

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: P701976

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701976
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-1020-9024-4LBW1LI-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

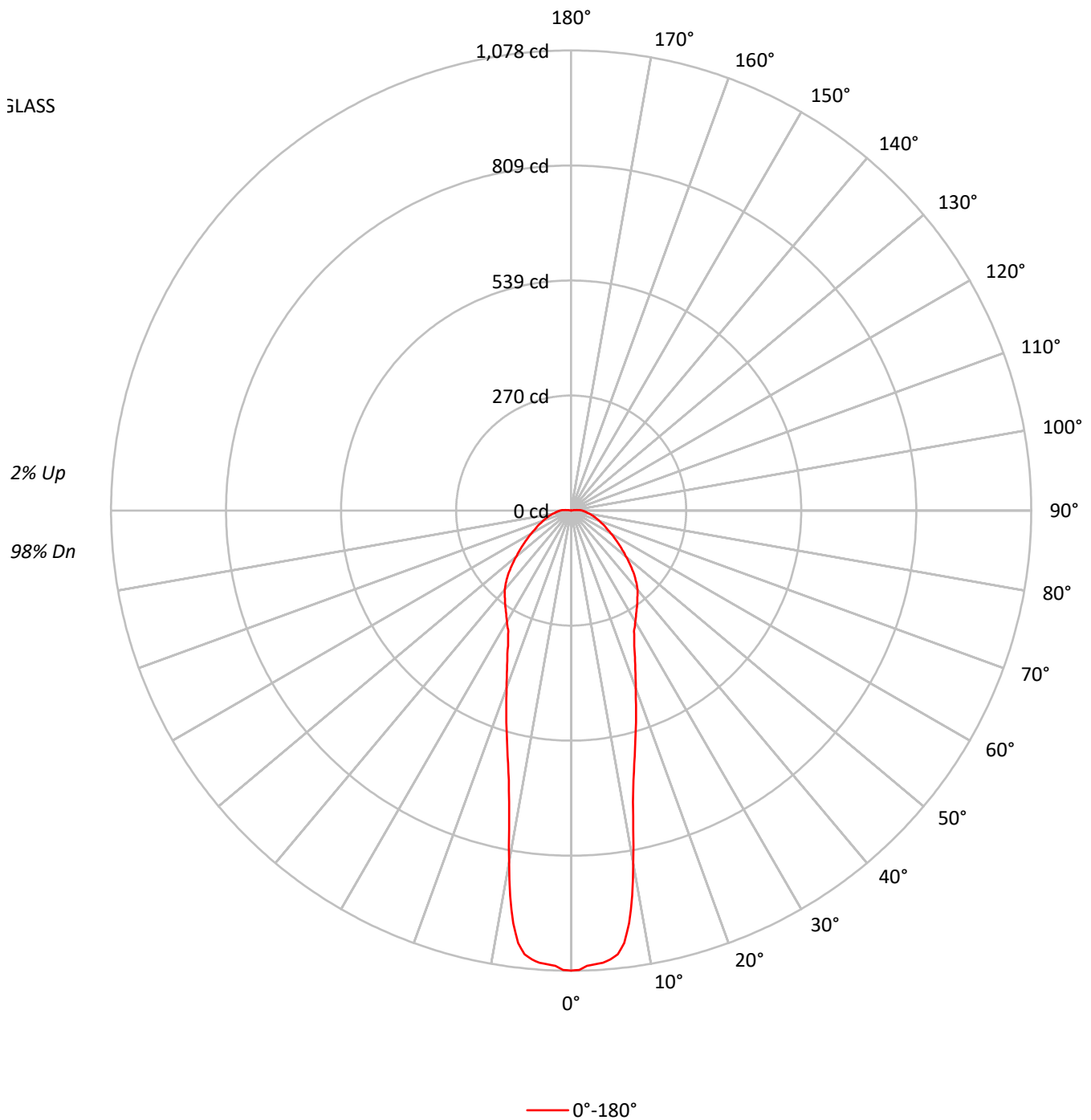
Lumens per Lamp: N/A
Luminaire Lumens: 1073.5 lumens
Efficiency: N/A
Efficacy: 49.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	124995
5°	106996
10°	75974
15°	47695
20°	33758
25°	25007
30°	20338
35°	17428
40°	15119
45°	12580
50°	10021
55°	7995
60°	6358
65°	5157
70°	4209
75°	3421
80°	2702
85°	2204

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12580 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	8.8
10°-20°	163.4	15.2
20°-30°	163.6	15.2
30°-40°	168.8	15.7
40°-50°	158.8	14.8
50°-60°	121.8	11.3
60°-70°	86.8	8.1
70°-80°	59.3	5.5
80°-90°	37.0	3.5
90°-100°	17.6	1.6
100°-110°	1.6	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°	421.7	39.3
0°-40°	590.6	55.0
0°-60°	871.2	81.2
0°-90°	1054.4	98.2
90°-120°	19.1	1.8
90°-150°	19.1	1.8
90°-180°	19.0	1.8
0°-180°	1073.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1078	
5°	1056	95
15°	578	163
25°	350	164
35°	269	169
45°	207	159
55°	135	122
65°	87	87
75°	56	59
85°	34	29
90°	26	14
95°	16	11
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1077.7
1°	1076.4
2°	1067.2
3°	1064.6
4°	1062.0
5°	1055.5
6°	1045.1
7°	1020.4
8°	976.1
9°	913.7
10°	838.2
11°	761.4
12°	697.6
13°	648.2
14°	610.4
15°	577.9
16°	546.6
17°	519.3
18°	492.0
19°	465.9
20°	442.5
21°	420.4
22°	400.9
23°	382.6
24°	367.0
25°	350.1
27.5°	318.9
30°	300.7
32.5°	283.7
35°	269.4
37.5°	255.1
40°	242.1
42.5°	225.2
45°	206.9
47.5°	187.4
50°	167.9
52.5°	151.0
55°	135.4
57.5°	121.0
60°	108.0
62.5°	96.3
65°	87.2
67.5°	78.1
70°	70.3
72.5°	62.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	56.0
77.5°	49.5
80°	43.0
82.5°	37.7
85°	33.8
87.5°	29.9
90°	26.0
92.5°	22.1
95°	15.6
97.5°	10.4
100°	6.5
102.5°	2.6
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)