

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: P702071

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9727-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702071
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-25-D010 / 340-EU4C-3040-9727-4LBW1LI-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

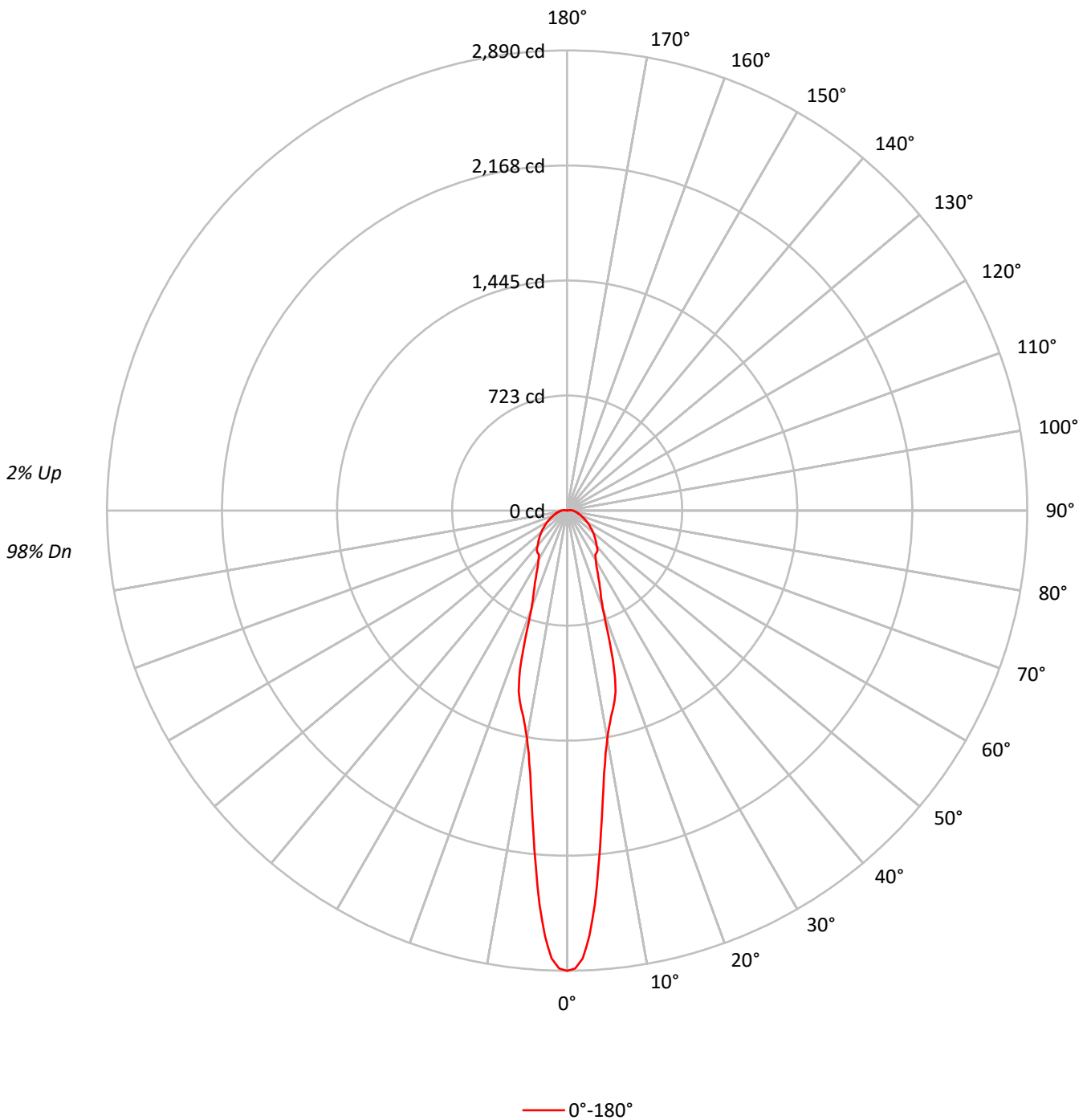
Lumens per Lamp: N/A
Luminaire Lumens: 1540.3 lumens
Efficiency: N/A
Efficacy: 48.9 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 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	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°	335249
5°	228144
10°	131501
15°	97016
20°	49946
25°	33214
30°	24281
35°	20934
40°	18004
45°	15152
50°	12653
55°	10434
60°	8542
65°	6931
70°	5568
75°	4545
80°	3739
85°	3033

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 15152 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	12.1
10°-20°	303.4	19.7
20°-30°	217.1	14.1
30°-40°	202.0	13.1
40°-50°	192.4	12.5
50°-60°	158.4	10.3
60°-70°	116.5	7.6
70°-80°	79.6	5.2
80°-90°	51.2	3.3
90°-100°	28.2	1.8
100°-110°	5.2	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°	706.9	45.9
0°-40°	908.9	59.0
0°-60°	1259.6	81.8
0°-90°	1506.9	97.8
90°-120°	33.4	2.2
90°-150°	33.4	2.2
90°-180°	33.0	2.1
0°-180°	1540.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2890	
5°	2251	186
15°	1176	303
25°	465	217
35°	324	202
45°	249	192
55°	177	158
65°	117	116
75°	74	80
85°	46	41
90°	37	20
95°	26	18
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°	2890.5
1°	2875.6
2°	2814.2
3°	2674.7
4°	2481.3
5°	2250.6
6°	2031.2
7°	1834.0
8°	1668.5
9°	1543.8
10°	1450.8
11°	1382.0
12°	1324.3
13°	1277.8
14°	1231.3
15°	1175.5
16°	1093.7
17°	985.8
18°	859.3
19°	742.2
20°	654.7
21°	600.8
22°	561.7
23°	528.3
24°	496.6
25°	465.0
27.5°	399.9
30°	359.0
32.5°	329.2
35°	323.6
37.5°	314.3
40°	288.3
42.5°	267.8
45°	249.2
47.5°	230.6
50°	212.0
52.5°	193.4
55°	176.7
57.5°	160.0
60°	145.1
62.5°	130.2
65°	117.2
67.5°	104.2
70°	93.0
72.5°	83.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	74.4
77.5°	67.0
80°	59.5
82.5°	52.1
85°	46.5
87.5°	40.9
90°	37.2
92.5°	33.5
95°	26.0
97.5°	18.6
100°	13.0
102.5°	7.4
105°	3.7
107.5°	1.9
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)