
45°	407	312
55°	281	253
65°	180	179
75°	110	117
85°	67	58
90°	51	28
95°	38	26
105°	5	8
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°	4431.1
1°	4415.1
2°	4305.2
3°	4053.4
4°	3713.2
5°	3346.1
6°	2976.4
7°	2644.2
8°	2405.8
9°	2218.2
10°	2081.6
11°	1982.5
12°	1902.1
13°	1835.1
14°	1770.8
15°	1693.2
16°	1569.9
17°	1401.1
18°	1208.2
19°	1023.4
20°	884.1
21°	798.4
22°	742.1
23°	707.3
24°	675.1
25°	643.0
27.5°	573.3
30°	527.8
32.5°	501.0
35°	492.9
37.5°	476.9
40°	458.1
42.5°	434.0
45°	407.2
47.5°	375.1
50°	342.9
52.5°	310.8
55°	281.3
57.5°	254.5
60°	227.7
62.5°	200.9
65°	179.5
67.5°	158.1
70°	139.3
72.5°	123.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	109.8
77.5°	96.4
80°	85.7
82.5°	75.0
85°	67.0
87.5°	58.9
90°	50.9
92.5°	45.5
95°	37.5
97.5°	26.8
100°	18.8
102.5°	10.7
105°	5.4
107.5°	2.7
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)