

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: P702202

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702202
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-3)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9027-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

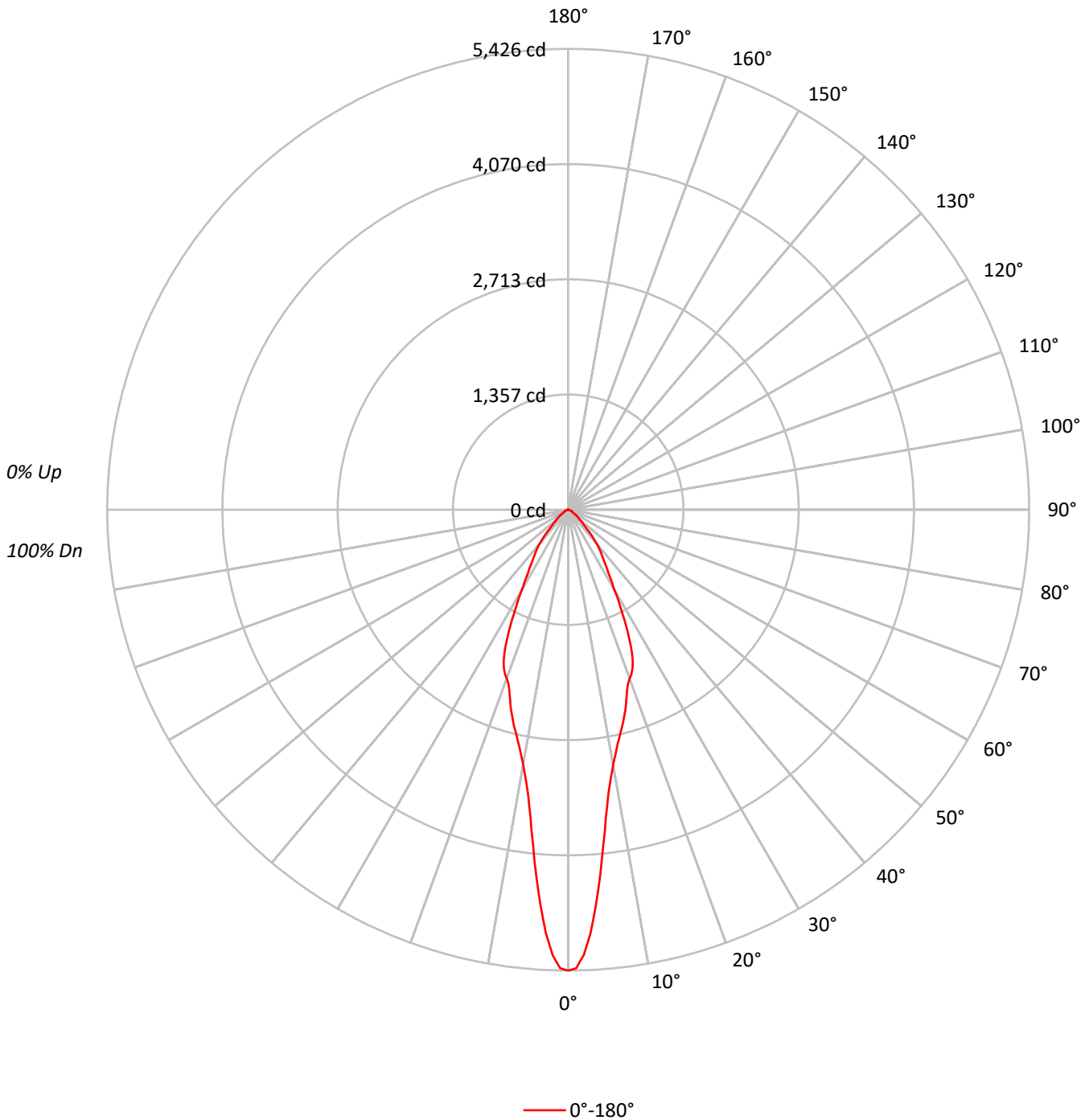
Lumens per Lamp: N/A
Luminaire Lumens: 2712.9 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	111	111	111		106	106	106		102	102	102	100
1	113	110	108	105	111	108	106	103	104	102	100		100	99	97		97	96	94	93
2	107	102	98	94	105	100	96	93	97	94	91		94	91	89		91	89	87	85
3	101	95	89	85	99	93	88	85	91	87	83		88	85	82		86	83	81	79
4	96	88	82	78	94	87	82	78	85	80	77		83	79	76		81	78	75	73
5	91	82	76	72	89	82	76	72	80	75	71		78	74	70		76	73	70	68
6	87	77	71	67	85	77	71	67	75	70	66		74	69	66		72	68	65	64
7	82	73	67	62	81	72	66	62	71	66	62		70	65	61		68	64	61	60
8	78	69	63	58	77	68	62	58	67	62	58		66	61	58		65	61	57	56
9	75	65	59	55	74	64	59	55	63	58	55		63	58	54		62	57	54	53
10	71	62	56	52	70	61	55	52	60	55	52		59	55	51		59	54	51	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	629348
5°	502682
10°	359288
15°	304605
20°	261109
25°	221023
30°	145256
35°	103658
40°	79170
45°	46567
50°	30729
55°	22364
60°	14544
65°	13118
70°	11157
75°	8021
80°	6011
85°	3992

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 46567 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	367.1	13.5
10°-20°	705.5	26.0
20°-30°	762.0	28.1
30°-40°	470.7	17.3
40°-50°	235.8	8.7
50°-60°	98.9	3.6
60°-70°	46.5	1.7
70°-80°	20.5	0.8
80°-90°	4.5	0.2
90°-100°	0.4	0.0
100°-110°	1.2	0.0
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°	1834.5	67.6
0°-40°	2305.2	85.0
0°-60°	2639.8	97.3
0°-90°	2711.3	99.9
90°-120°	1.6	0.1
90°-150°	1.6	0.1
90°-180°	2.0	0.1
0°-180°	2712.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5426	
5°	4318	367
15°	2537	705
25°	1727	762
35°	732	471
45°	284	236
55°	111	99
65°	48	47
75°	18	20
85°	3	4
90°	0	0
95°	0	1
105°	0	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°	5426.2
1°	5399.3
2°	5246.9
3°	4995.9
4°	4670.2
5°	4317.6
6°	3965.0
7°	3645.3
8°	3391.4
9°	3200.1
10°	3050.7
11°	2922.2
12°	2811.7
13°	2716.1
14°	2629.4
15°	2536.8
16°	2444.2
17°	2339.6
18°	2244.0
19°	2166.3
20°	2115.5
21°	2073.7
22°	2019.9
23°	1945.2
24°	1843.6
25°	1727.1
27.5°	1389.4
30°	1084.6
32.5°	875.5
35°	732.1
37.5°	627.5
40°	522.9
42.5°	391.4
45°	283.9
47.5°	215.1
50°	170.3
52.5°	140.4
55°	110.6
57.5°	77.7
60°	62.7
62.5°	53.8
65°	47.8
67.5°	38.8
70°	32.9
72.5°	23.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	17.9
77.5°	14.9
80°	9.0
82.5°	6.0
85°	3.0
87.5°	3.0
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	3.0
102.5°	3.0
105°	0.0
107.5°	0.0
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)