

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: P702004

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702004
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-20-D010 / 340-EU4C-1020-9040-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

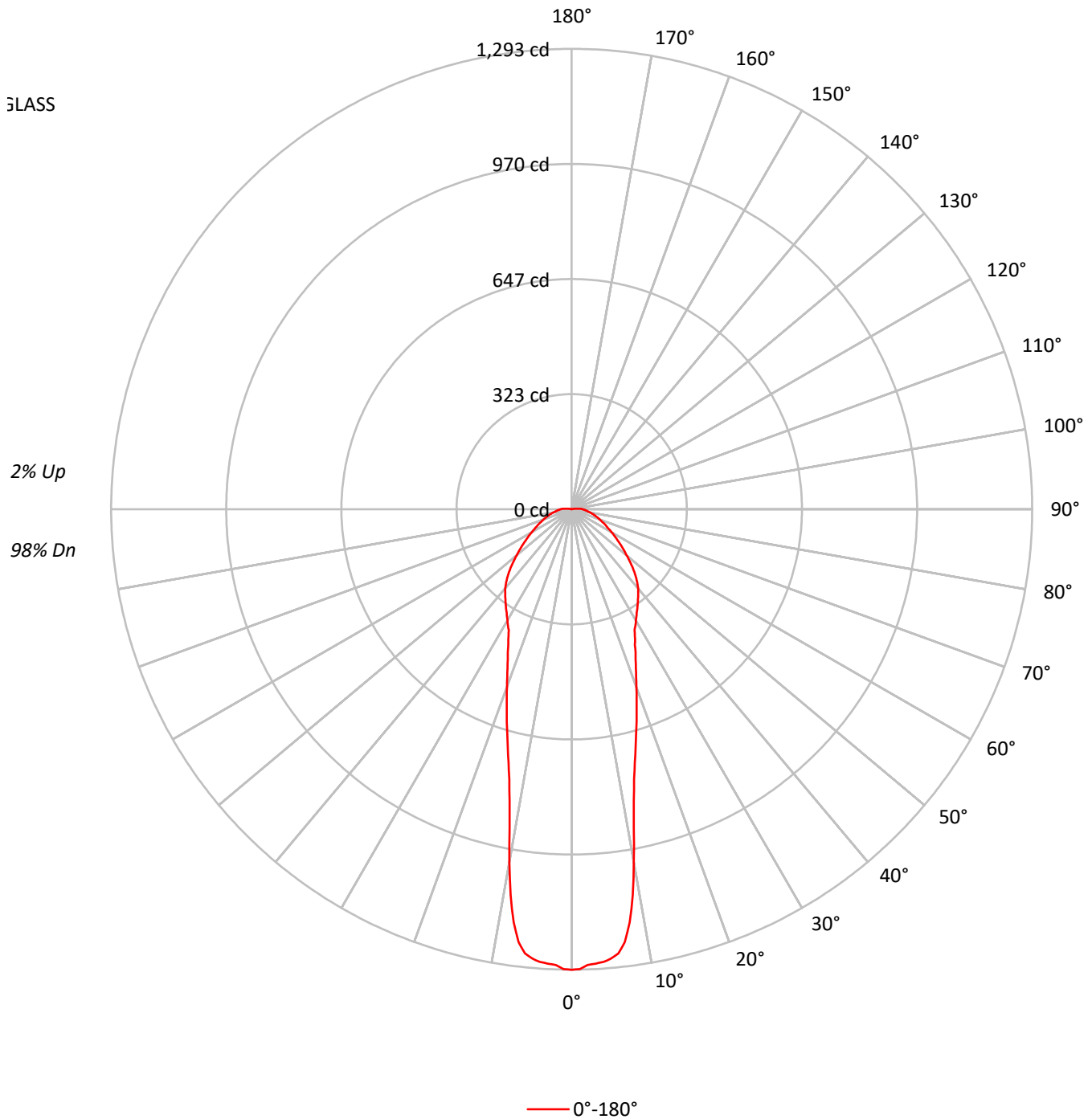
Lumens per Lamp: N/A
Luminaire Lumens: 1288.4 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 21.8
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°	150013
5°	128416
10°	91184
15°	57236
20°	40517
25°	30014
30°	24403
35°	20915
40°	18141
45°	15103
50°	12026
55°	9595
60°	7629
65°	6192
70°	5053
75°	4105
80°	3237
85°	2648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15103 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	8.8
10°-20°	196.1	15.2
20°-30°	196.4	15.2
30°-40°	202.6	15.7
40°-50°	190.6	14.8
50°-60°	146.2	11.3
60°-70°	104.2	8.1
70°-80°	71.2	5.5
80°-90°	44.5	3.5
90°-100°	21.1	1.6
100°-110°	1.9	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°	506.1	39.3
0°-40°	708.8	55.0
0°-60°	1045.6	81.2
0°-90°	1265.4	98.2
90°-120°	23.0	1.8
90°-150°	23.0	1.8
90°-180°	23.0	1.8
0°-180°	1288.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1293	
5°	1267	114
15°	694	196
25°	420	196
35°	323	203
45°	248	191
55°	162	146
65°	105	104
75°	67	71
85°	41	35
90°	31	17
95°	19	13
105°	0	2
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°	1293.4
1°	1291.8
2°	1280.9
3°	1277.8
4°	1274.6
5°	1266.8
6°	1254.3
7°	1224.6
8°	1171.5
9°	1096.6
10°	1006.0
11°	913.8
12°	837.3
13°	777.9
14°	732.6
15°	693.5
16°	656.1
17°	623.3
18°	590.5
19°	559.2
20°	531.1
21°	504.5
22°	481.1
23°	459.2
24°	440.5
25°	420.2
27.5°	382.7
30°	360.8
32.5°	340.5
35°	323.3
37.5°	306.2
40°	290.5
42.5°	270.2
45°	248.4
47.5°	224.9
50°	201.5
52.5°	181.2
55°	162.5
57.5°	145.3
60°	129.6
62.5°	115.6
65°	104.7
67.5°	93.7
70°	84.4
72.5°	75.0

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CANDELA DISTRIBUTION (continued):

	0°
75°	67.2
77.5°	59.4
80°	51.5
82.5°	45.3
85°	40.6
87.5°	35.9
90°	31.2
92.5°	26.6
95°	18.7
97.5°	12.5
100°	7.8
102.5°	3.1
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)