

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: P702023

Luminaire Tested: 340-4C-20-D010 / 340-EU4C-1020-9730-4LBW1LI-FF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702023
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-20-D010 / 340-EU4C-1020-9730-4LBW1LI-FF
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.
Light Source: 3000K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

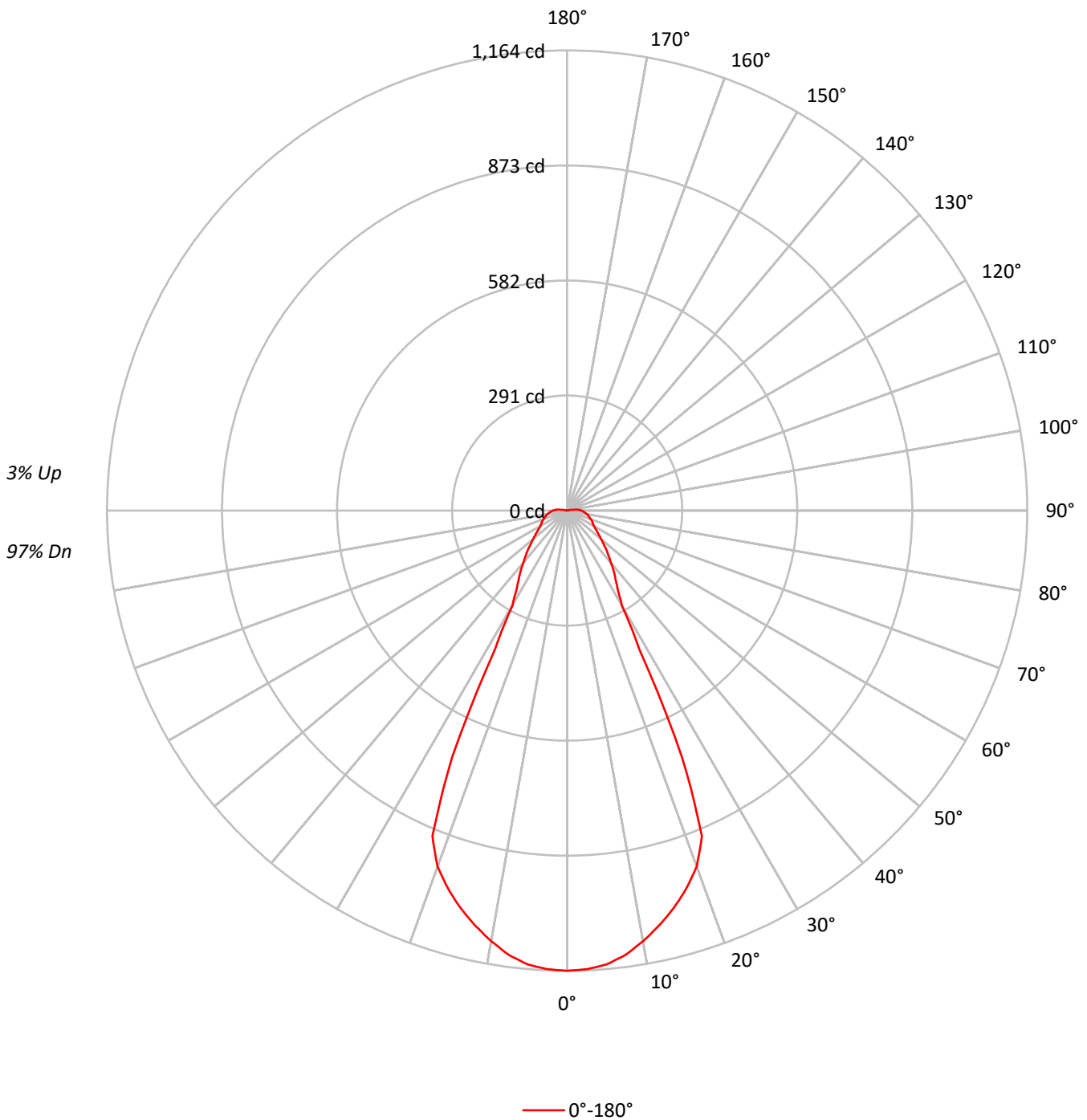
Lumens per Lamp: N/A
Luminaire Lumens: 1225.9 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 21.8
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°	135028
5°	116768
10°	100230
15°	85932
20°	73092
25°	49100
30°	18721
35°	13831
40°	10754
45°	8512
50°	6703
55°	5450
60°	4615
65°	4181
70°	3778
75°	3476
80°	3193
85°	2811

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 8512 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.5	8.8
10°-20°	292.0	23.8
20°-30°	288.9	23.6
30°-40°	135.5	11.1
40°-50°	108.2	8.8
50°-60°	83.5	6.8
60°-70°	70.1	5.7
70°-80°	60.2	4.9
80°-90°	47.0	3.8
90°-100°	27.1	2.2
100°-110°	4.9	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°	689.4	56.2
0°-40°	824.9	67.3
0°-60°	1016.6	82.9
0°-90°	1193.9	97.4
90°-120°	32.0	2.6
90°-150°	32.0	2.6
90°-180°	32.0	2.6
0°-180°	1225.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1164	
5°	1152	108
15°	1041	292
25°	687	289
35°	214	136
45°	140	108
55°	92	84
65°	71	70
75°	57	60
85°	43	37
90°	35	20
95°	26	18
105°	3	5
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°	1164.2
2.5°	1161.1
5°	1151.9
7.5°	1133.4
10°	1105.8
12.5°	1075.0
15°	1041.2
17.5°	1002.7
20°	958.1
22.5°	890.5
25°	687.4
27.5°	395.2
30°	276.8
32.5°	238.4
35°	213.8
37.5°	193.8
40°	172.2
42.5°	155.3
45°	140.0
47.5°	124.6
50°	112.3
52.5°	101.5
55°	92.3
57.5°	84.6
60°	78.4
62.5°	73.8
65°	70.7
67.5°	67.7
70°	63.1
72.5°	60.0
75°	56.9
77.5°	53.8
80°	50.8
82.5°	46.1
85°	43.1
87.5°	40.0
90°	35.4
92.5°	32.3
95°	26.1
97.5°	16.9
100°	12.3
102.5°	7.7
105°	3.1
107.5°	1.5
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)