

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: P702240

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702240
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-3040-9727-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

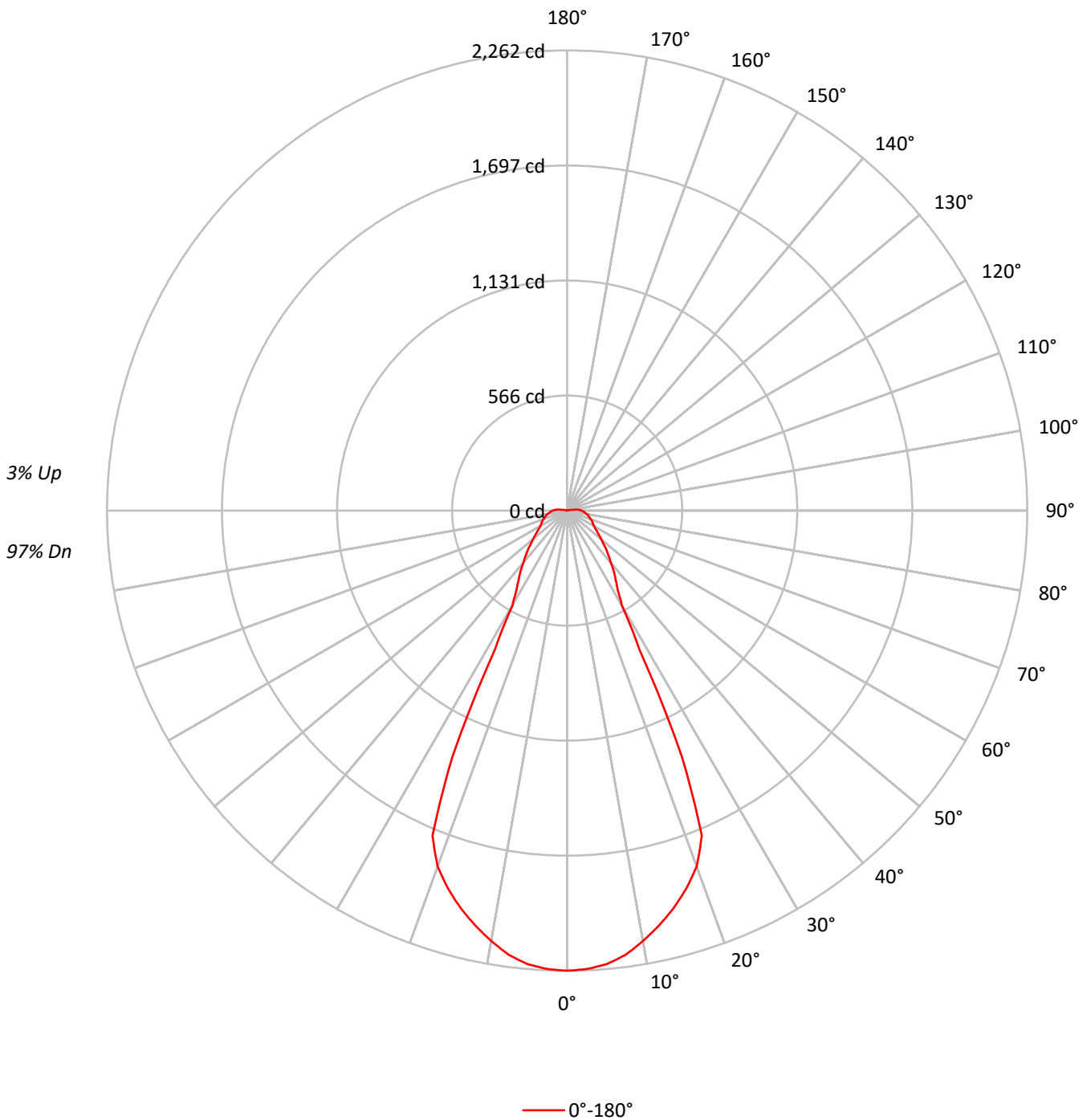
Lumens per Lamp: N/A
Luminaire Lumens: 2381.7 lumens
Efficiency: N/A
Efficacy: 50.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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: P702240

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-FF

Luminous Intensity Polar Plot



TEST NUMBER: P702240

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-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°	262342
5°	226866
10°	194731
15°	166954
20°	142011
25°	95400
30°	36374
35°	26866
40°	20901
45°	16532
50°	13017
55°	10587
60°	8972
65°	8126
70°	7334
75°	6756
80°	6197
85°	5459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 16532 cd/sqm

TEST NUMBER: P702240

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-FF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.8	8.8
10°-20°	567.4	23.8
20°-30°	561.3	23.6
30°-40°	263.3	11.1
40°-50°	210.2	8.8
50°-60°	162.3	6.8
60°-70°	136.2	5.7
70°-80°	116.9	4.9
80°-90°	91.2	3.8
90°-100°	52.6	2.2
100°-110°	9.6	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°	1339.4	56.2
0°-40°	1602.7	67.3
0°-60°	1975.2	82.9
0°-90°	2319.5	97.4
90°-120°	62.2	2.6
90°-150°	62.2	2.6
90°-180°	62.0	2.6
0°-180°	2381.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2262	
5°	2238	211
15°	2023	567
25°	1336	561
35°	415	263
45°	272	210
55°	179	162
65°	137	136
75°	111	117
85°	84	71
90°	69	38
95°	51	35
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: P702240

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-FF

CANDELA DISTRIBUTION (FULL):

0°	
0°	2261.9
2.5°	2255.9
5°	2238.0
7.5°	2202.1
10°	2148.4
12.5°	2088.6
15°	2022.9
17.5°	1948.2
20°	1861.5
22.5°	1730.0
25°	1335.6
27.5°	767.9
30°	537.8
32.5°	463.1
35°	415.3
37.5°	376.5
40°	334.7
42.5°	301.8
45°	271.9
47.5°	242.0
50°	218.1
52.5°	197.2
55°	179.3
57.5°	164.3
60°	152.4
62.5°	143.4
65°	137.4
67.5°	131.5
70°	122.5
72.5°	116.5
75°	110.6
77.5°	104.6
80°	98.6
82.5°	89.6
85°	83.7
87.5°	77.7
90°	68.7
92.5°	62.7
95°	50.8
97.5°	32.9
100°	23.9
102.5°	14.9
105°	6.0
107.5°	3.0
110°	0.0

TEST NUMBER: P702240

CATALOG NUMBER: 340-4C-40-D010 / 340-EU4C-3040-9727-4LBW1LI-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)