

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: P702207

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702207
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-3040-9027-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

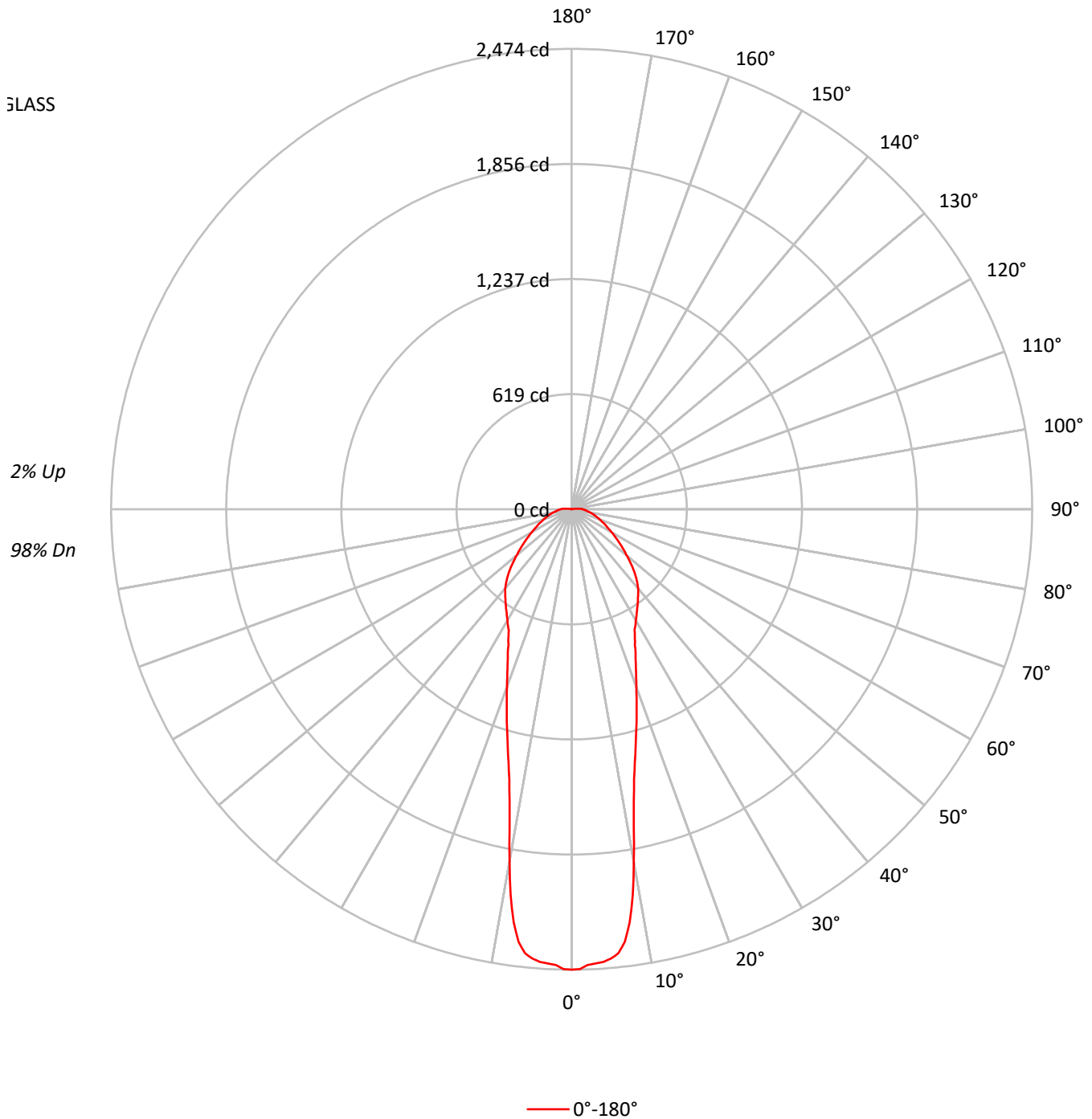
Lumens per Lamp: N/A
Luminaire Lumens: 2464.6 lumens
Efficiency: N/A
Efficacy: 52.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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°	286942
5°	245650
10°	174419
15°	109495
20°	77501
25°	57414
30°	46681
35°	40011
40°	34709
45°	28887
50°	23002
55°	18346
60°	14599
65°	11840
70°	9663
75°	7850
80°	6197
85°	5068

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28887 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	8.8
10°-20°	375.1	15.2
20°-30°	375.6	15.2
30°-40°	387.6	15.7
40°-50°	364.7	14.8
50°-60°	279.6	11.3
60°-70°	199.3	8.1
70°-80°	136.1	5.5
80°-90°	85.1	3.5
90°-100°	40.4	1.6
100°-110°	3.6	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°	968.2	39.3
0°-40°	1355.8	55.0
0°-60°	2000.1	81.2
0°-90°	2420.6	98.2
90°-120°	44.0	1.8
90°-150°	44.0	1.8
90°-180°	44.0	1.8
0°-180°	2464.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2474	
5°	2423	218
15°	1327	375
25°	804	376
35°	618	388
45°	475	365
55°	311	280
65°	200	199
75°	128	136
85°	78	68
90°	60	33
95°	36	25
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°	2474.0
1°	2471.1
2°	2450.1
3°	2444.2
4°	2438.2
5°	2423.3
6°	2399.3
7°	2342.6
8°	2241.0
9°	2097.6
10°	1924.3
11°	1748.0
12°	1601.6
13°	1488.0
14°	1401.4
15°	1326.7
16°	1255.0
17°	1192.2
18°	1129.5
19°	1069.7
20°	1015.9
21°	965.1
22°	920.3
23°	878.5
24°	842.6
25°	803.8
27.5°	732.1
30°	690.2
32.5°	651.4
35°	618.5
37.5°	585.6
40°	555.8
42.5°	516.9
45°	475.1
47.5°	430.3
50°	385.4
52.5°	346.6
55°	310.7
57.5°	277.9
60°	248.0
62.5°	221.1
65°	200.2
67.5°	179.3
70°	161.4
72.5°	143.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	128.5
77.5°	113.5
80°	98.6
82.5°	86.7
85°	77.7
87.5°	68.7
90°	59.8
92.5°	50.8
95°	35.9
97.5°	23.9
100°	14.9
102.5°	6.0
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)