

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: P701809

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701809
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-08-D010 / 340-EU4C-1020-9024-4LBW1LI-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

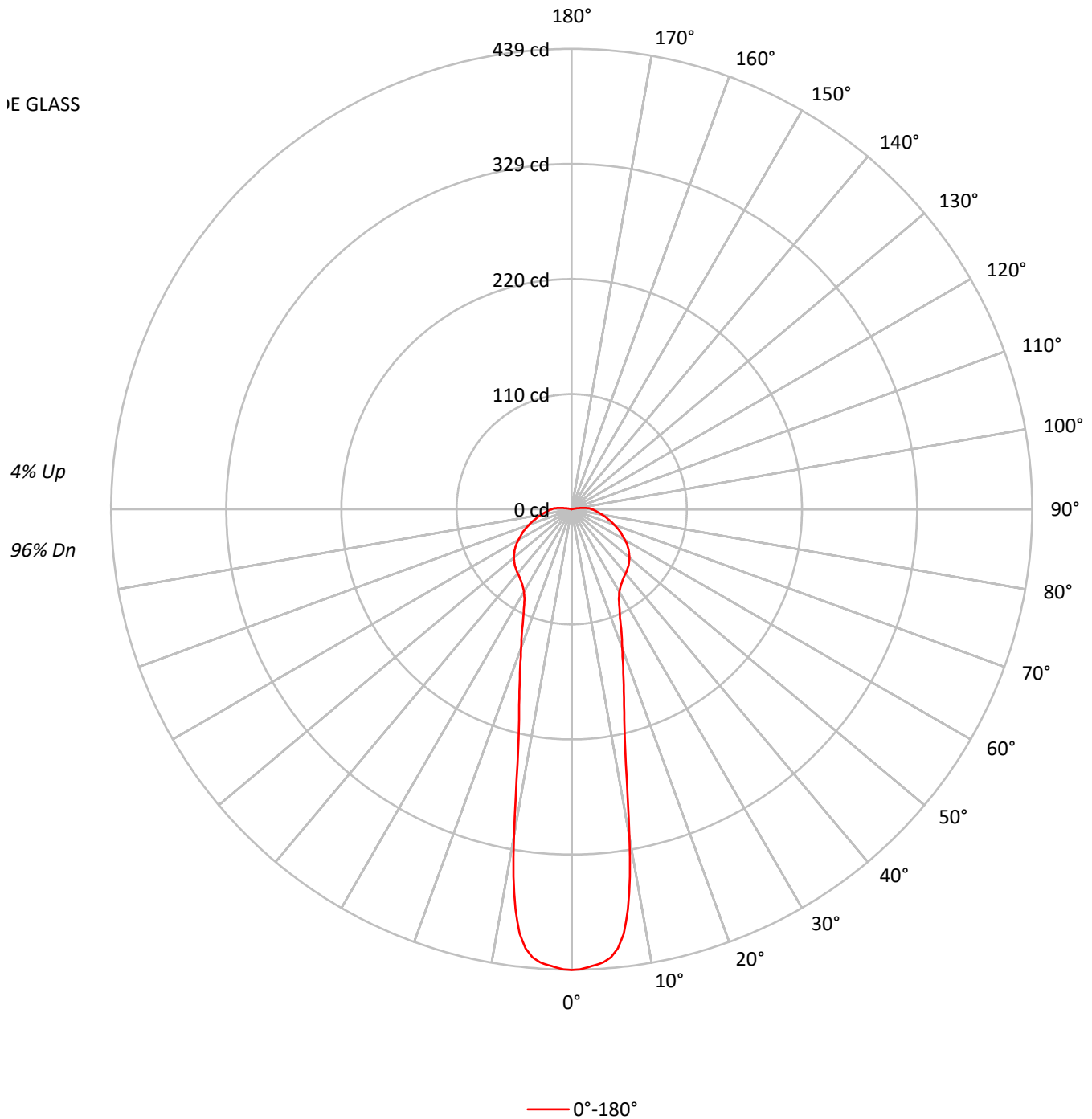
Lumens per Lamp: N/A
Luminaire Lumens: 445.2 lumens
Efficiency: N/A
Efficacy: 45.0 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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°	50951
5°	43478
10°	28769
15°	15945
20°	10749
25°	7721
30°	6141
35°	5428
40°	4990
45°	4651
50°	4291
55°	3903
60°	3450
65°	3028
70°	2580
75°	2175
80°	1841
85°	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4651 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.7	8.5
10°-20°	55.3	12.4
20°-30°	50.6	11.4
30°-40°	52.9	11.9
40°-50°	58.9	13.2
50°-60°	58.9	13.2
60°-70°	50.5	11.3
70°-80°	38.1	8.6
80°-90°	26.3	5.9
90°-100°	14.0	3.1
100°-110°	1.9	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°	143.7	32.3
0°-40°	196.6	44.2
0°-60°	314.4	70.6
0°-90°	429.3	96.4
90°-120°	15.9	3.6
90°-150°	15.9	3.6
90°-180°	16.0	3.6
0°-180°	445.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	439	
5°	429	38
15°	193	55
25°	108	51
35°	84	53
45°	76	59
55°	66	59
65°	51	50
75°	36	38
85°	24	21
90°	19	11
95°	13	9
105°	1	2
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°	439.3
1°	438.7
2°	437.0
3°	435.2
4°	432.9
5°	428.9
6°	420.9
7°	407.6
8°	385.2
9°	354.7
10°	317.4
11°	279.4
12°	247.8
13°	224.8
14°	207.0
15°	193.2
16°	180.5
17°	169.0
18°	158.7
19°	148.9
20°	140.9
21°	133.4
22°	126.5
23°	119.6
24°	113.3
25°	108.1
27.5°	97.2
30°	90.8
32.5°	86.8
35°	83.9
37.5°	81.6
40°	79.9
42.5°	78.2
45°	76.5
47.5°	74.2
50°	71.9
52.5°	69.0
55°	66.1
57.5°	62.7
60°	58.6
62.5°	54.6
65°	51.2
67.5°	47.1
70°	43.1
72.5°	39.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	35.6
77.5°	32.8
80°	29.3
82.5°	26.4
85°	24.1
87.5°	21.8
90°	19.0
92.5°	17.2
95°	13.2
97.5°	8.6
100°	5.2
102.5°	2.9
105°	1.1
107.5°	0.6
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)