

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: P701806

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9024-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701806
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-1020-9024-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 2400K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

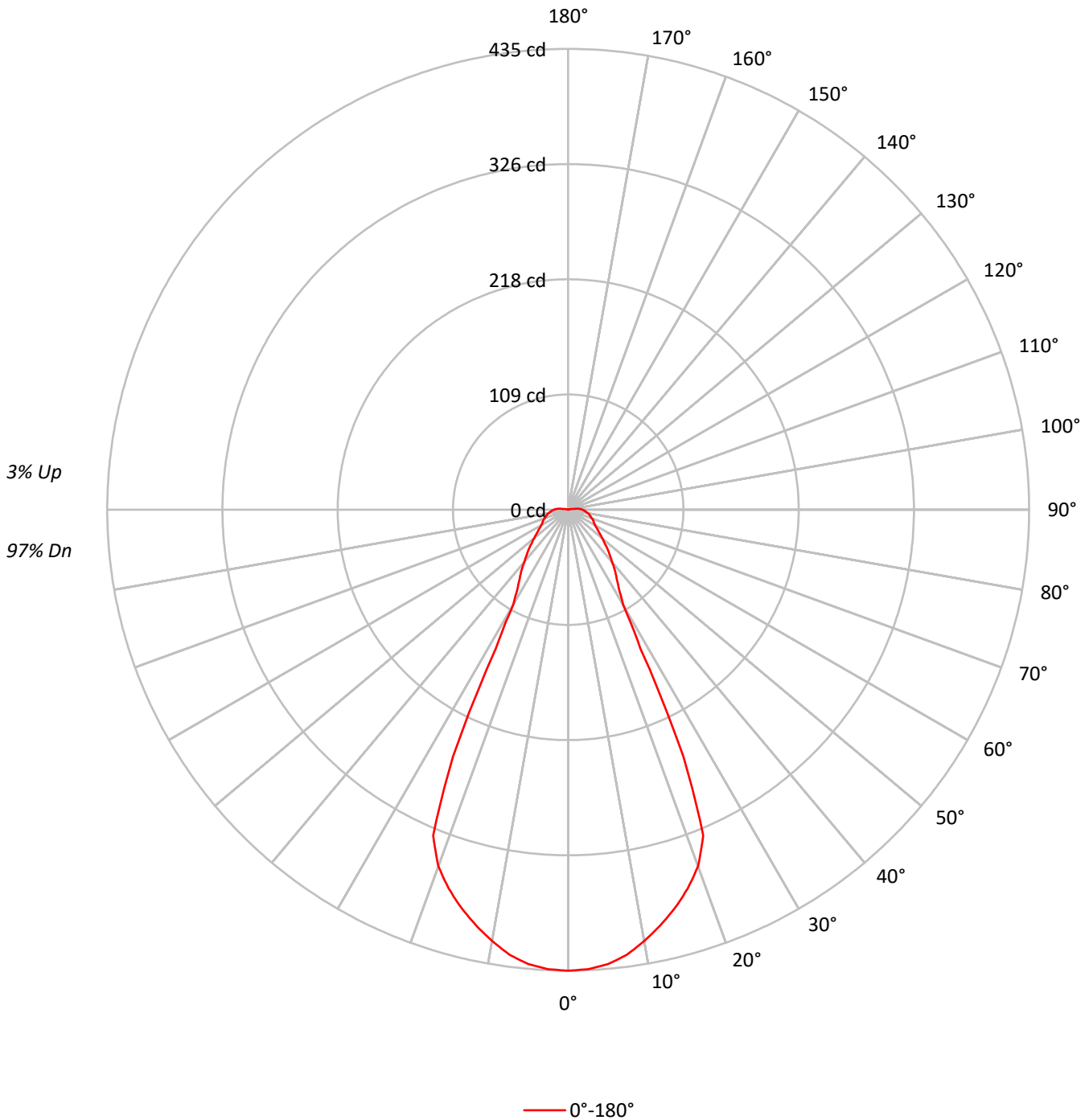
Lumens per Lamp: N/A
Luminaire Lumens: 458.3 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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	57	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°	50476
5°	43650
10°	37471
15°	32121
20°	27327
25°	18357
30°	7000
35°	5169
40°	4022
45°	3180
50°	2507
55°	2037
60°	1725
65°	1561
70°	1413
75°	1301
80°	1194
85°	1050

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.6	8.8
10°-20°	109.2	23.8
20°-30°	108.0	23.6
30°-40°	50.6	11.1
40°-50°	40.5	8.8
50°-60°	31.2	6.8
60°-70°	26.2	5.7
70°-80°	22.5	4.9
80°-90°	17.5	3.8
90°-100°	10.1	2.2
100°-110°	1.8	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°	257.7	56.2
0°-40°	308.4	67.3
0°-60°	380.1	82.9
0°-90°	446.3	97.4
90°-120°	12.0	2.6
90°-150°	12.0	2.6
90°-180°	12.0	2.6
0°-180°	458.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	435	
5°	431	41
15°	389	109
25°	257	108
35°	80	51
45°	52	40
55°	34	31
65°	26	26
75°	21	22
85°	16	14
90°	13	7
95°	10	7
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°	435.2
2.5°	434.1
5°	430.6
7.5°	423.7
10°	413.4
12.5°	401.9
15°	389.2
17.5°	374.9
20°	358.2
22.5°	332.9
25°	257.0
27.5°	147.8
30°	103.5
32.5°	89.1
35°	79.9
37.5°	72.4
40°	64.4
42.5°	58.1
45°	52.3
47.5°	46.6
50°	42.0
52.5°	37.9
55°	34.5
57.5°	31.6
60°	29.3
62.5°	27.6
65°	26.4
67.5°	25.3
70°	23.6
72.5°	22.4
75°	21.3
77.5°	20.1
80°	19.0
82.5°	17.2
85°	16.1
87.5°	14.9
90°	13.2
92.5°	12.1
95°	9.8
97.5°	6.3
100°	4.6
102.5°	2.9
105°	1.1
107.5°	0.6
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)