

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: P702005

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702005
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-1020-9040-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

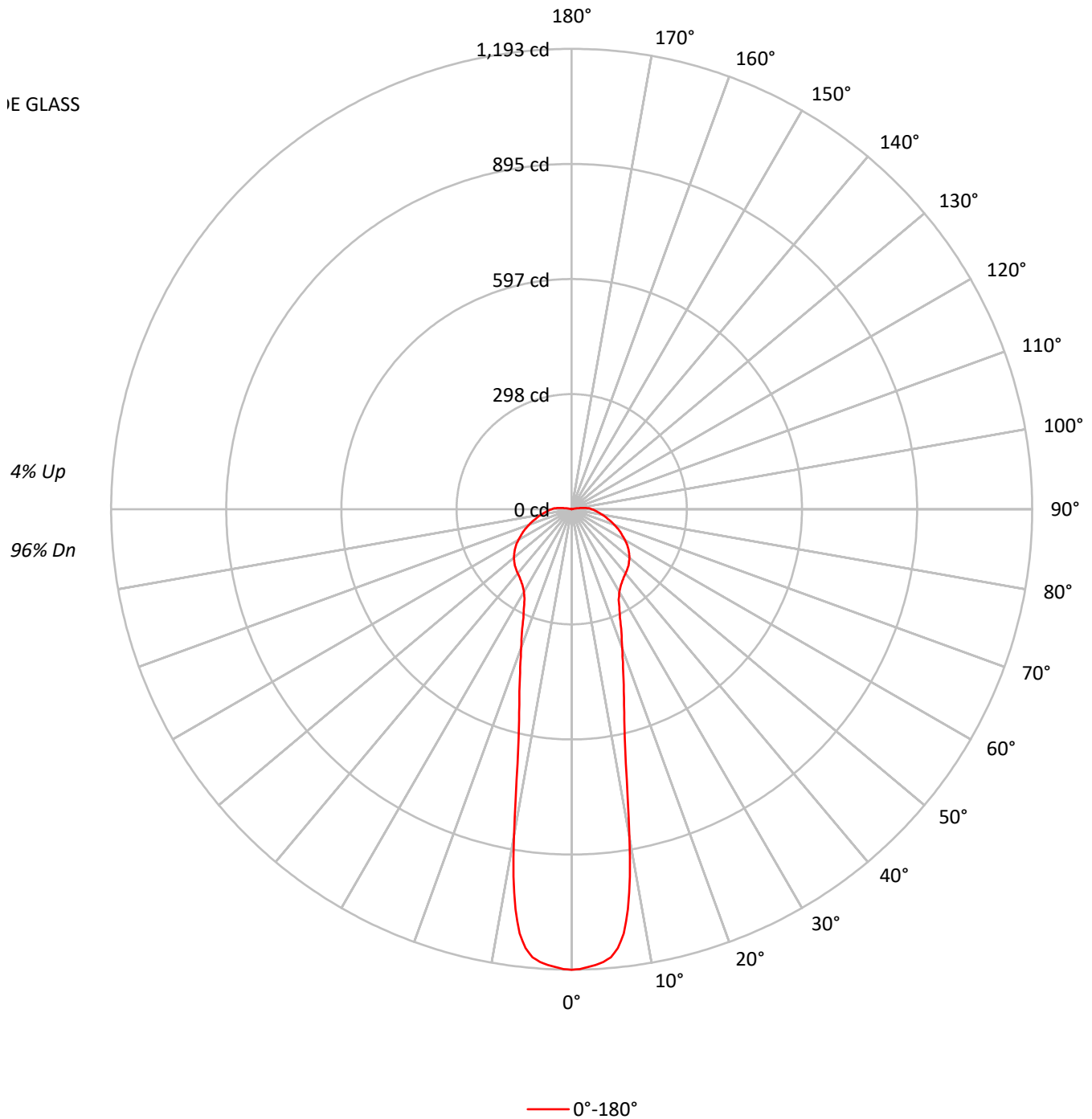
Lumens per Lamp: N/A
Luminaire Lumens: 1209.6 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	138414
5°	118127
10°	78159
15°	43313
20°	29196
25°	20979
30°	16692
35°	14756
40°	13557
45°	12635
50°	11656
55°	10605
60°	9378
65°	8220
70°	7017
75°	5913
80°	5009
85°	4278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 12635 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	8.5
10°-20°	150.3	12.4
20°-30°	137.5	11.4
30°-40°	143.8	11.9
40°-50°	160.1	13.2
50°-60°	160.0	13.2
60°-70°	137.2	11.3
70°-80°	103.5	8.6
80°-90°	71.6	5.9
90°-100°	38.0	3.1
100°-110°	5.2	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°	390.4	32.3
0°-40°	534.2	44.2
0°-60°	854.2	70.6
0°-90°	1166.5	96.4
90°-120°	43.2	3.6
90°-150°	43.2	3.6
90°-180°	43.0	3.6
0°-180°	1209.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1193	
5°	1165	103
15°	525	150
25°	294	138
35°	228	144
45°	208	160
55°	180	160
65°	139	137
75°	97	104
85°	66	56
90°	52	29
95°	36	24
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°	1193.4
1°	1191.8
2°	1187.2
3°	1182.5
4°	1176.2
5°	1165.3
6°	1143.4
7°	1107.5
8°	1046.6
9°	963.8
10°	862.3
11°	759.2
12°	673.2
13°	610.8
14°	562.3
15°	524.8
16°	490.5
17°	459.2
18°	431.1
19°	404.6
20°	382.7
21°	362.4
22°	343.7
23°	324.9
24°	307.7
25°	293.7
27.5°	264.0
30°	246.8
32.5°	235.9
35°	228.1
37.5°	221.8
40°	217.1
42.5°	212.4
45°	207.8
47.5°	201.5
50°	195.3
52.5°	187.4
55°	179.6
57.5°	170.3
60°	159.3
62.5°	148.4
65°	139.0
67.5°	128.1
70°	117.2
72.5°	107.8

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CANDELA DISTRIBUTION (continued):

	0°
75°	96.8
77.5°	89.0
80°	79.7
82.5°	71.9
85°	65.6
87.5°	59.4
90°	51.5
92.5°	46.9
95°	35.9
97.5°	23.4
100°	14.1
102.5°	7.8
105°	3.1
107.5°	1.6
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)