

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: P701776

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701776
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-05-D010 / 340-EU4C-1020-9040-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

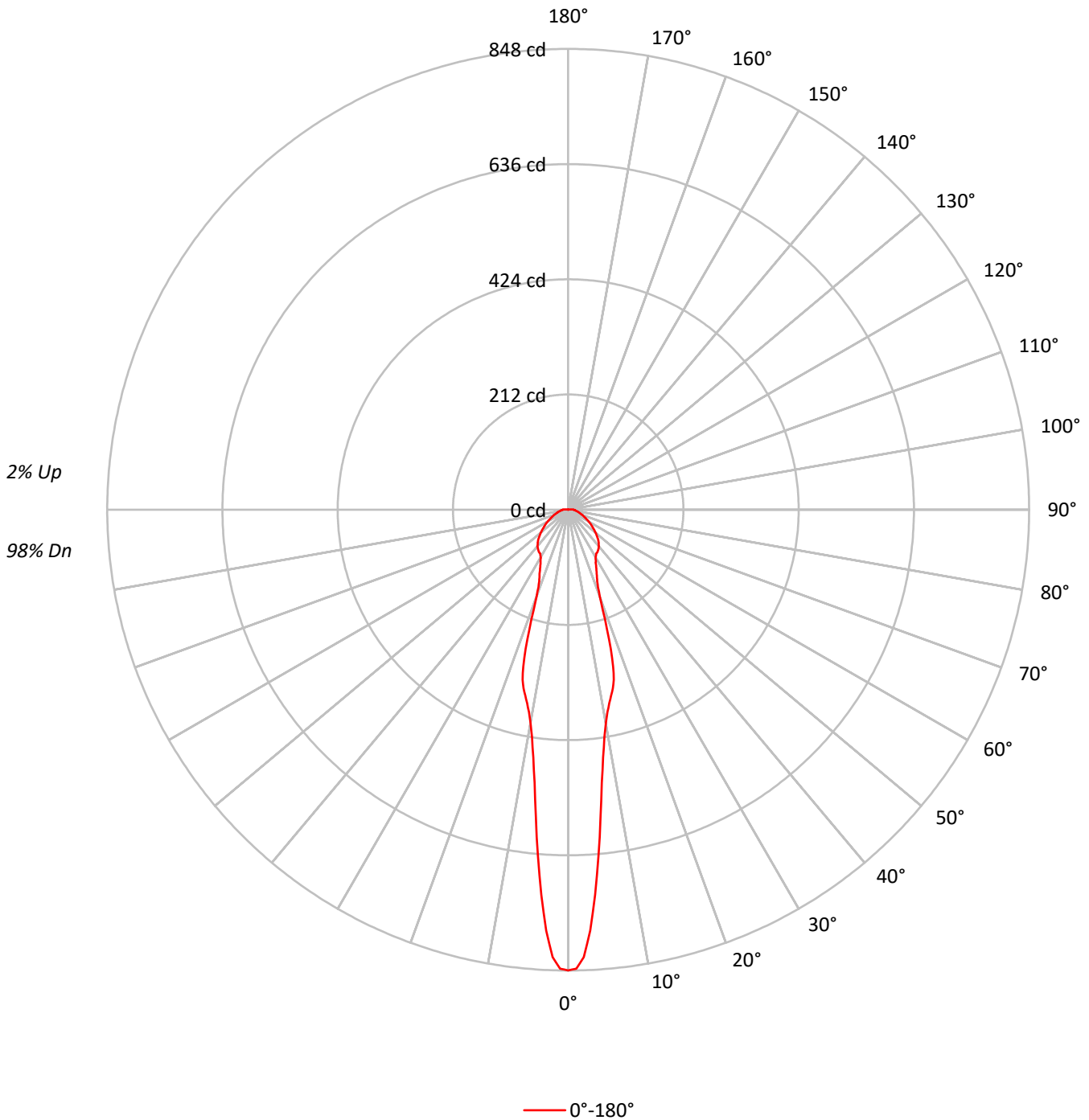
Lumens per Lamp: N/A
Luminaire Lumens: 438.9 lumens
Efficiency: N/A
Efficacy: 61.0 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 7.2
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	119	119	119	119	116	116	116	116	110	110	110		105	105	105		100	100	100	98
1	109	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	98342
5°	64907
10°	36102
15°	26740
20°	12908
25°	8786
30°	6831
35°	6100
40°	5477
45°	4737
50°	3915
55°	3177
60°	2567
65°	2028
70°	1598
75°	1283
80°	1031
85°	835

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4737 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.4	11.9
10°-20°	82.7	18.8
20°-30°	57.4	13.1
30°-40°	58.9	13.4
40°-50°	59.7	13.6
50°-60°	48.4	11.0
60°-70°	34.2	7.8
70°-80°	22.3	5.1
80°-90°	14.1	3.2
90°-100°	7.6	1.7
100°-110°	1.4	0.3
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°	192.5	43.9
0°-40°	251.3	57.3
0°-60°	359.4	81.9
0°-90°	430.0	98.0
90°-120°	9.0	2.0
90°-150°	9.0	2.0
90°-180°	9.0	2.1
0°-180°	438.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	848	
5°	640	52
15°	324	83
25°	123	57
35°	94	59
45°	78	60
55°	54	48
65°	34	34
75°	21	22
85°	13	11
90°	10	5
95°	7	5
105°	1	1
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°	847.9
1°	844.8
2°	823.8
3°	775.6
4°	710.5
5°	640.3
6°	569.5
7°	506.0
8°	460.3
9°	424.4
10°	398.3
11°	379.3
12°	364.0
13°	351.1
14°	338.8
15°	324.0
16°	300.4
17°	268.1
18°	231.2
19°	195.8
20°	169.2
21°	152.8
22°	142.0
23°	135.3
24°	129.2
25°	123.0
27.5°	109.7
30°	101.0
32.5°	95.9
35°	94.3
37.5°	91.2
40°	87.7
42.5°	83.0
45°	77.9
47.5°	71.8
50°	65.6
52.5°	59.5
55°	53.8
57.5°	48.7
60°	43.6
62.5°	38.4
65°	34.3
67.5°	30.2
70°	26.7
72.5°	23.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	21.0
77.5°	18.5
80°	16.4
82.5°	14.4
85°	12.8
87.5°	11.3
90°	9.7
92.5°	8.7
95°	7.2
97.5°	5.1
100°	3.6
102.5°	2.1
105°	1.0
107.5°	0.5
110°	0.0
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)