

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: P701868

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9027-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-10-D010 / 340-EU4C-1020-9027-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

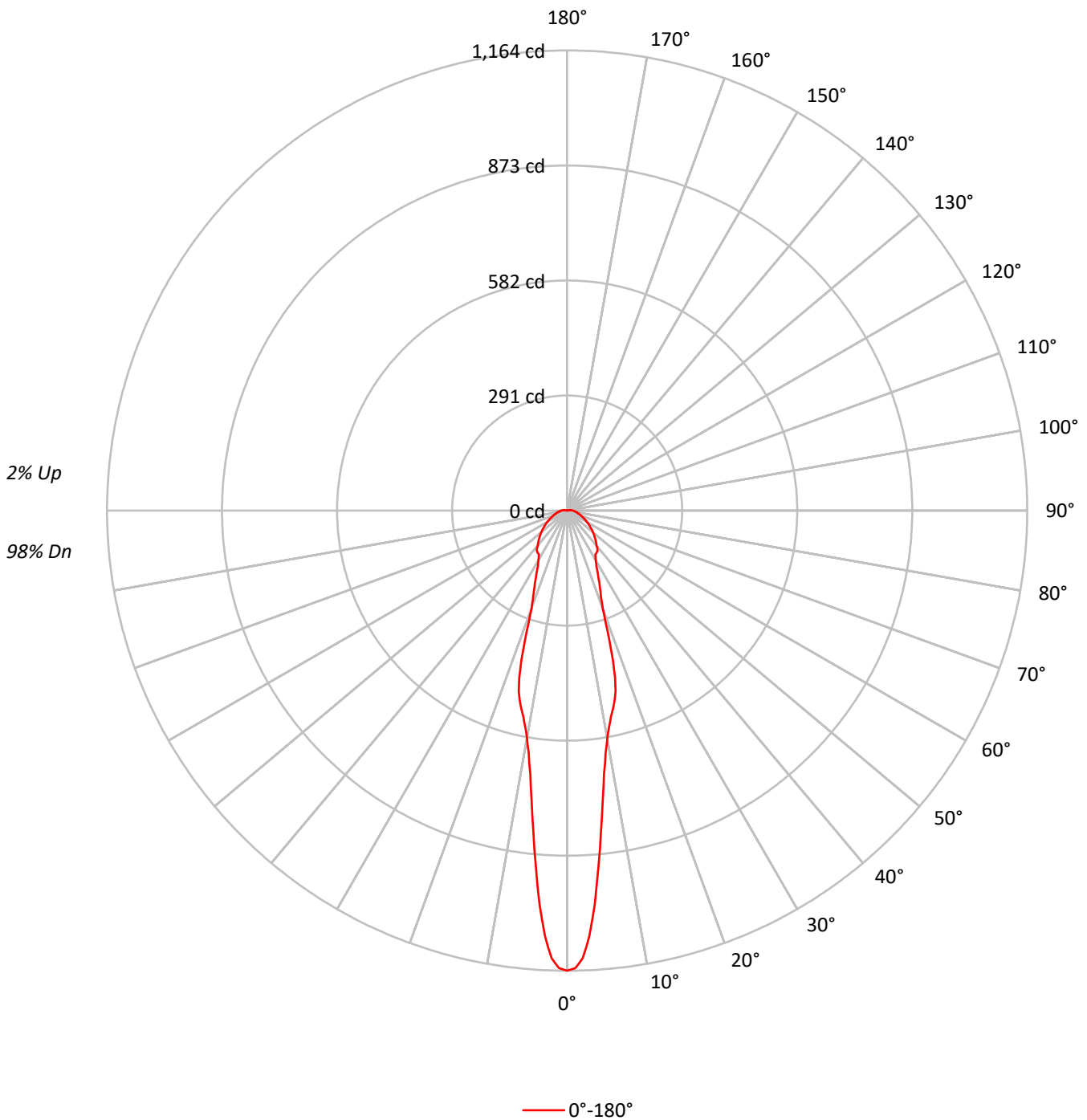
Lumens per Lamp: N/A
Luminaire Lumens: 620.2 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.8
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	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	99	92	87	82	88	84	80		85	81	78		81	78	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	78	70	64	86	76	69	64	74	68	63		71	66	62		69	64	61	59
5	82	71	64	58	80	70	63	58	68	62	57		66	60	56		64	59	55	53
6	77	66	58	53	76	65	58	53	63	57	52		61	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	45
8	69	58	50	45	68	57	50	45	55	49	45		54	49	44		53	48	44	42
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		50	45	41	40
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	134981
5°	91862
10°	52943
15°	39062
20°	20110
25°	13371
30°	9773
35°	8429
40°	7250
45°	6105
50°	5097
55°	4198
60°	3438
65°	2791
70°	2239
75°	1833
80°	1508
85°	1220

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6105 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	12.1
10°-20°	122.2	19.7
20°-30°	87.4	14.1
30°-40°	81.4	13.1
40°-50°	77.5	12.5
50°-60°	63.8	10.3
60°-70°	46.9	7.6
70°-80°	32.1	5.2
80°-90°	20.6	3.3
90°-100°	11.4	1.8
100°-110°	2.1	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°	284.6	45.9
0°-40°	366.0	59.0
0°-60°	507.2	81.8
0°-90°	606.8	97.8
90°-120°	13.4	2.2
90°-150°	13.4	2.2
90°-180°	13.0	2.1
0°-180°	620.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1164	
5°	906	75
15°	473	122
25°	187	87
35°	130	81
45°	100	77
55°	71	64
65°	47	47
75°	30	32
85°	19	16
90°	15	8
95°	10	7
105°	2	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°	1163.8
1°	1157.8
2°	1133.1
3°	1076.9
4°	999.0
5°	906.2
6°	817.8
7°	738.4
8°	671.8
9°	621.6
10°	584.1
11°	556.4
12°	533.2
13°	514.5
14°	495.8
15°	473.3
16°	440.3
17°	396.9
18°	346.0
19°	298.8
20°	263.6
21°	241.9
22°	226.2
23°	212.7
24°	200.0
25°	187.2
27.5°	161.0
30°	144.5
32.5°	132.6
35°	130.3
37.5°	126.6
40°	116.1
42.5°	107.8
45°	100.4
47.5°	92.9
50°	85.4
52.5°	77.9
55°	71.1
57.5°	64.4
60°	58.4
62.5°	52.4
65°	47.2
67.5°	41.9
70°	37.4
72.5°	33.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	30.0
77.5°	27.0
80°	24.0
82.5°	21.0
85°	18.7
87.5°	16.5
90°	15.0
92.5°	13.5
95°	10.5
97.5°	7.5
100°	5.2
102.5°	3.0
105°	1.5
107.5°	0.7
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)