

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: P702074

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9727-4LBW1LI-GFC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702074
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-25-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

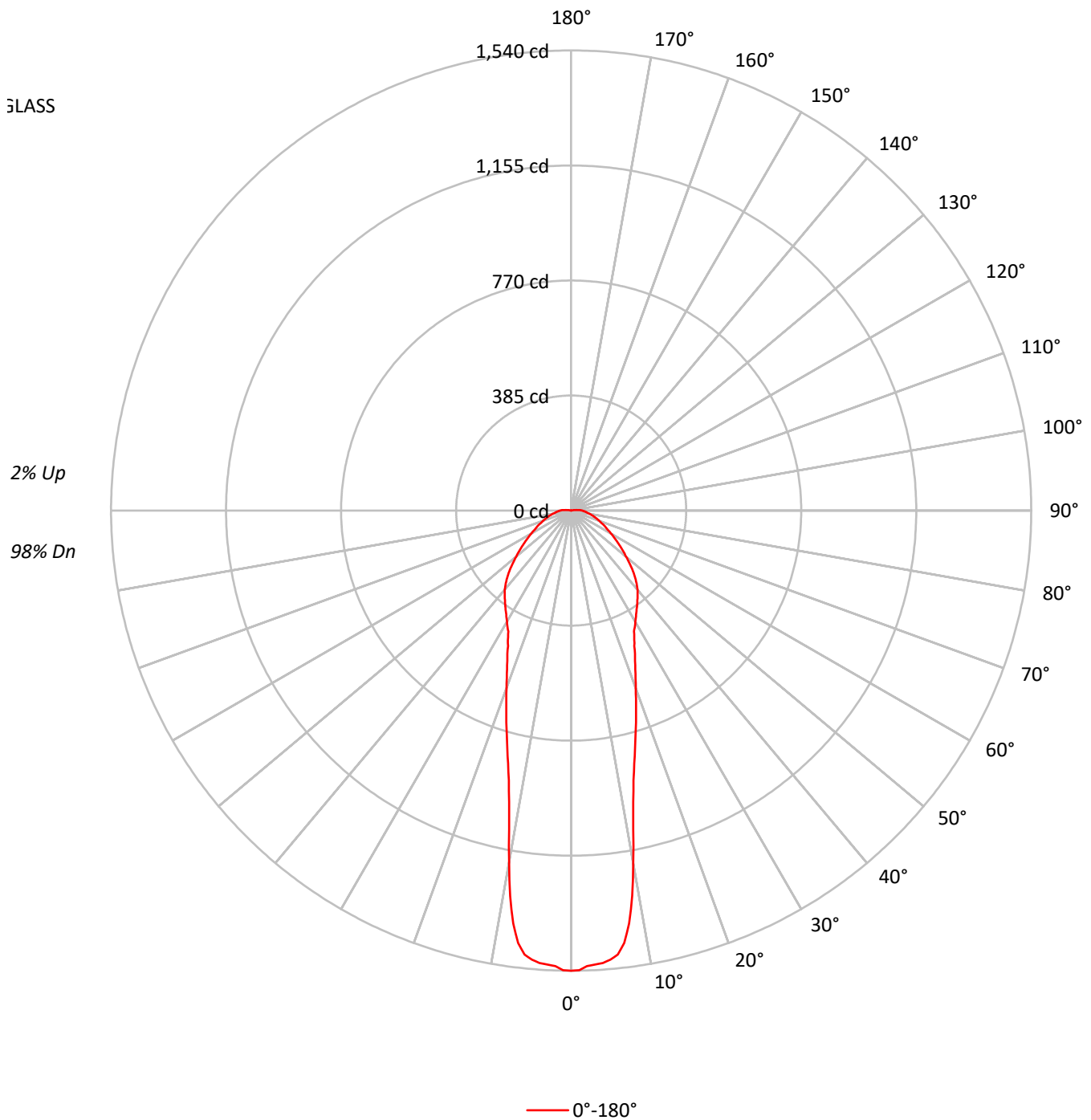
Lumens per Lamp: N/A
Luminaire Lumens: 1534.2 lumens
Efficiency: N/A
Efficacy: 48.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.65
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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: P702074

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9727-4LBW1LI-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°	178626
5°	152917
10°	108578
15°	68163
20°	48245
25°	35743
30°	29063
35°	24906
40°	21607
45°	17979
50°	14318
55°	11420
60°	9089
65°	7369
70°	6011
75°	4887
80°	3859
85°	3157

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17979 cd/sqm

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CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9727-4LBW1LI-GFC

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	8.8
10°-20°	233.5	15.2
20°-30°	233.8	15.2
30°-40°	241.3	15.7
40°-50°	227.0	14.8
50°-60°	174.1	11.3
60°-70°	124.0	8.1
70°-80°	84.7	5.5
80°-90°	53.0	3.5
90°-100°	25.1	1.6
100°-110°	2.2	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°	602.7	39.3
0°-40°	844.0	55.0
0°-60°	1245.1	81.2
0°-90°	1506.8	98.2
90°-120°	27.4	1.8
90°-150°	27.4	1.8
90°-180°	27.0	1.8
0°-180°	1534.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1540	
5°	1508	135
15°	826	233
25°	500	234
35°	385	241
45°	296	227
55°	193	174
65°	125	124
75°	80	85
85°	48	42
90°	37	20
95°	22	16
105°	0	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1540.1
1°	1538.3
2°	1525.2
3°	1521.5
4°	1517.8
5°	1508.5
6°	1493.6
7°	1458.3
8°	1395.0
9°	1305.7
10°	1197.9
11°	1088.1
12°	997.0
13°	926.3
14°	872.4
15°	825.9
16°	781.2
17°	742.2
18°	703.1
19°	665.9
20°	632.4
21°	600.8
22°	572.9
23°	546.9
24°	524.5
25°	500.4
27.5°	455.7
30°	429.7
32.5°	405.5
35°	385.0
37.5°	364.6
40°	346.0
42.5°	321.8
45°	295.7
47.5°	267.8
50°	239.9
52.5°	215.8
55°	193.4
57.5°	173.0
60°	154.4
62.5°	137.6
65°	124.6
67.5°	111.6
70°	100.4
72.5°	89.3

TEST NUMBER: P702074

CATALOG NUMBER: 340-4C-25-D010 / 340-EU4C-3040-9727-4LBW1LI-GFC

CANDELA DISTRIBUTION (continued):

	0°
75°	80.0
77.5°	70.7
80°	61.4
82.5°	53.9
85°	48.4
87.5°	42.8
90°	37.2
92.5°	31.6
95°	22.3
97.5°	14.9
100°	9.3
102.5°	3.7
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)