

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: P702187

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9727-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702187
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-3040-9727-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

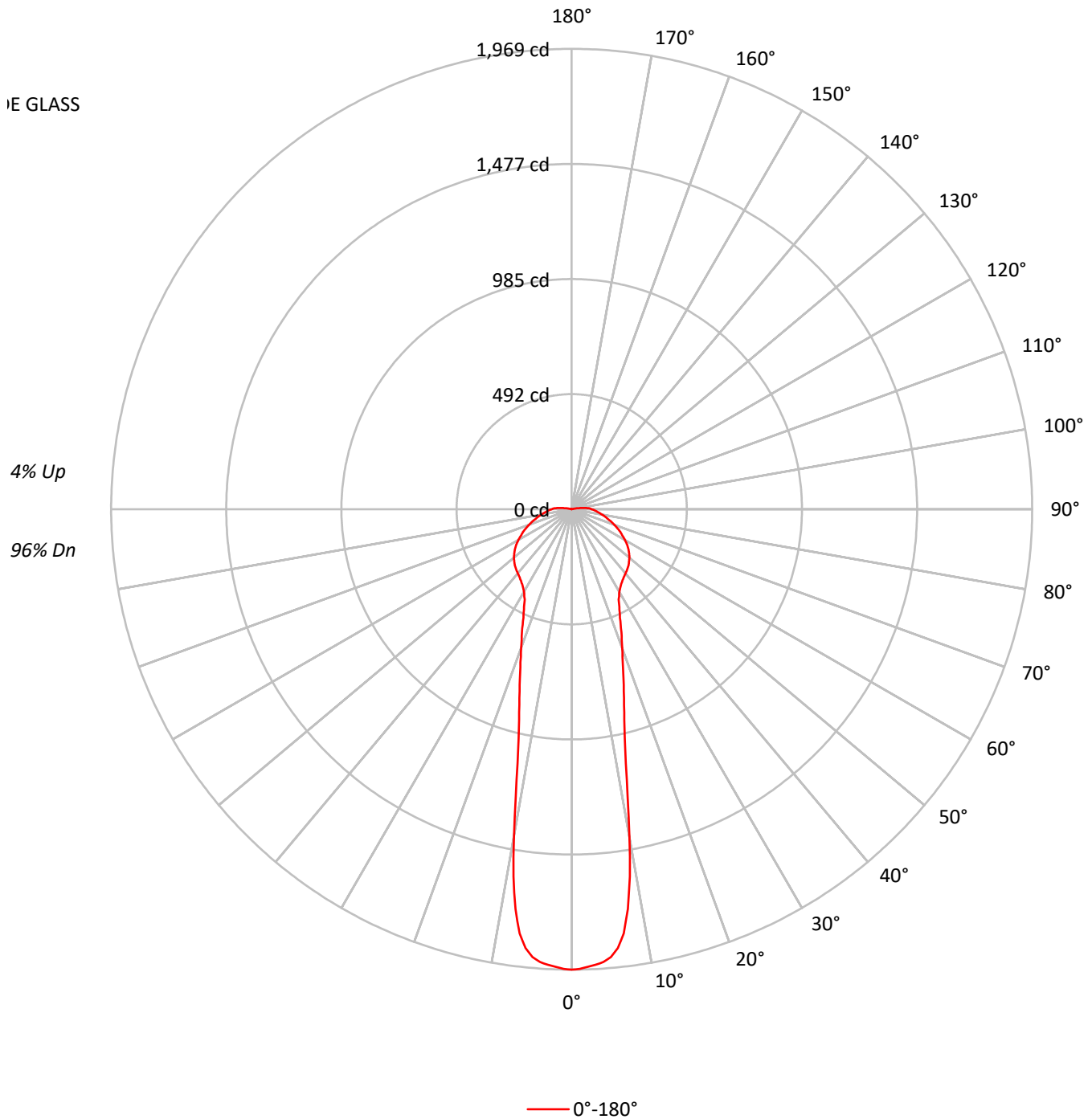
Lumens per Lamp: N/A
Luminaire Lumens: 1995.7 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

TEST NUMBER: P702187

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9727-4LBW1LI-GFF

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°	228359
5°	194894
10°	128945
15°	71465
20°	48169
25°	34607
30°	27541
35°	24343
40°	22369
45°	20843
50°	19224
55°	17502
60°	15477
65°	13566
70°	11573
75°	9762
80°	8258
85°	7057

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20843 cd/sqm

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CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9727-4LBW1LI-GFF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.2	8.5
10°-20°	248.0	12.4
20°-30°	226.9	11.4
30°-40°	237.2	11.9
40°-50°	264.1	13.2
50°-60°	264.0	13.2
60°-70°	226.3	11.3
70°-80°	170.8	8.6
80°-90°	118.0	5.9
90°-100°	62.7	3.1
100°-110°	8.6	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°	644.1	32.3
0°-40°	881.3	44.2
0°-60°	1409.3	70.6
0°-90°	1924.4	96.4
90°-120°	71.3	3.6
90°-150°	71.3	3.6
90°-180°	71.0	3.6
0°-180°	1995.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1969	
5°	1923	169
15°	866	248
25°	484	227
35°	376	237
45°	343	264
55°	296	264
65°	229	226
75°	160	171
85°	108	93
90°	85	47
95°	59	40
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	

TEST NUMBER: P702187

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9727-4LBW1LI-GFF

CANDELA DISTRIBUTION (FULL):

0°	
0°	1968.9
1°	1966.4
2°	1958.6
3°	1950.9
4°	1940.6
5°	1922.6
6°	1886.5
7°	1827.2
8°	1726.7
9°	1590.1
10°	1422.6
11°	1252.5
12°	1110.8
13°	1007.7
14°	927.8
15°	865.9
16°	809.2
17°	757.7
18°	711.3
19°	667.5
20°	631.4
21°	597.9
22°	567.0
23°	536.0
24°	507.7
25°	484.5
27.5°	435.5
30°	407.2
32.5°	389.2
35°	376.3
37.5°	366.0
40°	358.2
42.5°	350.5
45°	342.8
47.5°	332.5
50°	322.1
52.5°	309.3
55°	296.4
57.5°	280.9
60°	262.9
62.5°	244.8
65°	229.4
67.5°	211.3
70°	193.3
72.5°	177.8

TEST NUMBER: P702187

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9727-4LBW1LI-GFF

CANDELA DISTRIBUTION (continued):

	0°
75°	159.8
77.5°	146.9
80°	131.4
82.5°	118.5
85°	108.2
87.5°	97.9
90°	85.0
92.5°	77.3
95°	59.3
97.5°	38.7
100°	23.2
102.5°	12.9
105°	5.2
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)