

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: P702179

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702179
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-3040-9050-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

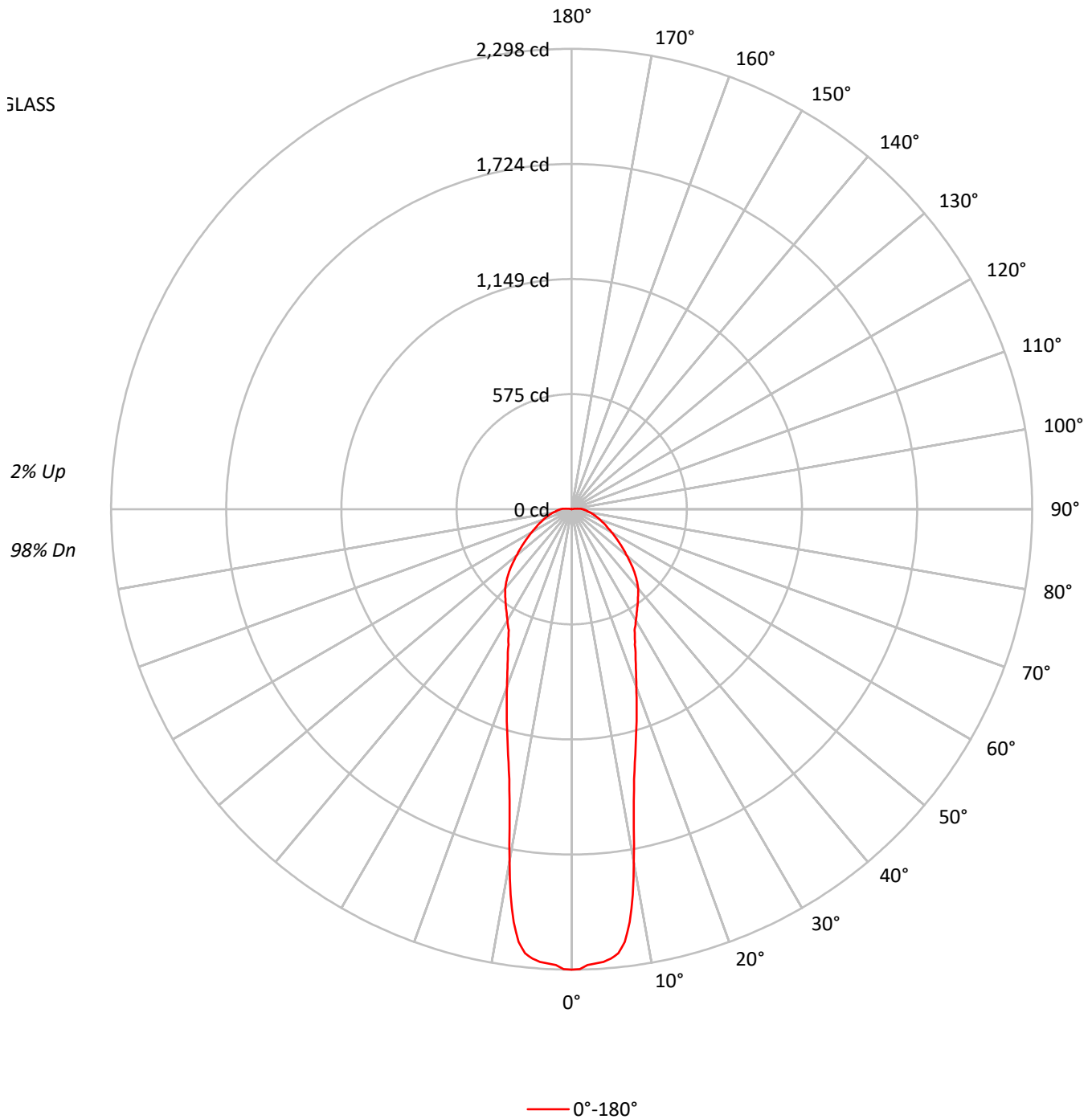
Lumens per Lamp: N/A
Luminaire Lumens: 2289.2 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	266529
5°	228164
10°	162001
15°	101704
20°	71986
25°	53329
30°	43361
35°	37165
40°	32236
45°	26832
50°	21367
55°	17041
60°	13563
65°	10994
70°	8974
75°	7288
80°	5757
85°	4709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 26832 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.0	8.8
10°-20°	348.4	15.2
20°-30°	348.9	15.2
30°-40°	360.0	15.7
40°-50°	338.7	14.8
50°-60°	259.7	11.3
60°-70°	185.1	8.1
70°-80°	126.4	5.5
80°-90°	79.1	3.5
90°-100°	37.5	1.6
100°-110°	3.4	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°	899.3	39.3
0°-40°	1259.3	55.0
0°-60°	1857.8	81.2
0°-90°	2248.3	98.2
90°-120°	40.9	1.8
90°-150°	40.9	1.8
90°-180°	41.0	1.8
0°-180°	2289.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2298	
5°	2251	202
15°	1232	348
25°	747	349
35°	574	360
45°	441	339
55°	289	260
65°	186	185
75°	119	126
85°	72	63
90°	56	30
95°	33	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°	2298.0
1°	2295.2
2°	2275.8
3°	2270.2
4°	2264.7
5°	2250.8
6°	2228.6
7°	2175.9
8°	2081.5
9°	1948.3
10°	1787.3
11°	1623.6
12°	1487.6
13°	1382.1
14°	1301.6
15°	1232.3
16°	1165.6
17°	1107.4
18°	1049.1
19°	993.6
20°	943.6
21°	896.4
22°	854.8
23°	816.0
24°	782.6
25°	746.6
27.5°	680.0
30°	641.1
32.5°	605.0
35°	574.5
37.5°	544.0
40°	516.2
42.5°	480.1
45°	441.3
47.5°	399.6
50°	358.0
52.5°	321.9
55°	288.6
57.5°	258.1
60°	230.4
62.5°	205.4
65°	185.9
67.5°	166.5
70°	149.9
72.5°	133.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	119.3
77.5°	105.5
80°	91.6
82.5°	80.5
85°	72.2
87.5°	63.8
90°	55.5
92.5°	47.2
95°	33.3
97.5°	22.2
100°	13.9
102.5°	5.6
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)