

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: P702226

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

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702226  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-40-D010 / 340-EU4C-3040-9040-4LBW1LI-FF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

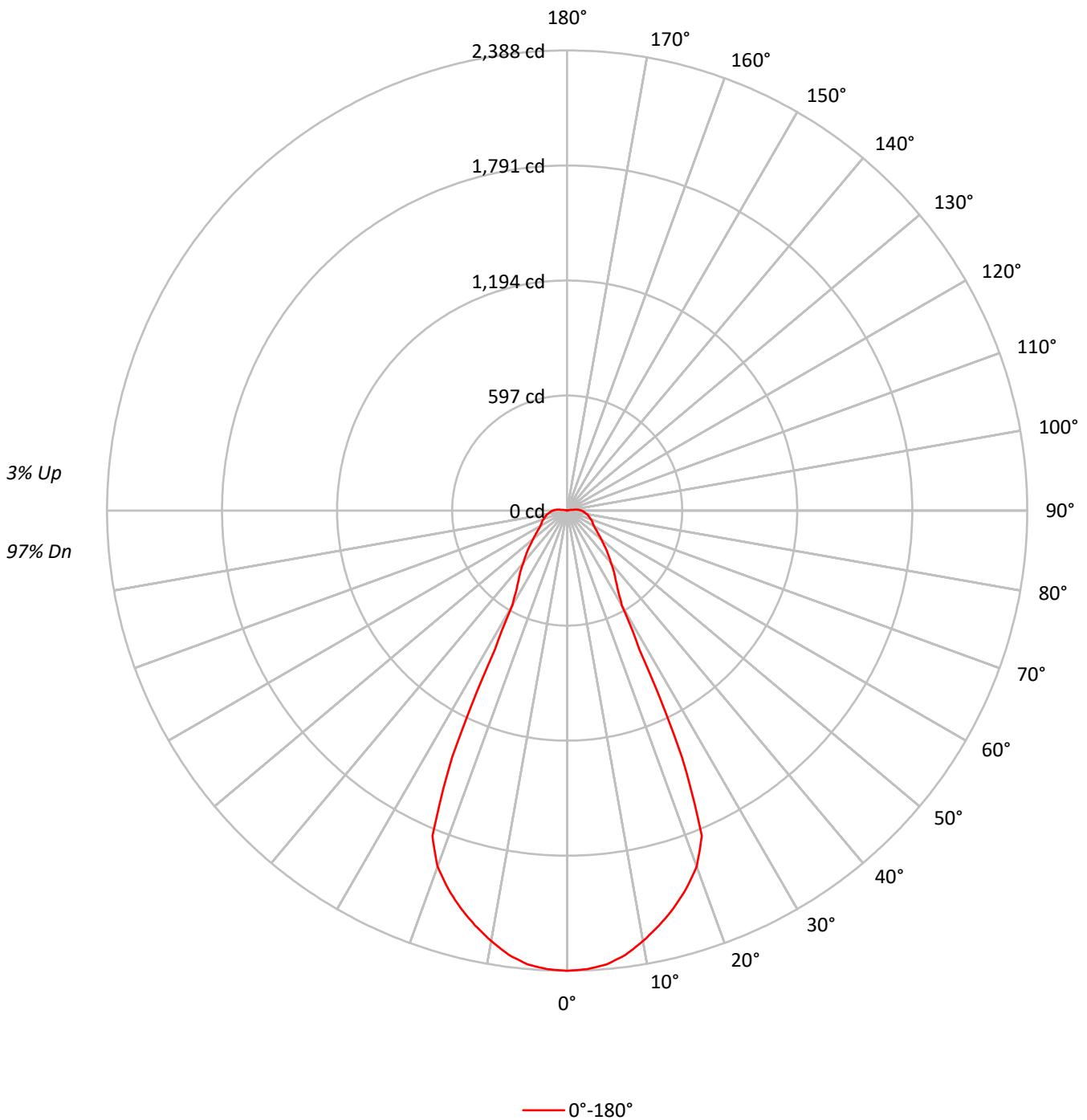
Lumens per Lamp: N/A  
Luminaire Lumens: 2514.8 lumens  
Efficiency: N/A  
Efficacy: 53.5 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

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	118	118	118	118	115	115	115	115	110	110	110		104	104	104		100	100	100	97
1	109	105	102	98	107	103	99	96	98	95	93		94	92	90		90	88	86	84
2	102	95	89	85	99	93	88	83	89	85	81		86	82	79		82	80	77	75
3	95	87	80	75	93	85	79	74	82	77	72		79	75	71		76	73	69	67
4	89	80	73	67	87	78	72	67	76	70	65		73	68	64		71	67	63	61
5	84	74	66	61	82	73	66	61	70	64	60		68	63	59		66	62	58	56
6	79	69	61	56	78	68	61	56	66	60	55		64	59	55		62	58	54	52
7	75	64	57	52	73	63	56	52	62	56	51		60	55	51		59	54	50	49
8	71	60	53	48	70	59	53	48	58	52	48		57	51	47		55	51	47	45
9	68	57	50	45	66	56	50	45	55	49	45		54	48	44		53	48	44	43
10	64	53	47	43	63	53	47	42	52	46	42		51	46	42		50	45	42	40

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

	0°
0°	277003
5°	239548
10°	205608
15°	176280
20°	149945
25°	100736
30°	38410
35°	28367
40°	22069
45°	17457
50°	13745
55°	11178
60°	9472
65°	8581
70°	7747
75°	7129
80°	6542
85°	5759

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 17457 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.5	8.8
10°-20°	599.1	23.8
20°-30°	592.6	23.6
30°-40°	278.0	11.1
40°-50°	222.0	8.8
50°-60°	171.3	6.8
60°-70°	143.9	5.7
70°-80°	123.4	4.9
80°-90°	96.3	3.8
90°-100°	55.6	2.2
100°-110°	10.1	0.4
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°	1414.3	56.2
0°-40°	1692.2	67.3
0°-60°	2085.6	82.9
0°-90°	2449.1	97.4
90°-120°	65.7	2.6
90°-150°	65.7	2.6
90°-180°	66.0	2.6
0°-180°	2514.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2388	
5°	2363	223
15°	2136	599
25°	1410	593
35°	438	278
45°	287	222
55°	189	171
65°	145	144
75°	117	123
85°	88	75
90°	73	40
95°	54	37
105°	6	10
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°	2388.3
2.5°	2382.0
5°	2363.1
7.5°	2325.2
10°	2268.4
12.5°	2205.3
15°	2135.9
17.5°	2057.0
20°	1965.5
22.5°	1826.7
25°	1410.3
27.5°	810.8
30°	567.9
32.5°	489.0
35°	438.5
37.5°	397.5
40°	353.4
42.5°	318.7
45°	287.1
47.5°	255.6
50°	230.3
52.5°	208.2
55°	189.3
57.5°	173.5
60°	160.9
62.5°	151.4
65°	145.1
67.5°	138.8
70°	129.4
72.5°	123.0
75°	116.7
77.5°	110.4
80°	104.1
82.5°	94.6
85°	88.3
87.5°	82.0
90°	72.6
92.5°	66.3
95°	53.6
97.5°	34.7
100°	25.2
102.5°	15.8
105°	6.3
107.5°	3.2
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)