

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: P702130

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9727-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702130
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-30-D010 / 340-EU4C-3040-9727-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

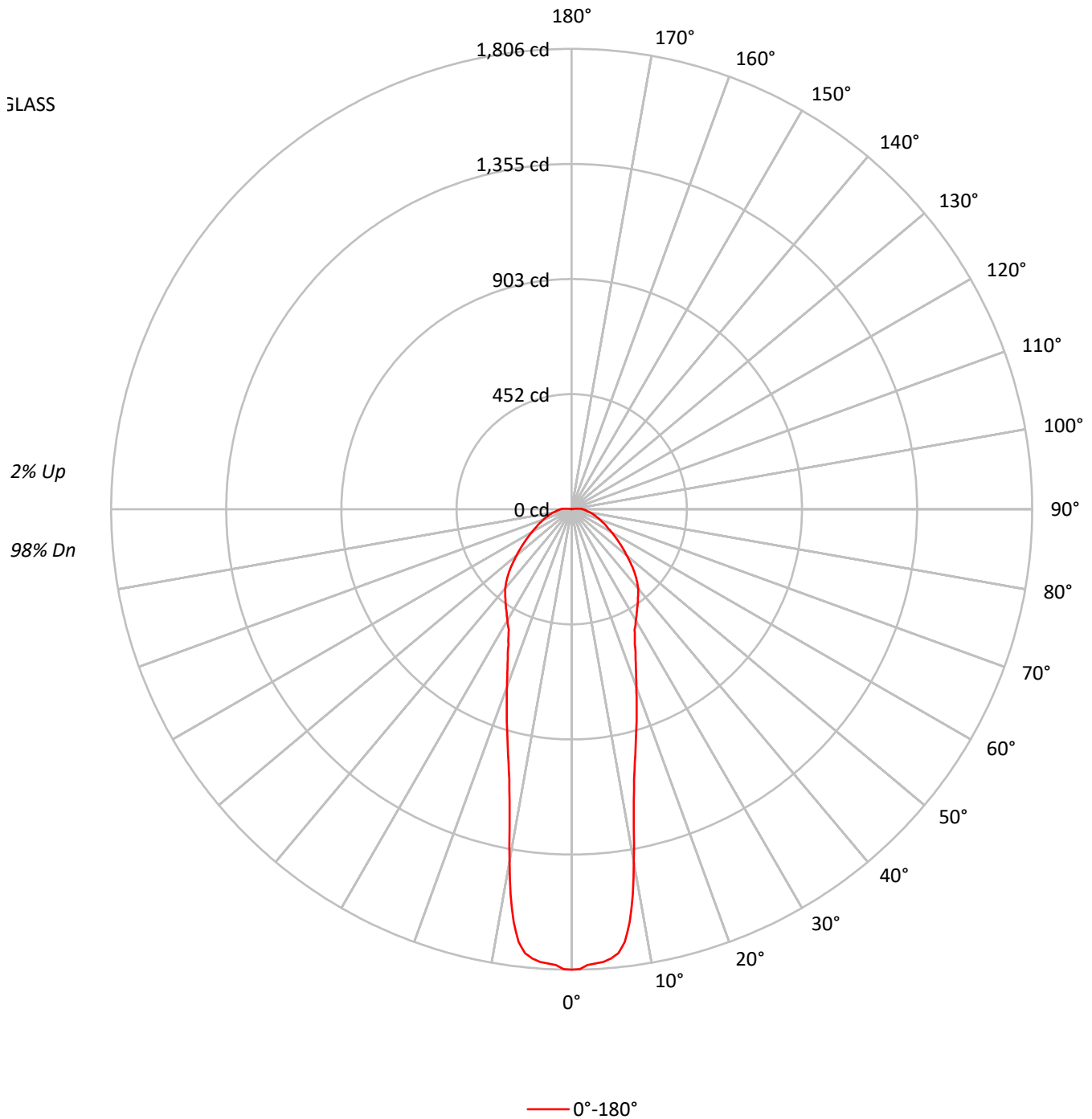
Lumens per Lamp: N/A
Luminaire Lumens: 1799.1 lumens
Efficiency: N/A
Efficacy: 56.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
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°	209454
5°	179314
10°	127313
15°	79924
20°	56576
25°	41907
30°	34074
35°	29208
40°	25335
45°	21086
50°	16795
55°	13392
60°	10655
65°	8640
70°	7053
75°	5730
80°	4525
85°	3698

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21086 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	8.8
10°-20°	273.8	15.2
20°-30°	274.2	15.2
30°-40°	283.0	15.7
40°-50°	266.2	14.8
50°-60°	204.1	11.3
60°-70°	145.5	8.1
70°-80°	99.3	5.5
80°-90°	62.2	3.5
90°-100°	29.5	1.6
100°-110°	2.6	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°	706.7	39.3
0°-40°	989.7	55.0
0°-60°	1460.0	81.2
0°-90°	1767.0	98.2
90°-120°	32.1	1.8
90°-150°	32.1	1.8
90°-180°	32.0	1.8
0°-180°	1799.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1806	
5°	1769	159
15°	968	274
25°	587	274
35°	452	283
45°	347	266
55°	227	204
65°	146	145
75°	94	99
85°	57	49
90°	44	24
95°	26	18
105°	0	3
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°	1805.9
1°	1803.8
2°	1788.5
3°	1784.1
4°	1779.8
5°	1768.9
6°	1751.4
7°	1710.0
8°	1635.8
9°	1531.1
10°	1404.6
11°	1275.9
12°	1169.1
13°	1086.2
14°	1022.9
15°	968.4
16°	916.1
17°	870.3
18°	824.5
19°	780.8
20°	741.6
21°	704.5
22°	671.8
23°	641.2
24°	615.1
25°	586.7
27.5°	534.4
30°	503.8
32.5°	475.5
35°	451.5
37.5°	427.5
40°	405.7
42.5°	377.3
45°	346.8
47.5°	314.1
50°	281.4
52.5°	253.0
55°	226.8
57.5°	202.8
60°	181.0
62.5°	161.4
65°	146.1
67.5°	130.9
70°	117.8
72.5°	104.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	93.8
77.5°	82.9
80°	72.0
82.5°	63.3
85°	56.7
87.5°	50.2
90°	43.6
92.5°	37.1
95°	26.2
97.5°	17.4
100°	10.9
102.5°	4.4
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)