

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: P701896

Luminaire Tested: 340-4C-10-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701896
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-1020-9050-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

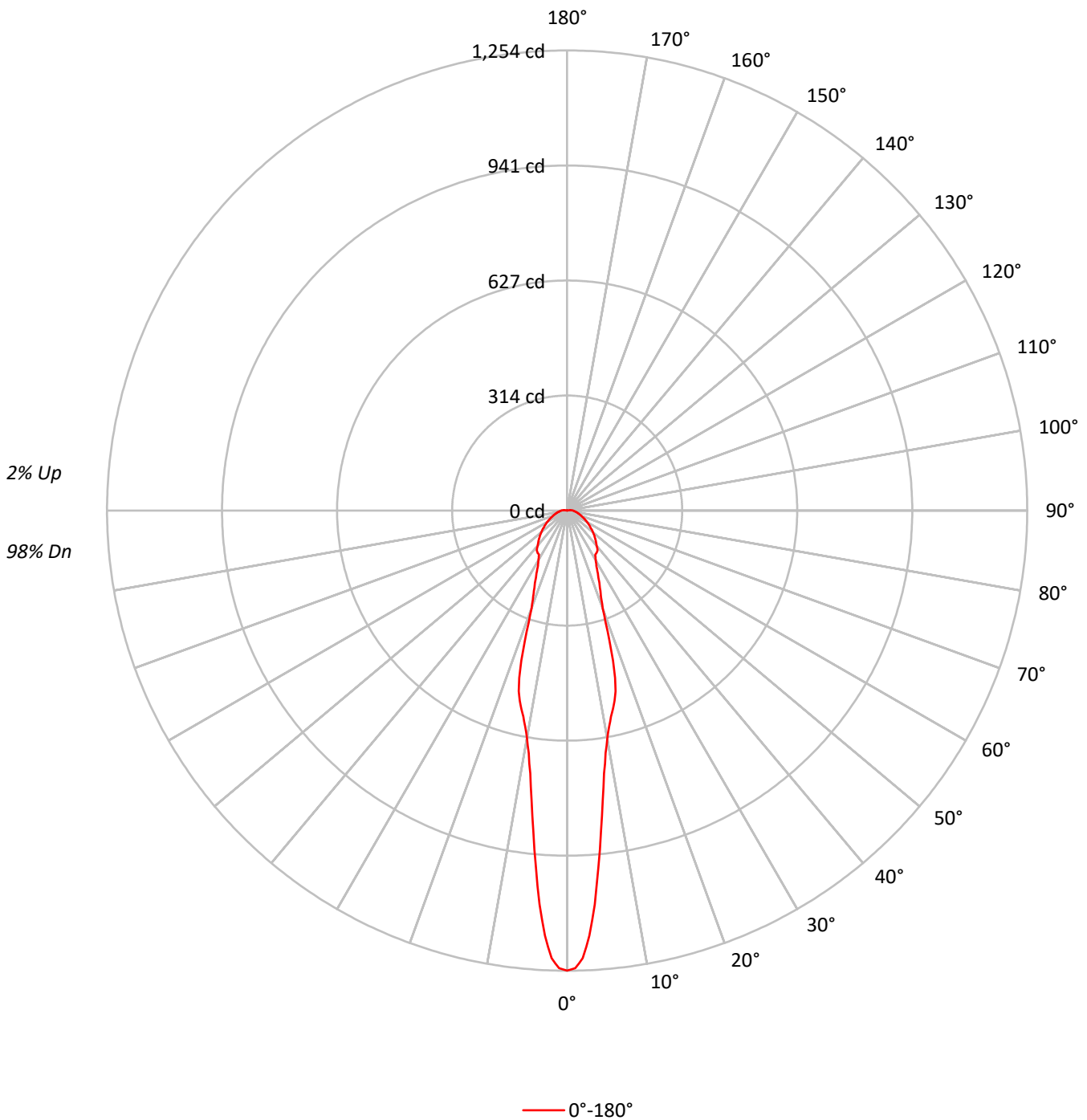
Lumens per Lamp: N/A
Luminaire Lumens: 668.0 lumens
Efficiency: N/A
Efficacy: 68.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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°	145396
5°	98947
10°	57031
15°	42075
20°	21666
25°	14407
30°	10531
35°	9083
40°	7806
45°	6573
50°	5491
55°	4523
60°	3703
65°	3004
70°	2413
75°	1973
80°	1621
85°	1317

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6573 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	12.1
10°-20°	131.6	19.7
20°-30°	94.1	14.1
30°-40°	87.6	13.1
40°-50°	83.4	12.5
50°-60°	68.7	10.3
60°-70°	50.5	7.6
70°-80°	34.5	5.2
80°-90°	22.2	3.3
90°-100°	12.2	1.8
100°-110°	2.2	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°	306.6	45.9
0°-40°	394.2	59.0
0°-60°	546.3	81.8
0°-90°	653.5	97.8
90°-120°	14.5	2.2
90°-150°	14.5	2.2
90°-180°	14.0	2.1
0°-180°	668.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1254	
5°	976	81
15°	510	132
25°	202	94
35°	140	88
45°	108	83
55°	77	69
65°	51	51
75°	32	34
85°	20	18
90°	16	9
95°	11	8
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	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1253.6
1°	1247.1
2°	1220.5
3°	1160.0
4°	1076.1
5°	976.1
6°	880.9
7°	795.4
8°	723.6
9°	669.5
10°	629.2
11°	599.4
12°	574.4
13°	554.2
14°	534.0
15°	509.8
16°	474.3
17°	427.5
18°	372.7
19°	321.9
20°	284.0
21°	260.6
22°	243.6
23°	229.1
24°	215.4
25°	201.7
27.5°	173.4
30°	155.7
32.5°	142.8
35°	140.4
37.5°	136.3
40°	125.0
42.5°	116.2
45°	108.1
47.5°	100.0
50°	92.0
52.5°	83.9
55°	76.6
57.5°	69.4
60°	62.9
62.5°	56.5
65°	50.8
67.5°	45.2
70°	40.3
72.5°	36.3

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CANDELA DISTRIBUTION (continued):

	0°
75°	32.3
77.5°	29.0
80°	25.8
82.5°	22.6
85°	20.2
87.5°	17.7
90°	16.1
92.5°	14.5
95°	11.3
97.5°	8.1
100°	5.6
102.5°	3.2
105°	1.6
107.5°	0.8
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)