

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: P702193

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9730-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702193
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-3040-9730-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

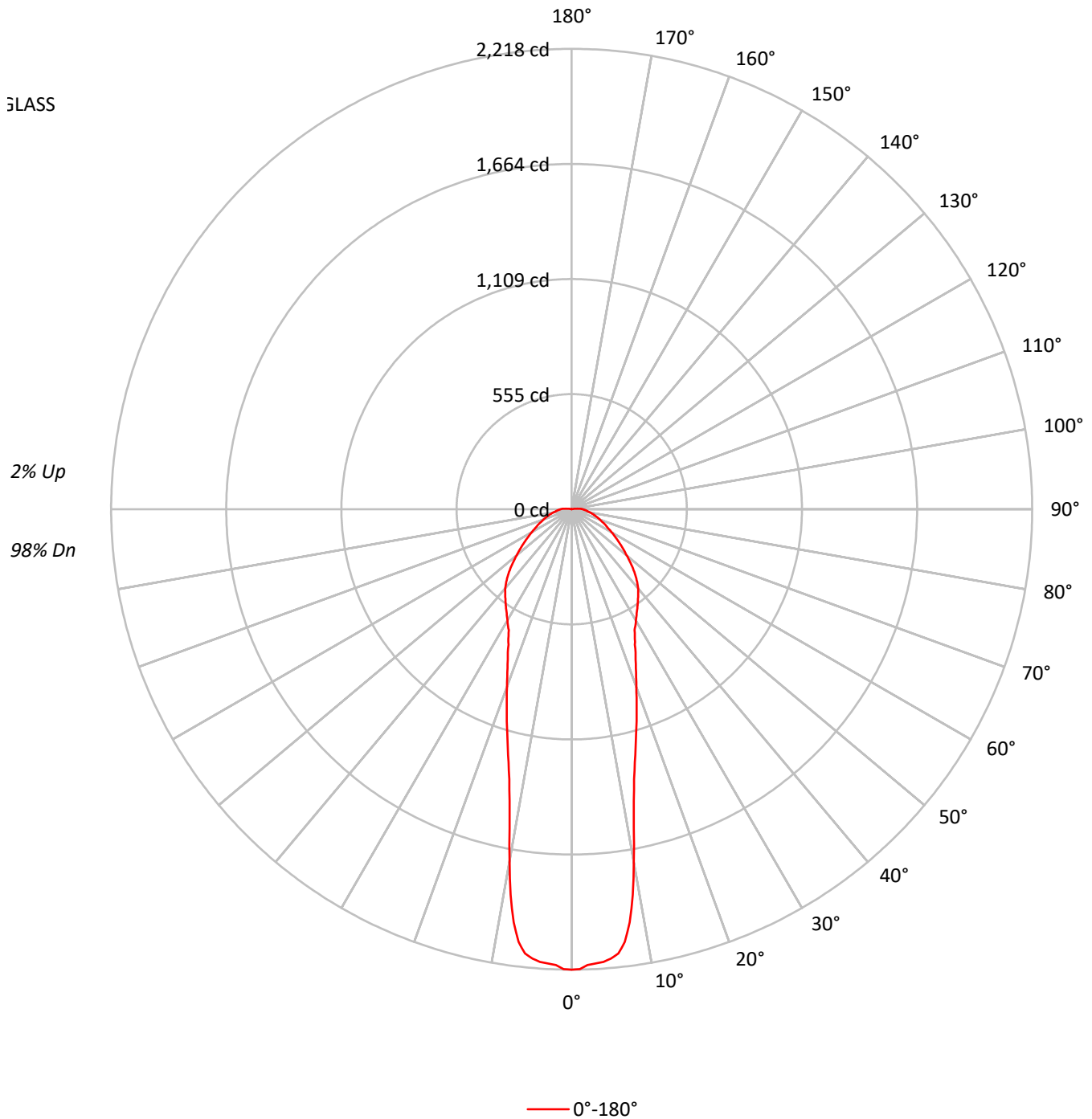
Lumens per Lamp: N/A
Luminaire Lumens: 2209.8 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	257274
5°	220247
10°	156381
15°	98172
20°	69491
25°	51479
30°	41859
35°	35878
40°	31118
45°	25902
50°	20627
55°	16451
60°	13092
65°	10615
70°	8663
75°	7037
80°	5556
85°	4546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25902 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.0	8.8
10°-20°	336.3	15.2
20°-30°	336.8	15.2
30°-40°	347.5	15.7
40°-50°	327.0	14.8
50°-60°	250.7	11.3
60°-70°	178.7	8.1
70°-80°	122.0	5.5
80°-90°	76.3	3.5
90°-100°	36.2	1.6
100°-110°	3.2	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°	868.1	39.3
0°-40°	1215.6	55.0
0°-60°	1793.3	81.2
0°-90°	2170.4	98.2
90°-120°	39.4	1.8
90°-150°	39.4	1.8
90°-180°	39.0	1.8
0°-180°	2209.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2218	
5°	2173	195
15°	1190	336
25°	721	337
35°	555	348
45°	426	327
55°	279	251
65°	180	179
75°	115	122
85°	70	61
90°	54	29
95°	32	23
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°	2218.2
1°	2215.6
2°	2196.8
3°	2191.4
4°	2186.1
5°	2172.7
6°	2151.3
7°	2100.4
8°	2009.3
9°	1880.7
10°	1725.3
11°	1567.2
12°	1436.0
13°	1334.2
14°	1256.5
15°	1189.5
16°	1125.2
17°	1068.9
18°	1012.7
19°	959.1
20°	910.9
21°	865.3
22°	825.1
23°	787.6
24°	755.5
25°	720.7
27.5°	656.4
30°	618.9
32.5°	584.0
35°	554.6
37.5°	525.1
40°	498.3
42.5°	463.5
45°	426.0
47.5°	385.8
50°	345.6
52.5°	310.8
55°	278.6
57.5°	249.1
60°	222.4
62.5°	198.2
65°	179.5
67.5°	160.7
70°	144.7
72.5°	128.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	115.2
77.5°	101.8
80°	88.4
82.5°	77.7
85°	69.7
87.5°	61.6
90°	53.6
92.5°	45.5
95°	32.1
97.5°	21.4
100°	13.4
102.5°	5.4
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)