

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: P702109

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702109
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-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, CLEAR OUTSIDE C
KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

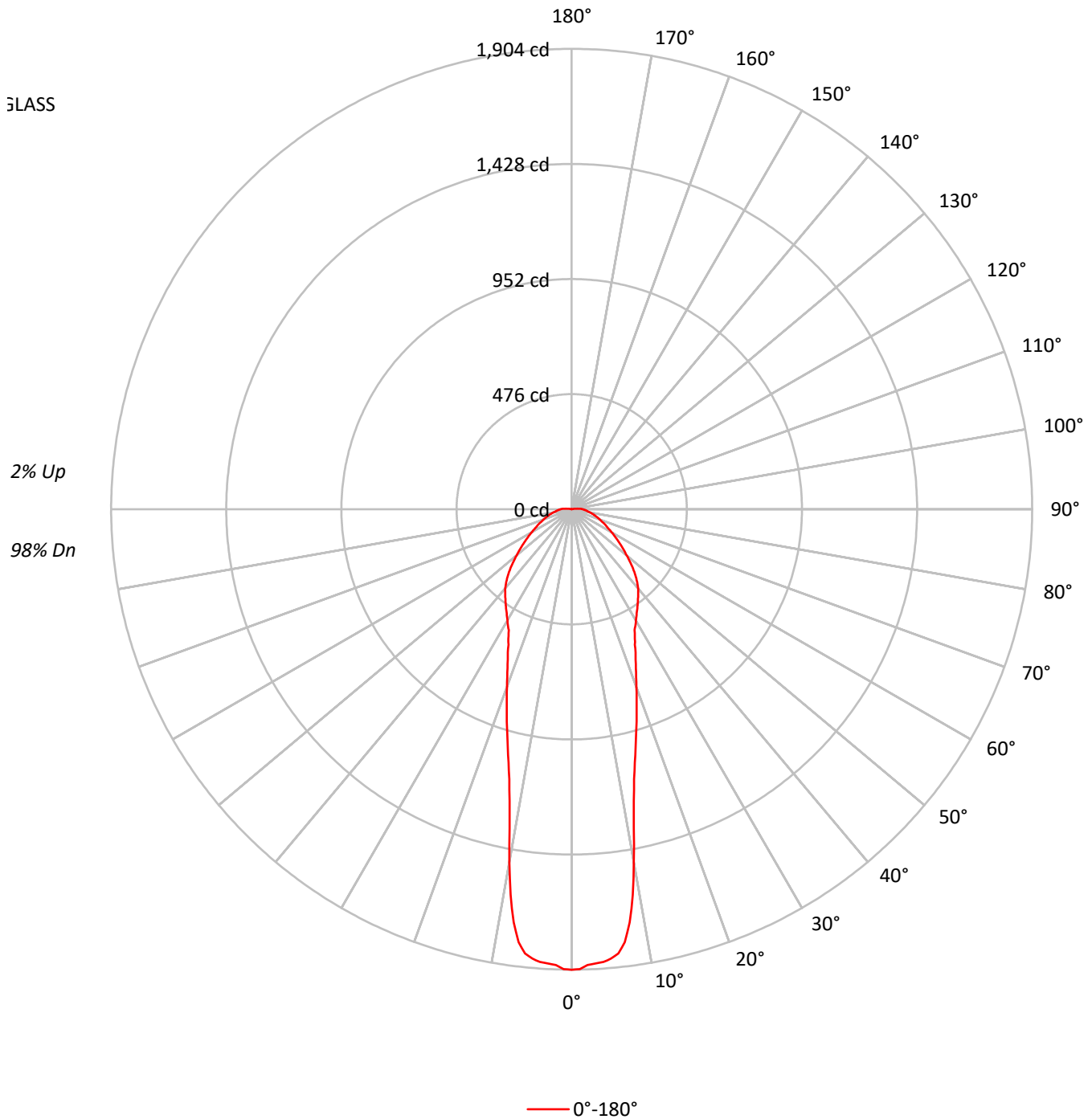
Lumens per Lamp: N/A
Luminaire Lumens: 1897.2 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
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

TEST NUMBER: P702109

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

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°	220890
5°	189096
10°	134265
15°	84290
20°	59658
25°	44193
30°	35934
35°	30799
40°	26715
45°	22236
50°	17708
55°	14124
60°	11238
65°	9113
70°	7436
75°	6042
80°	4770
85°	3900

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 22236 cd/sqm

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CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.5	8.8
10°-20°	288.7	15.2
20°-30°	289.1	15.2
30°-40°	298.4	15.7
40°-50°	280.7	14.8
50°-60°	215.2	11.3
60°-70°	153.4	8.1
70°-80°	104.7	5.5
80°-90°	65.5	3.5
90°-100°	31.1	1.6
100°-110°	2.8	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°	745.3	39.3
0°-40°	1043.7	55.0
0°-60°	1539.6	81.2
0°-90°	1863.3	98.2
90°-120°	33.9	1.8
90°-150°	33.9	1.8
90°-180°	34.0	1.8
0°-180°	1897.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1904	
5°	1865	167
15°	1021	289
25°	619	289
35°	476	298
45°	366	281
55°	239	215
65°	154	153
75°	99	105
85°	60	52
90°	46	25
95°	28	19
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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CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

CANDELA DISTRIBUTION (FULL):

0°	
0°	1904.5
1°	1902.2
2°	1886.1
3°	1881.5
4°	1876.9
5°	1865.4
6°	1847.0
7°	1803.3
8°	1725.1
9°	1614.7
10°	1481.3
11°	1345.6
12°	1232.9
13°	1145.5
14°	1078.8
15°	1021.3
16°	966.1
17°	917.8
18°	869.4
19°	823.4
20°	782.0
21°	742.9
22°	708.4
23°	676.2
24°	648.6
25°	618.7
27.5°	563.5
30°	531.3
32.5°	501.4
35°	476.1
37.5°	450.8
40°	427.8
42.5°	397.9
45°	365.7
47.5°	331.2
50°	296.7
52.5°	266.8
55°	239.2
57.5°	213.9
60°	190.9
62.5°	170.2
65°	154.1
67.5°	138.0
70°	124.2
72.5°	110.4

TEST NUMBER: P702109

CATALOG NUMBER: 340-4C-30-D010 / 340-EU4C-3040-9035-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	98.9
77.5°	87.4
80°	75.9
82.5°	66.7
85°	59.8
87.5°	52.9
90°	46.0
92.5°	39.1
95°	27.6
97.5°	18.4
100°	11.5
102.5°	4.6
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)