

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: P701841

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9050-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701841
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-1020-9050-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

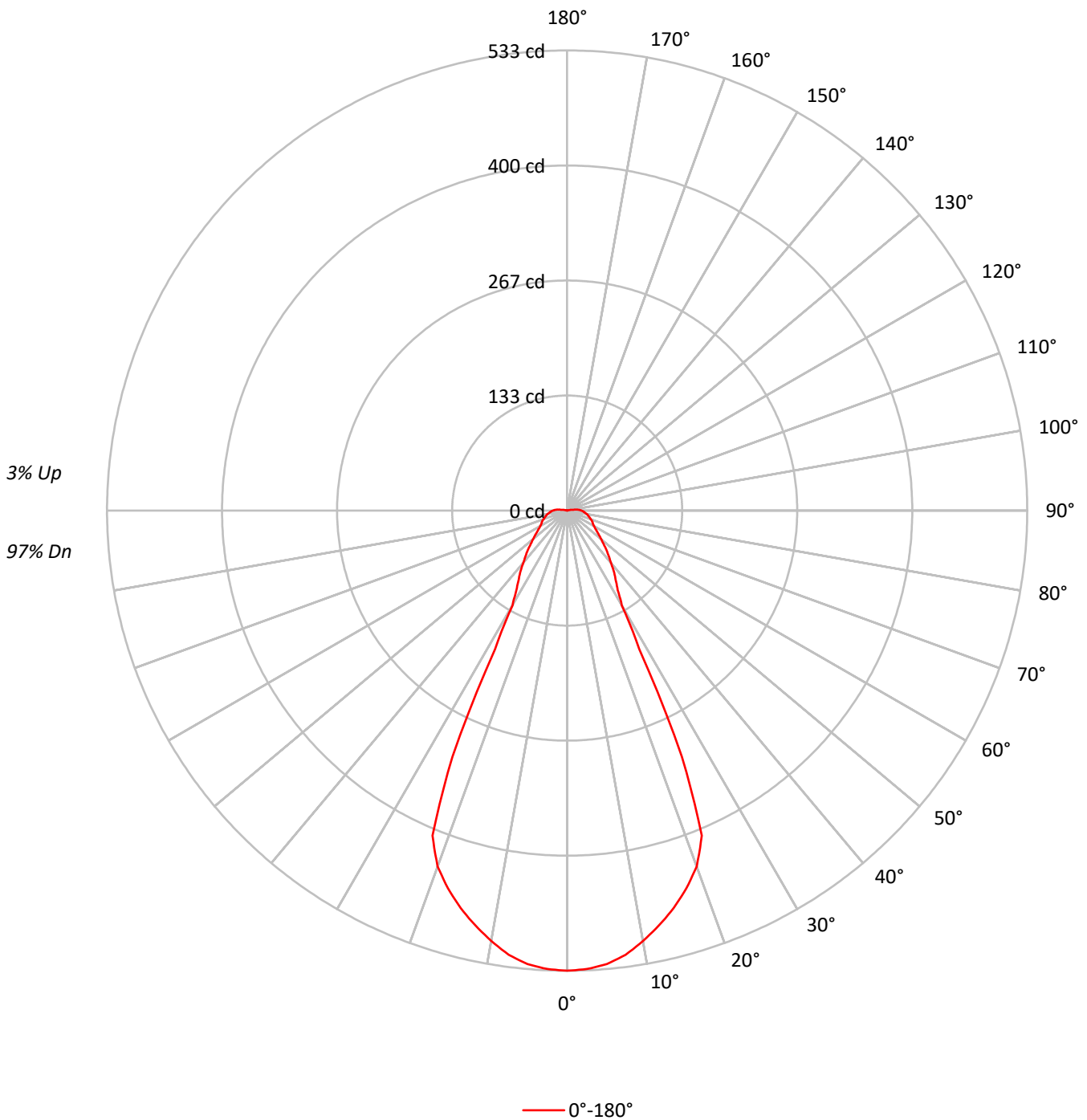
Lumens per Lamp: N/A
Luminaire Lumens: 561.1 lumens
Efficiency: N/A
Efficacy: 56.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	61807
5°	53452
10°	45882
15°	39335
20°	33460
25°	22479
30°	8569
35°	6333
40°	4921
45°	3897
50°	3068
55°	2492
60°	2113
65°	1916
70°	1730
75°	1588
80°	1458
85°	1285

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3897 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	8.9
10°-20°	133.7	23.8
20°-30°	132.2	23.6
30°-40°	62.0	11.1
40°-50°	49.5	8.8
50°-60°	38.2	6.8
60°-70°	32.1	5.7
70°-80°	27.5	4.9
80°-90°	21.5	3.8
90°-100°	12.4	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°	315.6	56.2
0°-40°	377.6	67.3
0°-60°	465.4	82.9
0°-90°	546.5	97.4
90°-120°	14.6	2.6
90°-150°	14.6	2.6
90°-180°	15.0	2.7
0°-180°	561.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	533	
5°	527	50
15°	477	134
25°	315	132
35°	98	62
45°	64	50
55°	42	38
65°	32	32
75°	26	28
85°	20	17
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°	532.9
2.5°	531.5
5°	527.3
7.5°	518.9
10°	506.2
12.5°	492.1
15°	476.6
17.5°	459.0
20°	438.6
22.5°	407.6
25°	314.7
27.5°	180.9
30°	126.7
32.5°	109.1
35°	97.9
37.5°	88.7
40°	78.8
42.5°	71.1
45°	64.1
47.5°	57.0
50°	51.4
52.5°	46.5
55°	42.2
57.5°	38.7
60°	35.9
62.5°	33.8
65°	32.4
67.5°	31.0
70°	28.9
72.5°	27.5
75°	26.0
77.5°	24.6
80°	23.2
82.5°	21.1
85°	19.7
87.5°	18.3
90°	16.2
92.5°	14.8
95°	12.0
97.5°	7.7
100°	5.6
102.5°	3.5
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)