

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: P702213

Luminaire Tested: 340-4C-40-D010 / 340-EU4C-3040-9030-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702213  
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-3040-9030-4LBW1LI-GCC  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

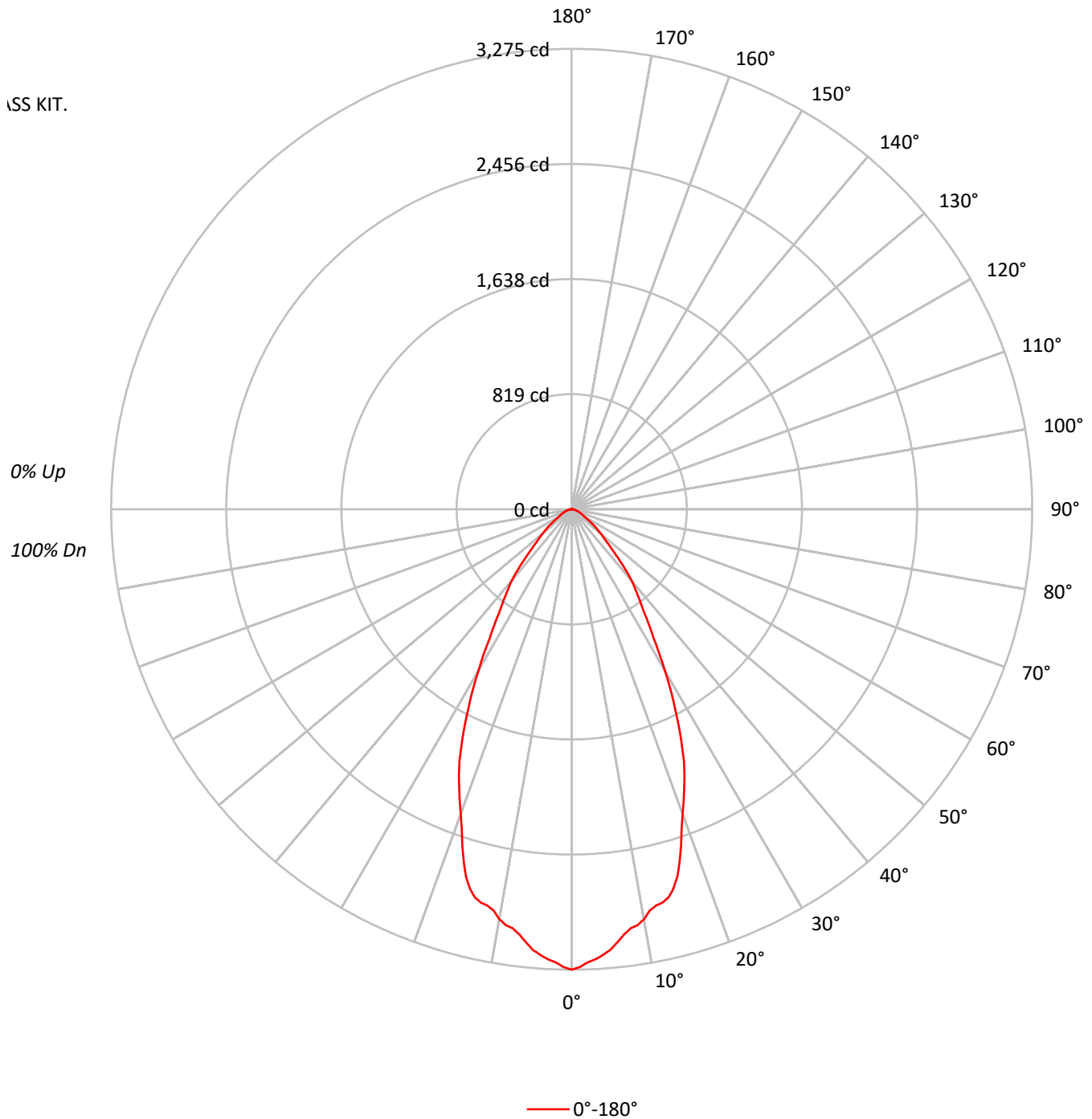
Lumens per Lamp: N/A  
Luminaire Lumens: 3089.6 lumens  
Efficiency: N/A  
Efficacy: 65.7 lumens/watt  
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.83  
Luminous Opening: Circular (Dia: 0.34' x H: 0')  
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	94	93	91				91
2	106	101	96	92	104	99	95	91	95	92	89	92	89	87	89	87	85	83				83
3	100	93	87	83	98	91	86	82	88	84	80	86	82	79	84	81	78	76				76
4	94	86	79	75	92	85	79	74	82	77	73	80	76	72	78	75	72	70				70
5	89	80	73	68	87	79	72	68	77	71	67	75	70	67	73	69	66	64				64
6	84	74	68	63	82	73	67	63	72	66	62	70	65	62	69	65	61	60				60
7	79	69	63	58	78	69	62	58	67	62	58	66	61	57	65	60	57	55				55
8	75	65	58	54	74	64	58	54	63	58	54	62	57	53	61	56	53	52				52
9	71	61	55	50	70	61	54	50	60	54	50	59	53	50	58	53	50	48				48
10	68	58	51	47	67	57	51	47	56	51	47	55	50	47	55	50	47	45				45

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

	0°
0°	379833
5°	366451
10°	348736
15°	335404
20°	284560
25°	237378
30°	177679
35°	127586
40°	100669
45°	66758
50°	48772
55°	34558
60°	23777
65°	20473
70°	17905
75°	15326
80°	12423
85°	12376

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 66758 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	293.3	9.5
10°-20°	761.4	24.6
20°-30°	837.7	27.1
30°-40°	580.8	18.8
40°-50°	331.1	10.7
50°-60°	157.4	5.1
60°-70°	74.5	2.4
70°-80°	36.4	1.2
80°-90°	10.6	0.3
90°-100°	3.8	0.1
100°-110°	2.5	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°	1892.5	61.3
0°-40°	2473.3	80.1
0°-60°	2961.8	95.9
0°-90°	3083.3	99.8
90°-120°	6.3	0.2
90°-150°	6.3	0.2
90°-180°	6.0	0.2
0°-180°	3089.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3275	
5°	3148	293
15°	2793	761
25°	1855	838
35°	901	581
45°	407	331
55°	171	157
65°	75	74
75°	34	36
85°	9	9
90°	3	2
95°	3	3
105°	3	2
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°	3274.9
1°	3256.3
2°	3225.2
3°	3206.5
4°	3178.6
5°	3147.5
6°	3097.8
7°	3048.1
8°	3010.8
9°	2995.3
10°	2961.1
11°	2908.3
12°	2883.4
13°	2871.0
14°	2846.1
15°	2793.3
16°	2721.8
17°	2625.5
18°	2516.8
19°	2401.8
20°	2305.5
21°	2221.6
22°	2137.7
23°	2050.7
24°	1960.6
25°	1854.9
27.5°	1587.7
30°	1326.7
32.5°	1081.3
35°	901.1
37.5°	770.6
40°	664.9
42.5°	531.3
45°	407.0
47.5°	326.2
50°	270.3
52.5°	220.6
55°	170.9
57.5°	130.5
60°	102.5
62.5°	87.0
65°	74.6
67.5°	62.1
70°	52.8
72.5°	43.5

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	34.2
77.5°	24.9
80°	18.6
82.5°	12.4
85°	9.3
87.5°	6.2
90°	3.1
92.5°	3.1
95°	3.1
97.5°	3.1
100°	6.2
102.5°	3.1
105°	3.1
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)