

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: P701956

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701956
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-1020-9050-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

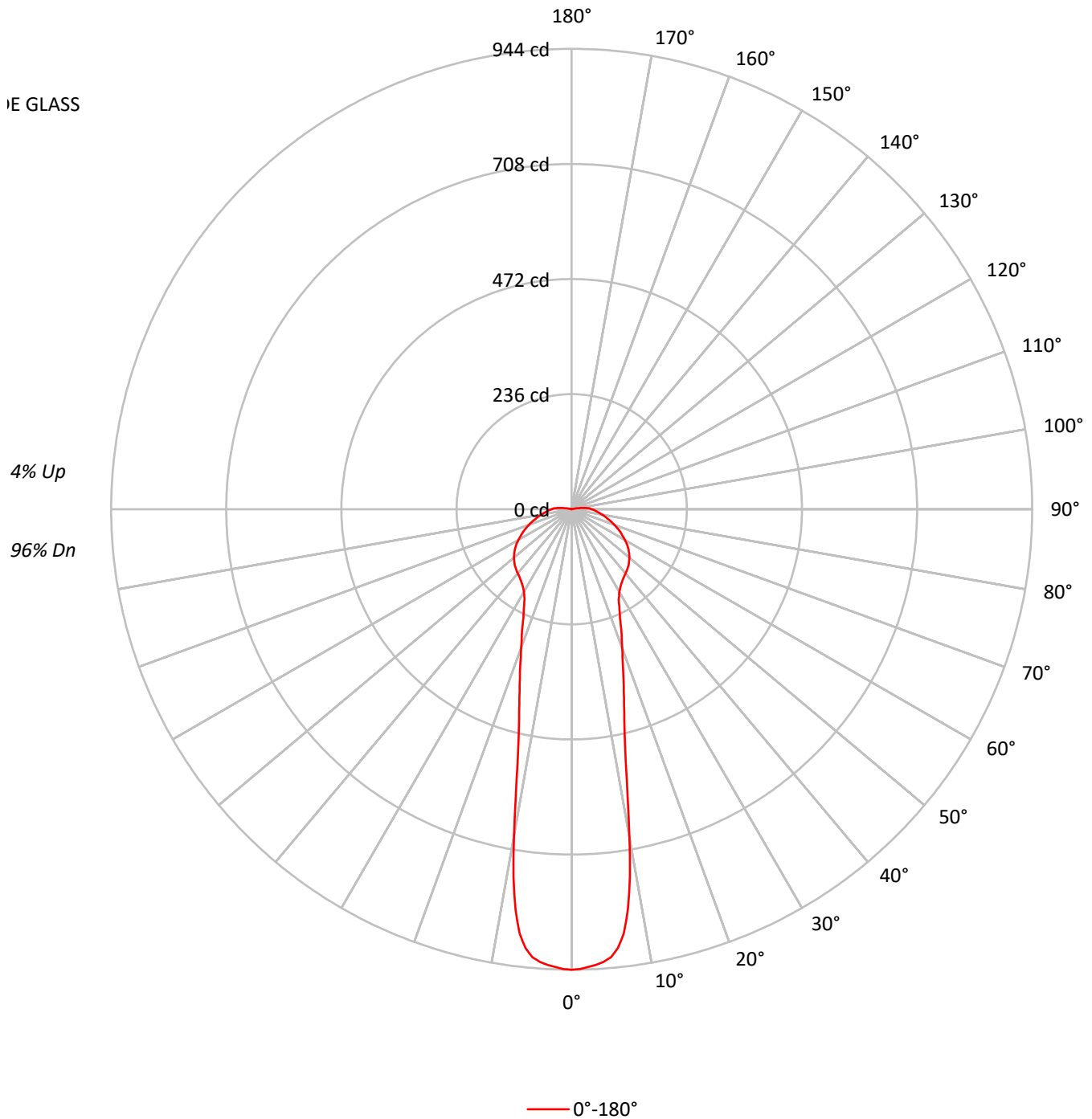
Lumens per Lamp: N/A
Luminaire Lumens: 957.1 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	109523
5°	93463
10°	61835
15°	34276
20°	23100
25°	16600
30°	13209
35°	11670
40°	10729
45°	9996
50°	9221
55°	8391
60°	7423
65°	6505
70°	5550
75°	4679
80°	3959
85°	3385

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9996 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	8.5
10°-20°	119.0	12.4
20°-30°	108.8	11.4
30°-40°	113.7	11.9
40°-50°	126.6	13.2
50°-60°	126.6	13.2
60°-70°	108.5	11.3
70°-80°	81.9	8.6
80°-90°	56.6	5.9
90°-100°	30.0	3.1
100°-110°	4.1	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°	308.9	32.3
0°-40°	422.6	44.2
0°-60°	675.8	70.6
0°-90°	922.9	96.4
90°-120°	34.2	3.6
90°-150°	34.2	3.6
90°-180°	34.0	3.6
0°-180°	957.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	944	
5°	922	81
15°	415	119
25°	232	109
35°	180	114
45°	164	127
55°	142	127
65°	110	109
75°	77	82
85°	52	45
90°	41	23
95°	28	19
105°	2	4
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°	944.3
1°	943.0
2°	939.3
3°	935.6
4°	930.7
5°	922.0
6°	904.7
7°	876.3
8°	828.1
9°	762.6
10°	682.2
11°	600.7
12°	532.7
13°	483.3
14°	444.9
15°	415.3
16°	388.1
17°	363.4
18°	341.1
19°	320.1
20°	302.8
21°	286.7
22°	271.9
23°	257.1
24°	243.5
25°	232.4
27.5°	208.9
30°	195.3
32.5°	186.6
35°	180.4
37.5°	175.5
40°	171.8
42.5°	168.1
45°	164.4
47.5°	159.4
50°	154.5
52.5°	148.3
55°	142.1
57.5°	134.7
60°	126.1
62.5°	117.4
65°	110.0
67.5°	101.3
70°	92.7
72.5°	85.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	76.6
77.5°	70.4
80°	63.0
82.5°	56.9
85°	51.9
87.5°	47.0
90°	40.8
92.5°	37.1
95°	28.4
97.5°	18.5
100°	11.1
102.5°	6.2
105°	2.5
107.5°	1.2
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)