

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: P702137

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9730-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702137
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-3040-9730-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

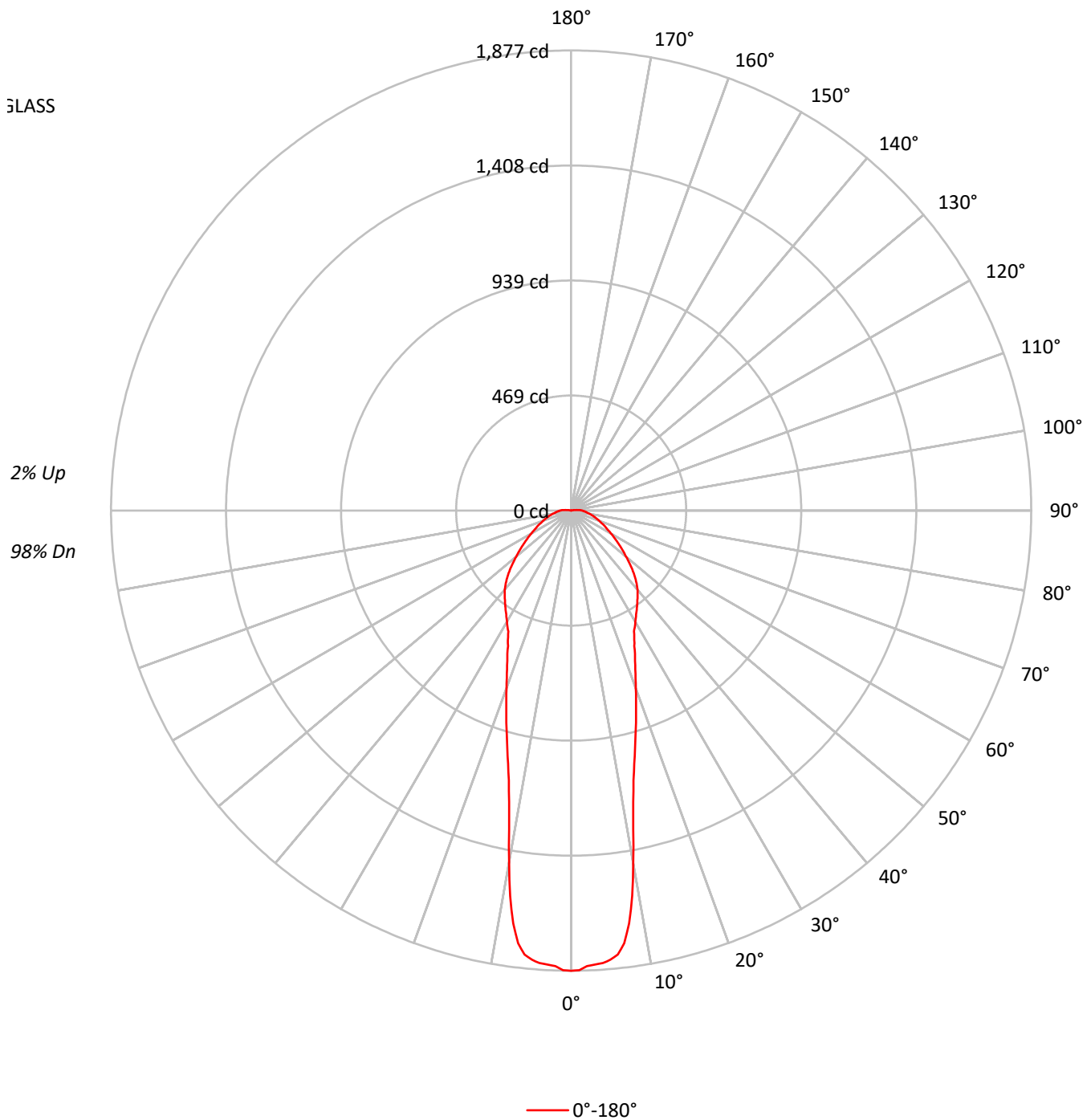
Lumens per Lamp: N/A
Luminaire Lumens: 1870.1 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	217735
5°	186399
10°	132353
15°	83085
20°	58811
25°	43564
30°	35427
35°	30359
40°	26334
45°	21919
50°	17458
55°	13924
60°	11079
65°	8983
70°	7328
75°	5956
80°	4701
85°	3848

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21919 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	8.8
10°-20°	284.6	15.2
20°-30°	285.0	15.2
30°-40°	294.1	15.7
40°-50°	276.7	14.8
50°-60°	212.2	11.3
60°-70°	151.2	8.1
70°-80°	103.3	5.5
80°-90°	64.6	3.5
90°-100°	30.6	1.6
100°-110°	2.7	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°	734.7	39.3
0°-40°	1028.8	55.0
0°-60°	1517.7	81.2
0°-90°	1836.8	98.2
90°-120°	33.3	1.8
90°-150°	33.3	1.8
90°-180°	33.0	1.8
0°-180°	1870.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1877	
5°	1839	165
15°	1007	285
25°	610	285
35°	469	294
45°	360	277
55°	236	212
65°	152	151
75°	98	103
85°	59	51
90°	45	25
95°	27	19
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°	1877.3
1°	1875.1
2°	1859.2
3°	1854.7
4°	1850.1
5°	1838.8
6°	1820.7
7°	1777.6
8°	1700.5
9°	1591.7
10°	1460.2
11°	1326.4
12°	1215.3
13°	1129.1
14°	1063.4
15°	1006.7
16°	952.3
17°	904.7
18°	857.0
19°	811.7
20°	770.9
21°	732.3
22°	698.3
23°	666.6
24°	639.4
25°	609.9
27.5°	555.5
30°	523.8
32.5°	494.3
35°	469.3
37.5°	444.4
40°	421.7
42.5°	392.2
45°	360.5
47.5°	326.5
50°	292.5
52.5°	263.0
55°	235.8
57.5°	210.9
60°	188.2
62.5°	167.8
65°	151.9
67.5°	136.0
70°	122.4
72.5°	108.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	97.5
77.5°	86.2
80°	74.8
82.5°	65.8
85°	59.0
87.5°	52.1
90°	45.3
92.5°	38.5
95°	27.2
97.5°	18.1
100°	11.3
102.5°	4.5
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)