

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: P701897

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701897
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-10-D010 / 340-EU4C-1020-9050-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

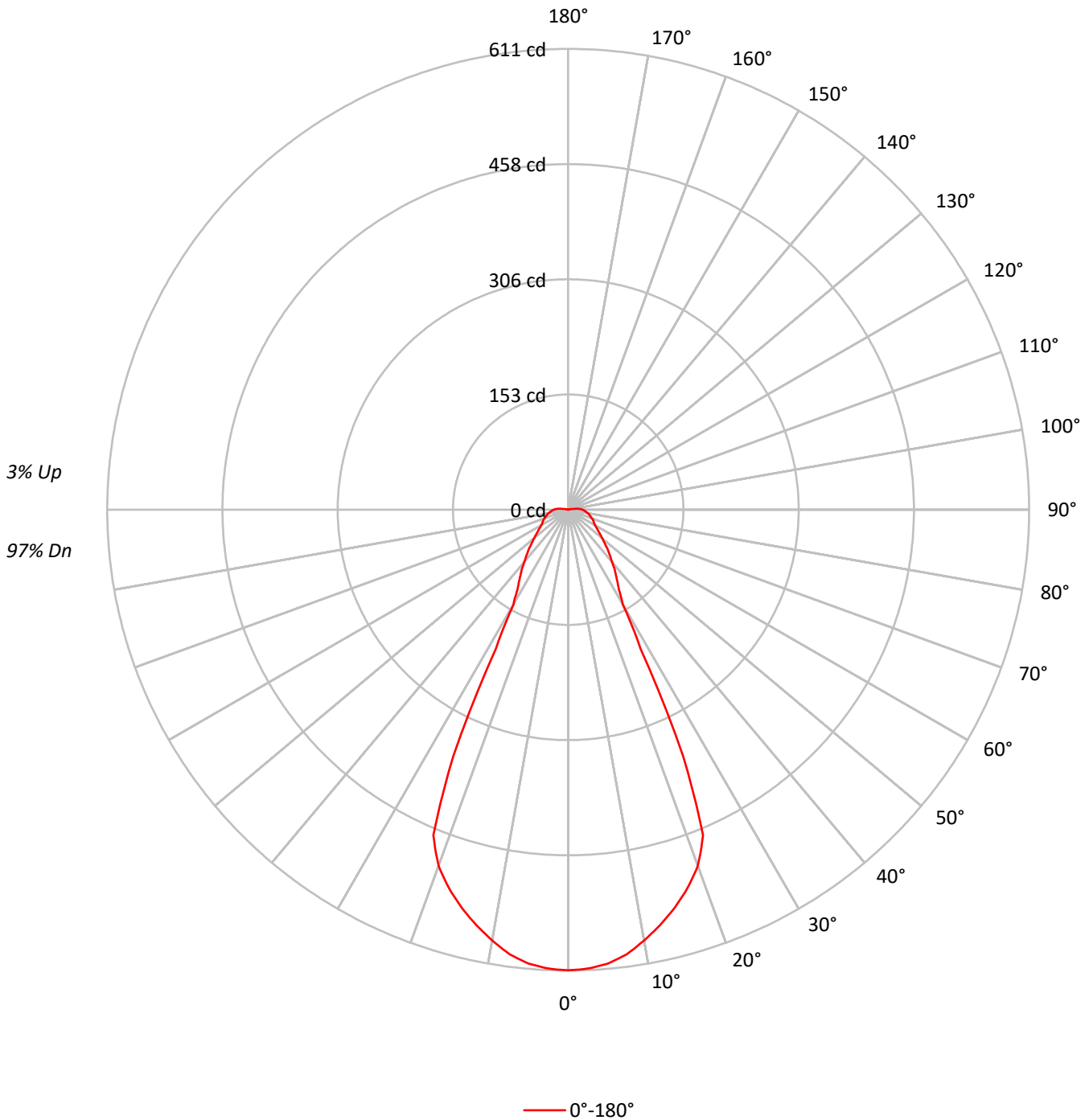
Lumens per Lamp: N/A
Luminaire Lumens: 643.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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°	70831
5°	61248
10°	52571
15°	45071
20°	38343
25°	25757
30°	9821
35°	7252
40°	5639
45°	4463
50°	3515
55°	2858
60°	2419
65°	2194
70°	1982
75°	1820
80°	1672
85°	1474

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4463 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	8.8
10°-20°	153.2	23.8
20°-30°	151.5	23.6
30°-40°	71.1	11.1
40°-50°	56.7	8.8
50°-60°	43.8	6.8
60°-70°	36.8	5.7
70°-80°	31.5	4.9
80°-90°	24.6	3.8
90°-100°	14.2	2.2
100°-110°	2.6	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°	361.6	56.2
0°-40°	432.7	67.3
0°-60°	533.2	82.9
0°-90°	626.2	97.4
90°-120°	16.8	2.6
90°-150°	16.8	2.6
90°-180°	17.0	2.6
0°-180°	643.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	611	
5°	604	57
15°	546	153
25°	361	152
35°	112	71
45°	73	57
55°	48	44
65°	37	37
75°	30	32
85°	23	19
90°	19	10
95°	14	9
105°	2	3
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°	610.7
2.5°	609.0
5°	604.2
7.5°	594.5
10°	580.0
12.5°	563.9
15°	546.1
17.5°	526.0
20°	502.6
22.5°	467.1
25°	360.6
27.5°	207.3
30°	145.2
32.5°	125.0
35°	112.1
37.5°	101.6
40°	90.3
42.5°	81.5
45°	73.4
47.5°	65.3
50°	58.9
52.5°	53.2
55°	48.4
57.5°	44.4
60°	41.1
62.5°	38.7
65°	37.1
67.5°	35.5
70°	33.1
72.5°	31.5
75°	29.8
77.5°	28.2
80°	26.6
82.5°	24.2
85°	22.6
87.5°	21.0
90°	18.6
92.5°	16.9
95°	13.7
97.5°	8.9
100°	6.5
102.5°	4.0
105°	1.6
107.5°	0.8
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)