

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: P701761

Luminaire Tested: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-CC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701761  
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-05-D010 / 340-EU4C-1020-9030-4LBW1LI-CC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL CLEAR GLASS KIT.  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

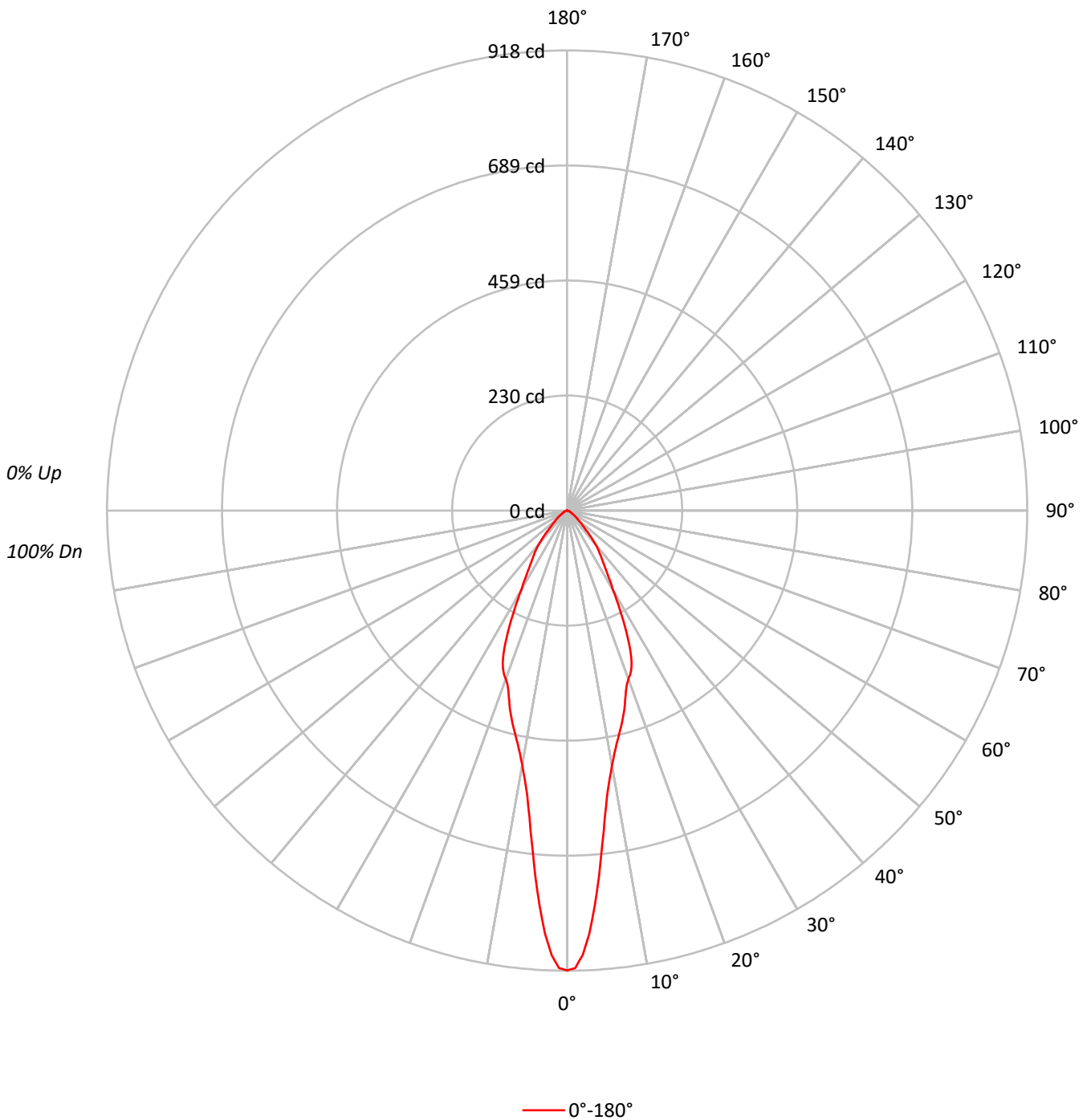
Lumens per Lamp: N/A  
Luminaire Lumens: 458.7 lumens  
Efficiency: N/A  
Efficacy: 63.7 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.64  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

Input Watts (W): 7.2  
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°	106415
5°	84991
10°	60747
15°	51500
20°	44150
25°	37368
30°	24562
35°	17529
40°	13384
45°	7873
50°	5197
55°	3781
60°	2459
65°	2223
70°	1899
75°	1344
80°	1002
85°	665

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7873 cd/sqm

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CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-CC

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.1	13.5
10°-20°	119.3	26.0
20°-30°	128.8	28.1
30°-40°	79.6	17.4
40°-50°	39.9	8.7
50°-60°	16.7	3.6
60°-70°	7.9	1.7
70°-80°	3.4	0.7
80°-90°	0.7	0.2
90°-100°	0.1	0.0
100°-110°	0.2	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°	310.2	67.6
0°-40°	389.8	85.0
0°-60°	446.3	97.3
0°-90°	458.4	99.9
90°-120°	0.3	0.1
90°-150°	0.3	0.1
90°-180°	0.0	0.0
0°-180°	458.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	918	
5°	730	62
15°	429	119
25°	292	129
35°	124	80
45°	48	40
55°	19	17
65°	8	8
75°	3	3
85°	0	1
90°	0	0
95°	0	0
105°	0	0
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°	917.5
1°	912.9
2°	887.2
3°	844.7
4°	789.7
5°	730.0
6°	670.4
7°	616.4
8°	573.4
9°	541.1
10°	515.8
11°	494.1
12°	475.4
13°	459.2
14°	444.6
15°	428.9
16°	413.3
17°	395.6
18°	379.4
19°	366.3
20°	357.7
21°	350.6
22°	341.5
23°	328.9
24°	311.7
25°	292.0
27.5°	234.9
30°	183.4
32.5°	148.0
35°	123.8
37.5°	106.1
40°	88.4
42.5°	66.2
45°	48.0
47.5°	36.4
50°	28.8
52.5°	23.7
55°	18.7
57.5°	13.1
60°	10.6
62.5°	9.1
65°	8.1
67.5°	6.6
70°	5.6
72.5°	4.0

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CATALOG NUMBER: 340-4C-05-D010 / 340-EU4C-1020-9030-4LBW1LI-CC

**CANDELA DISTRIBUTION (continued):**

	0°
75°	3.0
77.5°	2.5
80°	1.5
82.5°	1.0
85°	0.5
87.5°	0.5
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.5
102.5°	0.5
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)