

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: P701827

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701827
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-08-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

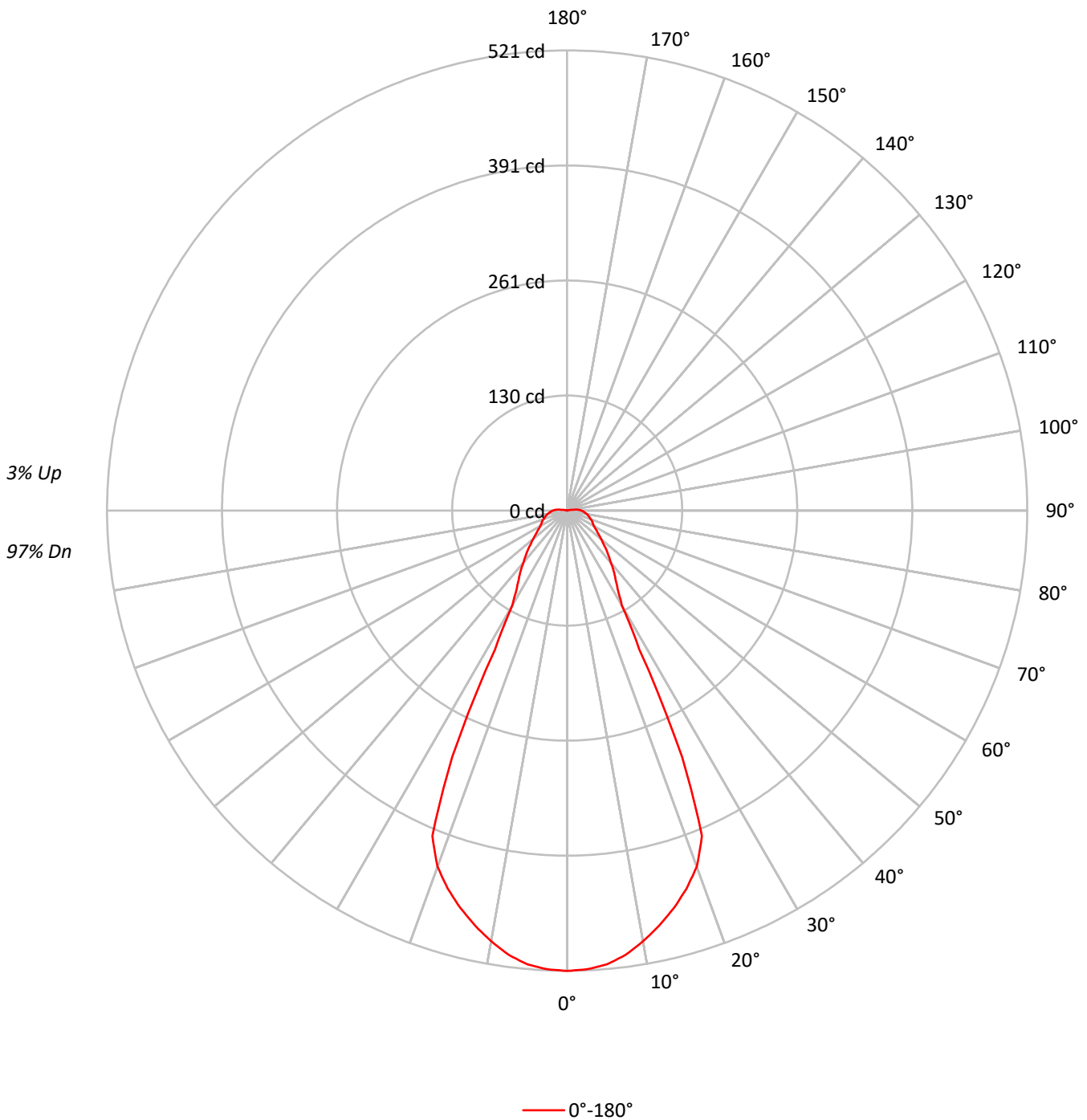
Lumens per Lamp: N/A
Luminaire Lumens: 548.9 lumens
Efficiency: N/A
Efficacy: 55.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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°	60450
5°	52277
10°	44876
15°	38468
20°	32728
25°	21986
30°	8380
35°	6191
40°	4815
45°	3812
50°	3002
55°	2439
60°	2066
65°	1875
70°	1688
75°	1558
80°	1427
85°	1259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3812 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	8.8
10°-20°	130.7	23.8
20°-30°	129.3	23.6
30°-40°	60.7	11.1
40°-50°	48.4	8.8
50°-60°	37.4	6.8
60°-70°	31.4	5.7
70°-80°	26.9	4.9
80°-90°	21.0	3.8
90°-100°	12.1	2.2
100°-110°	2.2	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°	308.7	56.2
0°-40°	369.3	67.3
0°-60°	455.2	82.9
0°-90°	534.5	97.4
90°-120°	14.3	2.6
90°-150°	14.3	2.6
90°-180°	14.0	2.6
0°-180°	548.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	521	
5°	516	49
15°	466	131
25°	308	129
35°	96	61
45°	63	48
55°	41	37
65°	32	31
75°	26	27
85°	19	16
90°	16	9
95°	12	8
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°	521.2
2.5°	519.8
5°	515.7
7.5°	507.4
10°	495.1
12.5°	481.3
15°	466.1
17.5°	448.9
20°	429.0
22.5°	398.7
25°	307.8
27.5°	177.0
30°	123.9
32.5°	106.7
35°	95.7
37.5°	86.8
40°	77.1
42.5°	69.5
45°	62.7
47.5°	55.8
50°	50.3
52.5°	45.4
55°	41.3
57.5°	37.9
60°	35.1
62.5°	33.0
65°	31.7
67.5°	30.3
70°	28.2
72.5°	26.9
75°	25.5
77.5°	24.1
80°	22.7
82.5°	20.7
85°	19.3
87.5°	17.9
90°	15.8
92.5°	14.5
95°	11.7
97.5°	7.6
100°	5.5
102.5°	3.4
105°	1.4
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)