

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: P702177

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)  
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-FF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

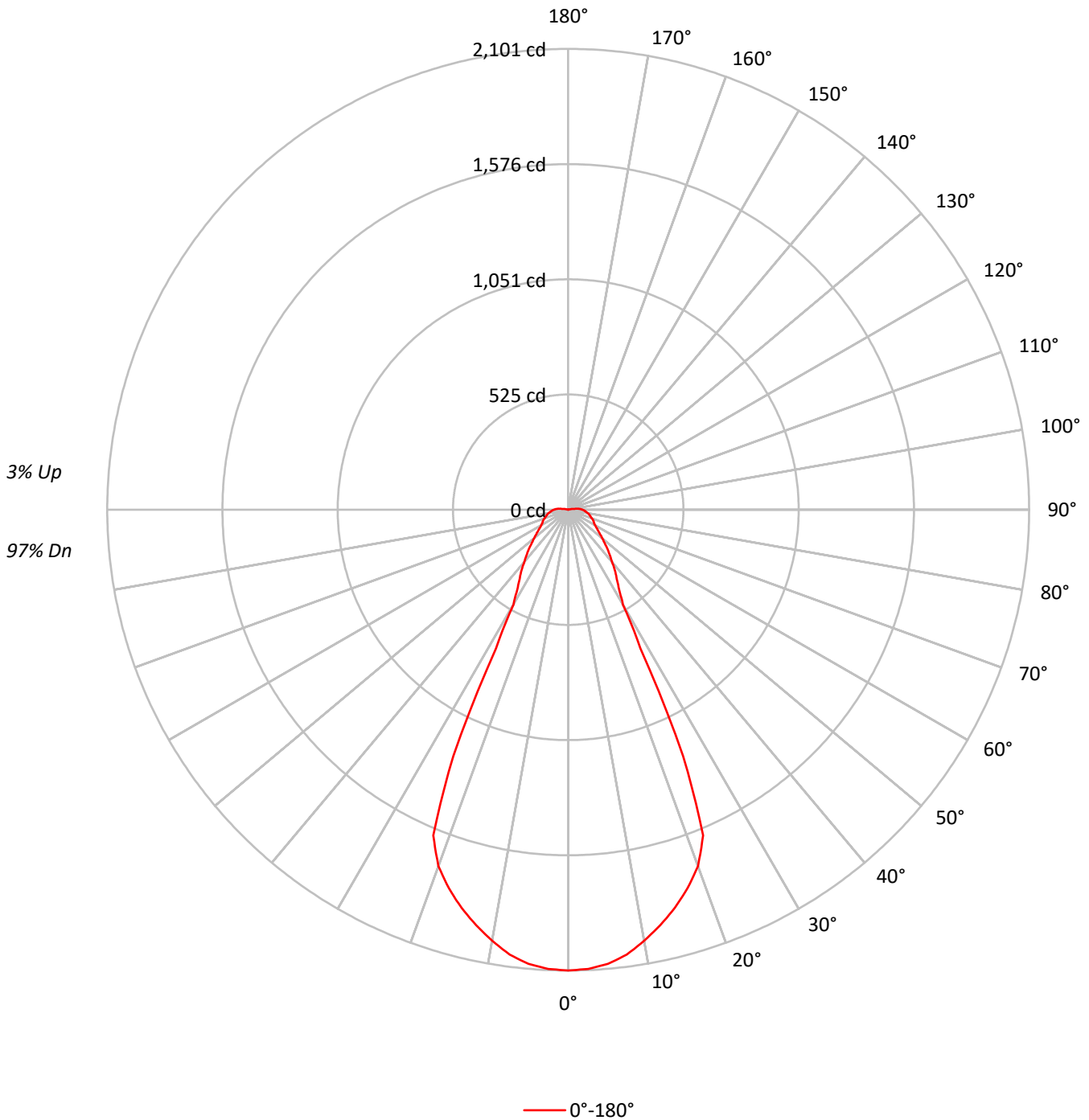
Lumens per Lamp: N/A  
Luminaire Lumens: 2212.3 lumens  
Efficiency: N/A  
Efficacy: 54.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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

TEST NUMBER: P702177

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-FF

### Luminous Intensity Polar Plot



TEST NUMBER: P702177

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-FF

**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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	109	105	102	98	107	103	99	96	98	95	93		94	92	90		90	88	86	84
2	102	95	89	85	99	93	88	83	89	85	81		86	82	79		82	80	77	75
3	95	87	80	75	93	85	79	74	82	77	72		79	75	71		76	73	69	67
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71	67	63	61
5	84	74	66	61	82	73	66	61	70	64	60		68	63	59		66	62	58	56
6	79	69	61	56	78	68	61	56	66	60	55		64	59	55		62	58	54	52
7	75	64	57	52	73	63	56	52	62	56	51		60	55	51		59	54	50	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		55	51	47	45
9	68	57	50	45	66	56	50	45	55	49	45		54	48	44		53	48	44	43
10	64	53	47	43	63	53	47	42	52	46	42		51	46	42		50	45	42	40

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	243669
5°	210718
10°	180872
15°	155069
20°	131903
25°	88614
30°	33790
35°	24958
40°	19409
45°	15359
50°	12092
55°	9832
60°	8330
65°	7552
70°	6813
75°	6274
80°	5757
85°	5068

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15359 cd/sqm

TEST NUMBER: P702177

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-FF

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	195.8	8.8
10°-20°	527.0	23.8
20°-30°	521.3	23.6
30°-40°	244.5	11.1
40°-50°	195.2	8.8
50°-60°	150.7	6.8
60°-70°	126.6	5.7
70°-80°	108.5	4.9
80°-90°	84.8	3.8
90°-100°	48.9	2.2
100°-110°	8.9	0.4
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°	1244.1	56.2
0°-40°	1488.6	67.3
0°-60°	1834.6	82.9
0°-90°	2154.5	97.4
90°-120°	57.8	2.6
90°-150°	57.8	2.6
90°-180°	58.0	2.6
0°-180°	2212.3	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2101	
5°	2079	196
15°	1879	527
25°	1241	521
35°	386	245
45°	253	195
55°	166	151
65°	128	127
75°	103	109
85°	78	66
90°	64	35
95°	47	32
105°	6	9
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

TEST NUMBER: P702177

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-FF

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	2100.9
2.5°	2095.4
5°	2078.7
7.5°	2045.4
10°	1995.5
12.5°	1940.0
15°	1878.9
17.5°	1809.5
20°	1729.0
22.5°	1606.9
25°	1240.6
27.5°	713.3
30°	499.6
32.5°	430.2
35°	385.8
37.5°	349.7
40°	310.8
42.5°	280.3
45°	252.6
47.5°	224.8
50°	202.6
52.5°	183.2
55°	166.5
57.5°	152.6
60°	141.5
62.5°	133.2
65°	127.7
67.5°	122.1
70°	113.8
72.5°	108.2
75°	102.7
77.5°	97.1
80°	91.6
82.5°	83.3
85°	77.7
87.5°	72.2
90°	63.8
92.5°	58.3
95°	47.2
97.5°	30.5
100°	22.2
102.5°	13.9
105°	5.6
107.5°	2.8
110°	0.0

TEST NUMBER: P702177

CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9050-4LBW1LI-FF

**CANDELA DISTRIBUTION (continued):**

	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)