

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: P702233

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702233
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-40-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

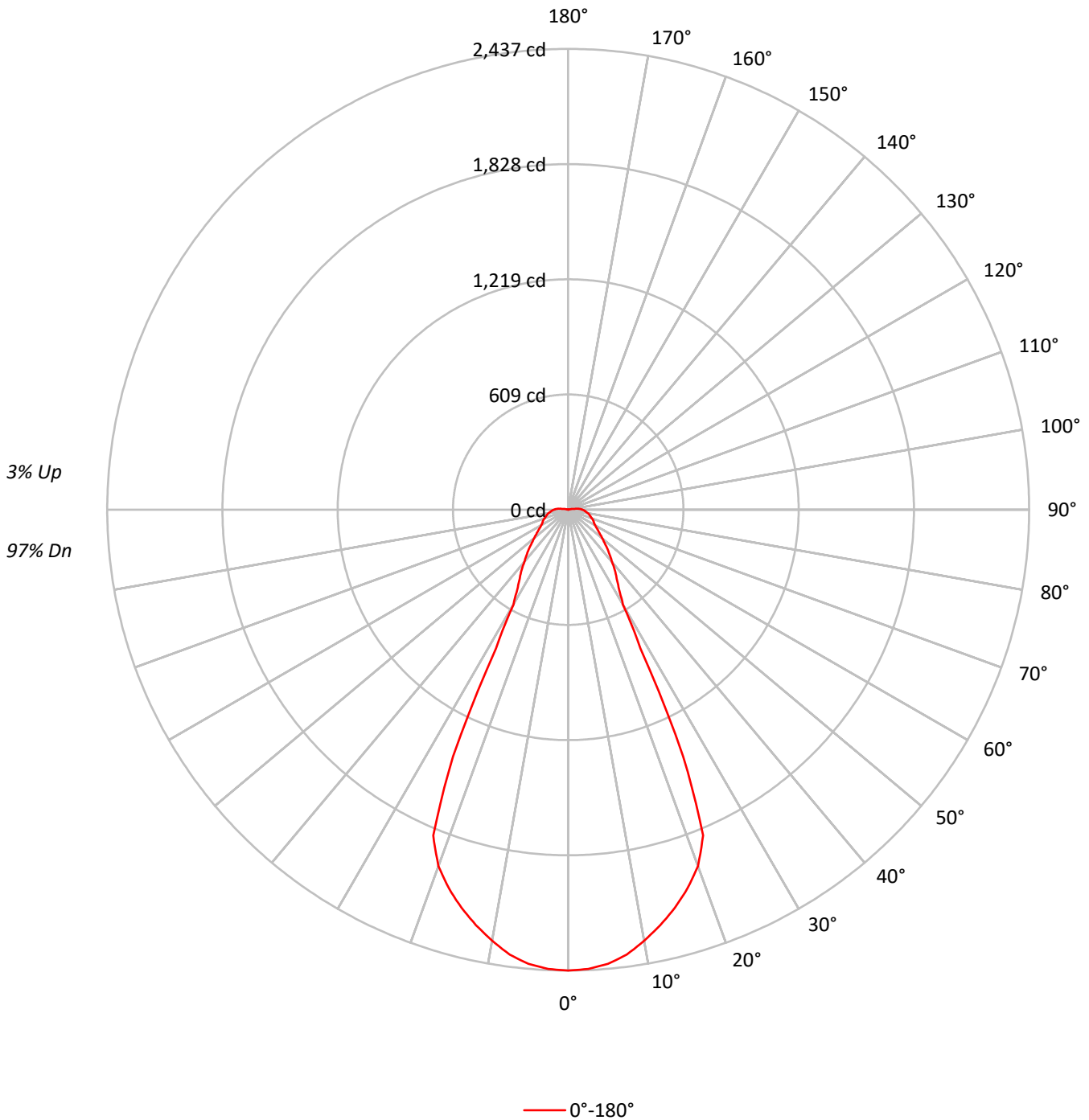
Lumens per Lamp: N/A
Luminaire Lumens: 2566.2 lumens
Efficiency: N/A
Efficacy: 54.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 47
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: P702233

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-FF

Luminous Intensity Polar Plot



TEST NUMBER: P702233

CATALOG NUMBER: 340-4C-40-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°	282663
5°	244434
10°	209805
15°	179879
20°	153012
25°	102793
30°	39194
35°	28949
40°	22519
45°	17815
50°	14026
55°	11408
60°	9666
65°	8758
70°	7903
75°	7276
80°	6674
85°	5876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17815 cd/sqm

TEST NUMBER: P702233

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-FF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.1	8.8
10°-20°	611.3	23.8
20°-30°	604.7	23.6
30°-40°	283.6	11.1
40°-50°	226.5	8.8
50°-60°	174.9	6.8
60°-70°	146.8	5.7
70°-80°	125.9	4.9
80°-90°	98.3	3.8
90°-100°	56.7	2.2
100°-110°	10.3	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°	1443.2	56.2
0°-40°	1726.8	67.3
0°-60°	2128.2	82.9
0°-90°	2499.2	97.4
90°-120°	67.0	2.6
90°-150°	67.0	2.6
90°-180°	67.0	2.6
0°-180°	2566.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2437	
5°	2411	227
15°	2180	611
25°	1439	605
35°	448	284
45°	293	227
55°	193	175
65°	148	147
75°	119	126
85°	90	77
90°	74	41
95°	55	37
105°	6	10
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: P702233

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-FF

CANDELA DISTRIBUTION (FULL):

0°	
0°	2437.1
2.5°	2430.6
5°	2411.3
7.5°	2372.7
10°	2314.7
12.5°	2250.4
15°	2179.5
17.5°	2099.0
20°	2005.7
22.5°	1864.0
25°	1439.1
27.5°	827.4
30°	579.5
32.5°	499.0
35°	447.5
37.5°	405.6
40°	360.6
42.5°	325.2
45°	293.0
47.5°	260.8
50°	235.0
52.5°	212.5
55°	193.2
57.5°	177.1
60°	164.2
62.5°	154.5
65°	148.1
67.5°	141.7
70°	132.0
72.5°	125.6
75°	119.1
77.5°	112.7
80°	106.2
82.5°	96.6
85°	90.1
87.5°	83.7
90°	74.0
92.5°	67.6
95°	54.7
97.5°	35.4
100°	25.8
102.5°	16.1
105°	6.4
107.5°	3.2
110°	0.0

TEST NUMBER: P702233

CATALOG NUMBER: 340-4C-40-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)