

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: P702186

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9727-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702186
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-35-D010 / 340-EU4C-3040-9727-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

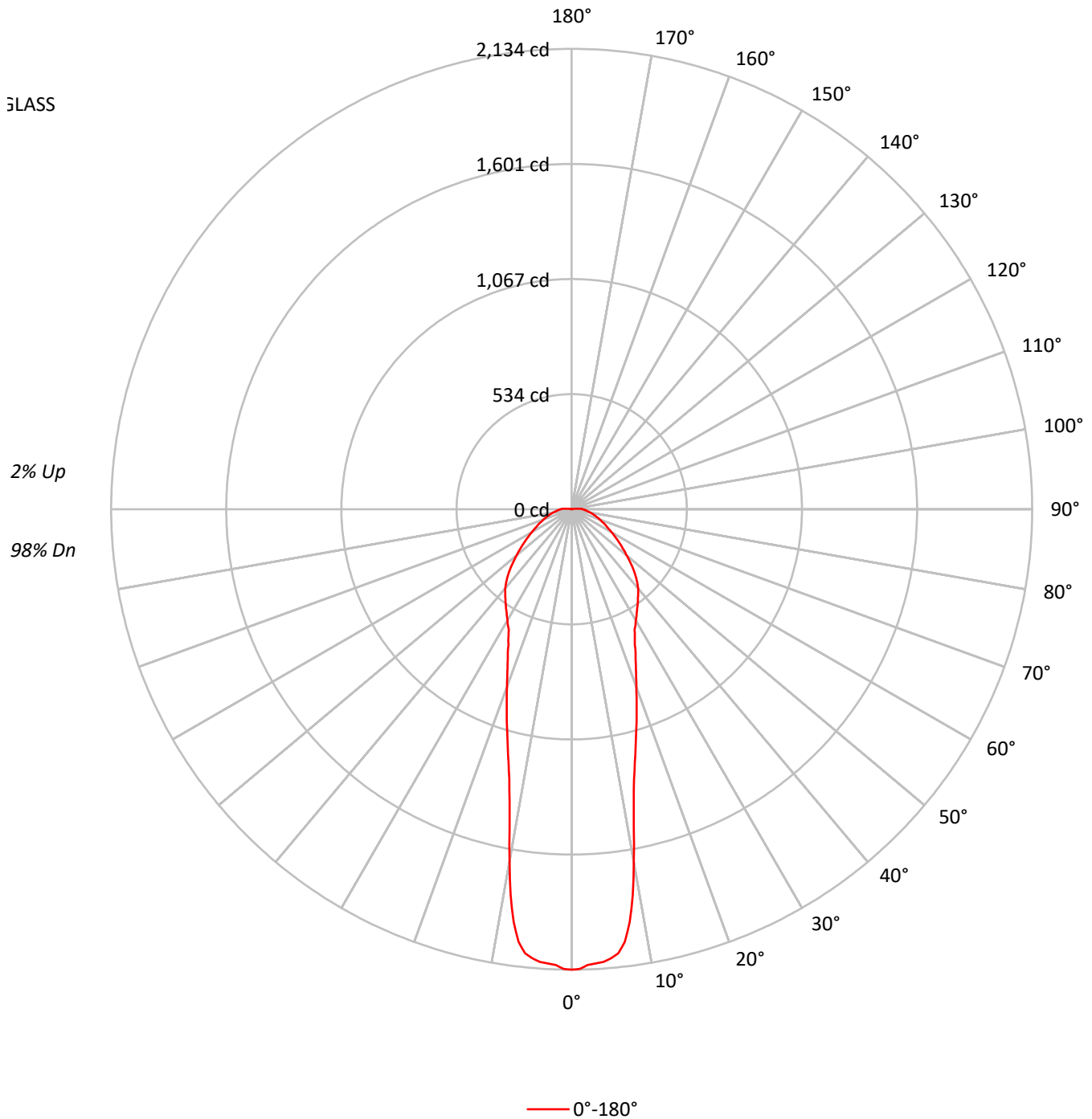
Lumens per Lamp: N/A
Luminaire Lumens: 2125.7 lumens
Efficiency: N/A
Efficacy: 52.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 40.4
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°	247496
5°	211874
10°	150435
15°	94441
20°	66844
25°	49521
30°	40263
35°	34513
40°	29938
45°	24917
50°	19845
55°	15825
60°	12592
65°	10213
70°	8334
75°	6769
80°	5342
85°	4370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24917 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.6	8.8
10°-20°	323.5	15.2
20°-30°	324.0	15.2
30°-40°	334.3	15.7
40°-50°	314.5	14.8
50°-60°	241.2	11.3
60°-70°	171.9	8.1
70°-80°	117.4	5.5
80°-90°	73.4	3.5
90°-100°	34.8	1.6
100°-110°	3.1	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°	835.1	39.3
0°-40°	1169.4	55.0
0°-60°	1725.1	81.2
0°-90°	2087.8	98.2
90°-120°	38.0	1.8
90°-150°	38.0	1.8
90°-180°	38.0	1.8
0°-180°	2125.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2134	
5°	2090	188
15°	1144	323
25°	693	324
35°	534	334
45°	410	315
55°	268	241
65°	173	172
75°	111	117
85°	67	58
90°	52	28
95°	31	22
105°	0	3
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°	2133.9
1°	2131.3
2°	2113.3
3°	2108.1
4°	2103.0
5°	2090.1
6°	2069.5
7°	2020.5
8°	1932.9
9°	1809.2
10°	1659.7
11°	1507.6
12°	1381.4
13°	1283.4
14°	1208.7
15°	1144.3
16°	1082.4
17°	1028.3
18°	974.2
19°	922.6
20°	876.2
21°	832.4
22°	793.8
23°	757.7
24°	726.8
25°	693.3
27.5°	631.4
30°	595.3
32.5°	561.8
35°	533.5
37.5°	505.1
40°	479.4
42.5°	445.8
45°	409.8
47.5°	371.1
50°	332.5
52.5°	298.9
55°	268.0
57.5°	239.7
60°	213.9
62.5°	190.7
65°	172.7
67.5°	154.6
70°	139.2
72.5°	123.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	110.8
77.5°	97.9
80°	85.0
82.5°	74.7
85°	67.0
87.5°	59.3
90°	51.5
92.5°	43.8
95°	30.9
97.5°	20.6
100°	12.9
102.5°	5.2
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)