

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: P701984

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

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)
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-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

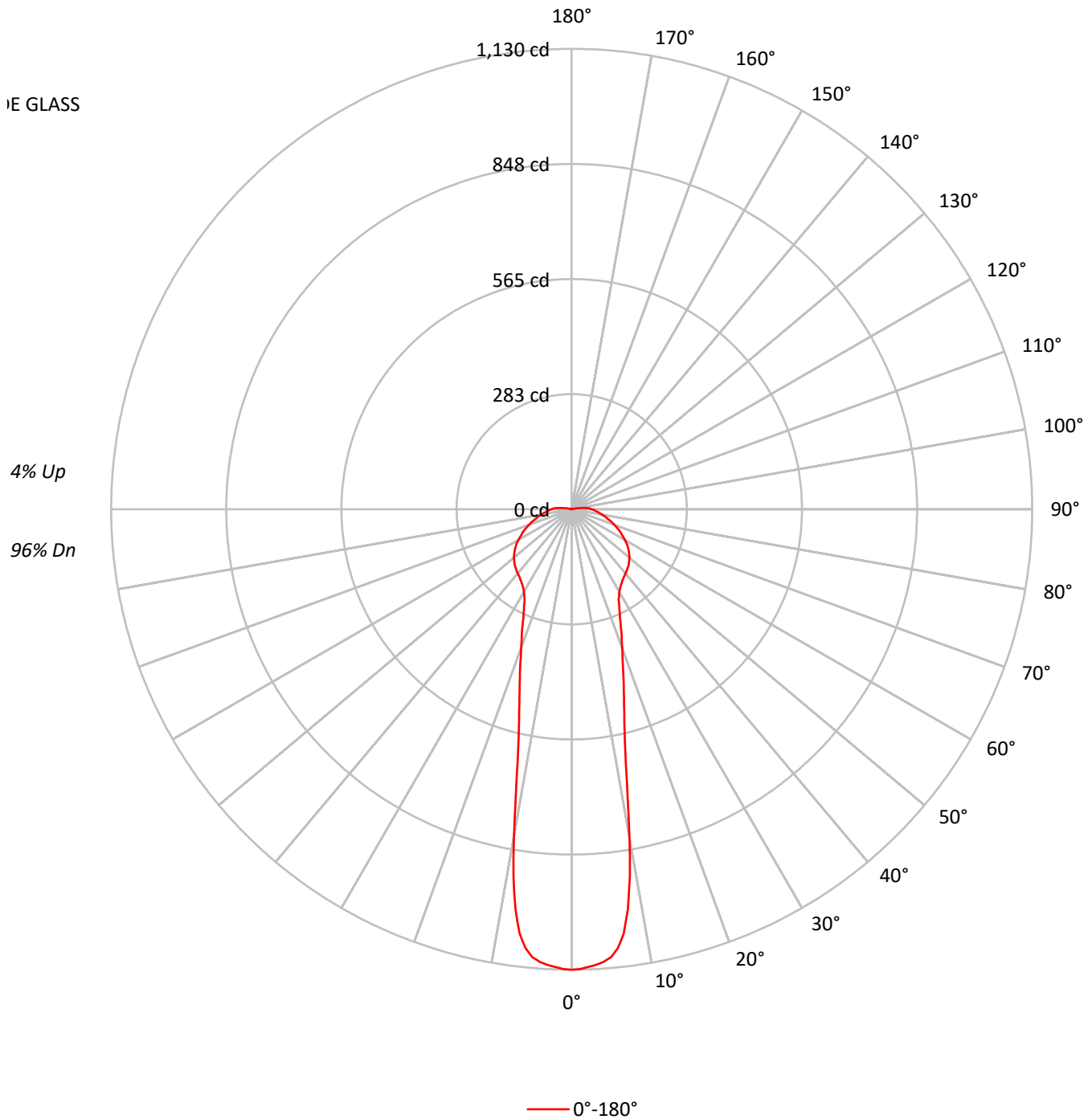
Lumens per Lamp: N/A
Luminaire Lumens: 1145.6 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	118	118	118	118	115	115	115	115	109	109	109		104	104	104		99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87		89	86	83		85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72		78	73	69		74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61		69	64	59		66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53		63	57	52		60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47		57	51	46		55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42		52	46	41		51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38		49	42	37		47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35		45	39	34		44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32		42	36	32		41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30		40	34	30		39	33	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	131096
5°	111882
10°	74017
15°	41027
20°	27655
25°	19864
30°	15813
35°	13973
40°	12839
45°	11966
50°	11036
55°	10044
60°	8883
65°	7789
70°	6645
75°	5602
80°	4745
85°	4050

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 11966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	8.5
10°-20°	142.4	12.4
20°-30°	130.2	11.4
30°-40°	136.2	11.9
40°-50°	151.6	13.2
50°-60°	151.5	13.2
60°-70°	129.9	11.3
70°-80°	98.1	8.6
80°-90°	67.8	5.9
90°-100°	36.0	3.1
100°-110°	5.0	0.4
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°	369.7	32.3
0°-40°	505.9	44.2
0°-60°	809.0	70.6
0°-90°	1104.7	96.4
90°-120°	40.9	3.6
90°-150°	40.9	3.6
90°-180°	41.0	3.6
0°-180°	1145.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1130	
5°	1104	97
15°	497	142
25°	278	130
35°	216	136
45°	197	152
55°	170	152
65°	132	130
75°	92	98
85°	62	53
90°	49	27
95°	34	23
105°	3	5
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°	1130.3
1°	1128.8
2°	1124.4
3°	1119.9
4°	1114.0
5°	1103.7
6°	1082.9
7°	1048.9
8°	991.2
9°	912.8
10°	816.6
11°	719.0
12°	637.6
13°	578.5
14°	532.6
15°	497.1
16°	464.5
17°	435.0
18°	408.3
19°	383.2
20°	362.5
21°	343.2
22°	325.5
23°	307.7
24°	291.4
25°	278.1
27.5°	250.0
30°	233.8
32.5°	223.4
35°	216.0
37.5°	210.1
40°	205.6
42.5°	201.2
45°	196.8
47.5°	190.8
50°	184.9
52.5°	177.5
55°	170.1
57.5°	161.3
60°	150.9
62.5°	140.5
65°	131.7
67.5°	121.3
70°	111.0
72.5°	102.1

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CANDELA DISTRIBUTION (continued):

	0°
75°	91.7
77.5°	84.3
80°	75.5
82.5°	68.1
85°	62.1
87.5°	56.2
90°	48.8
92.5°	44.4
95°	34.0
97.5°	22.2
100°	13.3
102.5°	7.4
105°	3.0
107.5°	1.5
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)