

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: P702507

Luminaire Tested: 340-6C-20-D010 / 340-EU4C-1020-9040-4LBW1LI-GCC

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702507  
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-1020-9040-4LBW1LI-GCC  
Description: FARALLON 6" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, CLEAR INSIDE, CLEAR OUTSIDE GLA  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

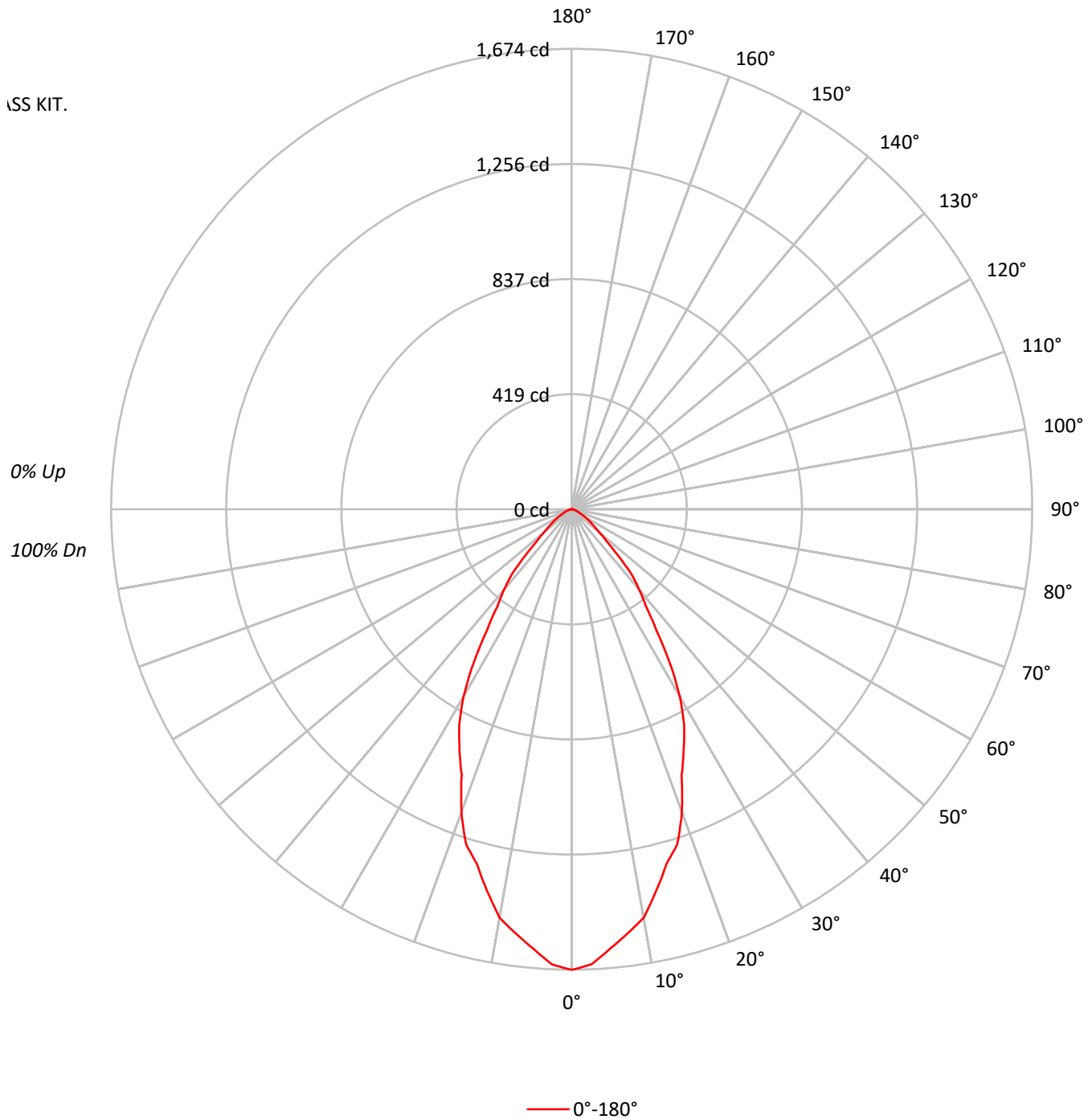
Lumens per Lamp: N/A  
Luminaire Lumens: 1636.6 lumens  
Efficiency: N/A  
Efficacy: 75.1 lumens/watt  
Spacing Criteria (0/90/45): 0.82 / 0.82 / 0.89  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

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	96	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°	109245
5°	105020
10°	99901
15°	90054
20°	81355
25°	69408
30°	59227
35°	42657
40°	32567
45°	21894
50°	13550
55°	9748
60°	7098
65°	4832
70°	4082
75°	3327
80°	3081
85°	2470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21894 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.2	9.2
10°-20°	376.1	23.0
20°-30°	443.3	27.1
30°-40°	344.6	21.1
40°-50°	189.1	11.6
50°-60°	78.8	4.8
60°-70°	33.4	2.0
70°-80°	14.3	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°	969.6	59.2
0°-40°	1314.3	80.3
0°-60°	1582.1	96.7
0°-90°	1633.8	99.8
90°-120°	2.8	0.2
90°-150°	2.8	0.2
90°-180°	3.0	0.2
0°-180°	1636.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1674	
5°	1604	150
15°	1333	376
25°	964	443
35°	536	345
45°	237	189
55°	86	79
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°	1674.5
2.5°	1656.4
5°	1603.6
7.5°	1555.8
10°	1508.0
12.5°	1420.7
15°	1333.3
17.5°	1277.3
20°	1171.8
22.5°	1044.9
25°	964.2
27.5°	885.1
30°	786.2
32.5°	665.8
35°	535.6
37.5°	441.7
40°	382.4
42.5°	324.7
45°	237.3
47.5°	171.4
50°	133.5
52.5°	105.5
55°	85.7
57.5°	69.2
60°	54.4
62.5°	39.6
65°	31.3
67.5°	26.4
70°	21.4
72.5°	16.5
75°	13.2
77.5°	9.9
80°	8.2
82.5°	4.9
85°	3.3
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)