

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: P701883

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9035-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701883
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-1020-9035-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

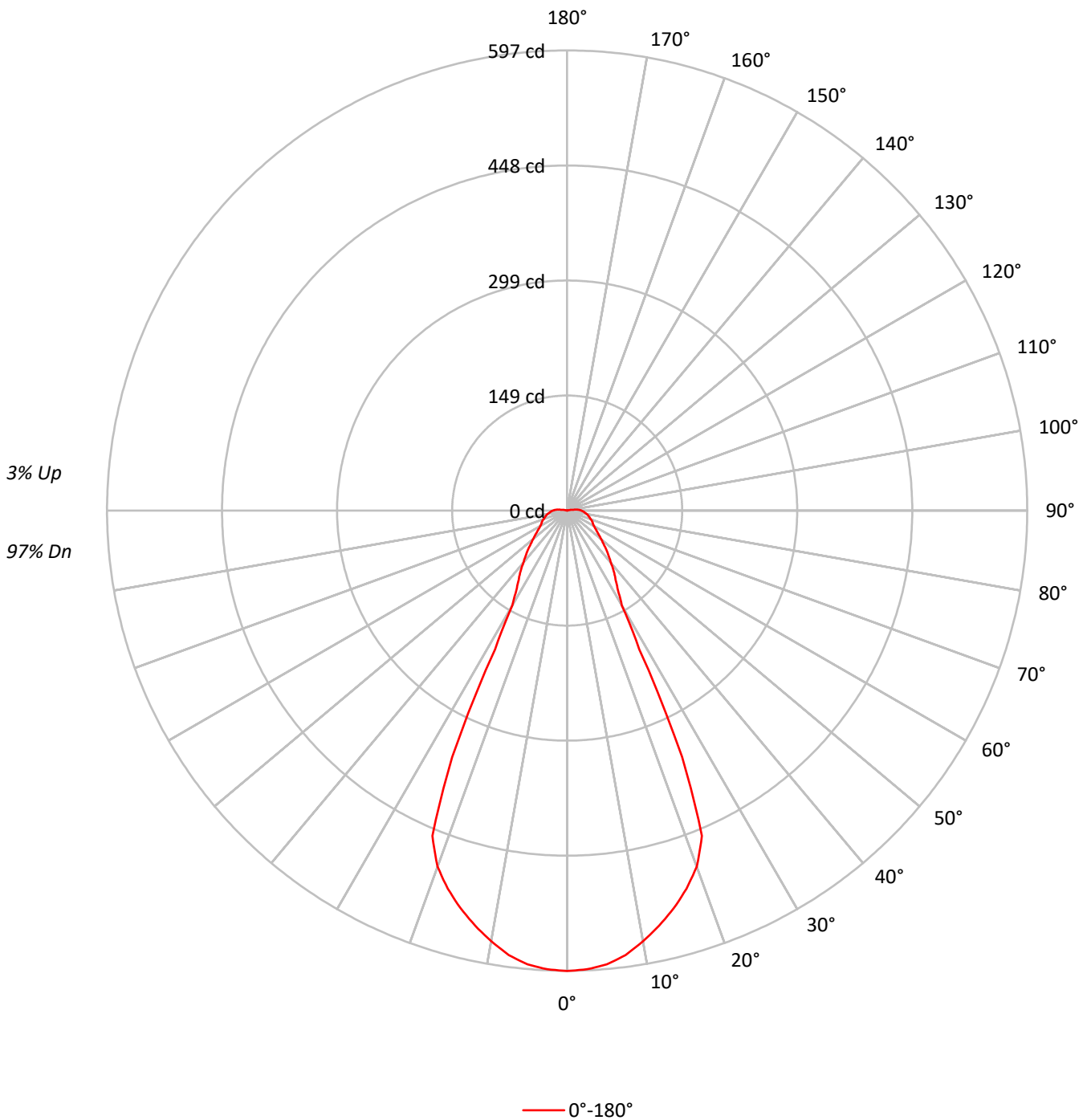
Lumens per Lamp: N/A
Luminaire Lumens: 628.9 lumens
Efficiency: N/A
Efficacy: 64.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	69277
5°	59910
10°	51420
15°	44089
20°	37503
25°	25193
30°	9604
35°	7097
40°	5520
45°	4366
50°	3438
55°	2793
60°	2367
65°	2147
70°	1934
75°	1784
80°	1634
85°	1441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4366 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	8.8
10°-20°	149.8	23.8
20°-30°	148.2	23.6
30°-40°	69.5	11.1
40°-50°	55.5	8.8
50°-60°	42.8	6.8
60°-70°	36.0	5.7
70°-80°	30.9	4.9
80°-90°	24.1	3.8
90°-100°	13.9	2.2
100°-110°	2.5	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°	353.7	56.2
0°-40°	423.2	67.3
0°-60°	521.6	82.9
0°-90°	612.5	97.4
90°-120°	16.4	2.6
90°-150°	16.4	2.6
90°-180°	16.0	2.5
0°-180°	628.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	597	
5°	591	56
15°	534	150
25°	353	148
35°	110	70
45°	72	56
55°	47	43
65°	36	36
75°	29	31
85°	22	19
90°	18	10
95°	13	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°	597.3
2.5°	595.7
5°	591.0
7.5°	581.5
10°	567.3
12.5°	551.5
15°	534.2
17.5°	514.4
20°	491.6
22.5°	456.8
25°	352.7
27.5°	202.8
30°	142.0
32.5°	122.3
35°	109.7
37.5°	99.4
40°	88.4
42.5°	79.7
45°	71.8
47.5°	63.9
50°	57.6
52.5°	52.1
55°	47.3
57.5°	43.4
60°	40.2
62.5°	37.9
65°	36.3
67.5°	34.7
70°	32.3
72.5°	30.8
75°	29.2
77.5°	27.6
80°	26.0
82.5°	23.7
85°	22.1
87.5°	20.5
90°	18.1
92.5°	16.6
95°	13.4
97.5°	8.7
100°	6.3
102.5°	3.9
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)