

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: P701969

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9730-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701969
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-7)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-15-D010 / 340-EU4C-1020-9730-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

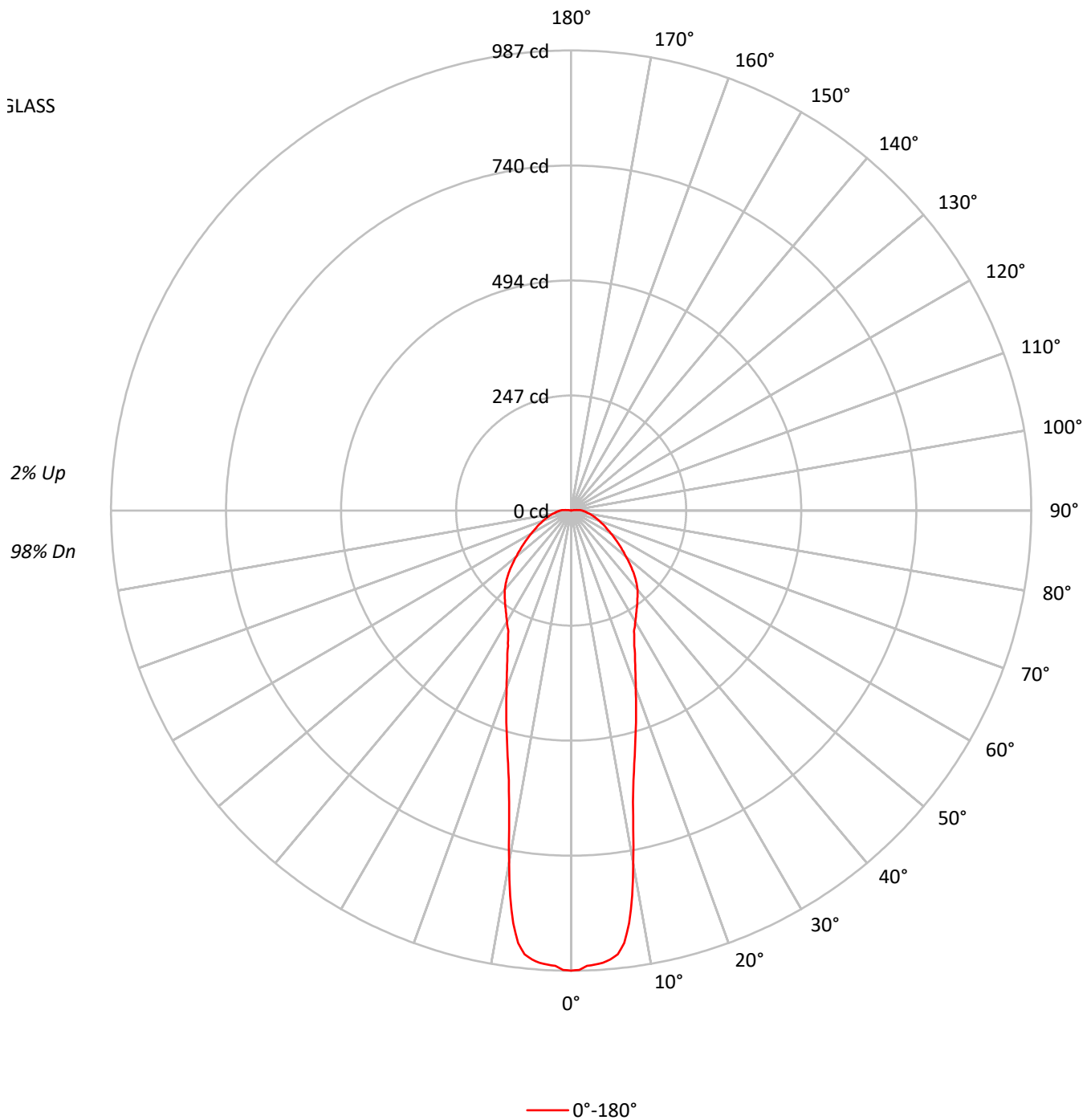
Lumens per Lamp: N/A
Luminaire Lumens: 983.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	104	100	97	106	102	98	95	97	94	92		93	91	89		89	87	86	83
2	100	93	87	81	98	91	85	80	87	82	78		84	80	76		80	77	74	72
3	93	83	76	70	90	82	75	69	78	73	68		75	71	66		73	69	65	63
4	86	75	67	61	84	74	66	61	71	65	60		69	63	59		66	62	58	56
5	80	69	60	54	78	67	60	54	65	58	53		63	57	53		61	56	52	50
6	75	63	55	49	73	62	54	49	60	53	48		58	52	48		57	51	47	45
7	70	58	50	45	69	57	50	44	56	49	44		54	48	44		53	47	43	41
8	66	54	46	41	65	53	46	41	52	45	40		50	44	40		49	44	40	38
9	62	50	43	38	61	50	43	38	48	42	37		47	41	37		46	41	37	35
10	59	47	40	35	58	47	40	35	45	39	35		44	39	35		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	114452
5°	97974
10°	69566
15°	43676
20°	30912
25°	22900
30°	18620
35°	15959
40°	13845
45°	11522
50°	9174
55°	7316
60°	5822
65°	4725
70°	3856
75°	3128
80°	2470
85°	2022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11522 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	8.8
10°-20°	149.6	15.2
20°-30°	149.8	15.2
30°-40°	154.6	15.7
40°-50°	145.5	14.8
50°-60°	111.5	11.3
60°-70°	79.5	8.1
70°-80°	54.3	5.5
80°-90°	34.0	3.5
90°-100°	16.1	1.6
100°-110°	1.4	0.1
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°	386.2	39.3
0°-40°	540.8	55.0
0°-60°	797.7	81.2
0°-90°	965.5	98.2
90°-120°	17.6	1.8
90°-150°	17.6	1.8
90°-180°	18.0	1.8
0°-180°	983.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	987	
5°	966	87
15°	529	150
25°	321	150
35°	247	155
45°	190	145
55°	124	111
65°	80	80
75°	51	54
85°	31	27
90°	24	13
95°	14	10
105°	0	1
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°	986.8
1°	985.6
2°	977.3
3°	974.9
4°	972.5
5°	966.5
6°	957.0
7°	934.4
8°	893.8
9°	836.6
10°	767.5
11°	697.2
12°	638.8
13°	593.5
14°	559.0
15°	529.2
16°	500.6
17°	475.5
18°	450.5
19°	426.7
20°	405.2
21°	384.9
22°	367.1
23°	350.4
24°	336.1
25°	320.6
27.5°	292.0
30°	275.3
32.5°	259.8
35°	246.7
37.5°	233.6
40°	221.7
42.5°	206.2
45°	189.5
47.5°	171.6
50°	153.7
52.5°	138.2
55°	123.9
57.5°	110.8
60°	98.9
62.5°	88.2
65°	79.9
67.5°	71.5
70°	64.4
72.5°	57.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	51.2
77.5°	45.3
80°	39.3
82.5°	34.6
85°	31.0
87.5°	27.4
90°	23.8
92.5°	20.3
95°	14.3
97.5°	9.5
100°	6.0
102.5°	2.4
105°	0.0
107.5°	0.0
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)