

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: P702163

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9035-4LBW1LI-FF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702163  
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-35-D010 / 340-EU4C-3040-9035-4LBW1LI-FF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

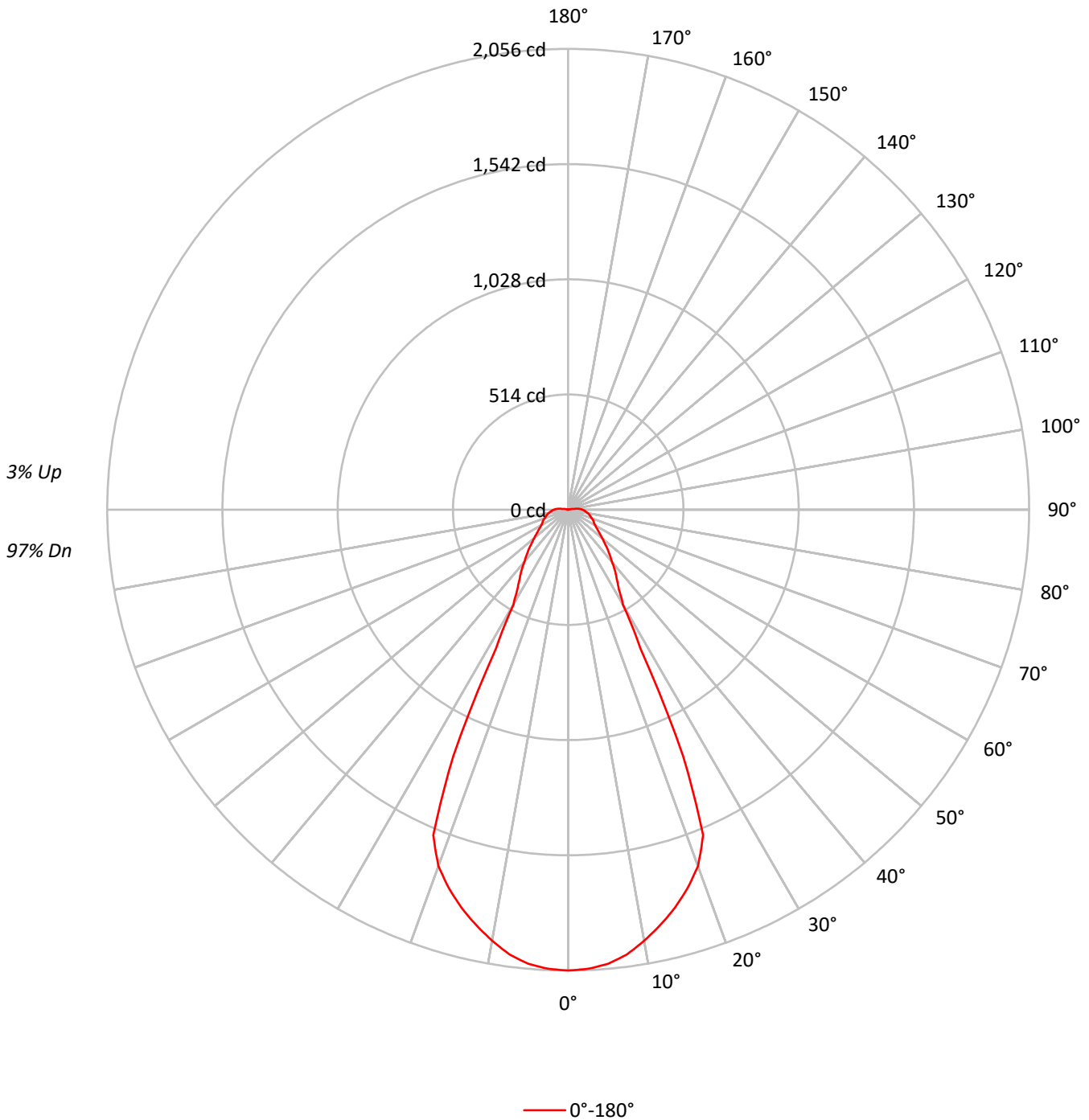
Lumens per Lamp: N/A  
Luminaire Lumens: 2164.7 lumens  
Efficiency: N/A  
Efficacy: 53.6 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 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	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°	238438
5°	206197
10°	176984
15°	151735
20°	129072
25°	86707
30°	33060
35°	24421
40°	18997
45°	15024
50°	11830
55°	9619
60°	8153
65°	7386
70°	6663
75°	6139
80°	5631
85°	4957

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15024 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.6	8.8
10°-20°	515.7	23.8
20°-30°	510.1	23.6
30°-40°	239.3	11.1
40°-50°	191.0	8.8
50°-60°	147.5	6.8
60°-70°	123.8	5.7
70°-80°	106.2	4.9
80°-90°	82.9	3.8
90°-100°	47.8	2.2
100°-110°	8.7	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°	1217.4	56.2
0°-40°	1456.7	67.3
0°-60°	1795.2	82.9
0°-90°	2108.2	97.4
90°-120°	56.5	2.6
90°-150°	56.5	2.6
90°-180°	57.0	2.6
0°-180°	2164.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	2056	
5°	2034	192
15°	1838	516
25°	1214	510
35°	378	239
45°	247	191
55°	163	147
65°	125	124
75°	100	106
85°	76	65
90°	62	35
95°	46	31
105°	5	9
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°	2055.8
2.5°	2050.4
5°	2034.1
7.5°	2001.5
10°	1952.6
12.5°	1898.3
15°	1838.5
17.5°	1770.7
20°	1691.9
22.5°	1572.4
25°	1213.9
27.5°	697.9
30°	488.8
32.5°	420.9
35°	377.5
37.5°	342.2
40°	304.2
42.5°	274.3
45°	247.1
47.5°	220.0
50°	198.2
52.5°	179.2
55°	162.9
57.5°	149.4
60°	138.5
62.5°	130.4
65°	124.9
67.5°	119.5
70°	111.3
72.5°	105.9
75°	100.5
77.5°	95.1
80°	89.6
82.5°	81.5
85°	76.0
87.5°	70.6
90°	62.5
92.5°	57.0
95°	46.2
97.5°	29.9
100°	21.7
102.5°	13.6
105°	5.4
107.5°	2.7
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)