

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: P702118

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9050-4LBW1LI-CC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702118  
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-3040-9050-4LBW1LI-CC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

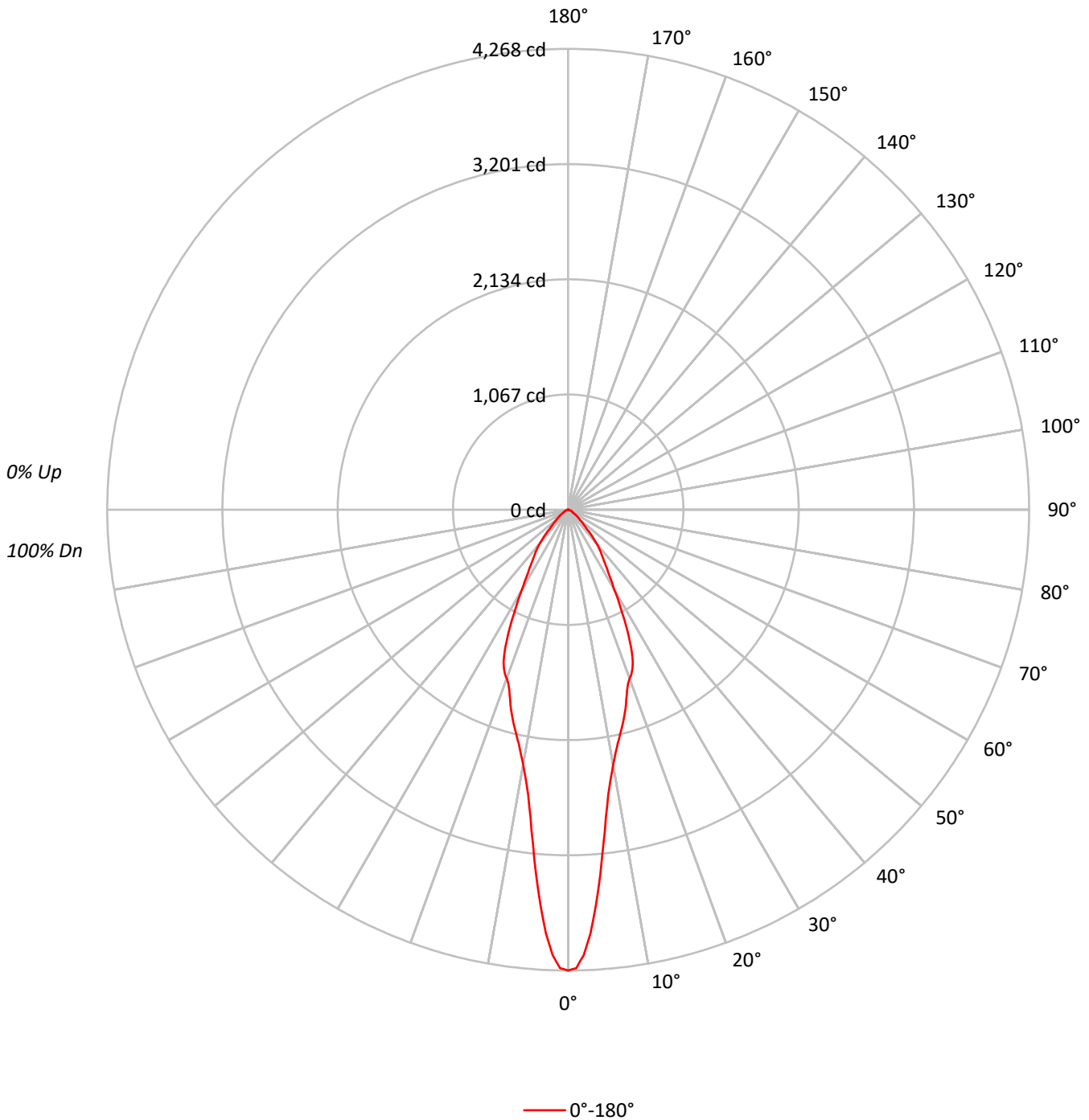
Lumens per Lamp: N/A  
Luminaire Lumens: 2133.9 lumens  
Efficiency: N/A  
Efficacy: 67.5 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

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°	495005
5°	395383
10°	282595
15°	239585
20°	205370
25°	173839
30°	114252
35°	81527
40°	62273
45°	36627
50°	24179
55°	17592
60°	11459
65°	10319
70°	8783
75°	6319
80°	4742
85°	3194

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 36627 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.7	13.5
10°-20°	554.9	26.0
20°-30°	599.3	28.1
30°-40°	370.2	17.3
40°-50°	185.5	8.7
50°-60°	77.8	3.6
60°-70°	36.6	1.7
70°-80°	16.1	0.8
80°-90°	3.6	0.2
90°-100°	0.3	0.0
100°-110°	1.0	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°	1442.9	67.6
0°-40°	1813.1	85.0
0°-60°	2076.4	97.3
0°-90°	2132.6	99.9
90°-120°	1.3	0.1
90°-150°	1.3	0.1
90°-180°	1.0	0.0
0°-180°	2133.9	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4268	
5°	3396	289
15°	1995	555
25°	1358	599
35°	576	370
45°	223	185
55°	87	78
65°	38	37
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°	4267.9
1°	4246.7
2°	4126.9
3°	3929.5
4°	3673.3
5°	3396.0
6°	3118.7
7°	2867.2
8°	2667.4
9°	2517.0
10°	2399.5
11°	2298.4
12°	2211.5
13°	2136.3
14°	2068.1
15°	1995.3
16°	1922.4
17°	1840.2
18°	1765.0
19°	1703.9
20°	1663.9
21°	1631.0
22°	1588.7
23°	1529.9
24°	1450.0
25°	1358.4
27.5°	1092.8
30°	853.1
32.5°	688.6
35°	575.8
37.5°	493.5
40°	411.3
42.5°	307.9
45°	223.3
47.5°	169.2
50°	134.0
52.5°	110.5
55°	87.0
57.5°	61.1
60°	49.4
62.5°	42.3
65°	37.6
67.5°	30.6
70°	25.9
72.5°	18.8

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	14.1
77.5°	11.8
80°	7.1
82.5°	4.7
85°	2.4
87.5°	2.4
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	2.4
102.5°	2.4
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)