

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: P702173

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702173
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-35-D010 / 340-EU4C-3040-9040-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

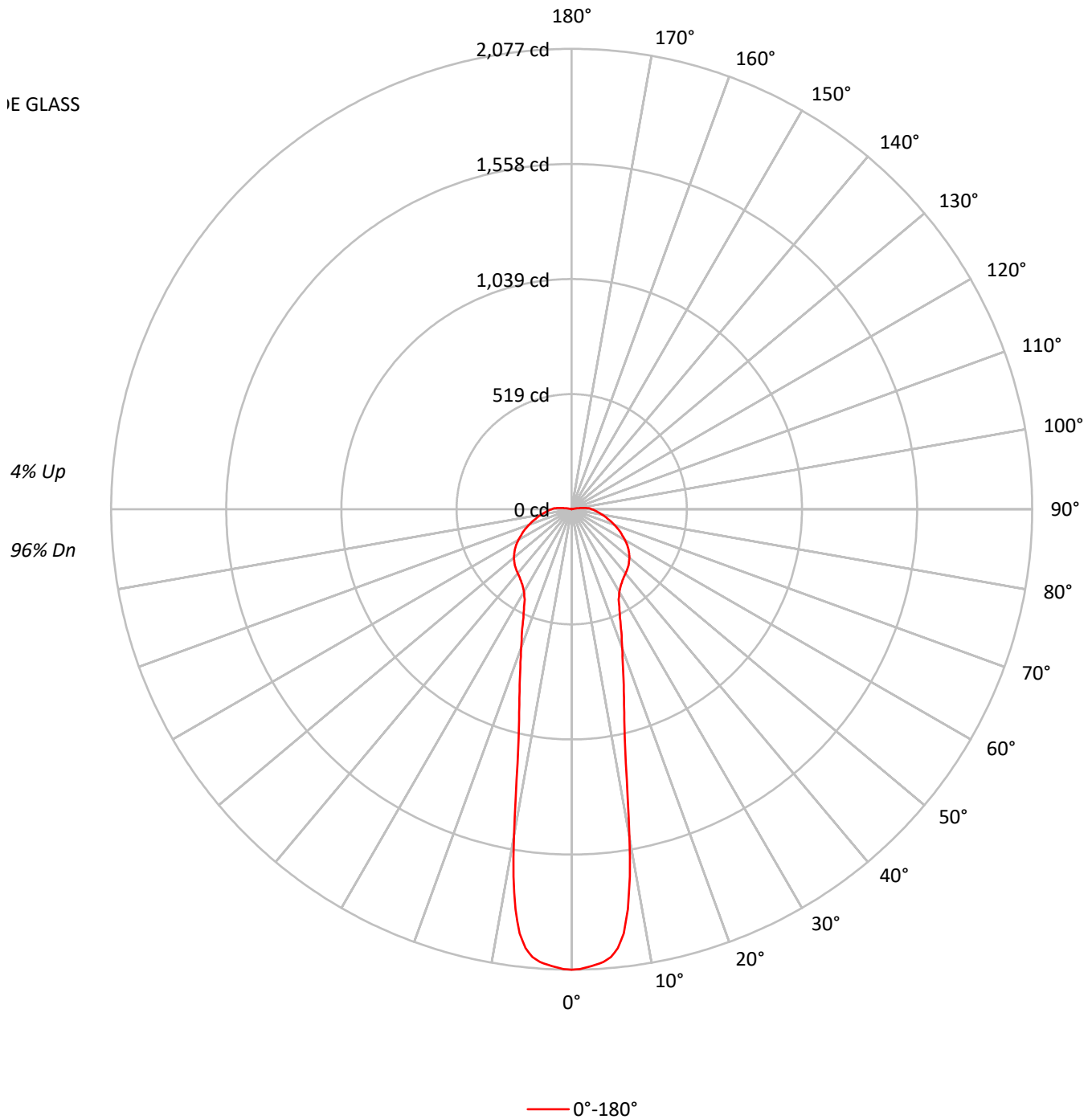
Lumens per Lamp: N/A
Luminaire Lumens: 2105.5 lumens
Efficiency: N/A
Efficacy: 52.1 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	240932
5°	205609
10°	136033
15°	75401
20°	50816
25°	36514
30°	29056
35°	25682
40°	23599
45°	21986
50°	20287
55°	18464
60°	16324
65°	14312
70°	12207
75°	10299
80°	8717
85°	7448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21986 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.5	8.5
10°-20°	261.7	12.4
20°-30°	239.4	11.4
30°-40°	250.3	11.9
40°-50°	278.6	13.2
50°-60°	278.5	13.2
60°-70°	238.7	11.3
70°-80°	180.3	8.6
80°-90°	124.5	5.9
90°-100°	66.1	3.1
100°-110°	9.1	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°	679.5	32.3
0°-40°	929.8	44.2
0°-60°	1486.8	70.6
0°-90°	2030.4	96.4
90°-120°	75.2	3.6
90°-150°	75.2	3.6
90°-180°	75.0	3.6
0°-180°	2105.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2077	
5°	2028	178
15°	914	262
25°	511	239
35°	397	250
45°	362	279
55°	313	278
65°	242	239
75°	169	180
85°	114	98
90°	90	50
95°	62	43
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2077.3
1°	2074.5
2°	2066.4
3°	2058.2
4°	2047.4
5°	2028.3
6°	1990.3
7°	1927.7
8°	1821.7
9°	1677.6
10°	1500.8
11°	1321.4
12°	1171.9
13°	1063.1
14°	978.8
15°	913.6
16°	853.7
17°	799.4
18°	750.4
19°	704.2
20°	666.1
21°	630.8
22°	598.2
23°	565.5
24°	535.6
25°	511.2
27.5°	459.5
30°	429.6
32.5°	410.6
35°	397.0
37.5°	386.1
40°	377.9
42.5°	369.8
45°	361.6
47.5°	350.7
50°	339.9
52.5°	326.3
55°	312.7
57.5°	296.4
60°	277.3
62.5°	258.3
65°	242.0
67.5°	223.0
70°	203.9
72.5°	187.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	168.6
77.5°	155.0
80°	138.7
82.5°	125.1
85°	114.2
87.5°	103.3
90°	89.7
92.5°	81.6
95°	62.5
97.5°	40.8
100°	24.5
102.5°	13.6
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)