

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: P702493

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9030-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-20-D010 / 340-EU4C-1020-9030-4LBW1LI-GCC  
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

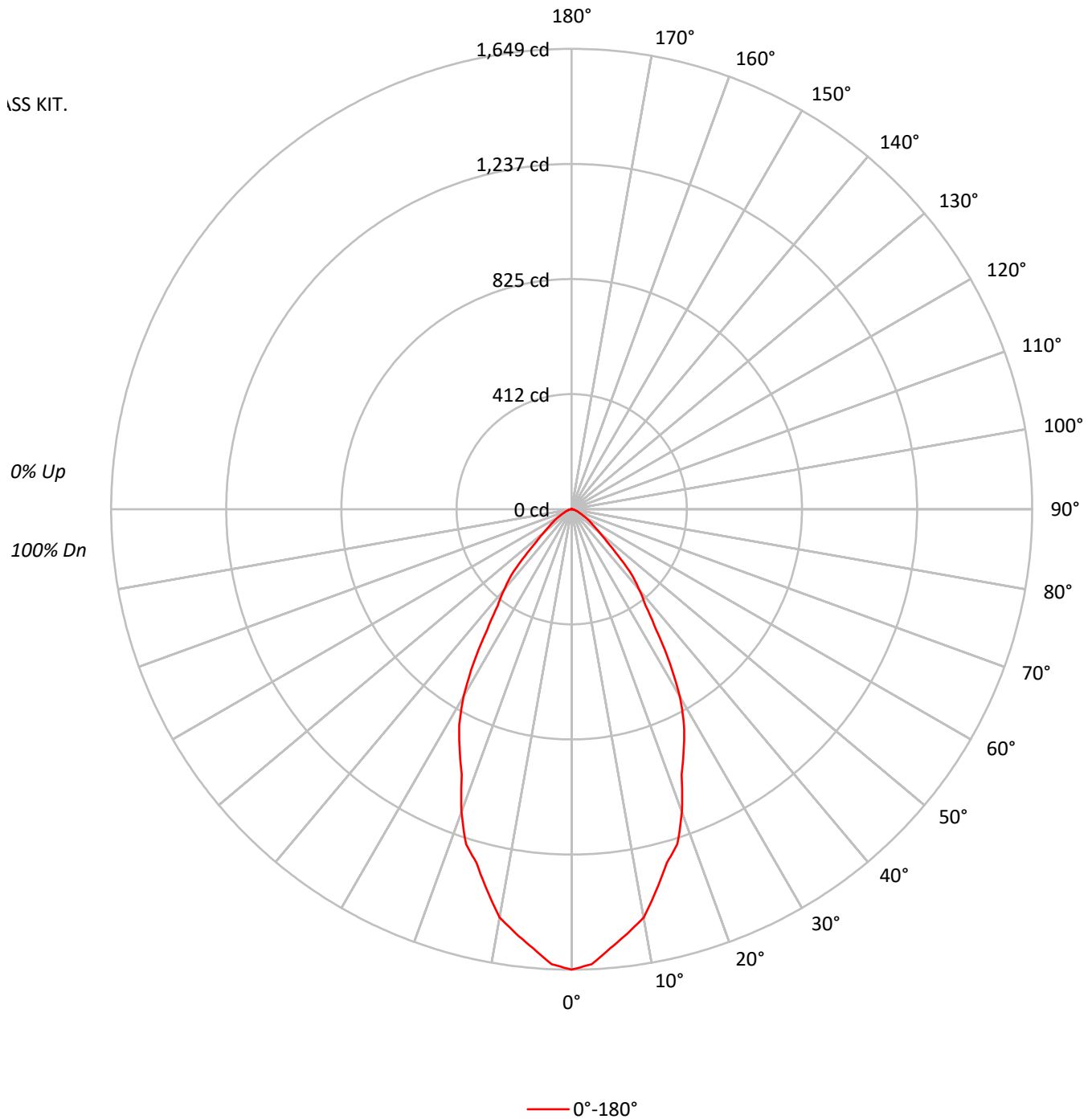
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1611.5 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.8  
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	95	93	92
2	106	101	96	92	104	99	95	91	95	92	89		92	90	87		90	87	85	83
3	100	93	87	83	98	91	86	82	88	84	81		86	82	79		84	81	78	76
4	94	86	79	75	92	84	79	74	82	77	73		80	76	72		78	75	71	70
5	89	79	73	68	87	78	72	68	76	71	67		75	70	66		73	69	66	64
6	84	74	67	62	82	73	67	62	71	66	62		70	65	61		69	64	61	59
7	79	69	62	58	78	68	62	57	67	61	57		66	60	57		64	60	56	55
8	75	64	58	53	74	64	58	53	63	57	53		62	56	53		61	56	52	51
9	71	60	54	50	70	60	54	50	59	53	49		58	53	49		57	52	49	48
10	67	57	51	46	66	56	50	46	56	50	46		55	50	46		54	49	46	44

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

	0°
0°	107562
5°	103408
10°	98364
15°	88669
20°	80106
25°	68335
30°	58316
35°	42004
40°	32065
45°	21562
50°	13337
55°	9600
60°	6994
65°	4755
70°	4025
75°	3277
80°	3043
85°	2395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21562 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.9	9.2
10°-20°	370.3	23.0
20°-30°	436.5	27.1
30°-40°	339.4	21.1
40°-50°	186.2	11.6
50°-60°	77.6	4.8
60°-70°	32.8	2.0
70°-80°	14.1	0.9
80°-90°	4.0	0.2
90°-100°	1.7	0.1
100°-110°	1.1	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°	954.7	59.2
0°-40°	1294.0	80.3
0°-60°	1557.8	96.7
0°-90°	1608.7	99.8
90°-120°	2.8	0.2
90°-150°	2.8	0.2
90°-180°	3.0	0.2
0°-180°	1611.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1649	
5°	1579	148
15°	1313	370
25°	949	436
35°	527	339
45°	234	186
55°	84	78
65°	31	33
75°	13	14
85°	3	4
90°	2	1
95°	2	1
105°	2	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°	1648.7
2.5°	1630.9
5°	1579.0
7.5°	1531.9
10°	1484.8
12.5°	1398.8
15°	1312.8
17.5°	1257.6
20°	1153.8
22.5°	1028.8
25°	949.3
27.5°	871.4
30°	774.1
32.5°	655.6
35°	527.4
37.5°	434.9
40°	376.5
42.5°	319.7
45°	233.7
47.5°	168.8
50°	131.4
52.5°	103.9
55°	84.4
57.5°	68.2
60°	53.6
62.5°	38.9
65°	30.8
67.5°	26.0
70°	21.1
72.5°	16.2
75°	13.0
77.5°	9.7
80°	8.1
82.5°	4.9
85°	3.2
87.5°	1.6
90°	1.6
92.5°	1.6
95°	1.6
97.5°	1.6
100°	1.6
102.5°	1.6
105°	1.6
107.5°	0.0
110°	0.0

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**CANDELA DISTRIBUTION (continued):**

	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)