

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: P702049

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9035-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702049
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-25-D010 / 340-EU4C-3040-9035-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

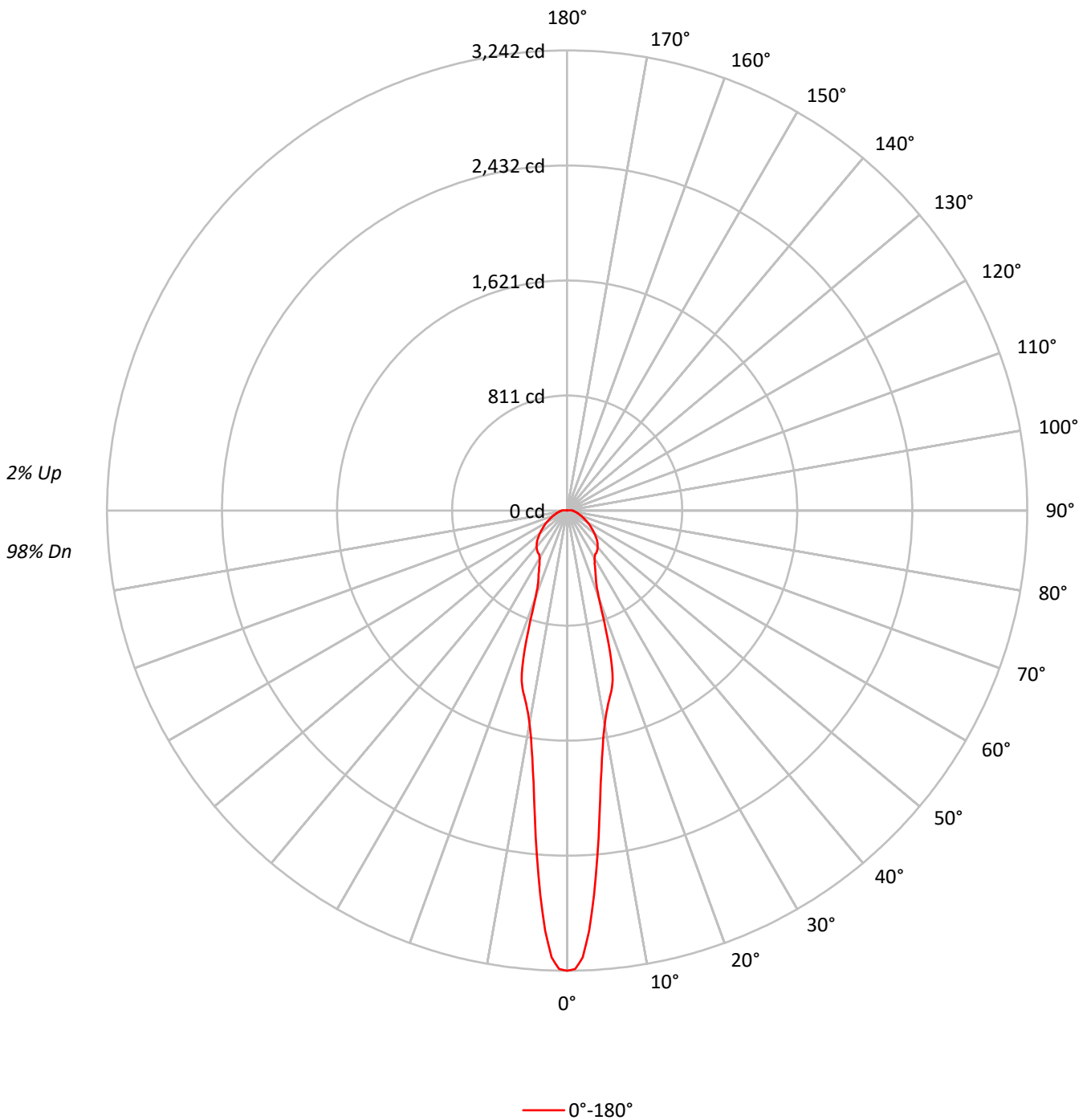
Lumens per Lamp: N/A
Luminaire Lumens: 1678.3 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.5
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°	375994
5°	248154
10°	138036
15°	102232
20°	49343
25°	33600
30°	26114
35°	23328
40°	20933
45°	18113
50°	14975
55°	12152
60°	9807
65°	7765
70°	6101
75°	4911
80°	3940
85°	3196

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 18113 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.3	11.9
10°-20°	316.0	18.8
20°-30°	219.6	13.1
30°-40°	225.1	13.4
40°-50°	228.1	13.6
50°-60°	185.0	11.0
60°-70°	130.7	7.8
70°-80°	85.4	5.1
80°-90°	53.7	3.2
90°-100°	28.9	1.7
100°-110°	5.5	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°	735.9	43.9
0°-40°	961.0	57.3
0°-60°	1374.1	81.9
0°-90°	1643.9	98.0
90°-120°	34.4	2.0
90°-150°	34.4	2.0
90°-180°	34.0	2.0
0°-180°	1678.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3242	
5°	2448	200
15°	1239	316
25°	470	220
35°	361	225
45°	298	228
55°	206	185
65°	131	131
75°	80	85
85°	49	43
90°	37	21
95°	27	19
105°	4	5
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°	3241.8
1°	3230.0
2°	3149.7
3°	2965.4
4°	2716.5
5°	2448.0
6°	2177.5
7°	1934.5
8°	1760.0
9°	1622.8
10°	1522.9
11°	1450.4
12°	1391.6
13°	1342.6
14°	1295.5
15°	1238.7
16°	1148.5
17°	1025.1
18°	883.9
19°	748.7
20°	646.8
21°	584.1
22°	542.9
23°	517.4
24°	493.9
25°	470.4
27.5°	419.4
30°	386.1
32.5°	366.5
35°	360.6
37.5°	348.9
40°	335.2
42.5°	317.5
45°	297.9
47.5°	274.4
50°	250.9
52.5°	227.4
55°	205.8
57.5°	186.2
60°	166.6
62.5°	147.0
65°	131.3
67.5°	115.6
70°	101.9
72.5°	90.2

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CANDELA DISTRIBUTION (continued):

	0°
75°	80.4
77.5°	70.6
80°	62.7
82.5°	54.9
85°	49.0
87.5°	43.1
90°	37.2
92.5°	33.3
95°	27.4
97.5°	19.6
100°	13.7
102.5°	7.8
105°	3.9
107.5°	2.0
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)