

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: P701757

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9027-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701757
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-05-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

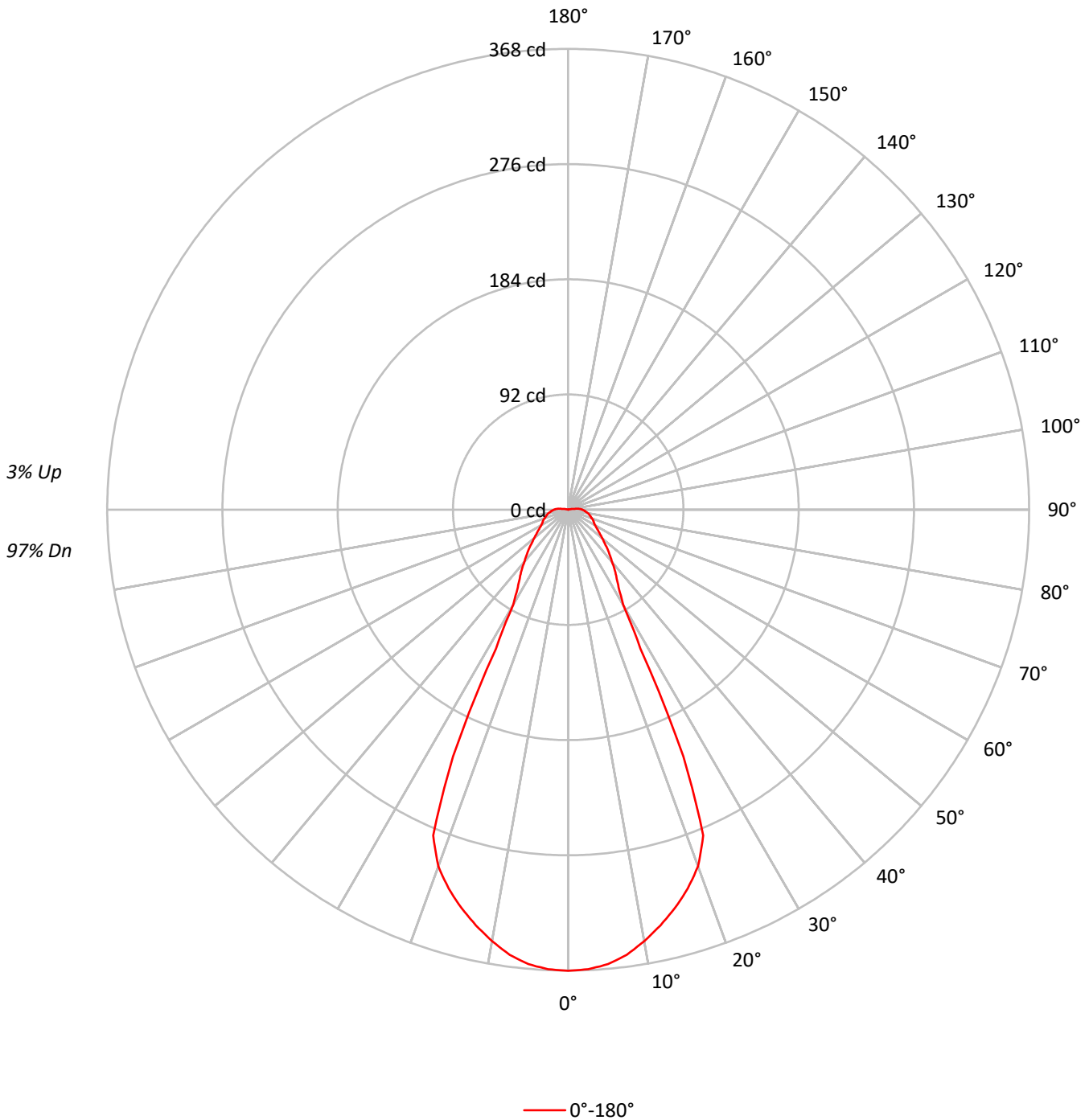
Lumens per Lamp: N/A
Luminaire Lumens: 387.8 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 7.2
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°	42705
5°	36929
10°	31706
15°	27178
20°	23123
25°	15529
30°	5925
35°	4373
40°	3403
45°	2694
50°	2119
55°	1724
60°	1460
65°	1325
70°	1191
75°	1100
80°	1012
85°	887

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2694 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.3	8.8
10°-20°	92.4	23.8
20°-30°	91.4	23.6
30°-40°	42.9	11.1
40°-50°	34.2	8.8
50°-60°	26.4	6.8
60°-70°	22.2	5.7
70°-80°	19.0	4.9
80°-90°	14.8	3.8
90°-100°	8.6	2.2
100°-110°	1.6	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°	218.1	56.2
0°-40°	260.9	67.3
0°-60°	321.6	82.9
0°-90°	377.6	97.4
90°-120°	10.2	2.6
90°-150°	10.2	2.6
90°-180°	10.0	2.6
0°-180°	387.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	368	
5°	364	34
15°	329	92
25°	217	91
35°	68	43
45°	44	34
55°	29	26
65°	22	22
75°	18	19
85°	14	12
90°	11	6
95°	8	6
105°	1	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

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CANDELA DISTRIBUTION (FULL):

0°	
0°	368.2
2.5°	367.3
5°	364.3
7.5°	358.5
10°	349.8
12.5°	340.0
15°	329.3
17.5°	317.2
20°	303.1
22.5°	281.6
25°	217.4
27.5°	125.0
30°	87.6
32.5°	75.4
35°	67.6
37.5°	61.3
40°	54.5
42.5°	49.1
45°	44.3
47.5°	39.4
50°	35.5
52.5°	32.1
55°	29.2
57.5°	26.8
60°	24.8
62.5°	23.3
65°	22.4
67.5°	21.4
70°	19.9
72.5°	19.0
75°	18.0
77.5°	17.0
80°	16.1
82.5°	14.6
85°	13.6
87.5°	12.6
90°	11.2
92.5°	10.2
95°	8.3
97.5°	5.4
100°	3.9
102.5°	2.4
105°	1.0
107.5°	0.5
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)