

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: P702235

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702235
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-40-D010 / 340-EU4C-3040-9050-4LBW1LI-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

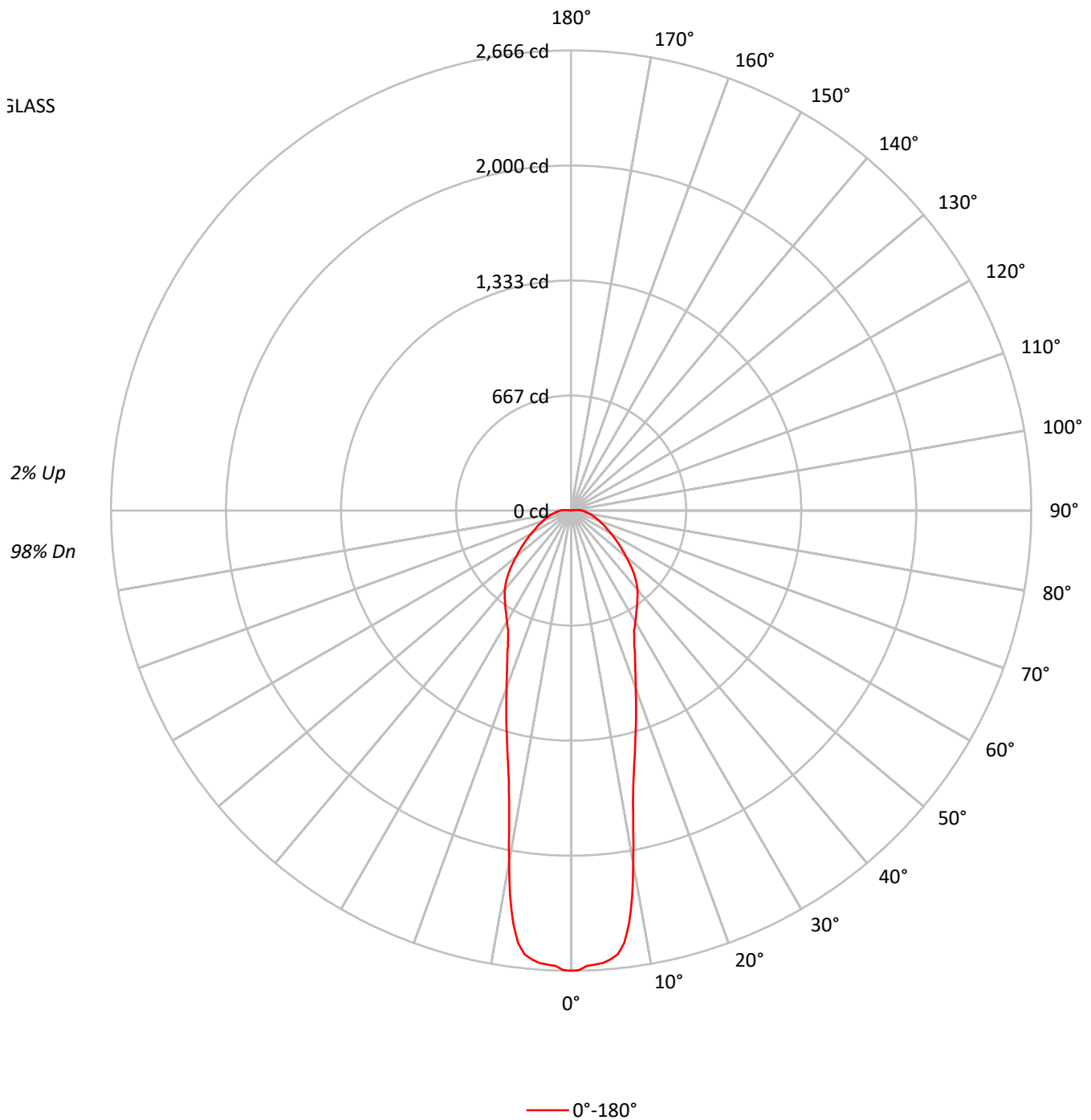
Lumens per Lamp: N/A
Luminaire Lumens: 2655.4 lumens
Efficiency: N/A
Efficacy: 56.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 47
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°	309176
5°	264667
10°	187924
15°	117971
20°	83505
25°	61857
30°	50300
35°	43110
40°	37394
45°	31125
50°	24787
55°	19769
60°	15730
65°	12756
70°	10405
75°	8455
80°	6674
85°	5459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31125 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.4	8.8
10°-20°	404.1	15.2
20°-30°	404.7	15.2
30°-40°	417.6	15.7
40°-50°	392.9	14.8
50°-60°	301.3	11.3
60°-70°	214.7	8.1
70°-80°	146.6	5.5
80°-90°	91.7	3.5
90°-100°	43.5	1.6
100°-110°	3.9	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°	1043.2	39.3
0°-40°	1460.8	55.0
0°-60°	2155.0	81.2
0°-90°	2608.0	98.2
90°-120°	47.4	1.8
90°-150°	47.4	1.8
90°-180°	47.0	1.8
0°-180°	2655.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2666	
5°	2611	234
15°	1429	404
25°	866	405
35°	666	418
45°	512	393
55°	335	301
65°	216	215
75°	138	147
85°	84	73
90°	64	35
95°	39	27
105°	0	4
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°	2665.7
1°	2662.4
2°	2639.9
3°	2633.5
4°	2627.0
5°	2610.9
6°	2585.2
7°	2524.0
8°	2414.5
9°	2260.0
10°	2073.3
11°	1883.3
12°	1725.6
13°	1603.3
14°	1509.9
15°	1429.4
16°	1352.1
17°	1284.5
18°	1216.9
19°	1152.5
20°	1094.6
21°	1039.9
22°	991.6
23°	946.5
24°	907.9
25°	866.0
27.5°	788.7
30°	743.7
32.5°	701.8
35°	666.4
37.5°	631.0
40°	598.8
42.5°	557.0
45°	511.9
47.5°	463.6
50°	415.3
52.5°	373.4
55°	334.8
57.5°	299.4
60°	267.2
62.5°	238.2
65°	215.7
67.5°	193.2
70°	173.8
72.5°	154.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	138.4
77.5°	122.3
80°	106.2
82.5°	93.4
85°	83.7
87.5°	74.0
90°	64.4
92.5°	54.7
95°	38.6
97.5°	25.8
100°	16.1
102.5°	6.4
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)