

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: P701869

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9027-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701869
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-1020-9027-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

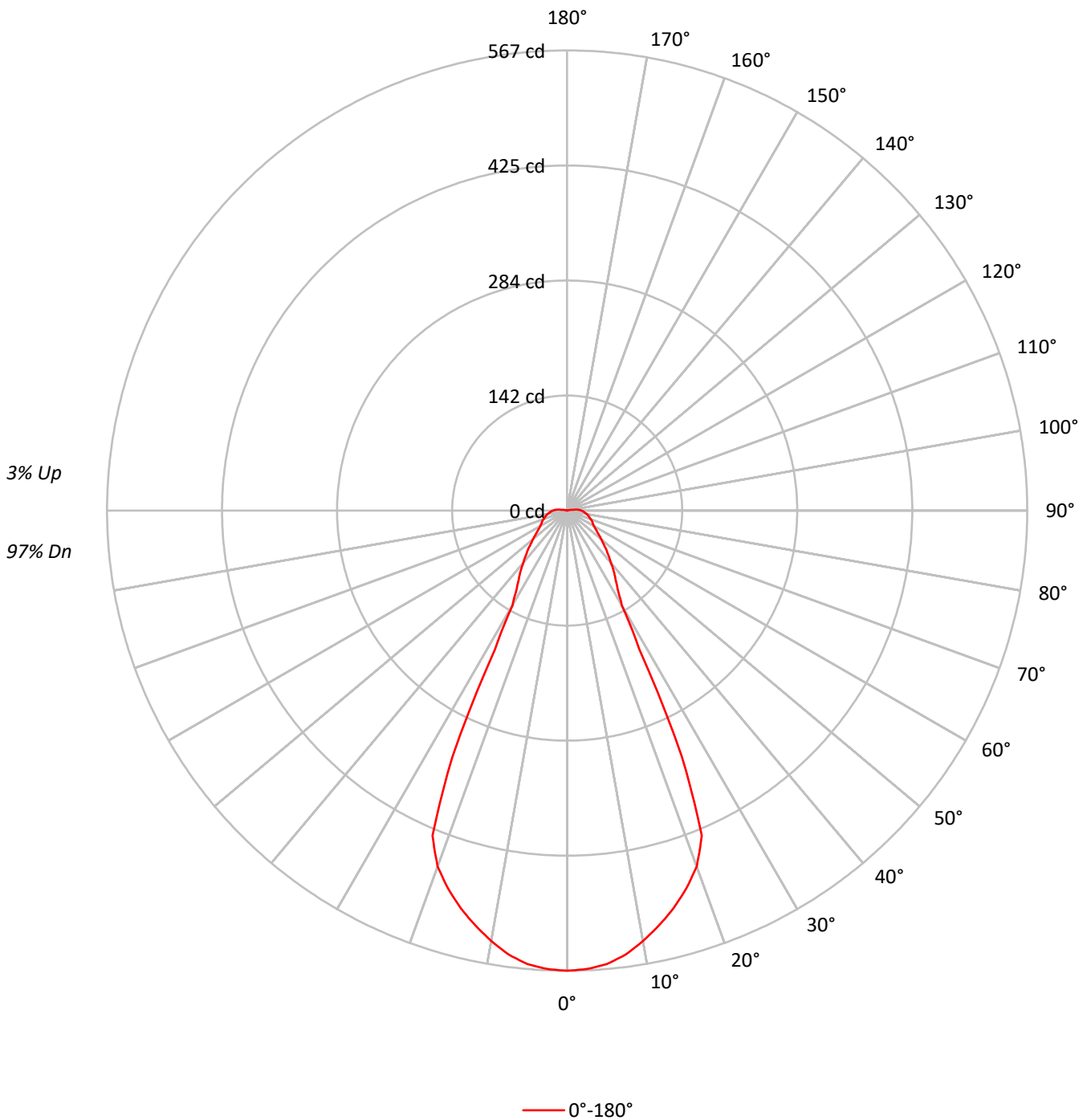
Lumens per Lamp: N/A
Luminaire Lumens: 596.9 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	65751
5°	56859
10°	48801
15°	41844
20°	35596
25°	23914
30°	9117
35°	6734
40°	5239
45°	4141
50°	3265
55°	2651
60°	2249
65°	2034
70°	1838
75°	1692
80°	1552
85°	1370

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4141 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	8.8
10°-20°	142.2	23.8
20°-30°	140.7	23.6
30°-40°	66.0	11.1
40°-50°	52.7	8.8
50°-60°	40.7	6.8
60°-70°	34.1	5.7
70°-80°	29.3	4.9
80°-90°	22.9	3.8
90°-100°	13.2	2.2
100°-110°	2.4	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°	335.7	56.2
0°-40°	401.7	67.3
0°-60°	495.1	82.9
0°-90°	581.4	97.4
90°-120°	15.5	2.6
90°-150°	15.5	2.6
90°-180°	16.0	2.7
0°-180°	596.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	567	
5°	561	53
15°	507	142
25°	335	141
35°	104	66
45°	68	53
55°	45	41
65°	34	34
75°	28	29
85°	21	18
90°	17	10
95°	13	9
105°	2	2
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°	566.9
2.5°	565.4
5°	560.9
7.5°	551.9
10°	538.4
12.5°	523.5
15°	507.0
17.5°	488.3
20°	466.6
22.5°	433.6
25°	334.8
27.5°	192.5
30°	134.8
32.5°	116.1
35°	104.1
37.5°	94.4
40°	83.9
42.5°	75.6
45°	68.1
47.5°	60.7
50°	54.7
52.5°	49.4
55°	44.9
57.5°	41.2
60°	38.2
62.5°	35.9
65°	34.4
67.5°	33.0
70°	30.7
72.5°	29.2
75°	27.7
77.5°	26.2
80°	24.7
82.5°	22.5
85°	21.0
87.5°	19.5
90°	17.2
92.5°	15.7
95°	12.7
97.5°	8.2
100°	6.0
102.5°	3.7
105°	1.5
107.5°	0.7
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)