

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: P701755

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9027-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701755
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-1020-9027-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

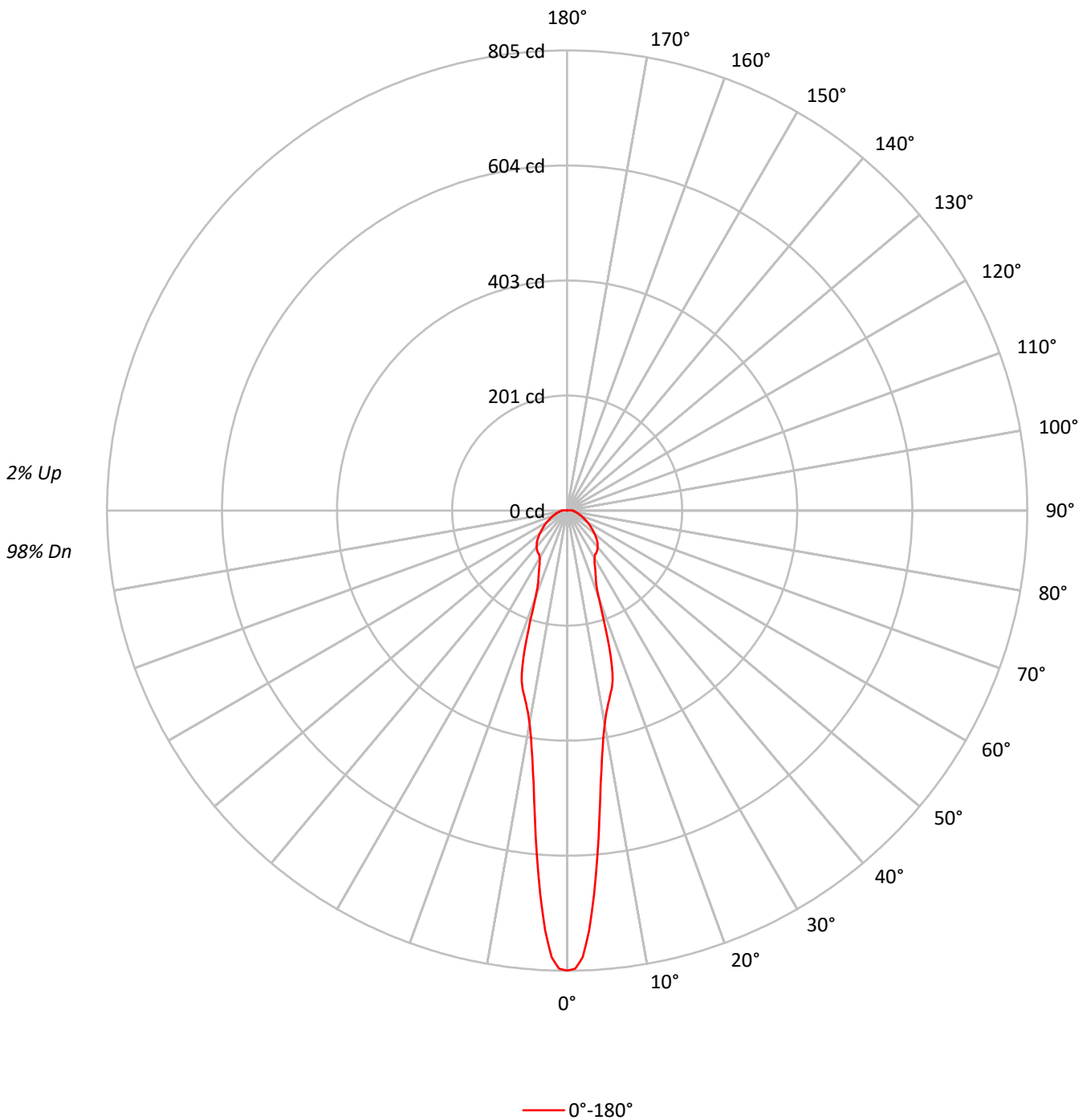
Lumens per Lamp: N/A
Luminaire Lumens: 416.5 lumens
Efficiency: N/A
Efficacy: 57.9 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	93320
5°	61593
10°	34262
15°	25370
20°	12244
25°	8336
30°	6479
35°	5790
40°	5196
45°	4493
50°	3718
55°	3017
60°	2431
65°	1928
70°	1515
75°	1216
80°	980
85°	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4493 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.7	11.9
10°-20°	78.4	18.8
20°-30°	54.5	13.1
30°-40°	55.9	13.4
40°-50°	56.6	13.6
50°-60°	45.9	11.0
60°-70°	32.4	7.8
70°-80°	21.2	5.1
80°-90°	13.3	3.2
90°-100°	7.2	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°	182.6	43.8
0°-40°	238.5	57.3
0°-60°	341.0	81.9
0°-90°	408.0	97.9
90°-120°	8.5	2.1
90°-150°	8.5	2.1
90°-180°	9.0	2.2
0°-180°	416.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	805	
5°	608	50
15°	307	78
25°	117	55
35°	90	56
45°	74	57
55°	51	46
65°	33	32
75°	20	21
85°	12	11
90°	9	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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	804.6
1°	801.7
2°	781.7
3°	736.0
4°	674.2
5°	607.6
6°	540.4
7°	480.1
8°	436.8
9°	402.8
10°	378.0
11°	360.0
12°	345.4
13°	333.2
14°	321.5
15°	307.4
16°	285.1
17°	254.4
18°	219.4
19°	185.8
20°	160.5
21°	145.0
22°	134.7
23°	128.4
24°	122.6
25°	116.7
27.5°	104.1
30°	95.8
32.5°	91.0
35°	89.5
37.5°	86.6
40°	83.2
42.5°	78.8
45°	73.9
47.5°	68.1
50°	62.3
52.5°	56.4
55°	51.1
57.5°	46.2
60°	41.3
62.5°	36.5
65°	32.6
67.5°	28.7
70°	25.3
72.5°	22.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	19.9
77.5°	17.5
80°	15.6
82.5°	13.6
85°	12.2
87.5°	10.7
90°	9.2
92.5°	8.3
95°	6.8
97.5°	4.9
100°	3.4
102.5°	1.9
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)