

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: P701913

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9730-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701913
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-10-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

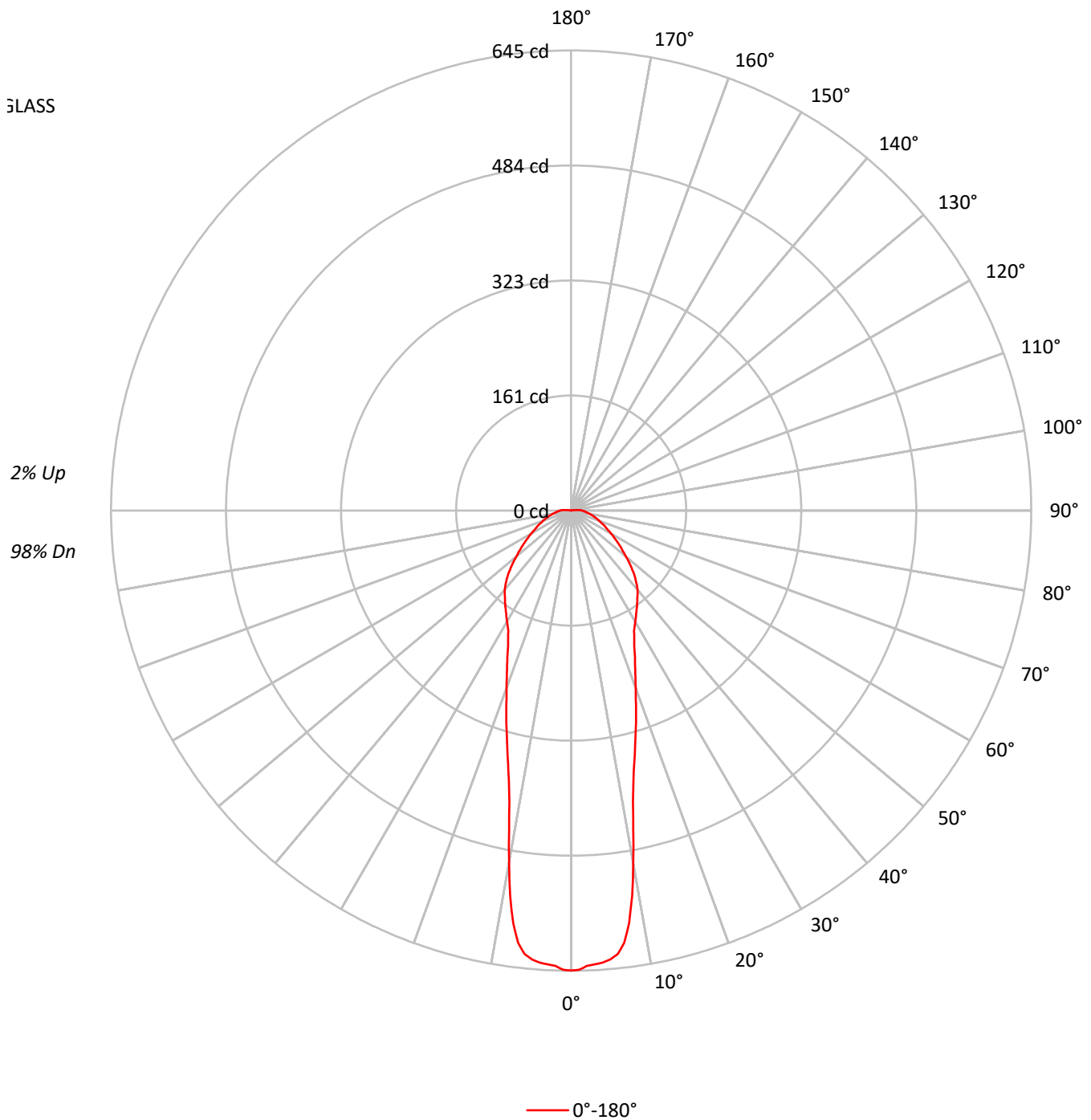
Lumens per Lamp: N/A
Luminaire Lumens: 642.1 lumens
Efficiency: N/A
Efficacy: 65.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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	42	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°	74763
5°	64005
10°	45438
15°	28523
20°	20194
25°	14957
30°	12161
35°	10422
40°	9042
45°	7527
50°	5992
55°	4783
60°	3803
65°	3087
70°	2514
75°	2046
80°	1615
85°	1317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 7527 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.7	8.8
10°-20°	97.7	15.2
20°-30°	97.9	15.2
30°-40°	101.0	15.7
40°-50°	95.0	14.8
50°-60°	72.9	11.3
60°-70°	51.9	8.1
70°-80°	35.5	5.5
80°-90°	22.2	3.5
90°-100°	10.5	1.6
100°-110°	1.0	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°	252.2	39.3
0°-40°	353.2	55.0
0°-60°	521.1	81.2
0°-90°	630.7	98.2
90°-120°	11.5	1.8
90°-150°	11.5	1.8
90°-180°	11.0	1.7
0°-180°	642.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	645	
5°	631	57
15°	346	98
25°	209	98
35°	161	101
45°	124	95
55°	81	73
65°	52	52
75°	34	35
85°	20	18
90°	16	9
95°	9	7
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°	644.6
1°	643.8
2°	638.4
3°	636.8
4°	635.2
5°	631.4
6°	625.1
7°	610.3
8°	583.9
9°	546.5
10°	501.3
11°	455.4
12°	417.3
13°	387.7
14°	365.1
15°	345.6
16°	327.0
17°	310.6
18°	294.3
19°	278.7
20°	264.7
21°	251.5
22°	239.8
23°	228.9
24°	219.5
25°	209.4
27.5°	190.7
30°	179.8
32.5°	169.7
35°	161.1
37.5°	152.6
40°	144.8
42.5°	134.7
45°	123.8
47.5°	112.1
50°	100.4
52.5°	90.3
55°	81.0
57.5°	72.4
60°	64.6
62.5°	57.6
65°	52.2
67.5°	46.7
70°	42.0
72.5°	37.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	33.5
77.5°	29.6
80°	25.7
82.5°	22.6
85°	20.2
87.5°	17.9
90°	15.6
92.5°	13.2
95°	9.3
97.5°	6.2
100°	3.9
102.5°	1.6
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)