

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: P701983

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701983
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-1020-9027-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

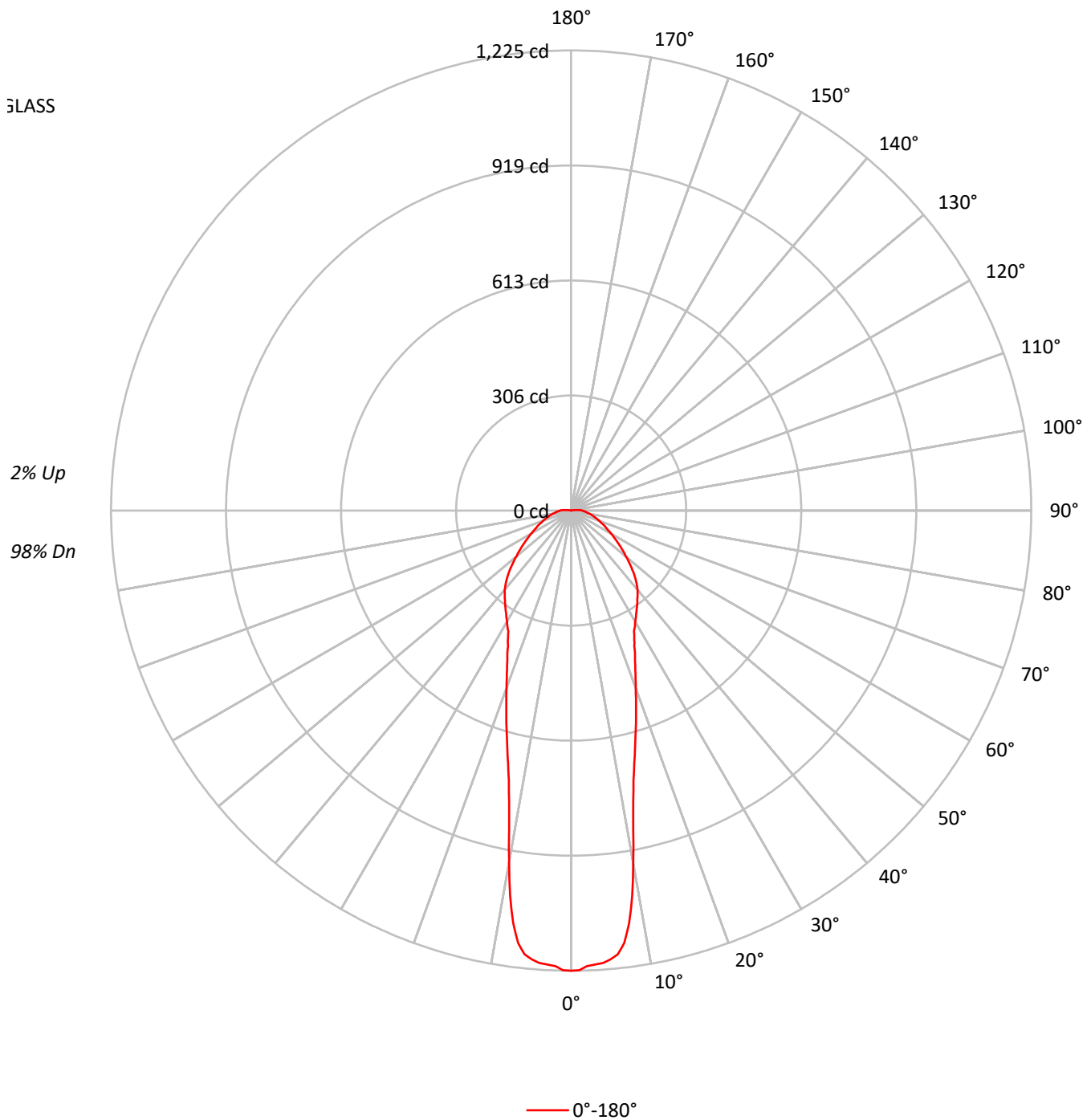
Lumens per Lamp: N/A
Luminaire Lumens: 1220.3 lumens
Efficiency: N/A
Efficacy: 56.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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: P701983

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC

Luminous Intensity Polar Plot



TEST NUMBER: P701983

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC

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°	142079
5°	121624
10°	86362
15°	54215
20°	38373
25°	28429
30°	23111
35°	19808
40°	17186
45°	14301
50°	11388
55°	9088
60°	7229
65°	5861
70°	4784
75°	3885
80°	3067
85°	2511

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 14301 cd/sqm

TEST NUMBER: P701983

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.7	8.8
10°-20°	185.7	15.2
20°-30°	186.0	15.2
30°-40°	191.9	15.7
40°-50°	180.5	14.8
50°-60°	138.5	11.3
60°-70°	98.7	8.1
70°-80°	67.4	5.5
80°-90°	42.1	3.5
90°-100°	20.0	1.6
100°-110°	1.8	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°	479.4	39.3
0°-40°	671.3	55.0
0°-60°	990.3	81.2
0°-90°	1198.5	98.2
90°-120°	21.8	1.8
90°-150°	21.8	1.8
90°-180°	22.0	1.8
0°-180°	1220.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1225	
5°	1200	108
15°	657	186
25°	398	186
35°	306	192
45°	235	181
55°	154	138
65°	99	99
75°	64	67
85°	38	33
90°	30	16
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

TEST NUMBER: P701983

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC

CANDELA DISTRIBUTION (FULL):

0°	
0°	1225.0
1°	1223.5
2°	1213.1
3°	1210.2
4°	1207.2
5°	1199.8
6°	1188.0
7°	1159.9
8°	1109.6
9°	1038.6
10°	952.8
11°	865.5
12°	793.0
13°	736.8
14°	693.9
15°	656.9
16°	621.4
17°	590.3
18°	559.2
19°	529.6
20°	503.0
21°	477.9
22°	455.7
23°	435.0
24°	417.2
25°	398.0
27.5°	362.5
30°	341.7
32.5°	322.5
35°	306.2
37.5°	290.0
40°	275.2
42.5°	255.9
45°	235.2
47.5°	213.0
50°	190.8
52.5°	171.6
55°	153.9
57.5°	137.6
60°	122.8
62.5°	109.5
65°	99.1
67.5°	88.8
70°	79.9
72.5°	71.0

TEST NUMBER: P701983

CATALOG NUMBER: 340-4C-20-D010 / 340-EU4C-1020-9027-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	63.6
77.5°	56.2
80°	48.8
82.5°	42.9
85°	38.5
87.5°	34.0
90°	29.6
92.5°	25.2
95°	17.8
97.5°	11.8
100°	7.4
102.5°	3.0
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)