

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: P702209

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9030-4LBW1LI-CC

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P702209
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-3040-9030-4LBW1LI-CC
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

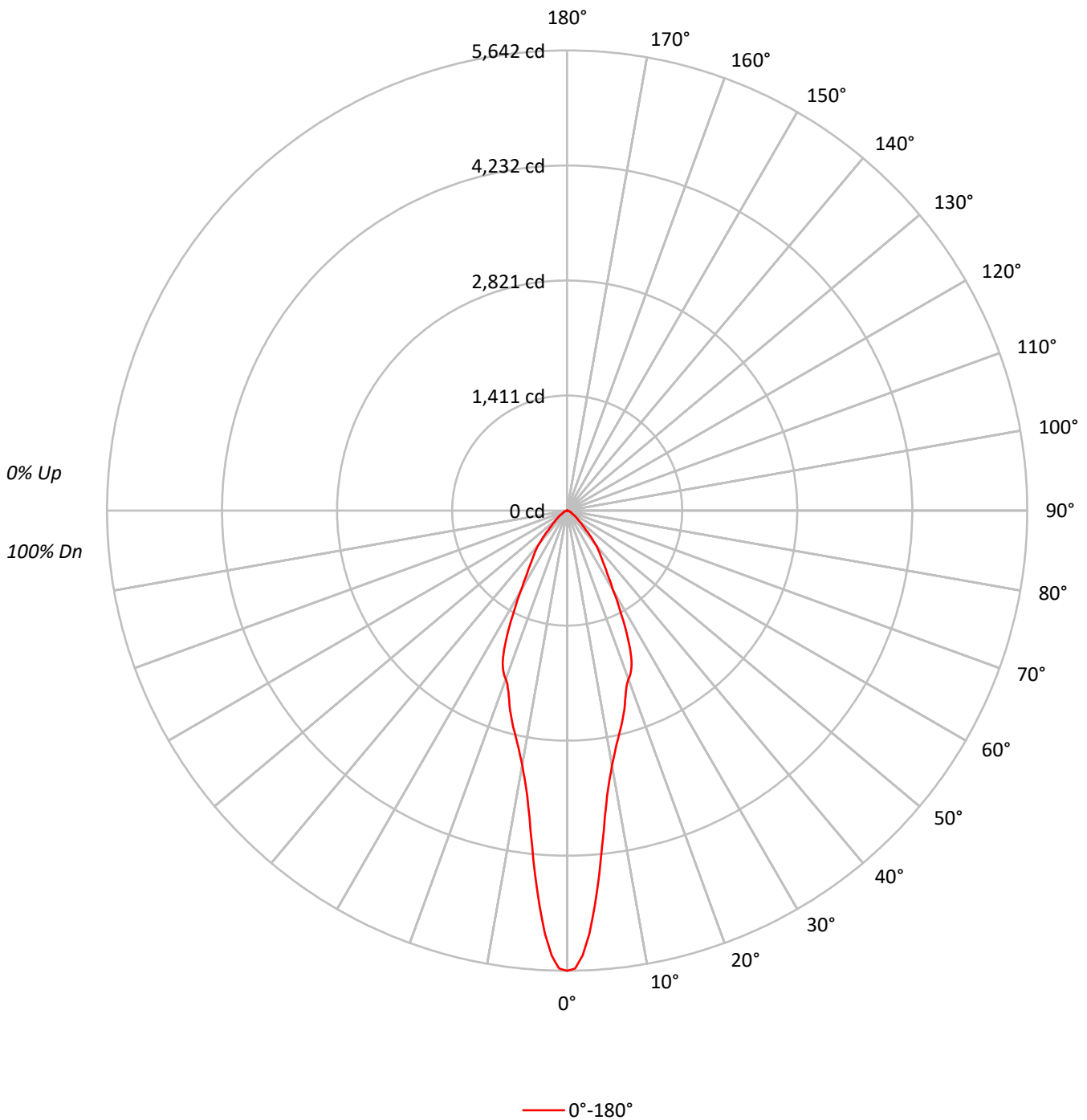
Lumens per Lamp: N/A
Luminaire Lumens: 2821.0 lumens
Efficiency: N/A
Efficacy: 60.0 lumens/watt
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64
Luminous Opening: Circular (Dia: 0.34' x H: 0')
CIE Type: Direct

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°	654435
5°	522730
10°	373609
15°	316745
20°	271514
25°	229827
30°	151055
35°	107778
40°	82319
45°	48420
50°	31956
55°	23254
60°	15124
65°	13640
70°	11598
75°	8335
80°	6212
85°	4125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 48420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.7	13.5
10°-20°	733.6	26.0
20°-30°	792.3	28.1
30°-40°	489.4	17.3
40°-50°	245.2	8.7
50°-60°	102.8	3.6
60°-70°	48.4	1.7
70°-80°	21.3	0.8
80°-90°	4.6	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°	1907.6	67.6
0°-40°	2397.1	85.0
0°-60°	2745.0	97.3
0°-90°	2819.3	99.9
90°-120°	1.7	0.1
90°-150°	1.7	0.1
90°-180°	2.0	0.1
0°-180°	2821.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5642	
5°	4490	382
15°	2638	734
25°	1796	792
35°	761	489
45°	295	245
55°	115	103
65°	50	48
75°	19	21
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°	5642.5
1°	5614.5
2°	5456.1
3°	5195.1
4°	4856.4
5°	4489.8
6°	4123.1
7°	3790.7
8°	3526.6
9°	3327.7
10°	3172.3
11°	3038.7
12°	2923.8
13°	2824.3
14°	2734.2
15°	2637.9
16°	2541.6
17°	2432.9
18°	2333.4
19°	2252.6
20°	2199.8
21°	2156.3
22°	2100.4
23°	2022.7
24°	1917.1
25°	1795.9
27.5°	1444.8
30°	1127.9
32.5°	910.4
35°	761.2
37.5°	652.5
40°	543.7
42.5°	407.0
45°	295.2
47.5°	223.7
50°	177.1
52.5°	146.0
55°	115.0
57.5°	80.8
60°	65.2
62.5°	55.9
65°	49.7
67.5°	40.4
70°	34.2
72.5°	24.9

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CANDELA DISTRIBUTION (continued):

	0°
75°	18.6
77.5°	15.5
80°	9.3
82.5°	6.2
85°	3.1
87.5°	3.1
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	3.1
102.5°	3.1
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)