

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: P702089

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702089
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-30-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

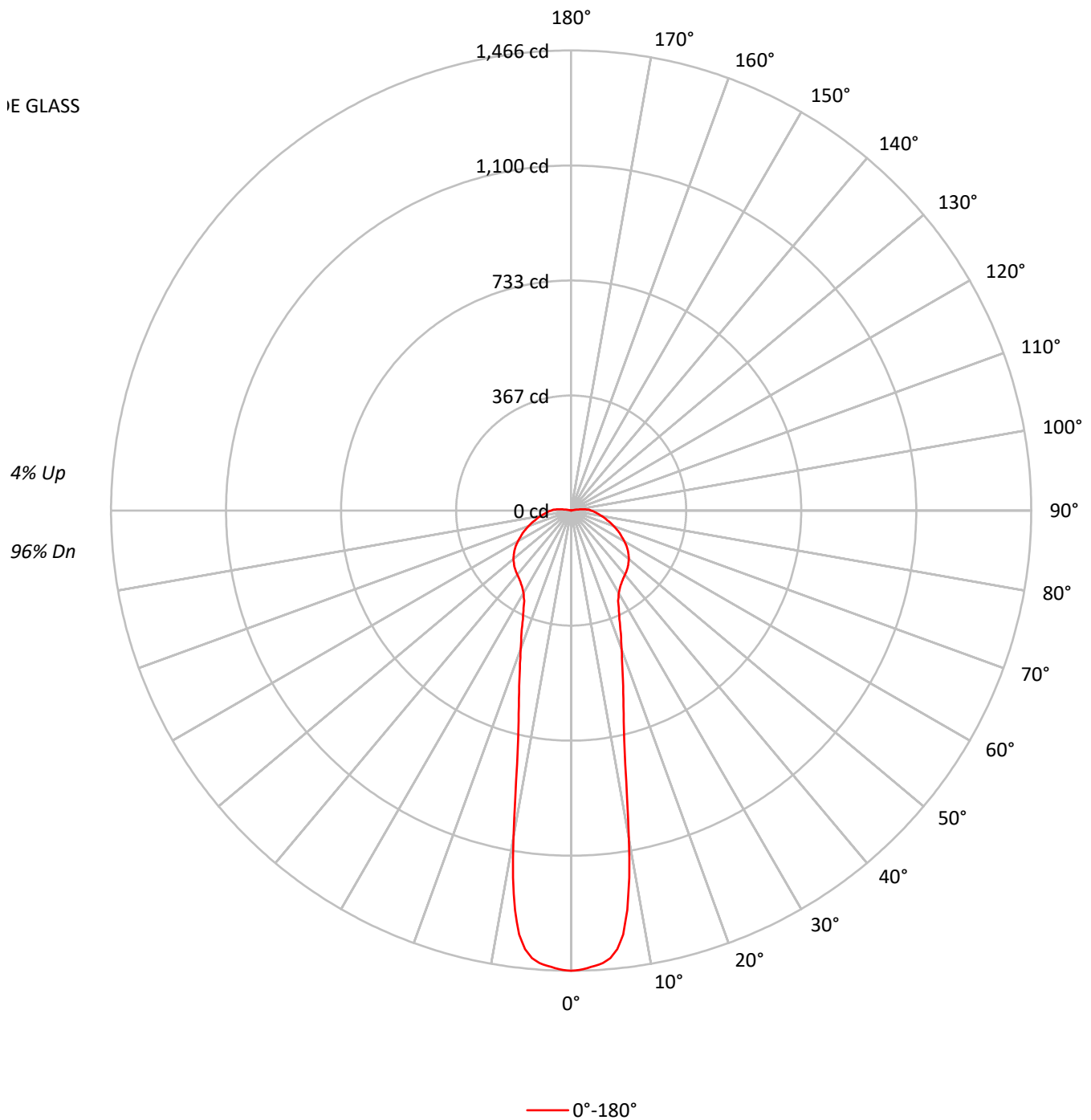
Lumens per Lamp: N/A
Luminaire Lumens: 1485.9 lumens
Efficiency: N/A
Efficacy: 47.0 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
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°	170031
5°	145101
10°	96006
15°	53208
20°	35863
25°	25764
30°	20507
35°	18120
40°	16655
45°	15517
50°	14318
55°	13032
60°	11521
65°	10101
70°	8615
75°	7269
80°	6153
85°	5257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	8.5
10°-20°	184.7	12.4
20°-30°	168.9	11.4
30°-40°	176.6	11.9
40°-50°	196.6	13.2
50°-60°	196.6	13.2
60°-70°	168.5	11.3
70°-80°	127.2	8.6
80°-90°	87.9	5.9
90°-100°	46.7	3.1
100°-110°	6.4	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°	479.5	32.3
0°-40°	656.1	44.2
0°-60°	1049.3	70.6
0°-90°	1432.9	96.4
90°-120°	53.1	3.6
90°-150°	53.1	3.6
90°-180°	53.0	3.6
0°-180°	1485.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1466	
5°	1431	126
15°	645	185
25°	361	169
35°	280	177
45°	255	197
55°	221	197
65°	171	168
75°	119	127
85°	81	69
90°	63	35
95°	44	30
105°	4	6
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°	1466.0
1°	1464.1
2°	1458.3
3°	1452.5
4°	1444.9
5°	1431.4
6°	1404.6
7°	1360.4
8°	1285.6
9°	1183.9
10°	1059.2
11°	932.5
12°	827.0
13°	750.3
14°	690.8
15°	644.7
16°	602.5
17°	564.1
18°	529.6
19°	497.0
20°	470.1
21°	445.2
22°	422.1
23°	399.1
24°	378.0
25°	360.7
27.5°	324.3
30°	303.2
32.5°	289.7
35°	280.1
37.5°	272.5
40°	266.7
42.5°	261.0
45°	255.2
47.5°	247.5
50°	239.9
52.5°	230.3
55°	220.7
57.5°	209.2
60°	195.7
62.5°	182.3
65°	170.8
67.5°	157.3
70°	143.9
72.5°	132.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	119.0
77.5°	109.4
80°	97.9
82.5°	88.3
85°	80.6
87.5°	72.9
90°	63.3
92.5°	57.6
95°	44.1
97.5°	28.8
100°	17.3
102.5°	9.6
105°	3.8
107.5°	1.9
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)