

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: P702067

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9050-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702067
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-25-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

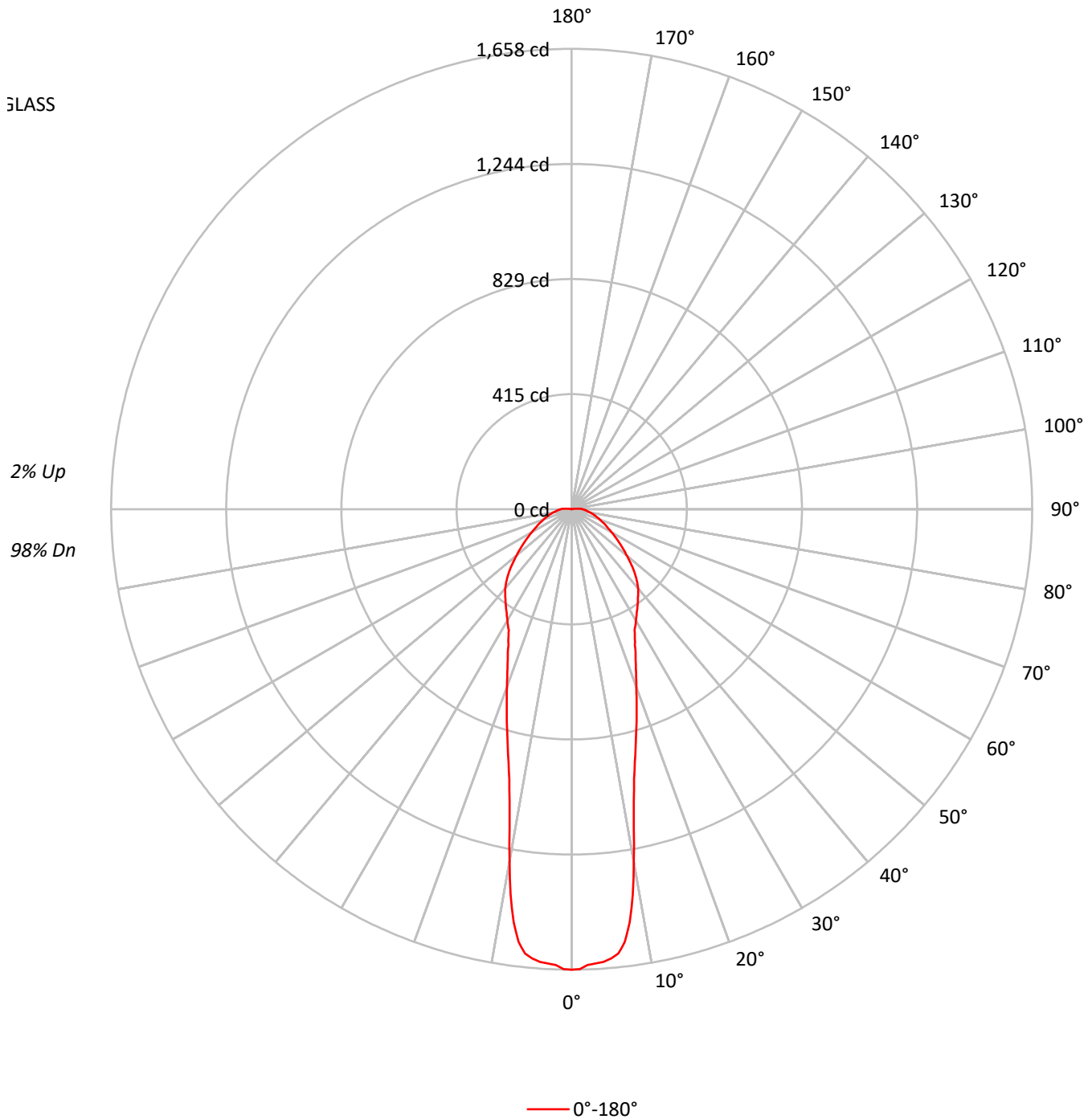
Lumens per Lamp: N/A
Luminaire Lumens: 1651.8 lumens
Efficiency: N/A
Efficacy: 52.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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°	192323
5°	164635
10°	116898
15°	73388
20°	51945
25°	38479
30°	31288
35°	26814
40°	23262
45°	19360
50°	15417
55°	12300
60°	9784
65°	7936
70°	6472
75°	5260
80°	4154
85°	3398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19360 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.8	8.8
10°-20°	251.4	15.2
20°-30°	251.7	15.2
30°-40°	259.8	15.7
40°-50°	244.4	14.8
50°-60°	187.4	11.3
60°-70°	133.6	8.1
70°-80°	91.2	5.5
80°-90°	57.1	3.5
90°-100°	27.1	1.6
100°-110°	2.4	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°	648.9	39.3
0°-40°	908.7	55.0
0°-60°	1340.5	81.2
0°-90°	1622.4	98.2
90°-120°	29.5	1.8
90°-150°	29.5	1.8
90°-180°	29.0	1.8
0°-180°	1651.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1658	
5°	1624	146
15°	889	251
25°	539	252
35°	414	260
45°	318	244
55°	208	187
65°	134	134
75°	86	91
85°	52	45
90°	40	22
95°	24	17
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°	1658.2
1°	1656.2
2°	1642.2
3°	1638.2
4°	1634.2
5°	1624.1
6°	1608.1
7°	1570.1
8°	1502.0
9°	1405.9
10°	1289.7
11°	1171.6
12°	1073.4
13°	997.3
14°	939.2
15°	889.2
16°	841.1
17°	799.1
18°	757.0
19°	716.9
20°	680.9
21°	646.9
22°	616.8
23°	588.8
24°	564.7
25°	538.7
27.5°	490.6
30°	462.6
32.5°	436.6
35°	414.5
37.5°	392.5
40°	372.5
42.5°	346.5
45°	318.4
47.5°	288.4
50°	258.3
52.5°	232.3
55°	208.3
57.5°	186.2
60°	166.2
62.5°	148.2
65°	134.2
67.5°	120.2
70°	108.1
72.5°	96.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	86.1
77.5°	76.1
80°	66.1
82.5°	58.1
85°	52.1
87.5°	46.1
90°	40.1
92.5°	34.0
95°	24.0
97.5°	16.0
100°	10.0
102.5°	4.0
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)