

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: P702208

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702208
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-40-D010 / 340-EU4C-3040-9027-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

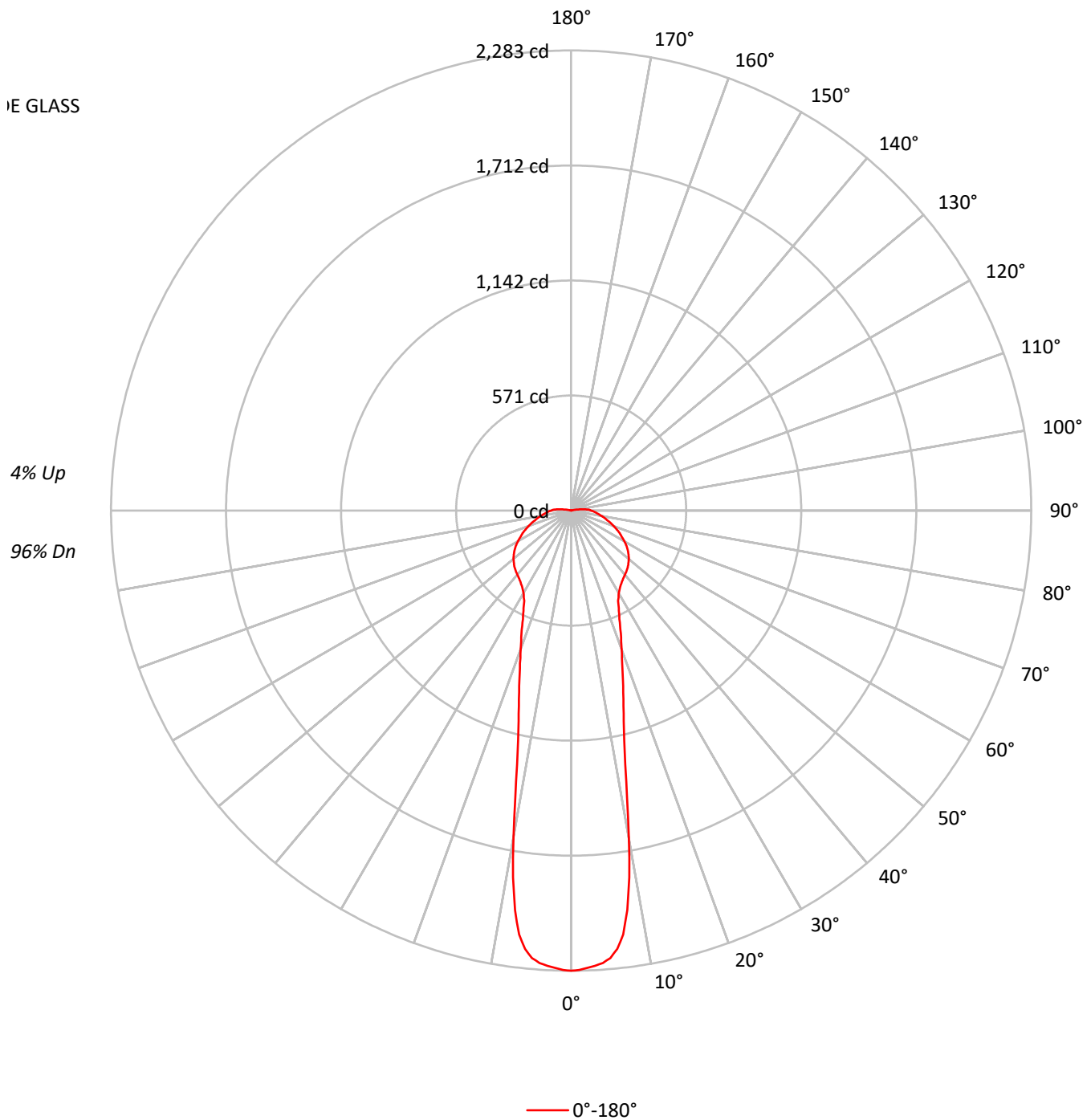
Lumens per Lamp: N/A
Luminaire Lumens: 2313.8 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 47
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°	264766
5°	225954
10°	149502
15°	82862
20°	55851
25°	40121
30°	31930
35°	28218
40°	25935
45°	24163
50°	22292
55°	20289
60°	17943
65°	15725
70°	13417
75°	11320
80°	9578
85°	8185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	8.5
10°-20°	287.6	12.4
20°-30°	263.0	11.4
30°-40°	275.0	11.9
40°-50°	306.2	13.2
50°-60°	306.0	13.2
60°-70°	262.4	11.3
70°-80°	198.1	8.6
80°-90°	136.8	5.9
90°-100°	72.6	3.1
100°-110°	10.0	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°	746.7	32.3
0°-40°	1021.7	44.2
0°-60°	1633.9	70.6
0°-90°	2231.2	96.4
90°-120°	82.6	3.6
90°-150°	82.6	3.6
90°-180°	83.0	3.6
0°-180°	2313.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2283	
5°	2229	196
15°	1004	288
25°	562	263
35°	436	275
45°	397	306
55°	344	306
65°	266	262
75°	185	198
85°	126	108
90°	99	55
95°	69	47
105°	6	10
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°	2282.8
1°	2279.8
2°	2270.9
3°	2261.9
4°	2250.0
5°	2229.0
6°	2187.2
7°	2118.5
8°	2001.9
9°	1843.6
10°	1649.4
11°	1452.2
12°	1287.8
13°	1168.3
14°	1075.7
15°	1004.0
16°	938.2
17°	878.5
18°	824.7
19°	773.9
20°	732.1
21°	693.2
22°	657.4
23°	621.5
24°	588.6
25°	561.7
27.5°	505.0
30°	472.1
32.5°	451.2
35°	436.2
37.5°	424.3
40°	415.3
42.5°	406.4
45°	397.4
47.5°	385.4
50°	373.5
52.5°	358.6
55°	343.6
57.5°	325.7
60°	304.8
62.5°	283.9
65°	265.9
67.5°	245.0
70°	224.1
72.5°	206.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	185.3
77.5°	170.3
80°	152.4
82.5°	137.4
85°	125.5
87.5°	113.5
90°	98.6
92.5°	89.6
95°	68.7
97.5°	44.8
100°	26.9
102.5°	14.9
105°	6.0
107.5°	3.0
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)