

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: P702025

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9730-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702025
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-20-D010 / 340-EU4C-1020-9730-4LBW1LI-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

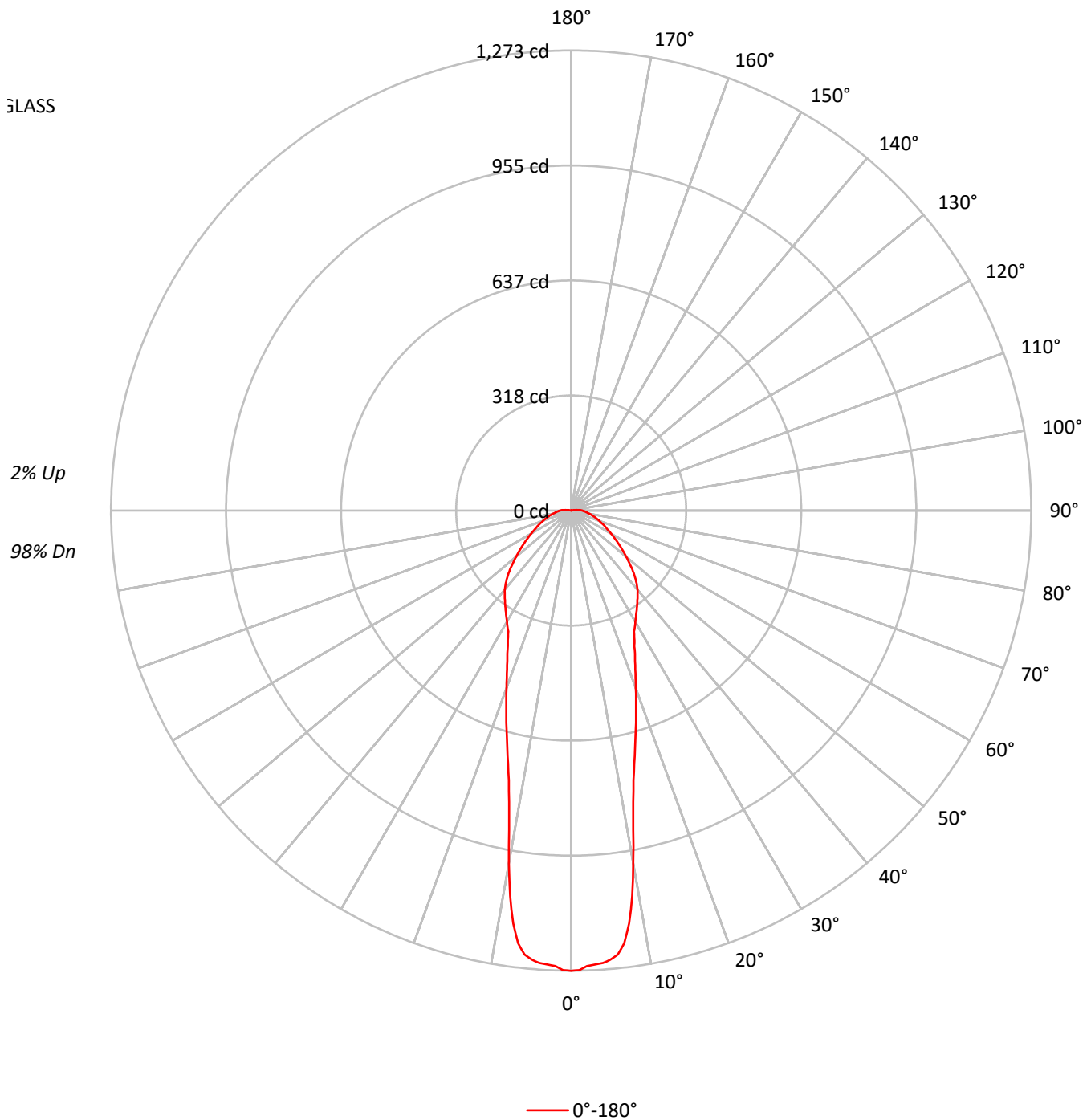
Lumens per Lamp: N/A
Luminaire Lumens: 1268.5 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 21.8
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°	147693
5°	126429
10°	89770
15°	56353
20°	39891
25°	29550
30°	24031
35°	20591
40°	17866
45°	14866
50°	11841
55°	9442
60°	7512
65°	6091
70°	4969
75°	4038
80°	3193
85°	2609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	8.8
10°-20°	193.0	15.2
20°-30°	193.3	15.2
30°-40°	199.5	15.7
40°-50°	187.7	14.8
50°-60°	143.9	11.3
60°-70°	102.6	8.1
70°-80°	70.0	5.5
80°-90°	43.8	3.5
90°-100°	20.8	1.6
100°-110°	1.9	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°	498.3	39.3
0°-40°	697.8	55.0
0°-60°	1029.5	81.2
0°-90°	1245.9	98.2
90°-120°	22.7	1.8
90°-150°	22.7	1.8
90°-180°	23.0	1.8
0°-180°	1268.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1273	
5°	1247	112
15°	683	193
25°	414	193
35°	318	200
45°	244	188
55°	160	144
65°	103	103
75°	66	70
85°	40	35
90°	31	17
95°	18	13
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°	1273.4
1°	1271.9
2°	1261.1
3°	1258.0
4°	1254.9
5°	1247.2
6°	1234.9
7°	1205.7
8°	1153.4
9°	1079.6
10°	990.4
11°	899.7
12°	824.3
13°	765.9
14°	721.3
15°	682.8
16°	645.9
17°	613.6
18°	581.3
19°	550.6
20°	522.9
21°	496.7
22°	473.7
23°	452.1
24°	433.7
25°	413.7
27.5°	376.8
30°	355.3
32.5°	335.3
35°	318.3
37.5°	301.4
40°	286.1
42.5°	266.1
45°	244.5
47.5°	221.5
50°	198.4
52.5°	178.4
55°	159.9
57.5°	143.0
60°	127.6
62.5°	113.8
65°	103.0
67.5°	92.3
70°	83.0
72.5°	73.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	66.1
77.5°	58.4
80°	50.8
82.5°	44.6
85°	40.0
87.5°	35.4
90°	30.8
92.5°	26.1
95°	18.5
97.5°	12.3
100°	7.7
102.5°	3.1
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)