

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: P702112

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9040-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702112
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-30-D010 / 340-EU4C-3040-9040-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

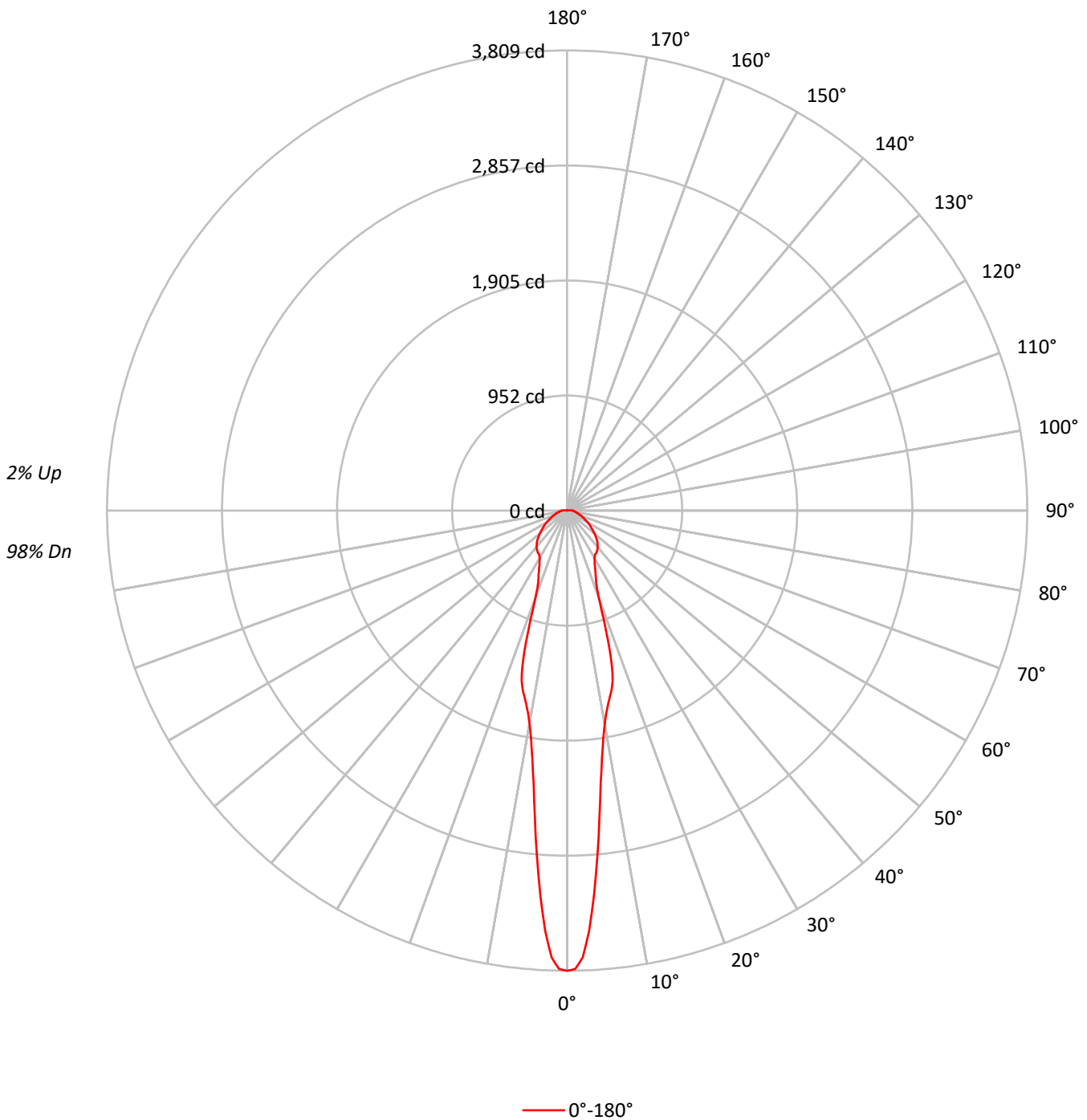
Lumens per Lamp: N/A
Luminaire Lumens: 1971.9 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 31.6
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	100	100	100	98	
1	109	105	101	98	106	103	99	96	98	95	92	94	91	89	90	88	86	86	86	86	84	
2	101	94	88	83	98	92	86	82	88	83	80	85	81	77	81	78	75	75	75	75	73	
3	94	85	78	72	91	83	76	71	80	74	70	77	72	68	74	70	67	67	67	67	65	
4	87	77	70	64	85	76	69	63	73	67	62	71	65	61	68	64	60	60	60	60	58	
5	82	71	63	57	80	70	62	57	67	61	56	65	60	55	63	59	55	55	55	55	53	
6	77	65	58	52	75	64	57	52	62	56	51	61	55	51	59	54	50	50	50	50	48	
7	72	61	53	48	71	60	53	48	58	52	47	57	51	47	55	50	46	46	46	46	45	
8	69	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	43	43	43	41	
9	65	53	46	41	64	53	46	41	52	45	41	50	45	41	49	44	40	40	40	40	39	
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	38	38	38	37	

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	441780
5°	291571
10°	162182
15°	120117
20°	57979
25°	39479
30°	30686
35°	27409
40°	24592
45°	21281
50°	17595
55°	14278
60°	11521
65°	9125
70°	7166
75°	5767
80°	4632
85°	3757

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 21281 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	11.9
10°-20°	371.3	18.8
20°-30°	258.0	13.1
30°-40°	264.4	13.4
40°-50°	268.0	13.6
50°-60°	217.4	11.0
60°-70°	153.5	7.8
70°-80°	100.3	5.1
80°-90°	63.1	3.2
90°-100°	33.9	1.7
100°-110°	6.4	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°	864.7	43.9
0°-40°	1129.1	57.3
0°-60°	1614.5	81.9
0°-90°	1931.5	98.0
90°-120°	40.4	2.0
90°-150°	40.4	2.0
90°-180°	40.0	2.0
0°-180°	1971.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3809	
5°	2876	235
15°	1455	371
25°	553	258
35°	424	264
45°	350	268
55°	242	217
65°	154	154
75°	94	100
85°	58	50
90°	44	24
95°	32	23
105°	5	6
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°	3809.0
1°	3795.1
2°	3700.7
3°	3484.3
4°	3191.8
5°	2876.3
6°	2558.5
7°	2272.9
8°	2068.0
9°	1906.8
10°	1789.3
11°	1704.1
12°	1635.0
13°	1577.5
14°	1522.2
15°	1455.4
16°	1349.5
17°	1204.4
18°	1038.6
19°	879.7
20°	760.0
21°	686.3
22°	637.9
23°	608.0
24°	580.3
25°	552.7
27.5°	492.8
30°	453.7
32.5°	430.6
35°	423.7
37.5°	409.9
40°	393.8
42.5°	373.1
45°	350.0
47.5°	322.4
50°	294.8
52.5°	267.1
55°	241.8
57.5°	218.8
60°	195.7
62.5°	172.7
65°	154.3
67.5°	135.9
70°	119.7
72.5°	105.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	94.4
77.5°	82.9
80°	73.7
82.5°	64.5
85°	57.6
87.5°	50.7
90°	43.8
92.5°	39.1
95°	32.2
97.5°	23.0
100°	16.1
102.5°	9.2
105°	4.6
107.5°	2.3
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)