

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: P701847

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9727-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701847
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-08-D010 / 340-EU4C-1020-9727-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 2700K CCT, 97 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

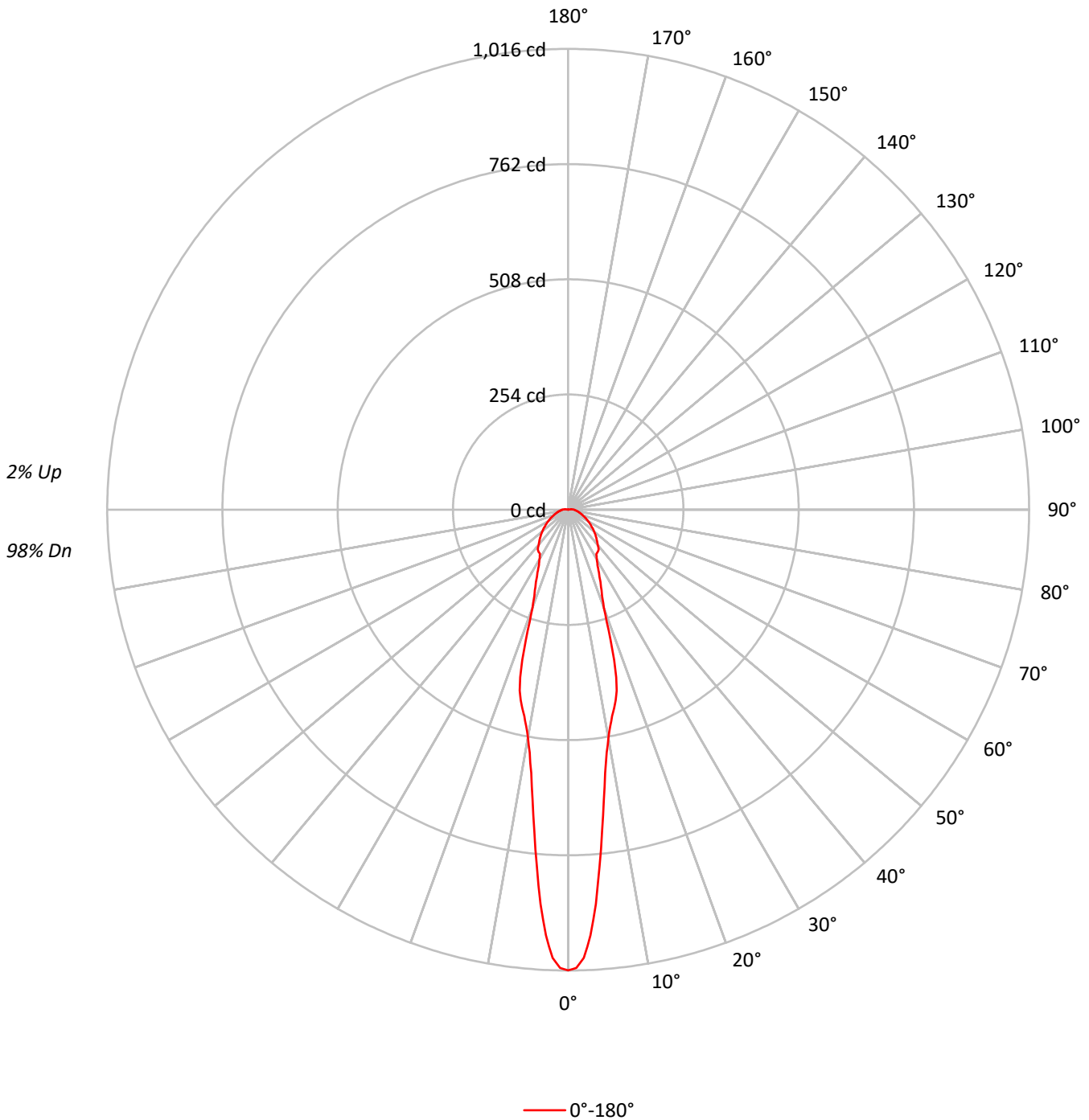
Lumens per Lamp: N/A
Luminaire Lumens: 541.2 lumens
Efficiency: N/A
Efficacy: 54.7 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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	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°	117793
5°	80164
10°	46208
15°	34086
20°	17546
25°	11671
30°	8529
35°	7355
40°	6326
45°	5326
50°	4447
55°	3667
60°	3002
65°	2437
70°	1958
75°	1594
80°	1313
85°	1063

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5326 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	12.1
10°-20°	106.6	19.7
20°-30°	76.3	14.1
30°-40°	71.0	13.1
40°-50°	67.6	12.5
50°-60°	55.7	10.3
60°-70°	40.9	7.6
70°-80°	27.9	5.2
80°-90°	18.0	3.3
90°-100°	9.9	1.8
100°-110°	1.8	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°	248.4	45.9
0°-40°	319.3	59.0
0°-60°	442.6	81.8
0°-90°	529.4	97.8
90°-120°	11.7	2.2
90°-150°	11.7	2.2
90°-180°	12.0	2.2
0°-180°	541.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1016	
5°	791	65
15°	413	107
25°	163	76
35°	114	71
45°	88	68
55°	62	56
65°	41	41
75°	26	28
85°	16	14
90°	13	7
95°	9	6
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°	1015.6
1°	1010.4
2°	988.8
3°	939.8
4°	871.8
5°	790.8
6°	713.7
7°	644.4
8°	586.2
9°	542.4
10°	509.8
11°	485.6
12°	465.3
13°	449.0
14°	432.6
15°	413.0
16°	384.3
17°	346.4
18°	301.9
19°	260.8
20°	230.0
21°	211.1
22°	197.4
23°	185.6
24°	174.5
25°	163.4
27.5°	140.5
30°	126.1
32.5°	115.7
35°	113.7
37.5°	110.4
40°	101.3
42.5°	94.1
45°	87.6
47.5°	81.0
50°	74.5
52.5°	68.0
55°	62.1
57.5°	56.2
60°	51.0
62.5°	45.7
65°	41.2
67.5°	36.6
70°	32.7
72.5°	29.4

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CANDELA DISTRIBUTION (continued):

	0°
75°	26.1
77.5°	23.5
80°	20.9
82.5°	18.3
85°	16.3
87.5°	14.4
90°	13.1
92.5°	11.8
95°	9.1
97.5°	6.5
100°	4.6
102.5°	2.6
105°	1.3
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)