

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: P702011

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9050-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702011
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-1020-9050-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

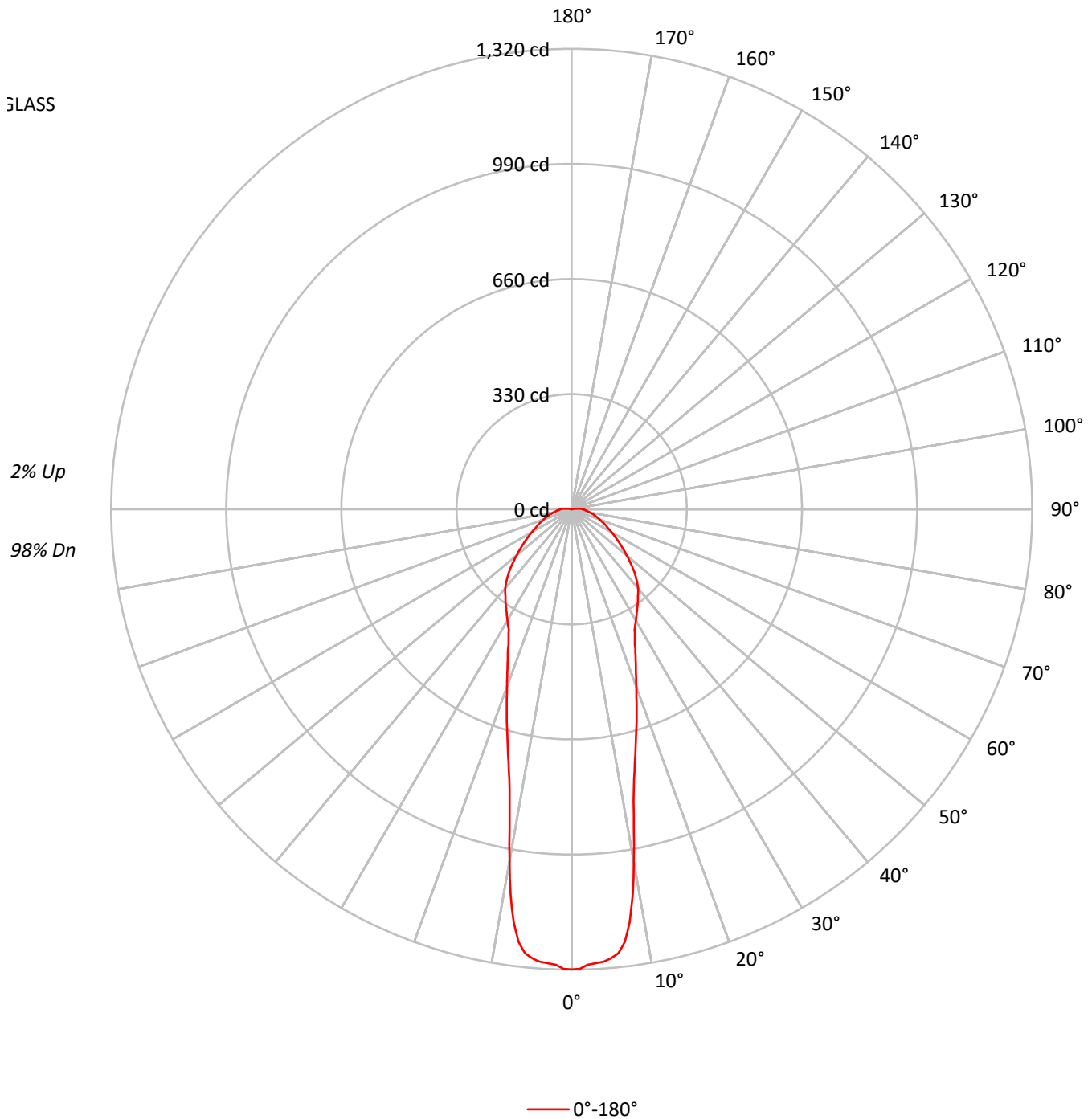
Lumens per Lamp: N/A
Luminaire Lumens: 1314.5 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	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°	153040
5°	131011
10°	93024
15°	58400
20°	41333
25°	30621
30°	24896
35°	21341
40°	18510
45°	15407
50°	12271
55°	9784
60°	7788
65°	6316
70°	5155
75°	4185
80°	3306
85°	2700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	8.8
10°-20°	200.0	15.2
20°-30°	200.3	15.2
30°-40°	206.7	15.7
40°-50°	194.5	14.8
50°-60°	149.1	11.3
60°-70°	106.3	8.1
70°-80°	72.6	5.5
80°-90°	45.4	3.5
90°-100°	21.5	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°	516.4	39.3
0°-40°	723.1	55.0
0°-60°	1066.7	81.2
0°-90°	1291.0	98.2
90°-120°	23.5	1.8
90°-150°	23.5	1.8
90°-180°	23.0	1.7
0°-180°	1314.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1320	
5°	1292	116
15°	708	200
25°	429	200
35°	330	207
45°	253	195
55°	166	149
65°	107	106
75°	68	73
85°	41	36
90°	32	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°	1319.5
1°	1317.9
2°	1306.8
3°	1303.6
4°	1300.4
5°	1292.4
6°	1279.7
7°	1249.4
8°	1195.2
9°	1118.7
10°	1026.3
11°	932.3
12°	854.2
13°	793.6
14°	747.4
15°	707.6
16°	669.3
17°	635.9
18°	602.4
19°	570.5
20°	541.8
21°	514.7
22°	490.8
23°	468.5
24°	449.4
25°	428.7
27.5°	390.4
30°	368.1
32.5°	347.4
35°	329.9
37.5°	312.3
40°	296.4
42.5°	275.7
45°	253.4
47.5°	229.5
50°	205.6
52.5°	184.9
55°	165.7
57.5°	148.2
60°	132.3
62.5°	117.9
65°	106.8
67.5°	95.6
70°	86.1
72.5°	76.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	68.5
77.5°	60.6
80°	52.6
82.5°	46.2
85°	41.4
87.5°	36.7
90°	31.9
92.5°	27.1
95°	19.1
97.5°	12.7
100°	8.0
102.5°	3.2
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)