

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: P701784

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701784
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-05-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

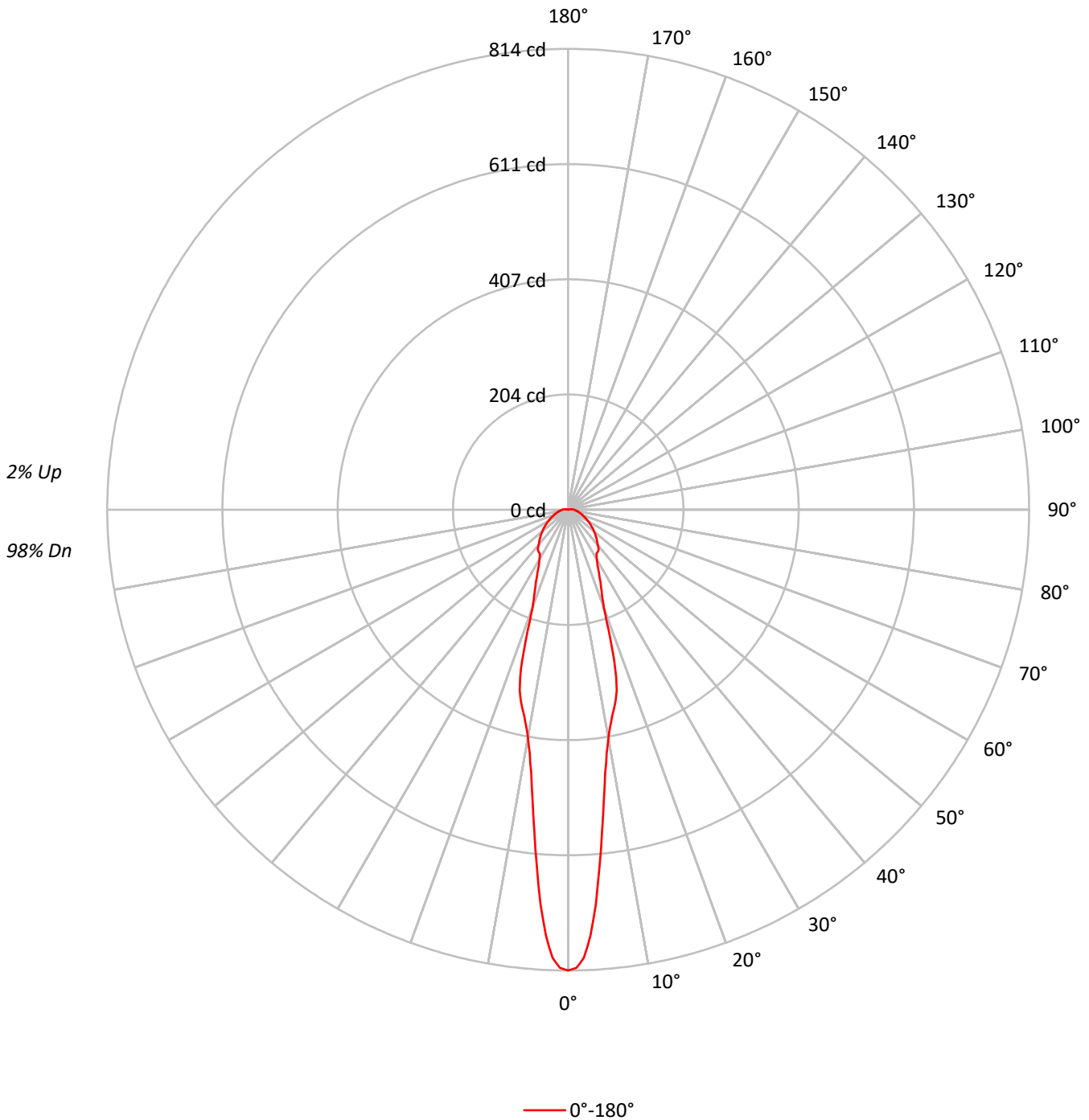
Lumens per Lamp: N/A
Luminaire Lumens: 433.8 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	94399
5°	64238
10°	37026
15°	27318
20°	14068
25°	9350
30°	6838
35°	5893
40°	5071
45°	4268
50°	3563
55°	2941
60°	2408
65°	1952
70°	1569
75°	1283
80°	1056
85°	854

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.5	12.1
10°-20°	85.4	19.7
20°-30°	61.1	14.1
30°-40°	56.9	13.1
40°-50°	54.2	12.5
50°-60°	44.6	10.3
60°-70°	32.8	7.6
70°-80°	22.4	5.2
80°-90°	14.4	3.3
90°-100°	7.9	1.8
100°-110°	1.5	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°	199.0	45.9
0°-40°	255.9	59.0
0°-60°	354.7	81.8
0°-90°	424.4	97.8
90°-120°	9.4	2.2
90°-150°	9.4	2.2
90°-180°	9.0	2.1
0°-180°	433.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	814	
5°	634	52
15°	331	85
25°	131	61
35°	91	57
45°	70	54
55°	50	45
65°	33	33
75°	21	22
85°	13	11
90°	10	6
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°	813.9
1°	809.7
2°	792.4
3°	753.2
4°	698.7
5°	633.7
6°	571.9
7°	516.4
8°	469.8
9°	434.7
10°	408.5
11°	389.2
12°	372.9
13°	359.8
14°	346.7
15°	331.0
16°	308.0
17°	277.6
18°	242.0
19°	209.0
20°	184.4
21°	169.2
22°	158.2
23°	148.7
24°	139.8
25°	130.9
27.5°	112.6
30°	101.1
32.5°	92.7
35°	91.1
37.5°	88.5
40°	81.2
42.5°	75.4
45°	70.2
47.5°	64.9
50°	59.7
52.5°	54.5
55°	49.8
57.5°	45.0
60°	40.9
62.5°	36.7
65°	33.0
67.5°	29.3
70°	26.2
72.5°	23.6

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CANDELA DISTRIBUTION (continued):

	0°
75°	21.0
77.5°	18.9
80°	16.8
82.5°	14.7
85°	13.1
87.5°	11.5
90°	10.5
92.5°	9.4
95°	7.3
97.5°	5.2
100°	3.7
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)