

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: P702201

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9024-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702201
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-3040-9024-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

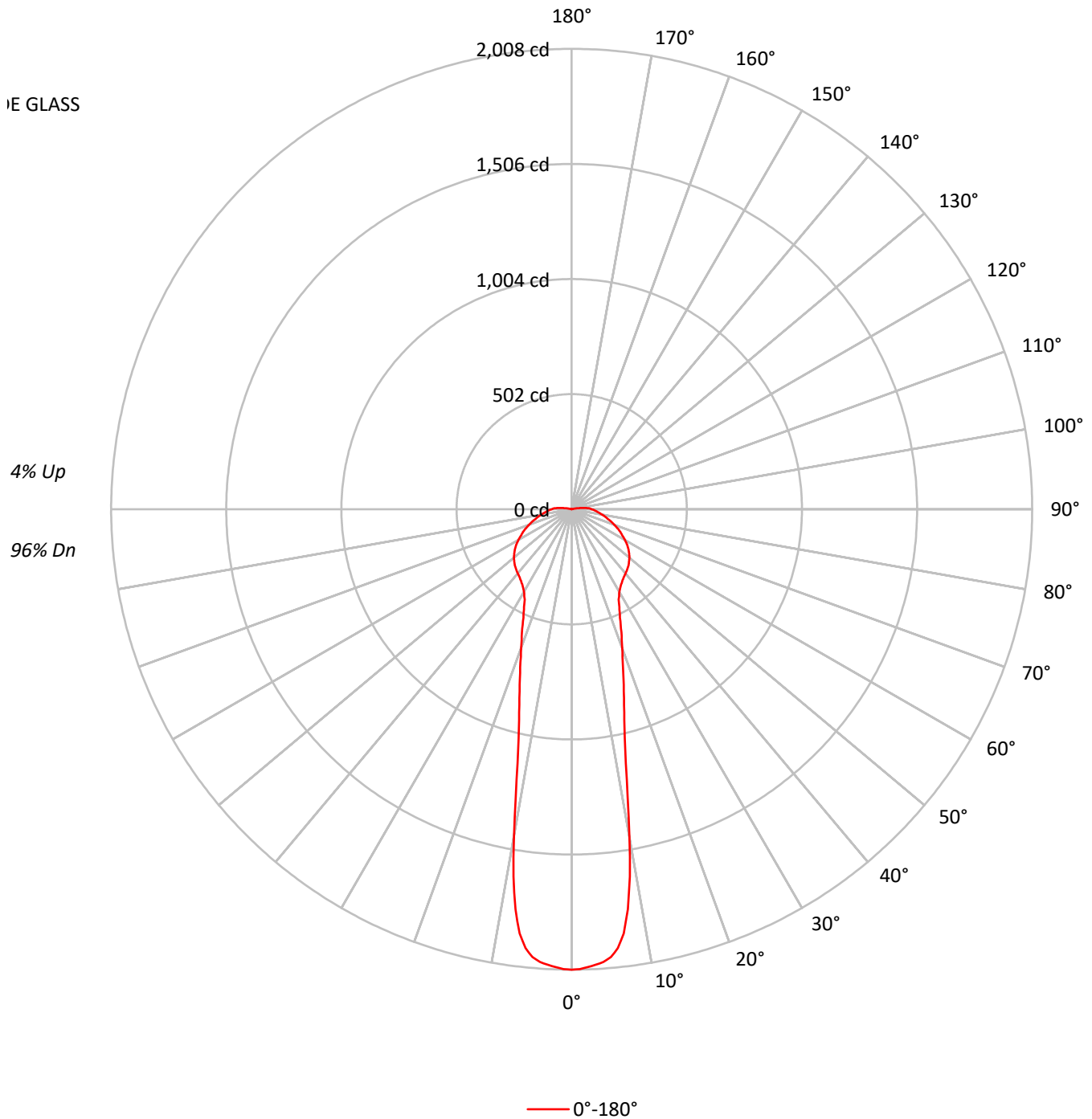
Lumens per Lamp: N/A
Luminaire Lumens: 2035.6 lumens
Efficiency: N/A
Efficacy: 43.3 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	232929
5°	198787
10°	131519
15°	72892
20°	49130
25°	35300
30°	28089
35°	24828
40°	22819
45°	21257
50°	19612
55°	17850
60°	15783
65°	13838
70°	11800
75°	9957
80°	8428
85°	7200

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21257 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	8.5
10°-20°	253.0	12.4
20°-30°	231.4	11.4
30°-40°	241.9	11.9
40°-50°	269.4	13.2
50°-60°	269.2	13.2
60°-70°	230.8	11.3
70°-80°	174.3	8.6
80°-90°	120.4	5.9
90°-100°	63.9	3.1
100°-110°	8.8	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°	656.9	32.3
0°-40°	898.9	44.2
0°-60°	1437.4	70.6
0°-90°	1962.9	96.4
90°-120°	72.7	3.6
90°-150°	72.7	3.6
90°-180°	73.0	3.6
0°-180°	2035.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2008	
5°	1961	173
15°	883	253
25°	494	231
35°	384	242
45°	350	269
55°	302	269
65°	234	231
75°	163	174
85°	110	95
90°	87	48
95°	60	41
105°	5	9
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°	2008.3
1°	2005.7
2°	1997.8
3°	1989.9
4°	1979.4
5°	1961.0
6°	1924.2
7°	1863.7
8°	1761.2
9°	1621.9
10°	1451.0
11°	1277.5
12°	1133.0
13°	1027.8
14°	946.3
15°	883.2
16°	825.4
17°	772.8
18°	725.5
19°	680.8
20°	644.0
21°	609.8
22°	578.3
23°	546.8
24°	517.8
25°	494.2
27.5°	444.2
30°	415.3
32.5°	396.9
35°	383.8
37.5°	373.3
40°	365.4
42.5°	357.5
45°	349.6
47.5°	339.1
50°	328.6
52.5°	315.4
55°	302.3
57.5°	286.5
60°	268.1
62.5°	249.7
65°	234.0
67.5°	215.6
70°	197.1
72.5°	181.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	163.0
77.5°	149.8
80°	134.1
82.5°	120.9
85°	110.4
87.5°	99.9
90°	86.7
92.5°	78.9
95°	60.5
97.5°	39.4
100°	23.7
102.5°	13.1
105°	5.3
107.5°	2.6
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)