

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: P702722

Luminaire Tested: 340-6C-40-D010 / 340-EU4C-3040-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702722  
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-3040-9035-4LBW1LI-CQ  
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

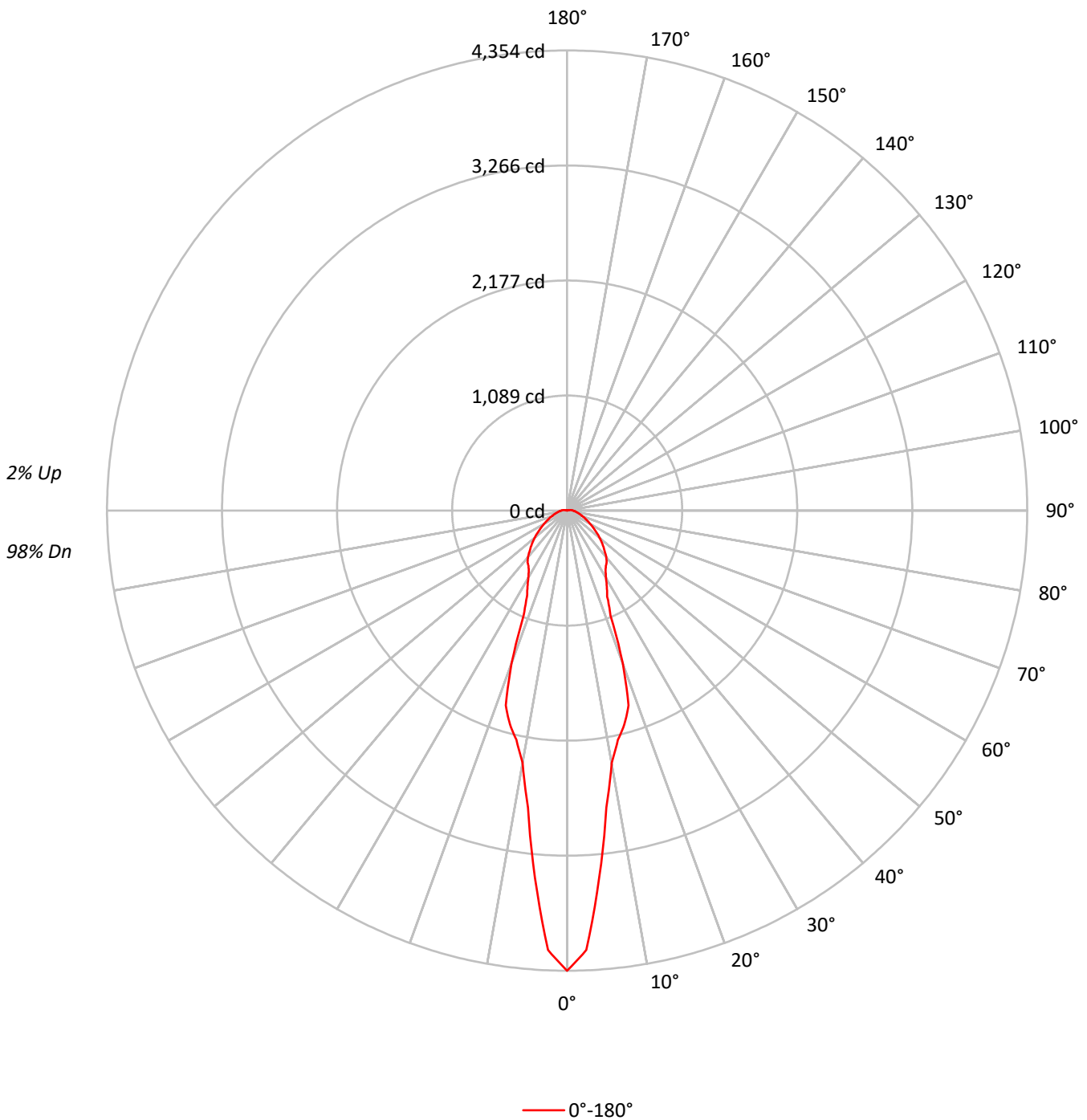
Lumens per Lamp: N/A  
Luminaire Lumens: 2847.2 lumens  
Efficiency: N/A  
Efficacy: 60.6 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

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°	284077
5°	204062
10°	129474
15°	103658
20°	71312
25°	39530
30°	30999
35°	26035
40°	22870
45°	18972
50°	15576
55°	12336
60°	9822
65°	7729
70°	6157
75°	4966
80°	4014
85°	3307

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18972 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	298.0	10.5
10°-20°	571.9	20.1
20°-30°	443.9	15.6
30°-40°	403.8	14.2
40°-50°	374.7	13.2
50°-60°	288.4	10.1
60°-70°	197.4	6.9
70°-80°	128.1	4.5
80°-90°	79.7	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°	1313.8	46.1
0°-40°	1717.6	60.3
0°-60°	2380.6	83.6
0°-90°	2785.9	97.8
90°-120°	61.3	2.2
90°-150°	61.3	2.2
90°-180°	61.0	2.1
0°-180°	2847.2	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4354	
5°	3487	298
15°	2094	572
25°	897	444
35°	638	404
45°	485	375
55°	319	288
65°	196	197
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°	4354.3
2.5°	4161.5
5°	3486.7
7.5°	2835.3
10°	2423.1
12.5°	2220.3
15°	2094.0
17.5°	1931.2
20°	1535.6
22.5°	1073.6
25°	897.4
27.5°	811.0
30°	734.6
32.5°	674.7
35°	638.2
37.5°	614.9
40°	575.0
42.5°	528.5
45°	485.3
47.5°	442.1
50°	402.2
52.5°	359.0
55°	319.1
57.5°	285.9
60°	252.6
62.5°	222.7
65°	196.1
67.5°	176.2
70°	152.9
72.5°	136.3
75°	119.7
77.5°	106.4
80°	93.1
82.5°	83.1
85°	73.1
87.5°	63.2
90°	53.2
92.5°	49.9
95°	43.2
97.5°	36.6
100°	26.6
102.5°	19.9
105°	13.3
107.5°	6.6
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)