

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: P702088

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702088
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-3040-9024-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

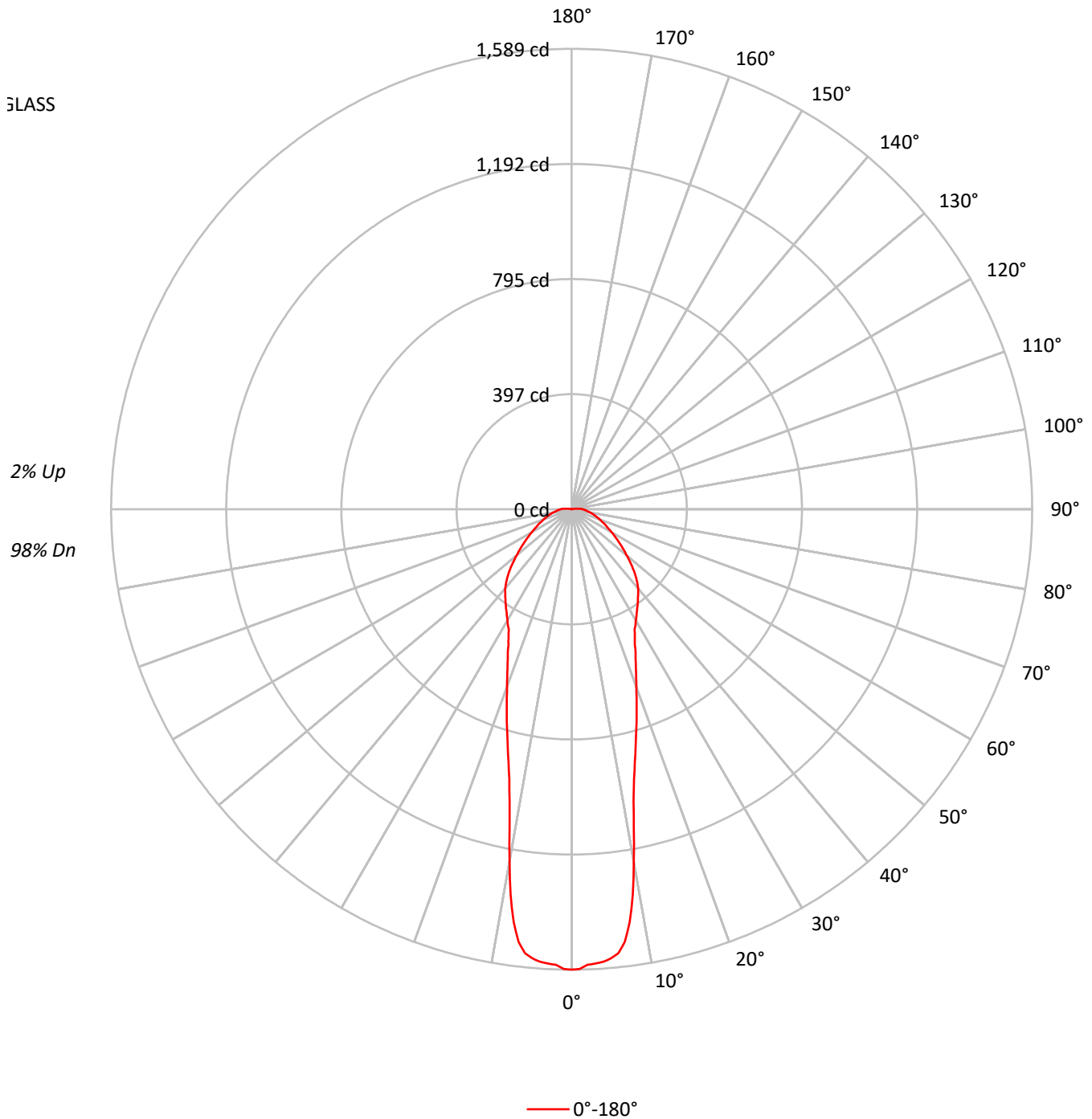
Lumens per Lamp: N/A
Luminaire Lumens: 1582.7 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	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°	184274
5°	157752
10°	112004
15°	70317
20°	49771
25°	36871
30°	29976
35°	25695
40°	22288
45°	18551
50°	14772
55°	11786
60°	9378
65°	7605
70°	6202
75°	5040
80°	3978
85°	3254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18551 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	8.8
10°-20°	240.9	15.2
20°-30°	241.2	15.2
30°-40°	248.9	15.7
40°-50°	234.2	14.8
50°-60°	179.6	11.3
60°-70°	128.0	8.1
70°-80°	87.4	5.5
80°-90°	54.6	3.5
90°-100°	26.0	1.6
100°-110°	2.3	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°	621.8	39.3
0°-40°	870.7	55.0
0°-60°	1284.4	81.2
0°-90°	1554.4	98.2
90°-120°	28.3	1.8
90°-150°	28.3	1.8
90°-180°	28.0	1.8
0°-180°	1582.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1589	
5°	1556	140
15°	852	241
25°	516	241
35°	397	249
45°	305	234
55°	200	180
65°	129	128
75°	82	87
85°	50	43
90°	38	21
95°	23	16
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°	1588.8
1°	1586.9
2°	1573.4
3°	1569.6
4°	1565.7
5°	1556.2
6°	1540.8
7°	1504.3
8°	1439.1
9°	1347.0
10°	1235.7
11°	1122.5
12°	1028.5
13°	955.6
14°	899.9
15°	852.0
16°	805.9
17°	765.6
18°	725.3
19°	686.9
20°	652.4
21°	619.8
22°	591.0
23°	564.1
24°	541.1
25°	516.2
27.5°	470.1
30°	443.2
32.5°	418.3
35°	397.2
37.5°	376.1
40°	356.9
42.5°	332.0
45°	305.1
47.5°	276.3
50°	247.5
52.5°	222.6
55°	199.6
57.5°	178.4
60°	159.3
62.5°	142.0
65°	128.6
67.5°	115.1
70°	103.6
72.5°	92.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	82.5
77.5°	72.9
80°	63.3
82.5°	55.6
85°	49.9
87.5°	44.1
90°	38.4
92.5°	32.6
95°	23.0
97.5°	15.4
100°	9.6
102.5°	3.8
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)