

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: P702190

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9730-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702190  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-35-D010 / 340-EU4C-3040-9730-4LBW1LI-CQ  
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

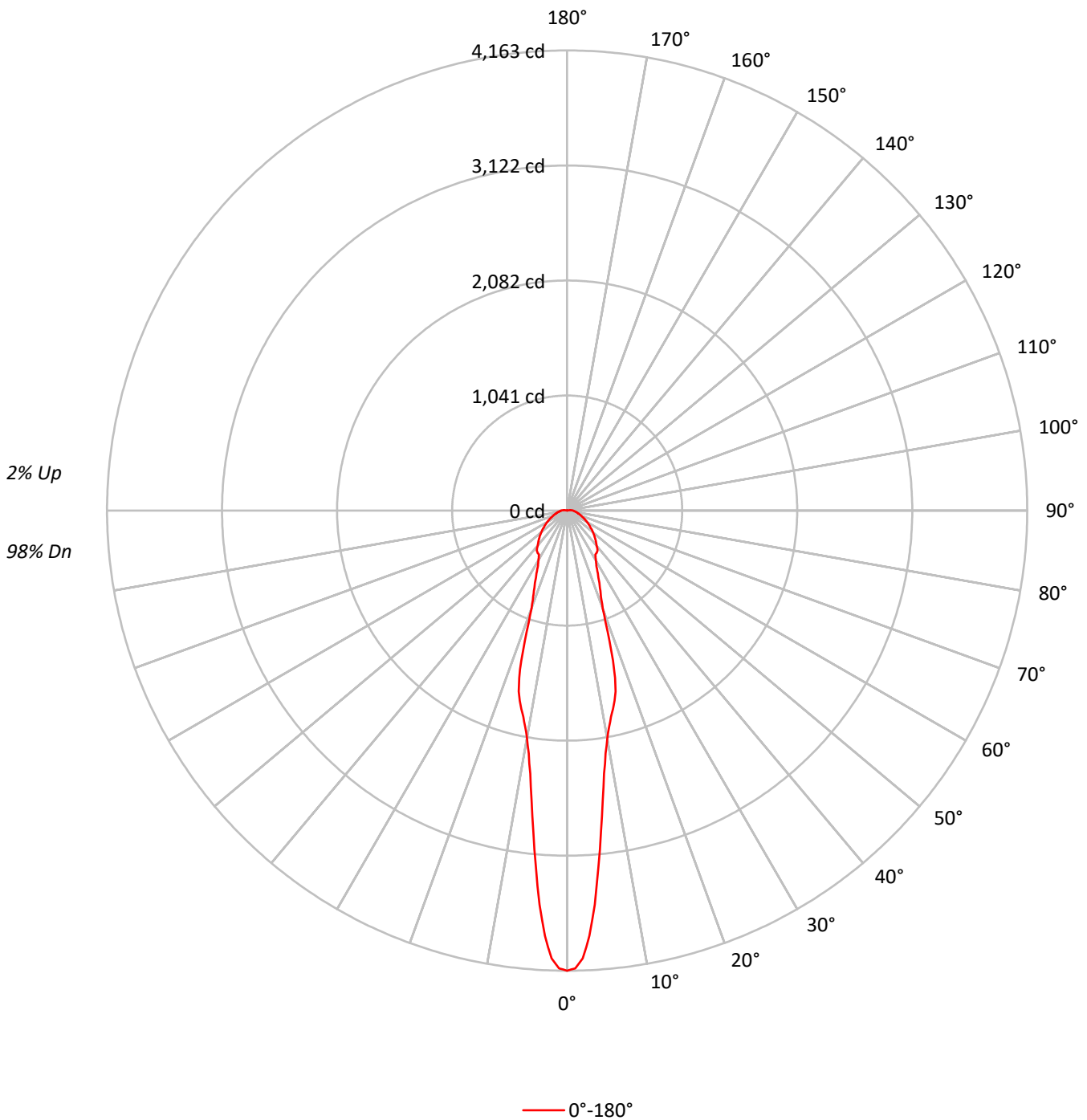
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2218.6 lumens  
Efficiency: N/A  
Efficacy: 54.9 lumens/watt  
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct  
  
Input Watts (W): 40.4  
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	109	105	101	98	106	103	99	96	98	95	92		94	91	89		90	88	86	84
2	101	94	88	83	99	92	87	82	88	84	80		85	81	78		81	78	76	74
3	94	85	78	72	92	83	77	72	80	75	70		77	73	69		75	71	67	65
4	88	78	70	64	86	76	69	64	74	68	63		71	66	62		69	64	61	59
5	82	71	64	58	80	70	63	58	68	62	57		66	60	56		64	59	55	53
6	77	66	58	53	76	65	58	53	63	57	52		61	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	45
8	69	58	50	45	68	57	50	45	55	49	45		54	49	44		53	48	44	42
9	66	54	47	42	64	54	47	42	52	46	42		51	46	42		50	45	41	40
10	63	51	44	40	61	51	44	40	50	44	39		49	43	39		48	43	39	37

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

	0°
0°	482861
5°	328602
10°	189401
15°	139735
20°	71940
25°	47843
30°	34974
35°	30159
40°	25928
45°	21828
50°	18228
55°	15028
60°	12304
65°	9983
70°	8022
75°	6549
80°	5386
85°	4370

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 21828 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.4	12.1
10°-20°	437.0	19.7
20°-30°	312.7	14.1
30°-40°	291.1	13.1
40°-50°	277.1	12.5
50°-60°	228.1	10.3
60°-70°	167.7	7.6
70°-80°	114.6	5.2
80°-90°	73.8	3.3
90°-100°	40.6	1.8
100°-110°	7.5	0.3
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°	1018.1	45.9
0°-40°	1309.2	59.0
0°-60°	1814.4	81.8
0°-90°	2170.5	97.8
90°-120°	48.1	2.2
90°-150°	48.1	2.2
90°-180°	48.0	2.2
0°-180°	2218.6	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4163	
5°	3242	268
15°	1693	437
25°	670	313
35°	466	291
45°	359	277
55°	254	228
65°	169	168
75°	107	115
85°	67	58
90°	54	29
95°	38	27
105°	5	8
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°	4163.2
1°	4141.8
2°	4053.4
3°	3852.4
4°	3573.8
5°	3241.6
6°	2925.5
7°	2641.5
8°	2403.1
9°	2223.6
10°	2089.6
11°	1990.5
12°	1907.5
13°	1840.5
14°	1773.5
15°	1693.1
16°	1575.3
17°	1419.9
18°	1237.7
19°	1068.9
20°	943.0
21°	865.3
22°	809.1
23°	760.8
24°	715.3
25°	669.8
27.5°	576.0
30°	517.1
32.5°	474.2
35°	466.2
37.5°	452.8
40°	415.2
42.5°	385.8
45°	359.0
47.5°	332.2
50°	305.4
52.5°	278.6
55°	254.5
57.5°	230.4
60°	209.0
62.5°	187.5
65°	168.8
67.5°	150.0
70°	134.0
72.5°	120.6

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	107.2
77.5°	96.4
80°	85.7
82.5°	75.0
85°	67.0
87.5°	58.9
90°	53.6
92.5°	48.2
95°	37.5
97.5°	26.8
100°	18.8
102.5°	10.7
105°	5.4
107.5°	2.7
110°	0.0
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)