

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: P701844

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701844
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-08-D010 / 340-EU4C-1020-9050-4LBW1LI-GFF
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

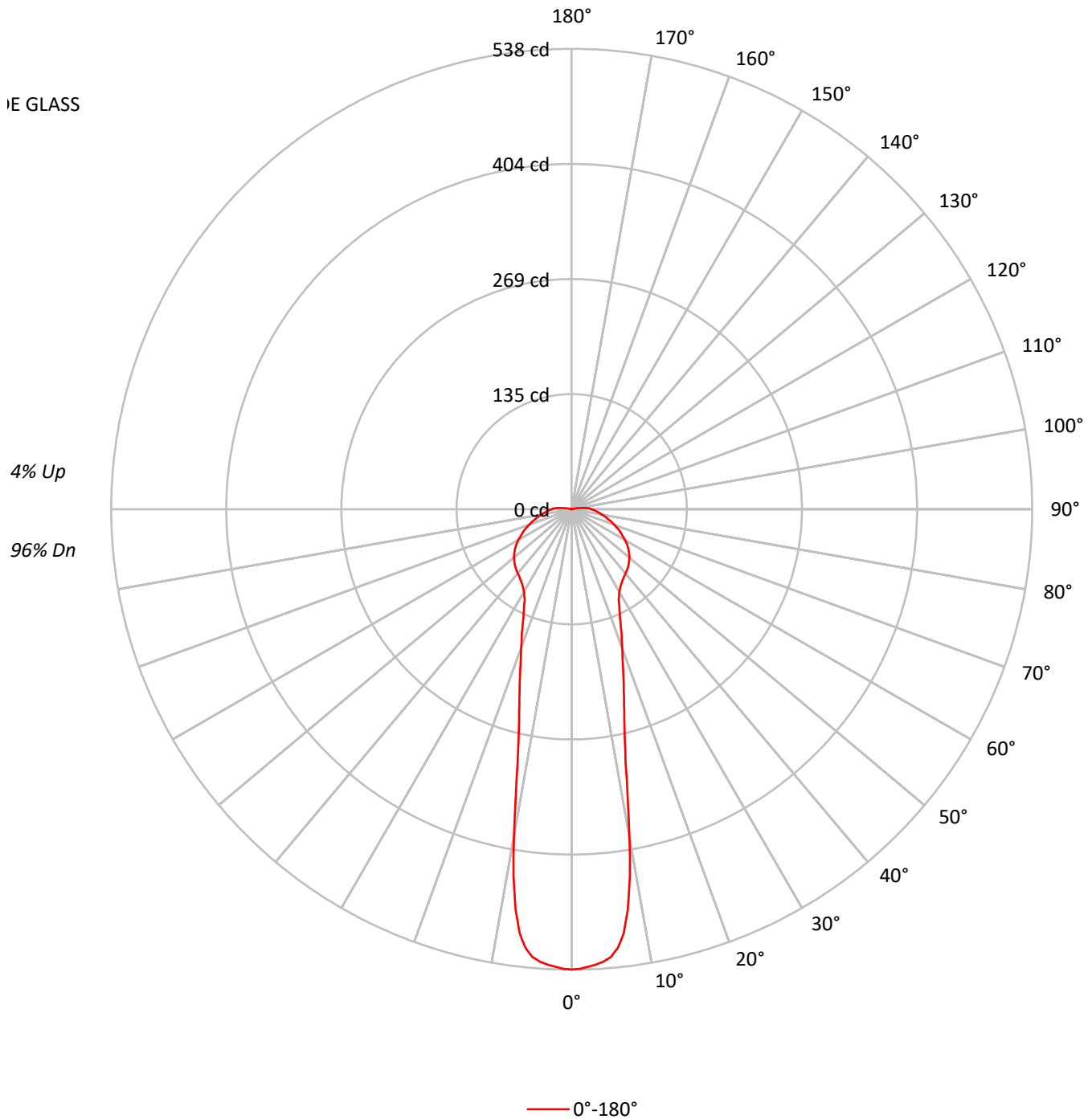
Lumens per Lamp: N/A
Luminaire Lumens: 545.2 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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°	62387
5°	53240
10°	35223
15°	19519
20°	13160
25°	9457
30°	7521
35°	6650
40°	6114
45°	5691
50°	5252
55°	4783
60°	4227
65°	3708
70°	3161
75°	2663
80°	2256
85°	1931

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5691 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.2	8.5
10°-20°	67.8	12.4
20°-30°	62.0	11.4
30°-40°	64.8	11.9
40°-50°	72.1	13.2
50°-60°	72.1	13.2
60°-70°	61.8	11.3
70°-80°	46.7	8.6
80°-90°	32.3	5.9
90°-100°	17.1	3.1
100°-110°	2.3	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°	175.9	32.3
0°-40°	240.7	44.2
0°-60°	385.0	70.6
0°-90°	525.7	96.4
90°-120°	19.5	3.6
90°-150°	19.5	3.6
90°-180°	19.0	3.5
0°-180°	545.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	538	
5°	525	46
15°	236	68
25°	132	62
35°	103	65
45°	94	72
55°	81	72
65°	63	62
75°	44	47
85°	30	25
90°	23	13
95°	16	11
105°	1	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°	537.9
1°	537.2
2°	535.0
3°	532.9
4°	530.1
5°	525.2
6°	515.3
7°	499.1
8°	471.7
9°	434.4
10°	388.6
11°	342.1
12°	303.4
13°	275.3
14°	253.4
15°	236.5
16°	221.1
17°	207.0
18°	194.3
19°	182.3
20°	172.5
21°	163.3
22°	154.9
23°	146.4
24°	138.7
25°	132.4
27.5°	119.0
30°	111.2
32.5°	106.3
35°	102.8
37.5°	100.0
40°	97.9
42.5°	95.7
45°	93.6
47.5°	90.8
50°	88.0
52.5°	84.5
55°	81.0
57.5°	76.7
60°	71.8
62.5°	66.9
65°	62.7
67.5°	57.7
70°	52.8
72.5°	48.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	43.6
77.5°	40.1
80°	35.9
82.5°	32.4
85°	29.6
87.5°	26.8
90°	23.2
92.5°	21.1
95°	16.2
97.5°	10.6
100°	6.3
102.5°	3.5
105°	1.4
107.5°	0.7
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)