

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: P701990

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701990
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-1020-9030-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

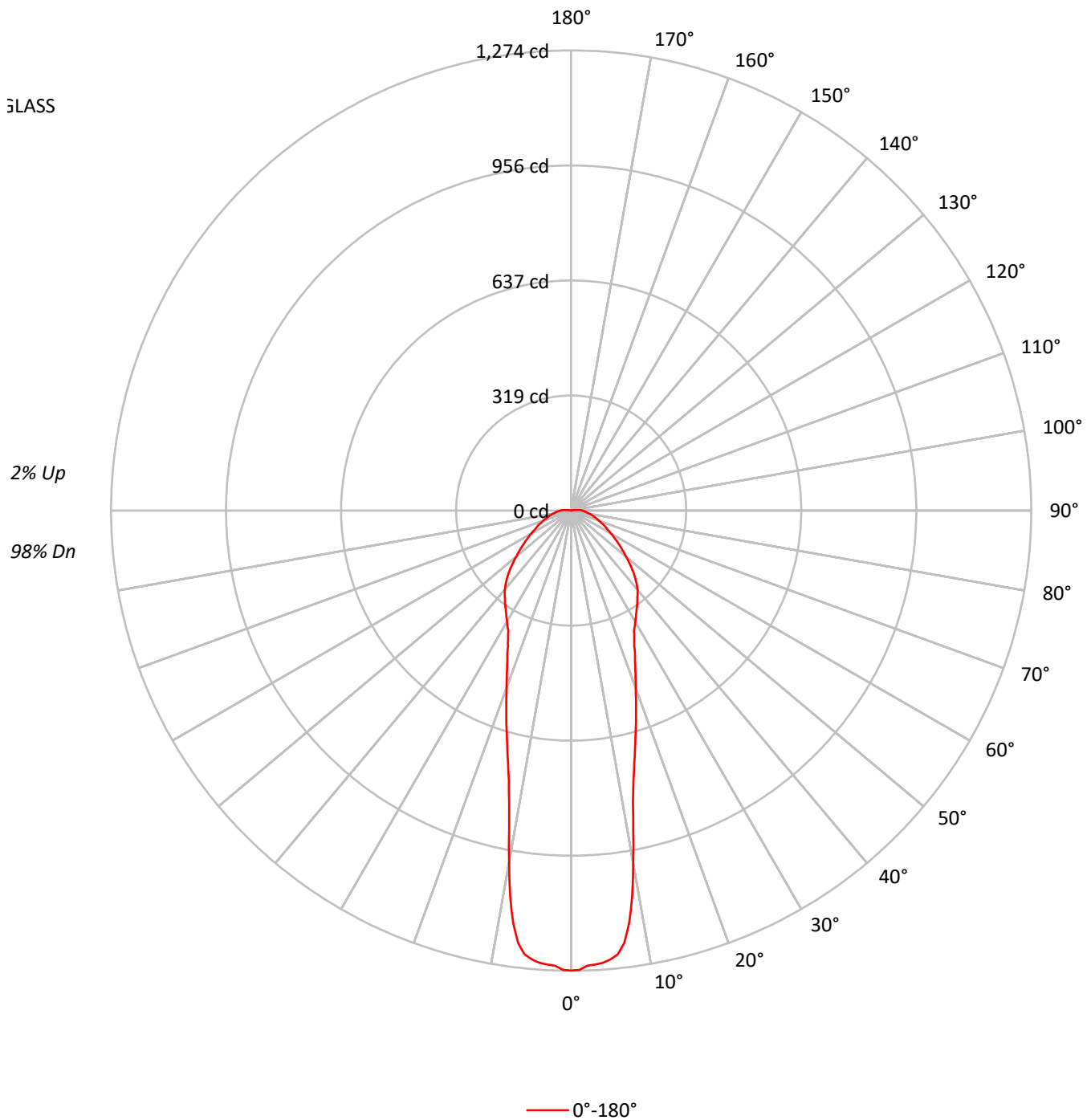
Lumens per Lamp: N/A
Luminaire Lumens: 1268.9 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

TEST NUMBER: P701990

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9030-4LBW1LI-GFC

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	42	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°	147728
5°	126469
10°	89797
15°	56369
20°	39899
25°	29557
30°	24031
35°	20598
40°	17866
45°	14872
50°	11841
55°	9448
60°	7518
65°	6097
70°	4975
75°	4038
80°	3193
85°	2609

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14872 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.0	8.8
10°-20°	193.1	15.2
20°-30°	193.4	15.2
30°-40°	199.5	15.7
40°-50°	187.7	14.8
50°-60°	144.0	11.3
60°-70°	102.6	8.1
70°-80°	70.1	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°	498.5	39.3
0°-40°	698.0	55.0
0°-60°	1029.7	81.1
0°-90°	1246.2	98.2
90°-120°	22.7	1.8
90°-150°	22.7	1.8
90°-180°	23.0	1.8
0°-180°	1268.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1274	
5°	1248	112
15°	683	193
25°	414	193
35°	318	200
45°	245	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°	1273.7
1°	1272.2
2°	1261.4
3°	1258.3
4°	1255.3
5°	1247.6
6°	1235.3
7°	1206.0
8°	1153.7
9°	1079.9
10°	990.7
11°	899.9
12°	824.5
13°	766.1
14°	721.5
15°	683.0
16°	646.1
17°	613.8
18°	581.5
19°	550.7
20°	523.0
21°	496.9
22°	473.8
23°	452.3
24°	433.8
25°	413.8
27.5°	376.9
30°	355.3
32.5°	335.3
35°	318.4
37.5°	301.5
40°	286.1
42.5°	266.1
45°	244.6
47.5°	221.5
50°	198.4
52.5°	178.4
55°	160.0
57.5°	143.1
60°	127.7
62.5°	113.8
65°	103.1
67.5°	92.3
70°	83.1
72.5°	73.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	66.1
77.5°	58.5
80°	50.8
82.5°	44.6
85°	40.0
87.5°	35.4
90°	30.8
92.5°	26.2
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)