

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: P702736

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-40-D010 / 340-EU4C-3040-9050-4LBW1LI-CQ  
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

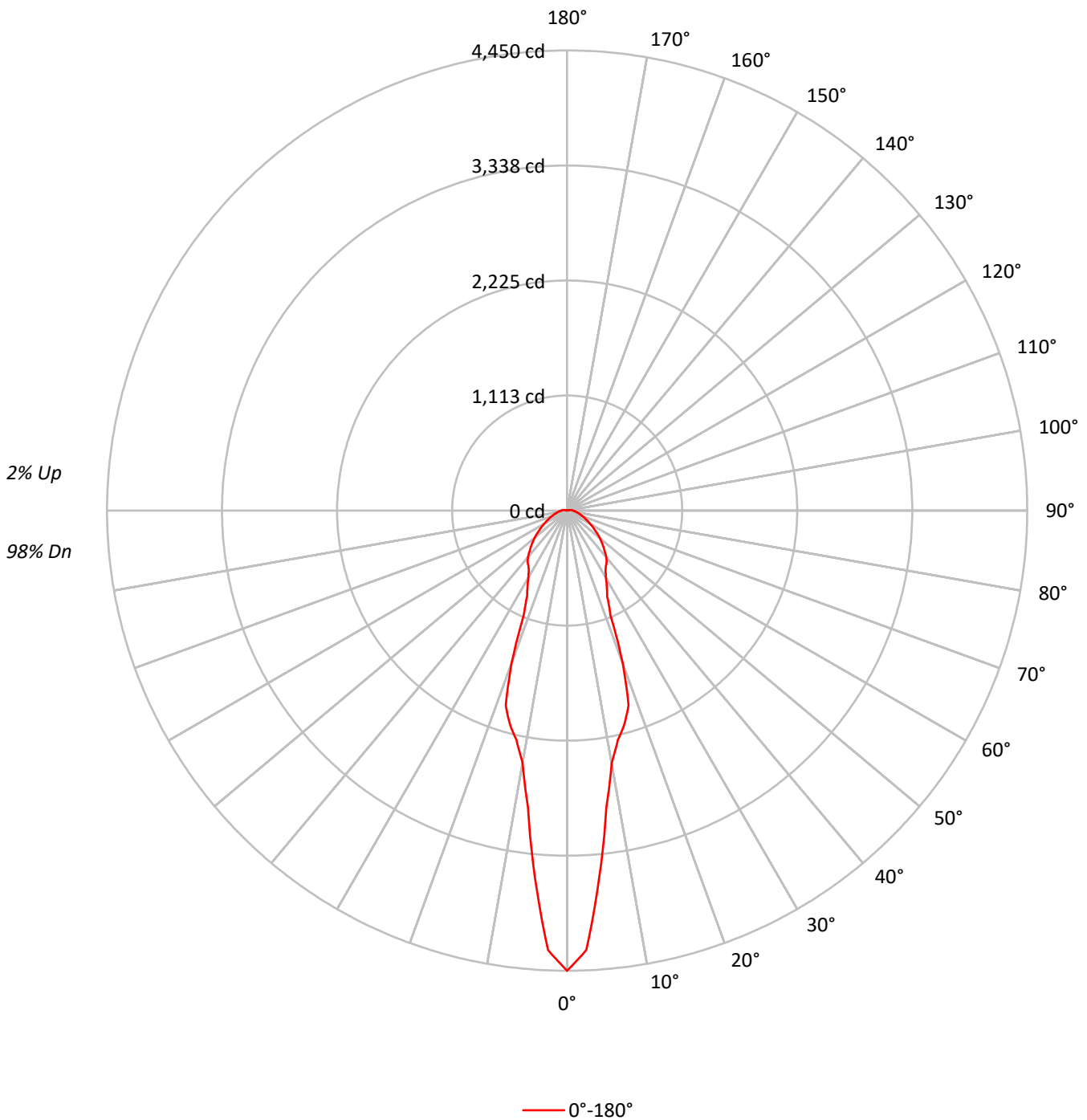
Lumens per Lamp: N/A  
Luminaire Lumens: 2909.7 lumens  
Efficiency: N/A  
Efficacy: 61.9 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

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	110	110	110		105	105	105		100	100	100	98
1	110	105	102	98	107	103	100	97	98	96	93		94	92	90		90	89	87	85
2	102	95	89	84	99	93	87	83	89	84	81		85	82	78		82	79	76	74
3	95	86	79	73	92	84	78	72	81	75	71		78	73	70		75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63		72	67	62		69	65	61	59
5	83	72	64	58	81	71	63	58	68	62	57		66	61	57		64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52		62	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	46
8	69	58	50	45	68	57	50	45	55	49	45		54	48	44		53	48	44	42
9	66	54	47	42	64	53	47	42	52	46	42		51	45	41		50	45	41	40
10	62	51	44	40	61	50	44	39	49	43	39		48	43	39		47	42	39	37

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

	0°
0°	290321
5°	208551
10°	132322
15°	105940
20°	72882
25°	40402
30°	31678
35°	26606
40°	23375
45°	19391
50°	15917
55°	12606
60°	10040
65°	7899
70°	6294
75°	5074
80°	4101
85°	3380

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19391 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	304.6	10.5
10°-20°	584.4	20.1
20°-30°	453.7	15.6
30°-40°	412.7	14.2
40°-50°	382.9	13.2
50°-60°	294.7	10.1
60°-70°	201.7	6.9
70°-80°	130.9	4.5
80°-90°	81.5	2.8
90°-100°	47.3	1.6
100°-110°	14.9	0.5
110°-120°	0.4	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°	1342.7	46.1
0°-40°	1755.4	60.3
0°-60°	2433.0	83.6
0°-90°	2847.0	97.8
90°-120°	62.7	2.2
90°-150°	62.7	2.2
90°-180°	63.0	2.2
0°-180°	2909.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4450	
5°	3563	305
15°	2140	584
25°	917	454
35°	652	413
45°	496	383
55°	326	295
65°	200	202
75°	122	131
85°	75	65
90°	54	31
95°	44	33
105°	14	15
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°	4450.0
2.5°	4253.0
5°	3563.4
7.5°	2897.6
10°	2476.4
12.5°	2269.2
15°	2140.1
17.5°	1973.6
20°	1569.4
22.5°	1097.2
25°	917.2
27.5°	828.9
30°	750.7
32.5°	689.6
35°	652.2
37.5°	628.4
40°	587.7
42.5°	540.1
45°	496.0
47.5°	451.8
50°	411.0
52.5°	366.9
55°	326.1
57.5°	292.1
60°	258.2
62.5°	227.6
65°	200.4
67.5°	180.0
70°	156.3
72.5°	139.3
75°	122.3
77.5°	108.7
80°	95.1
82.5°	84.9
85°	74.7
87.5°	64.5
90°	54.4
92.5°	51.0
95°	44.2
97.5°	37.4
100°	27.2
102.5°	20.4
105°	13.6
107.5°	6.8
110°	3.4

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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)