

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: P702083

Luminaire Tested: 340-4C-30-D010 / 340-EU4C-3040-9024-4LBW1LI-CC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702083  
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-3040-9024-4LBW1LI-CC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

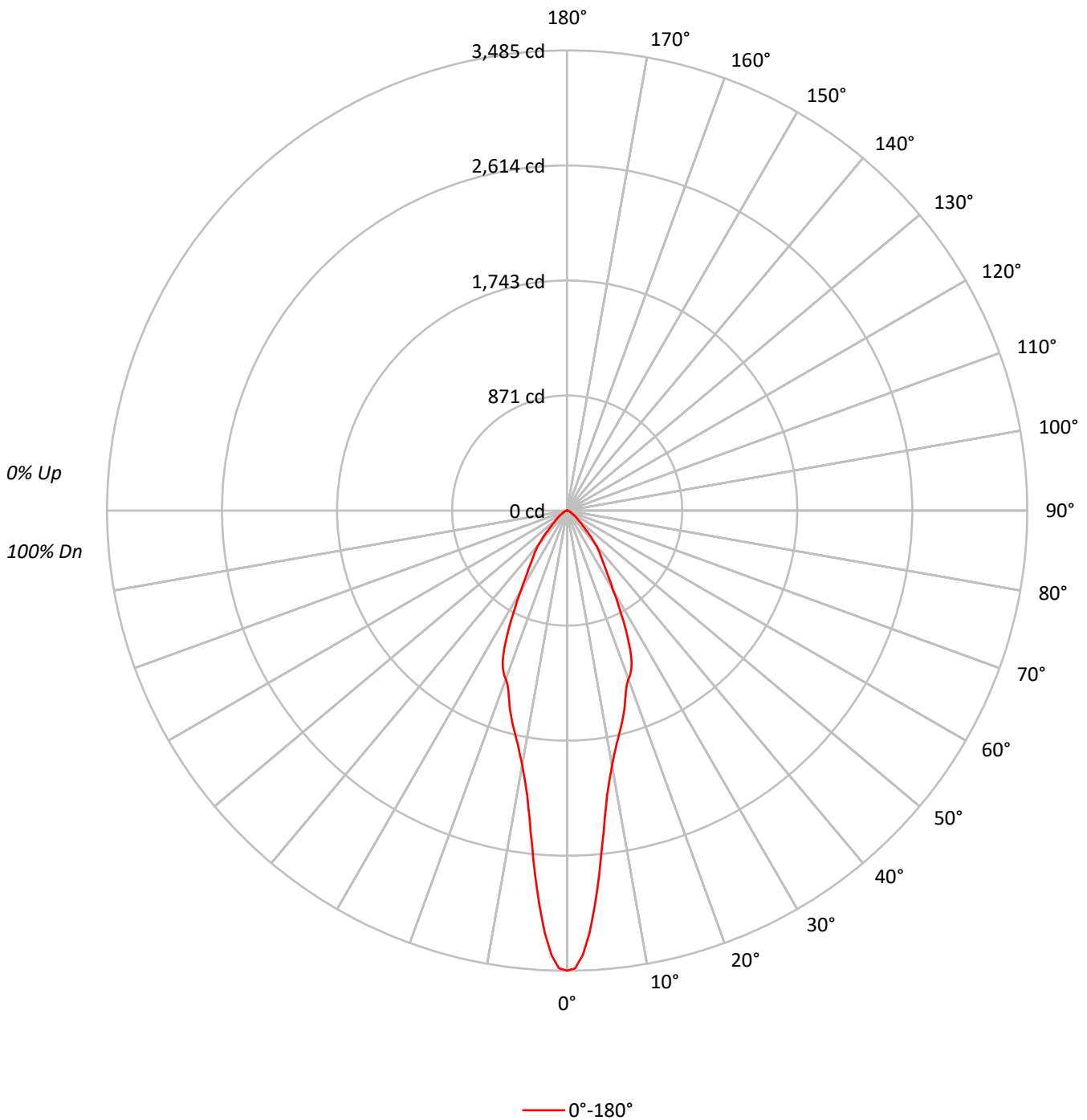
Lumens per Lamp: N/A  
Luminaire Lumens: 1742.2 lumens  
Efficiency: N/A  
Efficacy: 55.1 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

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°	404155
5°	322815
10°	230728
15°	195614
20°	167675
25°	141935
30°	93279
35°	66561
40°	50842
45°	29902
50°	19740
55°	14357
60°	9348
65°	8425
70°	7155
75°	5153
80°	3874
85°	2528

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 29902 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	13.5
10°-20°	453.0	26.0
20°-30°	489.3	28.1
30°-40°	302.3	17.3
40°-50°	151.4	8.7
50°-60°	63.5	3.6
60°-70°	29.9	1.7
70°-80°	13.2	0.8
80°-90°	2.9	0.2
90°-100°	0.3	0.0
100°-110°	0.8	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°	1178.1	67.6
0°-40°	1480.3	85.0
0°-60°	1695.3	97.3
0°-90°	1741.1	99.9
90°-120°	1.0	0.1
90°-150°	1.0	0.1
90°-180°	1.0	0.1
0°-180°	1742.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3485	
5°	2773	236
15°	1629	453
25°	1109	489
35°	470	302
45°	182	151
55°	71	64
65°	31	30
75°	12	13
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	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	3484.6
1°	3467.3
2°	3369.4
3°	3208.2
4°	2999.1
5°	2772.7
6°	2546.3
7°	2340.9
8°	2177.8
9°	2055.0
10°	1959.1
11°	1876.6
12°	1805.6
13°	1744.2
14°	1688.6
15°	1629.1
16°	1569.6
17°	1502.4
18°	1441.0
19°	1391.1
20°	1358.5
21°	1331.7
22°	1297.1
23°	1249.1
24°	1183.9
25°	1109.1
27.5°	892.2
30°	696.5
32.5°	562.2
35°	470.1
37.5°	403.0
40°	335.8
42.5°	251.4
45°	182.3
47.5°	138.2
50°	109.4
52.5°	90.2
55°	71.0
57.5°	49.9
60°	40.3
62.5°	34.5
65°	30.7
67.5°	24.9
70°	21.1
72.5°	15.4

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	11.5
77.5°	9.6
80°	5.8
82.5°	3.8
85°	1.9
87.5°	1.9
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	1.9
102.5°	1.9
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)