

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: P702172

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-7)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-35-D010 / 340-EU4C-3040-9040-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

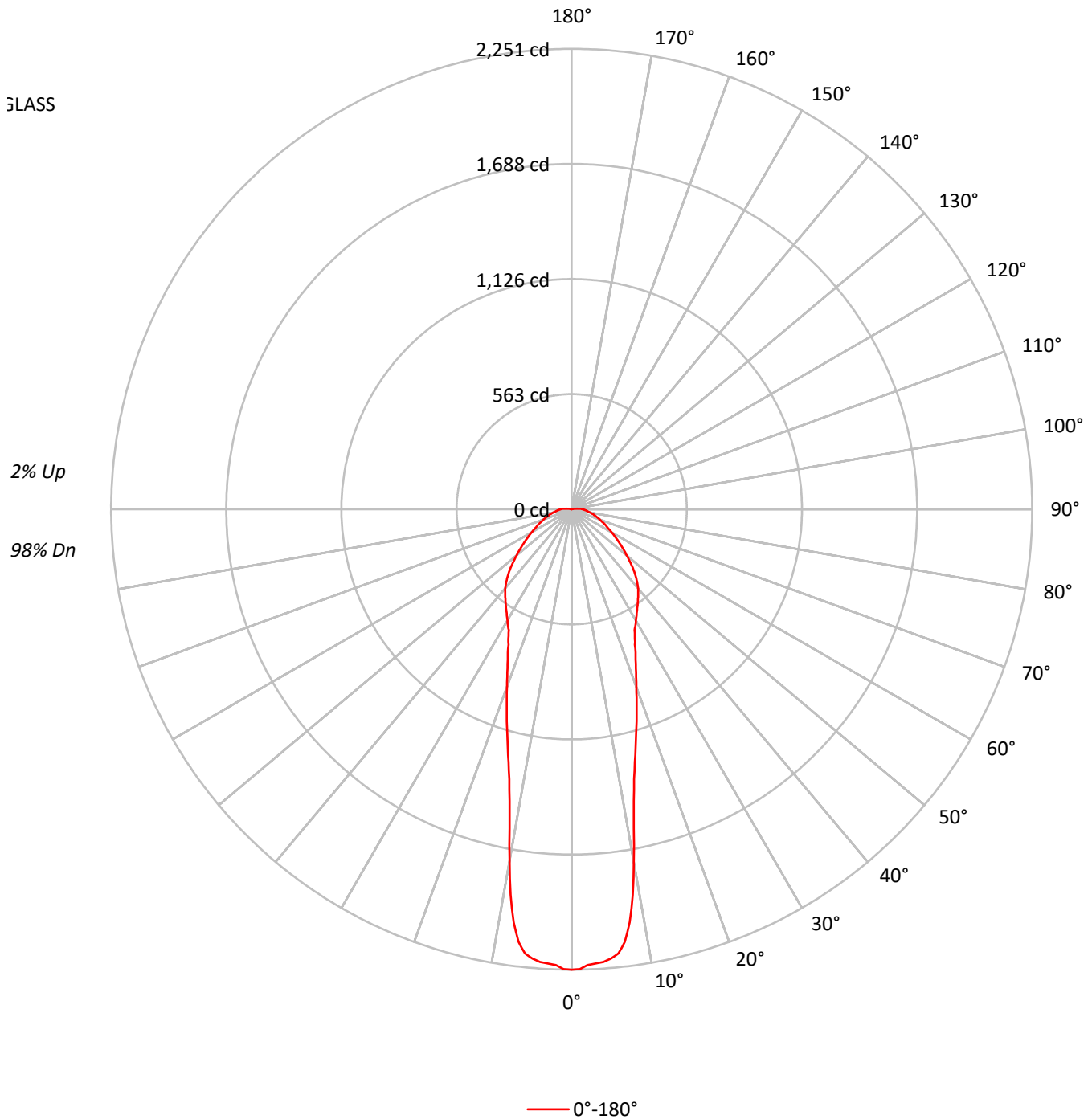
Lumens per Lamp: N/A
Luminaire Lumens: 2242.6 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	104	100	97	106	102	98	95	97	94	92		93	91	89		89	87	86	83
2	100	93	87	81	98	91	85	80	87	82	78		84	80	76		80	77	74	72
3	93	83	76	70	90	82	75	69	78	73	68		75	71	66		73	69	65	63
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		66	62	58	56
5	80	69	60	54	78	67	60	54	65	58	53		63	57	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	48		57	51	47	45
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	54	46	41	65	53	46	41	52	45	40		50	44	40		49	44	40	38
9	62	50	43	38	61	50	43	38	48	42	37		47	41	37		46	41	37	35
10	59	47	40	35	58	47	40	35	45	39	35		44	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	261113
5°	223521
10°	158711
15°	99633
20°	70521
25°	52243
30°	42481
35°	36408
40°	31580
45°	26285
50°	20931
55°	16699
60°	13287
65°	10775
70°	8789
75°	7141
80°	5637
85°	4611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26285 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	8.8
10°-20°	341.3	15.2
20°-30°	341.8	15.2
30°-40°	352.7	15.7
40°-50°	331.8	14.8
50°-60°	254.5	11.3
60°-70°	181.3	8.1
70°-80°	123.8	5.5
80°-90°	77.4	3.5
90°-100°	36.8	1.6
100°-110°	3.3	0.1
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°	881.0	39.3
0°-40°	1233.7	55.0
0°-60°	1820.0	81.2
0°-90°	2202.6	98.2
90°-120°	40.0	1.8
90°-150°	40.0	1.8
90°-180°	40.0	1.8
0°-180°	2242.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2251	
5°	2205	198
15°	1207	341
25°	731	342
35°	563	353
45°	432	332
55°	283	254
65°	182	181
75°	117	124
85°	71	61
90°	54	30
95°	33	23
105°	0	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°	2251.3
1°	2248.5
2°	2229.5
3°	2224.1
4°	2218.6
5°	2205.0
6°	2183.3
7°	2131.6
8°	2039.2
9°	1908.7
10°	1751.0
11°	1590.6
12°	1457.3
13°	1354.0
14°	1275.2
15°	1207.2
16°	1141.9
17°	1084.9
18°	1027.8
19°	973.4
20°	924.4
21°	878.2
22°	837.4
23°	799.4
24°	766.7
25°	731.4
27.5°	666.1
30°	628.1
32.5°	592.7
35°	562.8
37.5°	532.9
40°	505.7
42.5°	470.4
45°	432.3
47.5°	391.5
50°	350.7
52.5°	315.4
55°	282.8
57.5°	252.9
60°	225.7
62.5°	201.2
65°	182.2
67.5°	163.1
70°	146.8
72.5°	130.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	116.9
77.5°	103.3
80°	89.7
82.5°	78.8
85°	70.7
87.5°	62.5
90°	54.4
92.5°	46.2
95°	32.6
97.5°	21.8
100°	13.6
102.5°	5.4
105°	0.0
107.5°	0.0
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)