

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: P702103

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9030-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-30-D010 / 340-EU4C-3040-9030-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

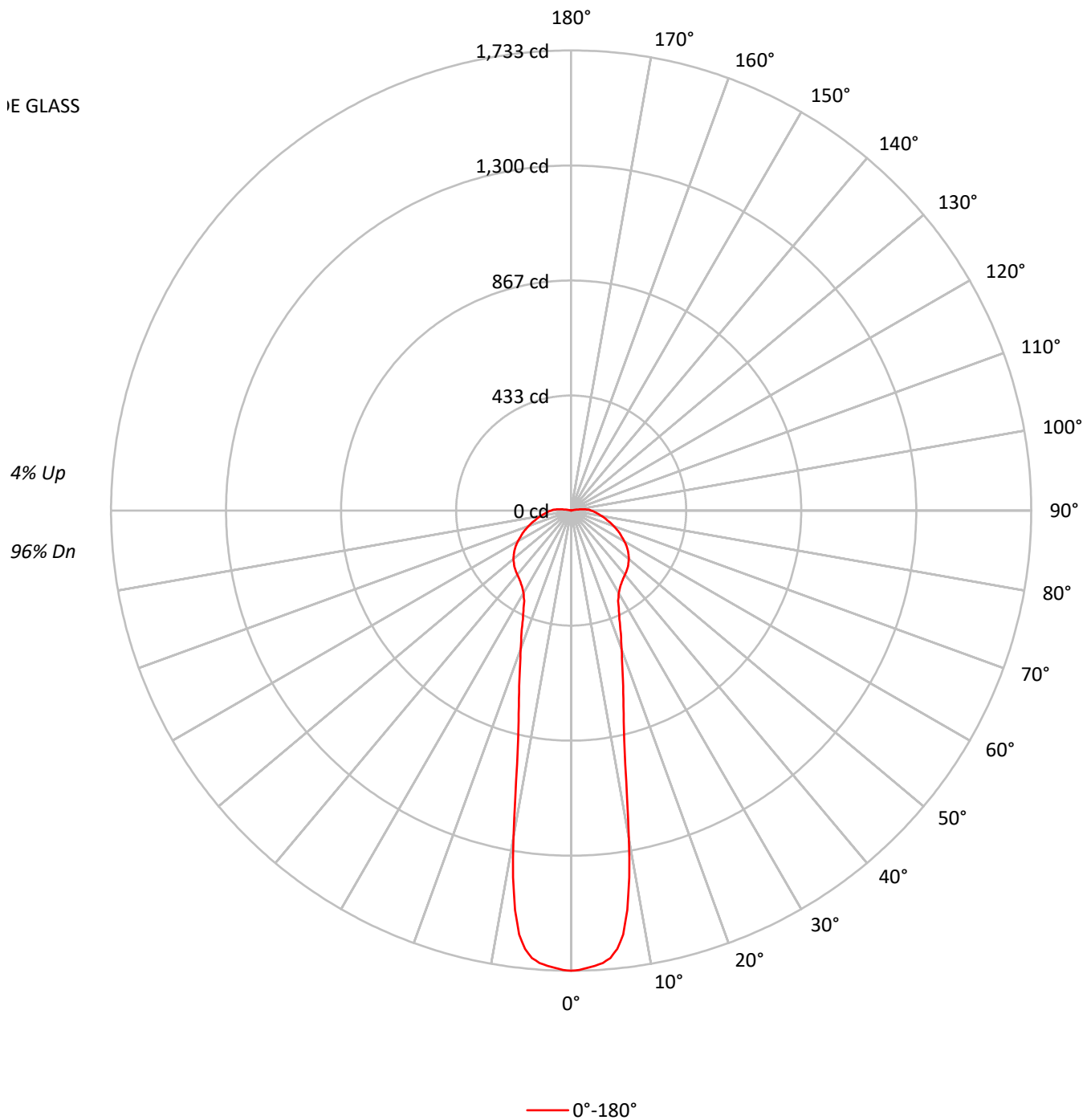
Lumens per Lamp: N/A
Luminaire Lumens: 1756.4 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
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	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87		89	86	83		85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72		78	73	69		74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61		69	64	59		66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47		57	51	46		55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42		52	46	41		51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38		49	42	37		47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35		45	39	34		44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32		42	36	32		41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	200976
5°	171518
10°	113481
15°	62898
20°	42394
25°	30457
30°	24240
35°	21419
40°	19690
45°	18344
50°	16921
55°	15400
60°	13616
65°	11940
70°	10184
75°	8589
80°	7271
85°	6215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18344 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.9	8.5
10°-20°	218.3	12.4
20°-30°	199.7	11.4
30°-40°	208.8	11.9
40°-50°	232.4	13.2
50°-60°	232.3	13.2
60°-70°	199.2	11.3
70°-80°	150.4	8.6
80°-90°	103.9	5.9
90°-100°	55.1	3.1
100°-110°	7.6	0.4
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°	566.8	32.3
0°-40°	775.6	44.2
0°-60°	1240.3	70.6
0°-90°	1693.7	96.4
90°-120°	62.7	3.6
90°-150°	62.7	3.6
90°-180°	63.0	3.6
0°-180°	1756.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1733	
5°	1692	149
15°	762	218
25°	426	200
35°	331	209
45°	302	232
55°	261	232
65°	202	199
75°	141	150
85°	95	82
90°	75	42
95°	52	36
105°	4	8
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°	1732.8
1°	1730.6
2°	1723.8
3°	1717.0
4°	1707.9
5°	1692.0
6°	1660.3
7°	1608.1
8°	1519.6
9°	1399.4
10°	1252.0
11°	1102.3
12°	977.6
13°	886.8
14°	816.5
15°	762.1
16°	712.2
17°	666.8
18°	626.0
19°	587.4
20°	555.7
21°	526.2
22°	499.0
23°	471.8
24°	446.8
25°	426.4
27.5°	383.3
30°	358.4
32.5°	342.5
35°	331.1
37.5°	322.1
40°	315.3
42.5°	308.5
45°	301.7
47.5°	292.6
50°	283.5
52.5°	272.2
55°	260.8
57.5°	247.2
60°	231.3
62.5°	215.5
65°	201.9
67.5°	186.0
70°	170.1
72.5°	156.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	140.6
77.5°	129.3
80°	115.7
82.5°	104.3
85°	95.3
87.5°	86.2
90°	74.8
92.5°	68.0
95°	52.2
97.5°	34.0
100°	20.4
102.5°	11.3
105°	4.5
107.5°	2.3
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)