

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: P702111

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702111  
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-30-D010 / 340-EU4C-3040-9040-4LBW1LI-CC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

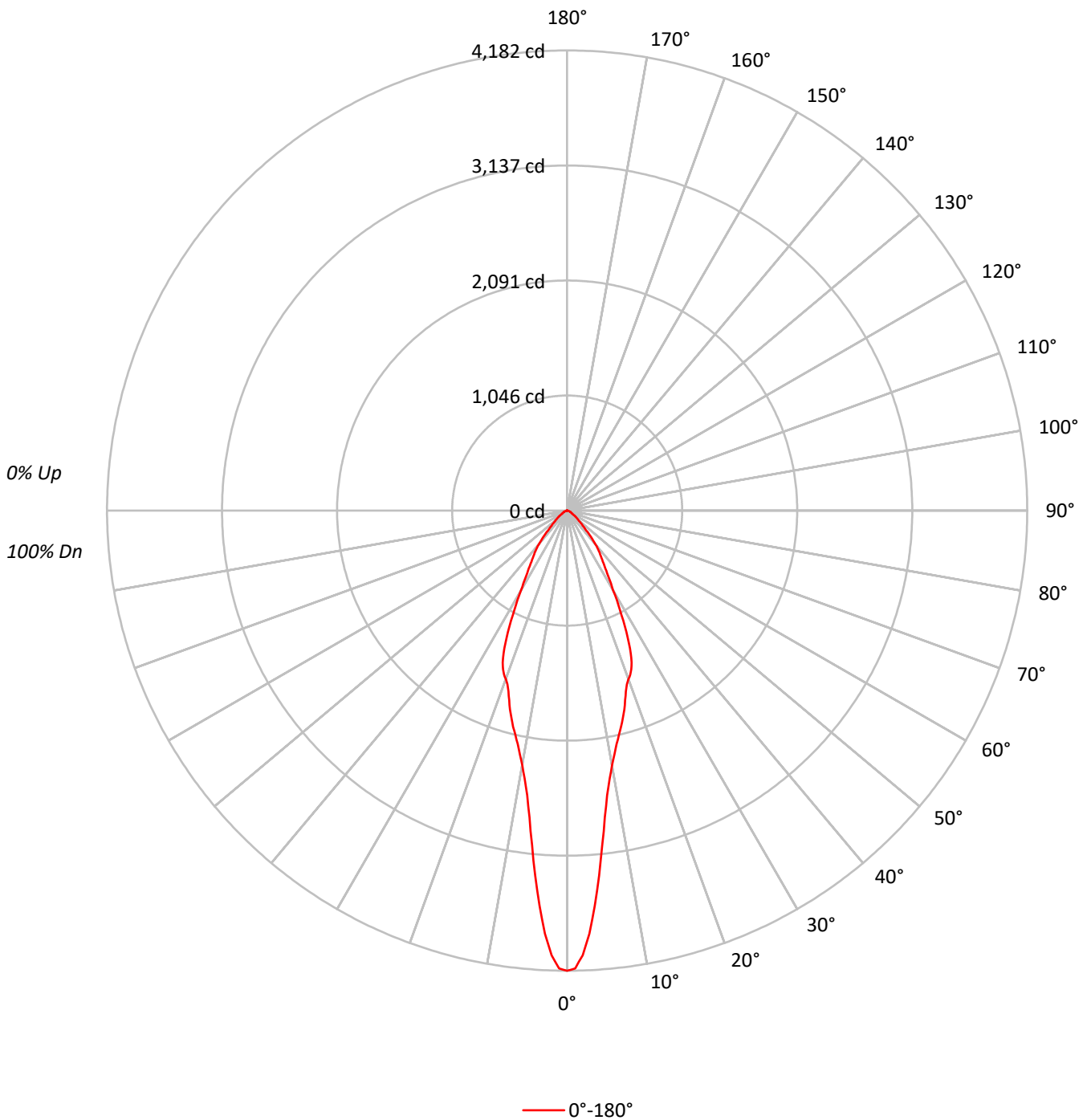
Lumens per Lamp: N/A  
Luminaire Lumens: 2090.8 lumens  
Efficiency: N/A  
Efficacy: 66.2 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

Input Watts (W): 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	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°	485042
5°	387420
10°	276906
15°	234758
20°	201235
25°	170345
30°	111949
35°	79885
40°	61016
45°	35889
50°	23691
55°	17228
60°	11227
65°	10099
70°	8580
75°	6184
80°	4609
85°	3061

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 35889 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	282.9	13.5
10°-20°	543.7	26.0
20°-30°	587.2	28.1
30°-40°	362.7	17.3
40°-50°	181.7	8.7
50°-60°	76.2	3.6
60°-70°	35.8	1.7
70°-80°	15.8	0.8
80°-90°	3.4	0.2
90°-100°	0.3	0.0
100°-110°	0.9	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°	1413.9	67.6
0°-40°	1776.6	85.0
0°-60°	2034.5	97.3
0°-90°	2089.6	99.9
90°-120°	1.2	0.1
90°-150°	1.2	0.1
90°-180°	1.0	0.0
0°-180°	2090.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4182	
5°	3328	283
15°	1955	544
25°	1331	587
35°	564	363
45°	219	182
55°	85	76
65°	37	36
75°	14	16
85°	2	3
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°	4182.0
1°	4161.3
2°	4043.8
3°	3850.4
4°	3599.4
5°	3327.6
6°	3055.9
7°	2809.5
8°	2613.8
9°	2466.4
10°	2351.2
11°	2252.2
12°	2167.0
13°	2093.3
14°	2026.5
15°	1955.1
16°	1883.7
17°	1803.1
18°	1729.5
19°	1669.6
20°	1630.4
21°	1598.2
22°	1556.7
23°	1499.2
24°	1420.9
25°	1331.1
27.5°	1070.8
30°	835.9
32.5°	674.7
35°	564.2
37.5°	483.6
40°	403.0
42.5°	301.7
45°	218.8
47.5°	165.8
50°	131.3
52.5°	108.2
55°	85.2
57.5°	59.9
60°	48.4
62.5°	41.5
65°	36.8
67.5°	29.9
70°	25.3
72.5°	18.4

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	13.8
77.5°	11.5
80°	6.9
82.5°	4.6
85°	2.3
87.5°	2.3
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.3
102.5°	2.3
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)