

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: P702729

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702729  
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-3040-9040-4LBW1LI-CQ  
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

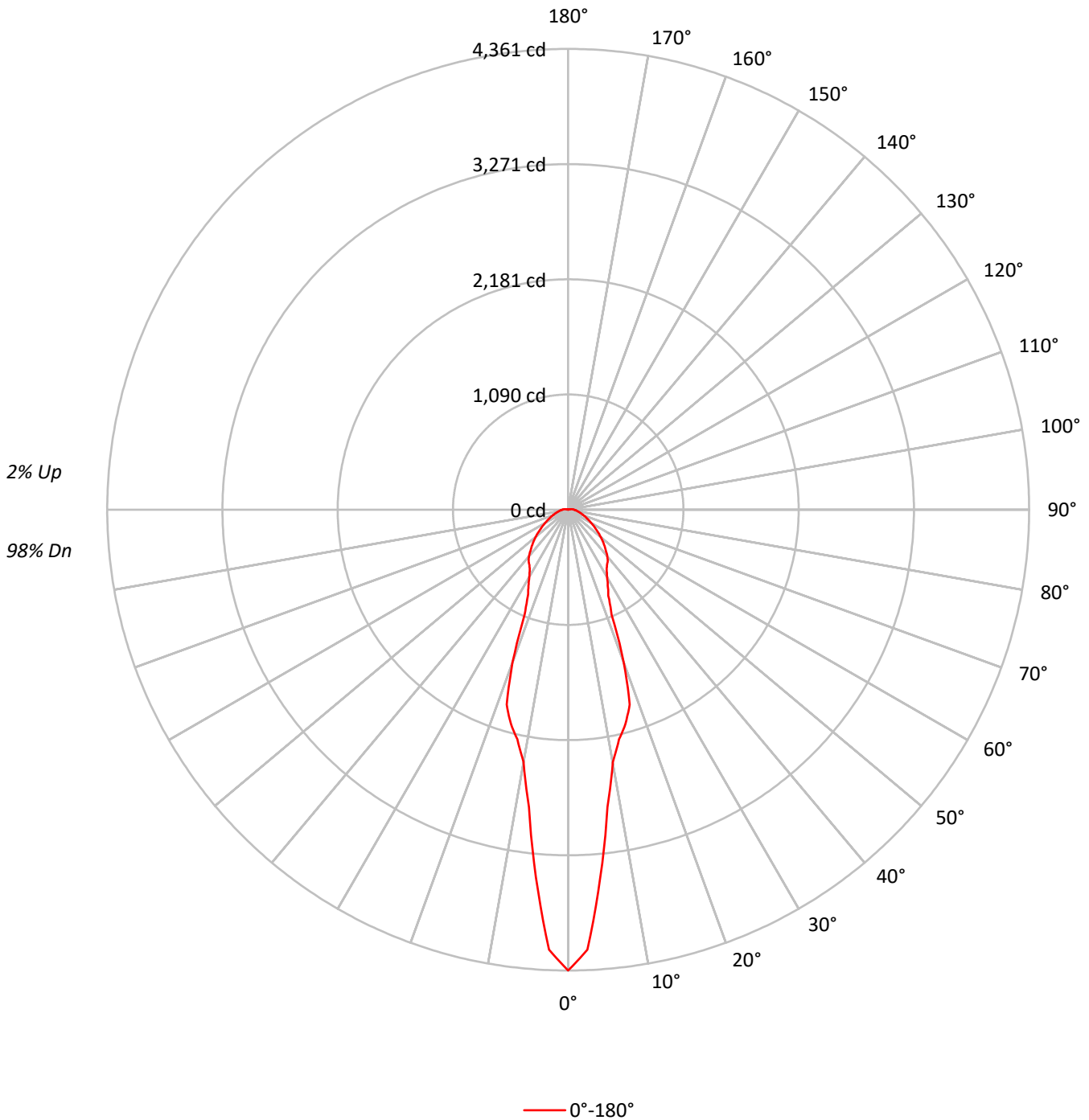
Lumens per Lamp: N/A  
Luminaire Lumens: 2851.2 lumens  
Efficiency: N/A  
Efficacy: 60.7 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

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°	284488
5°	204361
10°	129661
15°	103811
20°	71419
25°	39587
30°	31041
35°	26072
40°	22906
45°	19000
50°	15599
55°	12355
60°	9838
65°	7741
70°	6165
75°	4970
80°	4019
85°	3312

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 19000 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.4	10.5
10°-20°	572.7	20.1
20°-30°	444.5	15.6
30°-40°	404.4	14.2
40°-50°	375.2	13.2
50°-60°	288.8	10.1
60°-70°	197.6	6.9
70°-80°	128.3	4.5
80°-90°	79.8	2.8
90°-100°	46.3	1.6
100°-110°	14.6	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°	1315.7	46.1
0°-40°	1720.1	60.3
0°-60°	2384.1	83.6
0°-90°	2789.8	97.8
90°-120°	61.4	2.2
90°-150°	61.4	2.2
90°-180°	61.0	2.1
0°-180°	2851.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4361	
5°	3492	298
15°	2097	573
25°	899	445
35°	639	404
45°	486	375
55°	320	289
65°	196	198
75°	120	128
85°	73	64
90°	53	30
95°	43	32
105°	13	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°	4360.6
2.5°	4167.5
5°	3491.8
7.5°	2839.4
10°	2426.6
12.5°	2223.6
15°	2097.1
17.5°	1934.0
20°	1537.9
22.5°	1075.2
25°	898.7
27.5°	812.2
30°	735.6
32.5°	675.7
35°	639.1
37.5°	615.8
40°	575.9
42.5°	529.3
45°	486.0
47.5°	442.7
50°	402.8
52.5°	359.5
55°	319.6
57.5°	286.3
60°	253.0
62.5°	223.0
65°	196.4
67.5°	176.4
70°	153.1
72.5°	136.5
75°	119.8
77.5°	106.5
80°	93.2
82.5°	83.2
85°	73.2
87.5°	63.2
90°	53.3
92.5°	49.9
95°	43.3
97.5°	36.6
100°	26.6
102.5°	20.0
105°	13.3
107.5°	6.7
110°	3.3

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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)