

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: P702227

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9040-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702227  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9040-4LBW1LI-GCC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

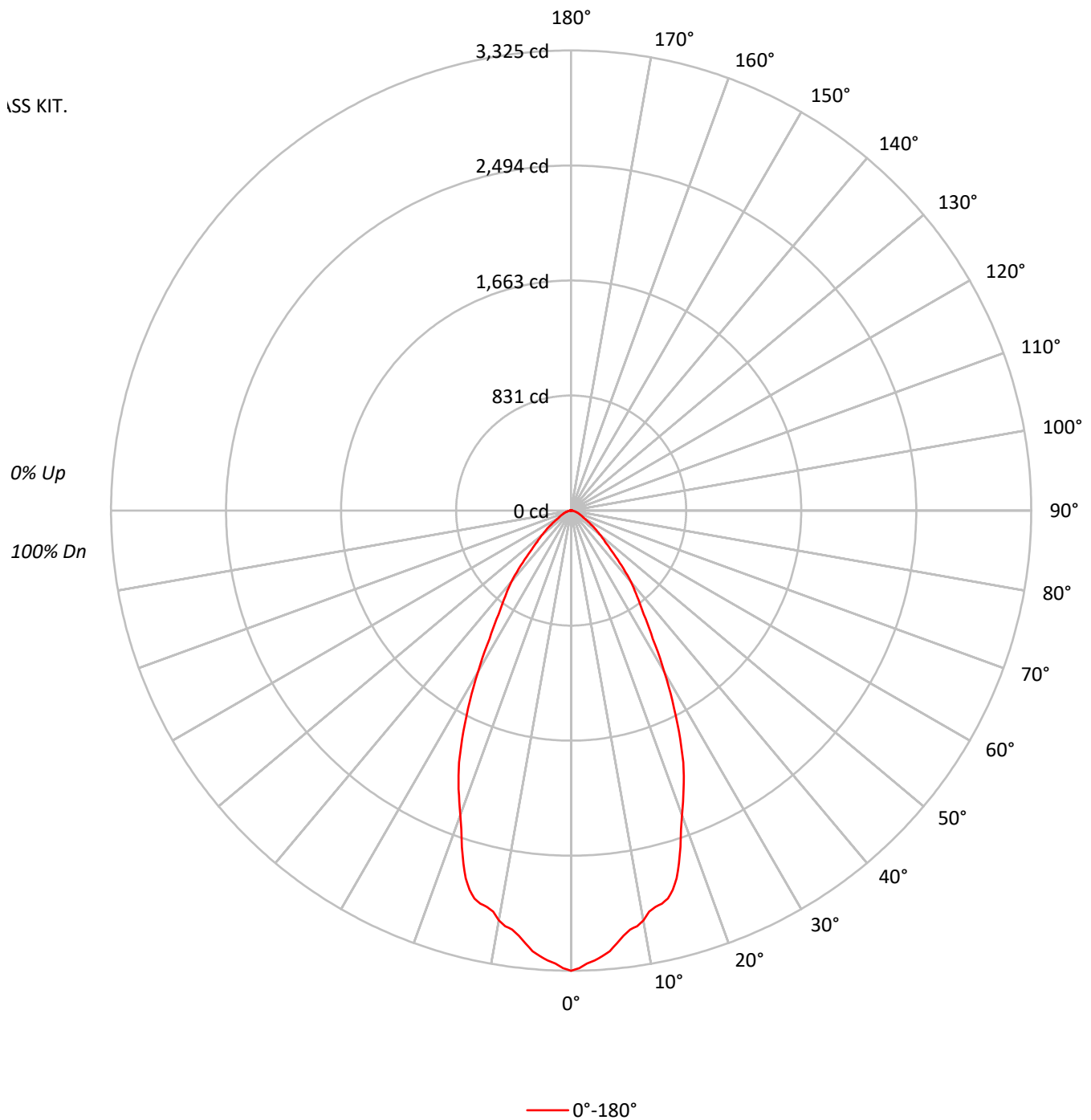
Lumens per Lamp: N/A  
Luminaire Lumens: 3137.2 lumens  
Efficiency: N/A  
Efficacy: 66.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

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	109	107	104	110	107	105	102	103	101	99		99	98	96		96	94	93	91
2	106	101	96	92	104	99	95	91	95	92	89		92	89	87		89	87	85	83
3	100	93	87	83	98	91	86	82	88	84	80		86	82	79		84	81	78	76
4	94	86	79	75	92	85	79	74	82	77	73		80	76	72		78	75	72	70
5	89	80	73	68	87	79	72	68	77	71	67		75	70	67		73	69	66	64
6	84	74	68	63	82	73	67	63	72	66	62		70	65	62		69	65	61	60
7	79	69	63	58	78	69	62	58	67	62	58		66	61	57		65	60	57	55
8	75	65	58	54	74	64	58	54	63	58	54		62	57	53		61	56	53	52
9	71	61	55	50	70	61	54	50	60	54	50		59	53	50		58	53	50	48
10	68	58	51	47	67	57	51	47	56	51	47		55	50	47		55	50	47	45

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	385690
5°	372098
10°	354106
15°	340568
20°	288942
25°	241038
30°	180425
35°	129540
40°	102229
45°	67792
50°	49530
55°	35084
60°	24148
65°	20775
70°	18176
75°	15550
80°	12624
85°	12642

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 67792 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.8	9.5
10°-20°	773.2	24.6
20°-30°	850.6	27.1
30°-40°	589.8	18.8
40°-50°	336.2	10.7
50°-60°	159.8	5.1
60°-70°	75.6	2.4
70°-80°	37.0	1.2
80°-90°	10.7	0.3
90°-100°	3.9	0.1
100°-110°	2.6	0.1
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°	1921.6	61.3
0°-40°	2511.4	80.1
0°-60°	3007.5	95.9
0°-90°	3130.8	99.8
90°-120°	6.5	0.2
90°-150°	6.5	0.2
90°-180°	6.0	0.2
0°-180°	3137.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3325	
5°	3196	298
15°	2836	773
25°	1884	851
35°	915	590
45°	413	336
55°	174	160
65°	76	76
75°	35	37
85°	10	9
90°	3	2
95°	3	3
105°	3	3
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°	3325.4
1°	3306.4
2°	3274.9
3°	3255.9
4°	3227.6
5°	3196.0
6°	3145.5
7°	3095.0
8°	3057.2
9°	3041.4
10°	3006.7
11°	2953.1
12°	2927.8
13°	2915.2
14°	2890.0
15°	2836.3
16°	2763.8
17°	2666.0
18°	2555.5
19°	2438.8
20°	2341.0
21°	2255.8
22°	2170.6
23°	2082.3
24°	1990.8
25°	1883.5
27.5°	1612.2
30°	1347.2
32.5°	1097.9
35°	914.9
37.5°	782.4
40°	675.2
42.5°	539.5
45°	413.3
47.5°	331.3
50°	274.5
52.5°	224.0
55°	173.5
57.5°	132.5
60°	104.1
62.5°	88.3
65°	75.7
67.5°	63.1
70°	53.6
72.5°	44.2

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	34.7
77.5°	25.2
80°	18.9
82.5°	12.6
85°	9.5
87.5°	6.3
90°	3.2
92.5°	3.2
95°	3.2
97.5°	3.2
100°	6.3
102.5°	3.2
105°	3.2
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)