

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: P701864

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701864
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-10-D010 / 340-EU4C-1020-9024-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

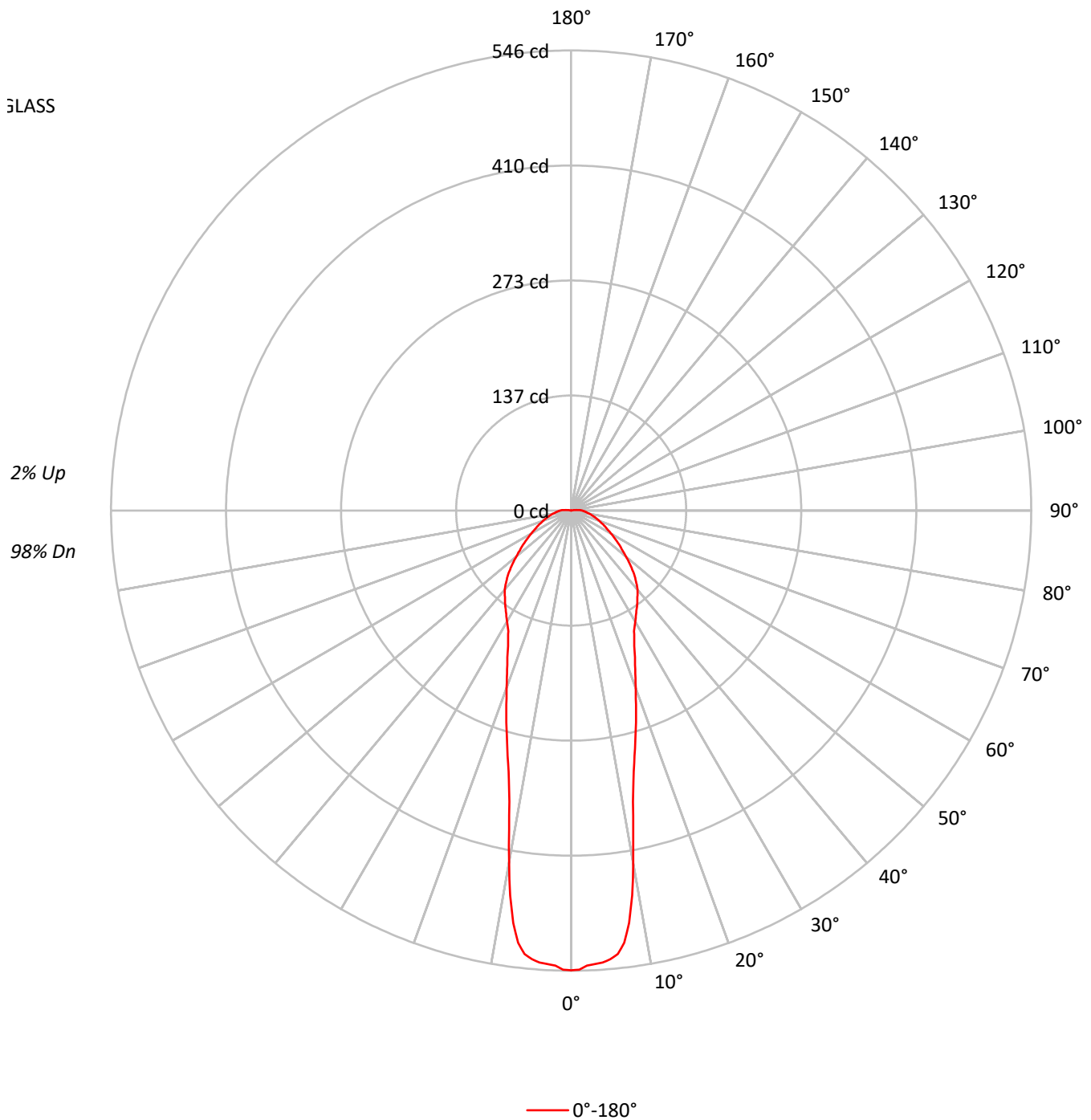
Lumens per Lamp: N/A
Luminaire Lumens: 543.4 lumens
Efficiency: N/A
Efficacy: 55.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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	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°	63269
5°	54162
10°	38459
15°	24141
20°	17089
25°	12657
30°	10294
35°	8824
40°	7650
45°	6372
50°	5073
55°	4045
60°	3220
65°	2608
70°	2131
75°	1729
80°	1364
85°	1115

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6372 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	8.8
10°-20°	82.7	15.2
20°-30°	82.8	15.2
30°-40°	85.5	15.7
40°-50°	80.4	14.8
50°-60°	61.7	11.3
60°-70°	43.9	8.1
70°-80°	30.0	5.5
80°-90°	18.8	3.5
90°-100°	8.9	1.6
100°-110°	0.8	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°	213.5	39.3
0°-40°	298.9	55.0
0°-60°	441.0	81.2
0°-90°	533.7	98.2
90°-120°	9.7	1.8
90°-150°	9.7	1.8
90°-180°	10.0	1.8
0°-180°	543.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	546	
5°	534	48
15°	292	83
25°	177	83
35°	136	85
45°	105	80
55°	68	62
65°	44	44
75°	28	30
85°	17	15
90°	13	7
95°	8	6
105°	0	1
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°	545.5
1°	544.9
2°	540.2
3°	538.9
4°	537.6
5°	534.3
6°	529.0
7°	516.5
8°	494.1
9°	462.5
10°	424.3
11°	385.4
12°	353.1
13°	328.1
14°	309.0
15°	292.5
16°	276.7
17°	262.9
18°	249.0
19°	235.9
20°	224.0
21°	212.8
22°	202.9
23°	193.7
24°	185.8
25°	177.2
27.5°	161.4
30°	152.2
32.5°	143.6
35°	136.4
37.5°	129.1
40°	122.5
42.5°	114.0
45°	104.8
47.5°	94.9
50°	85.0
52.5°	76.4
55°	68.5
57.5°	61.3
60°	54.7
62.5°	48.8
65°	44.1
67.5°	39.5
70°	35.6
72.5°	31.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	28.3
77.5°	25.0
80°	21.7
82.5°	19.1
85°	17.1
87.5°	15.2
90°	13.2
92.5°	11.2
95°	7.9
97.5°	5.3
100°	3.3
102.5°	1.3
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)