

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: P701921

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9024-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701921
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-15-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

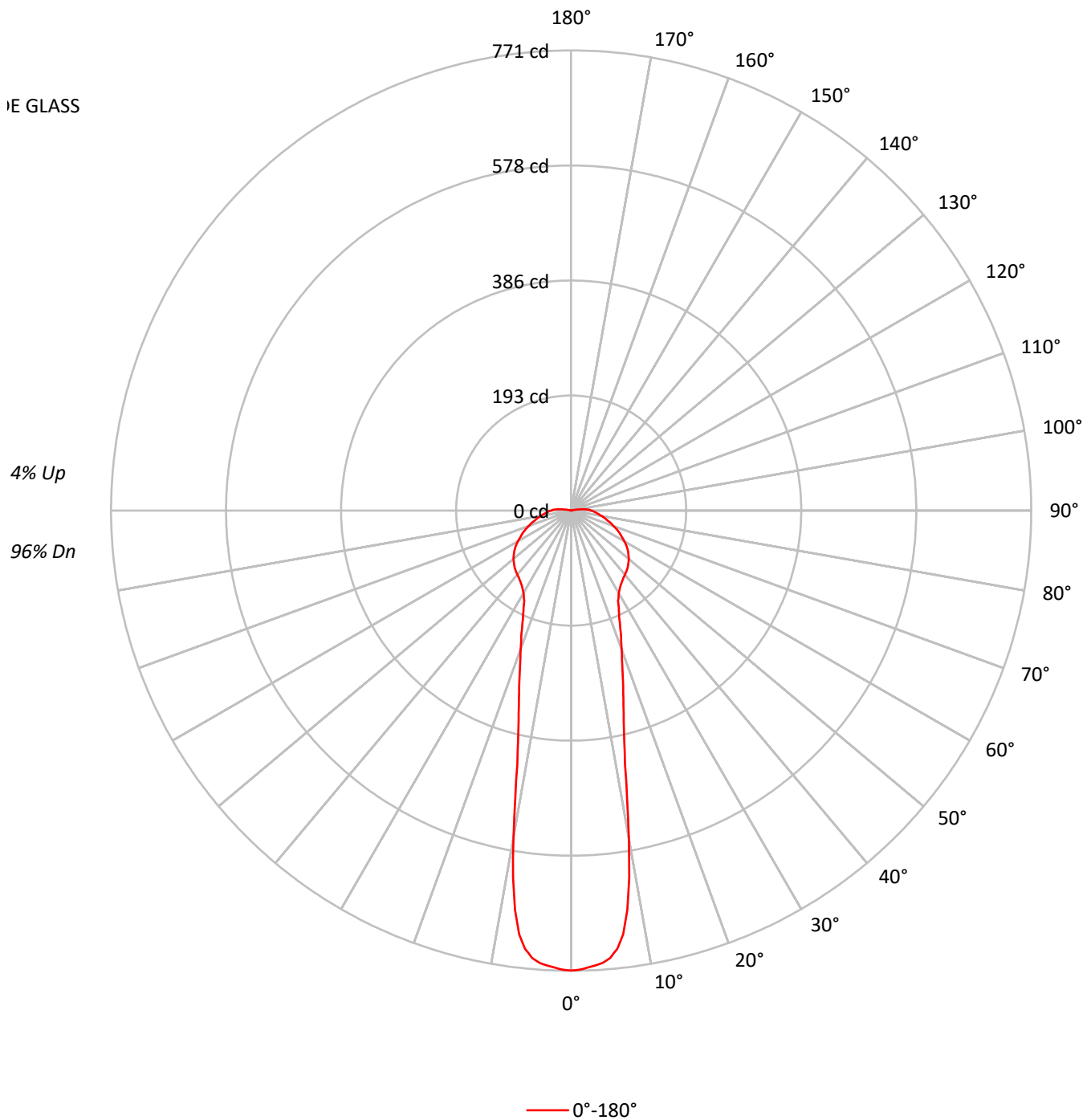
Lumens per Lamp: N/A
Luminaire Lumens: 781.0 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 15.8
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°	89377
5°	76271
10°	50459
15°	27970
20°	18851
25°	13543
30°	10781
35°	9529
40°	8755
45°	8154
50°	7526
55°	6850
60°	6058
65°	5311
70°	4526
75°	3818
80°	3230
85°	2765

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8154 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	8.5
10°-20°	97.1	12.4
20°-30°	88.8	11.4
30°-40°	92.8	11.9
40°-50°	103.3	13.2
50°-60°	103.3	13.2
60°-70°	88.6	11.3
70°-80°	66.8	8.6
80°-90°	46.2	5.9
90°-100°	24.5	3.1
100°-110°	3.4	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°	252.1	32.3
0°-40°	344.9	44.2
0°-60°	551.5	70.6
0°-90°	753.1	96.4
90°-120°	27.9	3.6
90°-150°	27.9	3.6
90°-180°	28.0	3.6
0°-180°	781.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	771	
5°	752	66
15°	339	97
25°	190	89
35°	147	93
45°	134	103
55°	116	103
65°	90	89
75°	62	67
85°	42	36
90°	33	19
95°	23	16
105°	2	3
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°	770.6
1°	769.6
2°	766.5
3°	763.5
4°	759.5
5°	752.4
6°	738.3
7°	715.1
8°	675.8
9°	622.3
10°	556.7
11°	490.2
12°	434.7
13°	394.4
14°	363.1
15°	338.9
16°	316.7
17°	296.5
18°	278.4
19°	261.2
20°	247.1
21°	234.0
22°	221.9
23°	209.8
24°	198.7
25°	189.6
27.5°	170.5
30°	159.4
32.5°	152.3
35°	147.3
37.5°	143.2
40°	140.2
42.5°	137.2
45°	134.1
47.5°	130.1
50°	126.1
52.5°	121.0
55°	116.0
57.5°	109.9
60°	102.9
62.5°	95.8
65°	89.8
67.5°	82.7
70°	75.6
72.5°	69.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	62.5
77.5°	57.5
80°	51.4
82.5°	46.4
85°	42.4
87.5°	38.3
90°	33.3
92.5°	30.3
95°	23.2
97.5°	15.1
100°	9.1
102.5°	5.0
105°	2.0
107.5°	1.0
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)