

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: P702247

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9730-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702247
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-3040-9730-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

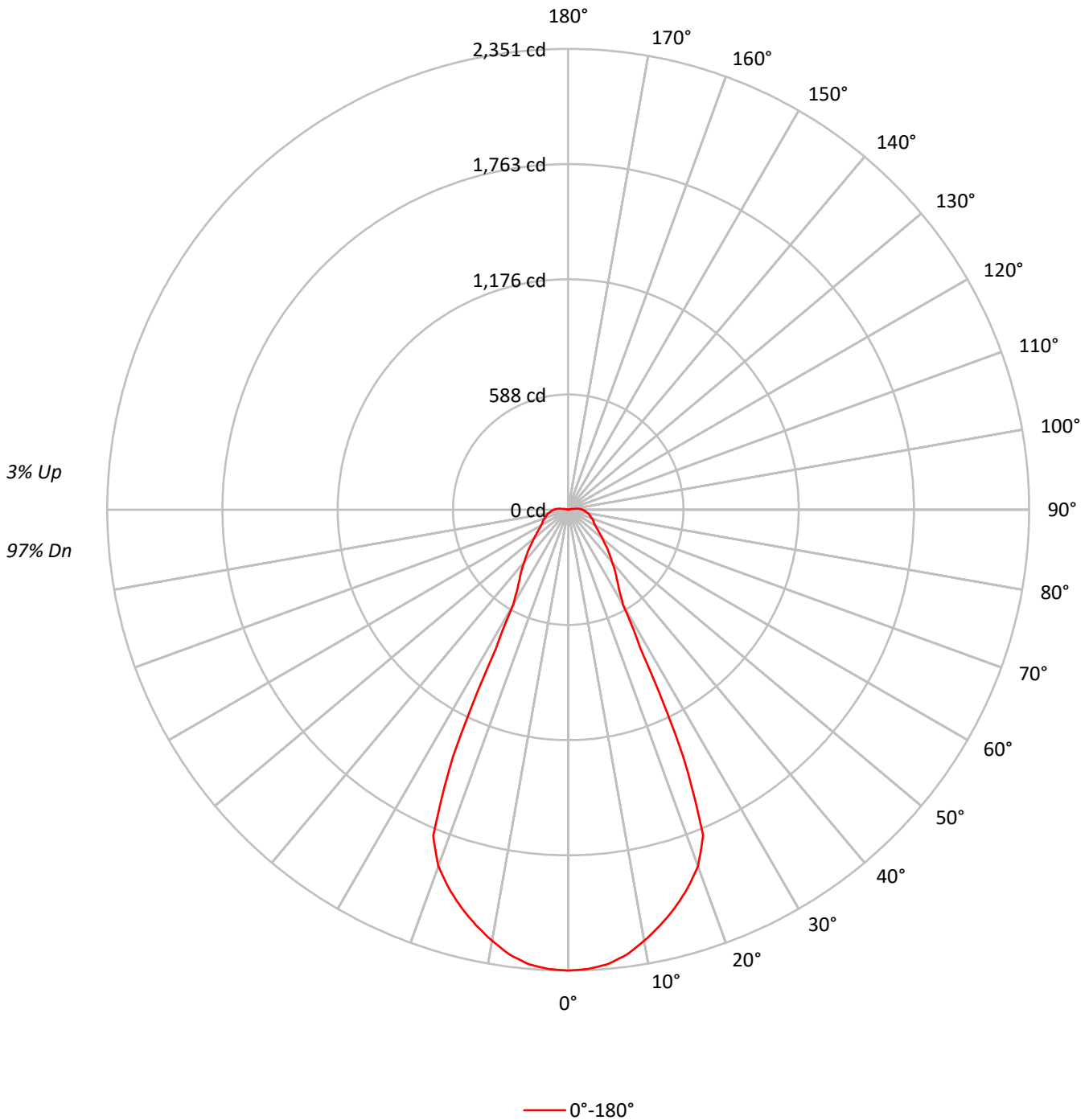
Lumens per Lamp: N/A
Luminaire Lumens: 2475.9 lumens
Efficiency: N/A
Efficacy: 52.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

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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	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°	272711
5°	235838
10°	202426
15°	173548
20°	147626
25°	99171
30°	37814
35°	27927
40°	21726
45°	17189
50°	13531
55°	11007
60°	9325
65°	8451
70°	7621
75°	7019
80°	6442
85°	5674

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 17189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.1	8.8
10°-20°	589.8	23.8
20°-30°	583.5	23.6
30°-40°	273.7	11.1
40°-50°	218.5	8.8
50°-60°	168.7	6.8
60°-70°	141.7	5.7
70°-80°	121.5	4.9
80°-90°	94.9	3.8
90°-100°	54.7	2.2
100°-110°	9.9	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°	1392.4	56.2
0°-40°	1666.0	67.3
0°-60°	2053.3	82.9
0°-90°	2411.2	97.4
90°-120°	64.6	2.6
90°-150°	64.6	2.6
90°-180°	65.0	2.6
0°-180°	2475.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2351	
5°	2326	219
15°	2103	590
25°	1388	583
35°	432	274
45°	283	219
55°	186	169
65°	143	142
75°	115	121
85°	87	74
90°	71	40
95°	53	36
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	2351.3
2.5°	2345.1
5°	2326.5
7.5°	2289.2
10°	2233.3
12.5°	2171.2
15°	2102.8
17.5°	2025.2
20°	1935.1
22.5°	1798.4
25°	1388.4
27.5°	798.3
30°	559.1
32.5°	481.4
35°	431.7
37.5°	391.4
40°	347.9
42.5°	313.7
45°	282.7
47.5°	251.6
50°	226.7
52.5°	205.0
55°	186.4
57.5°	170.8
60°	158.4
62.5°	149.1
65°	142.9
67.5°	136.7
70°	127.3
72.5°	121.1
75°	114.9
77.5°	108.7
80°	102.5
82.5°	93.2
85°	87.0
87.5°	80.8
90°	71.4
92.5°	65.2
95°	52.8
97.5°	34.2
100°	24.8
102.5°	15.5
105°	6.2
107.5°	3.1
110°	0.0

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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)