

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: P702142

Luminaire Tested: 340-4C-35-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702142  
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-3040-9024-4LBW1LI-FF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. FLARED FROSTED GLASS KIT.  
Light Source: 2400K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

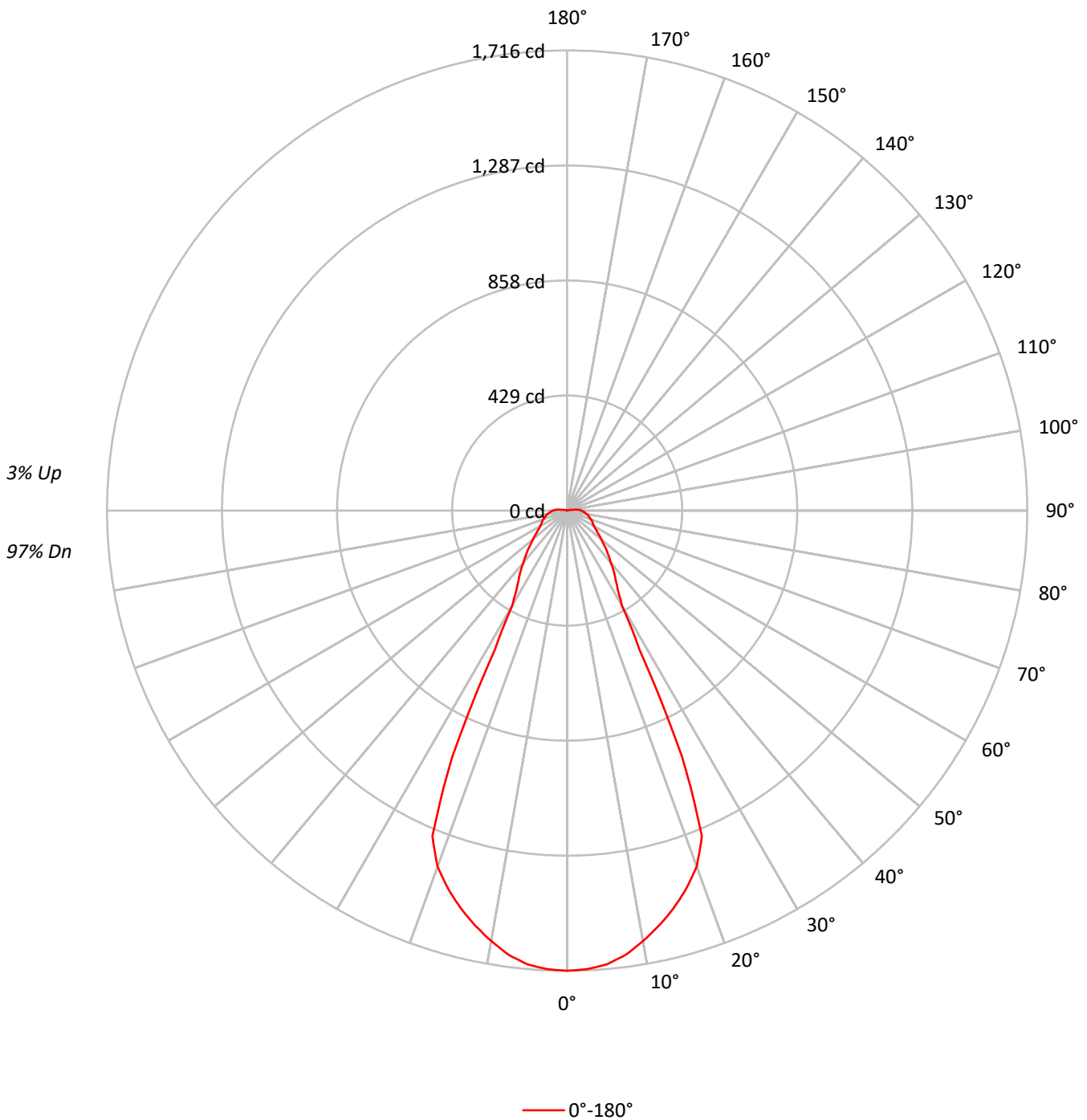
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1807.1 lumens  
Efficiency: N/A  
Efficacy: 44.7 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	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°	199062
5°	172147
10°	147752
15°	126678
20°	107757
25°	72393
30°	27602
35°	20384
40°	15856
45°	12544
50°	9878
55°	8031
60°	6805
65°	6168
70°	5568
75°	5125
80°	4701
85°	4141

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12544 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.9	8.8
10°-20°	430.5	23.8
20°-30°	425.9	23.6
30°-40°	199.7	11.1
40°-50°	159.5	8.8
50°-60°	123.1	6.8
60°-70°	103.4	5.7
70°-80°	88.7	4.9
80°-90°	69.2	3.8
90°-100°	39.9	2.2
100°-110°	7.2	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°	1016.3	56.2
0°-40°	1216.1	67.3
0°-60°	1498.7	82.9
0°-90°	1760.0	97.4
90°-120°	47.2	2.6
90°-150°	47.2	2.6
90°-180°	47.0	2.6
0°-180°	1807.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1716	
5°	1698	160
15°	1535	431
25°	1014	426
35°	315	200
45°	206	159
55°	136	123
65°	104	103
75°	84	89
85°	64	54
90°	52	29
95°	38	26
105°	4	7
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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CATALOG NUMBER: 340-4C-35-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1716.3
2.5°	1711.8
5°	1698.2
7.5°	1671.0
10°	1630.1
12.5°	1584.8
15°	1534.9
17.5°	1478.2
20°	1412.5
22.5°	1312.7
25°	1013.5
27.5°	582.7
30°	408.1
32.5°	351.4
35°	315.1
37.5°	285.7
40°	253.9
42.5°	229.0
45°	206.3
47.5°	183.6
50°	165.5
52.5°	149.6
55°	136.0
57.5°	124.7
60°	115.6
62.5°	108.8
65°	104.3
67.5°	99.8
70°	93.0
72.5°	88.4
75°	83.9
77.5°	79.4
80°	74.8
82.5°	68.0
85°	63.5
87.5°	58.9
90°	52.1
92.5°	47.6
95°	38.5
97.5°	24.9
100°	18.1
102.5°	11.3
105°	4.5
107.5°	2.3
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)