

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: P702030

Luminaire Tested: 340-4C-25-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702030  
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-25-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**

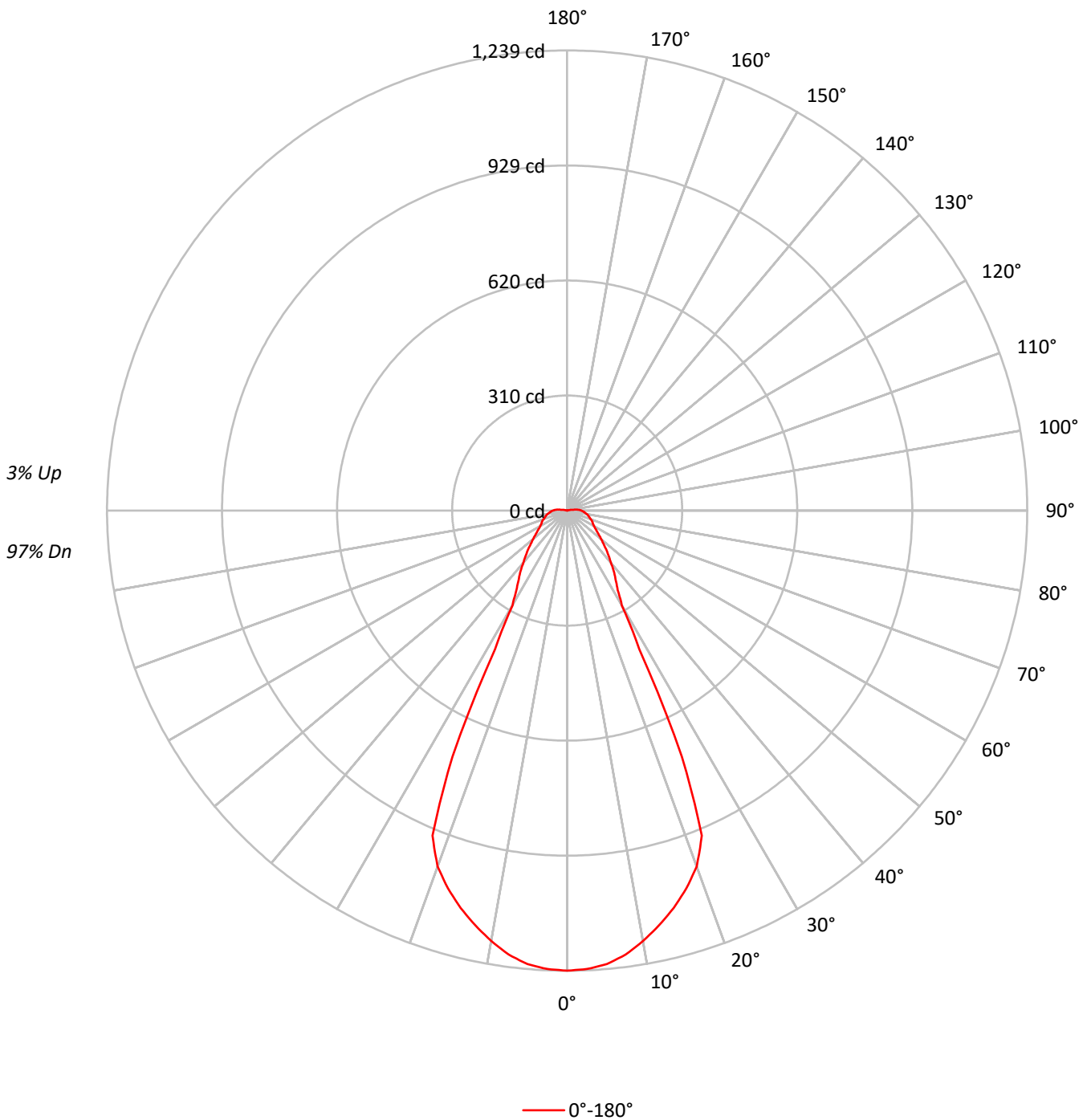
Lumens per Lamp: N/A  
Luminaire Lumens: 1304.4 lumens  
Efficiency: N/A  
Efficacy: 41.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.73  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct

Input Watts (W): 31.5  
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

TEST NUMBER: P702030

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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°	143668
5°	124239
10°	106638
15°	91429
20°	77776
25°	52250
30°	19918
35°	14717
40°	11447
45°	9054
50°	7132
55°	5799
60°	4916
65°	4453
70°	4017
75°	3696
80°	3394
85°	2987

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 9054 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	8.8
10°-20°	310.7	23.8
20°-30°	307.4	23.6
30°-40°	144.2	11.1
40°-50°	115.1	8.8
50°-60°	88.9	6.8
60°-70°	74.6	5.7
70°-80°	64.0	4.9
80°-90°	50.0	3.8
90°-100°	28.8	2.2
100°-110°	5.2	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°	733.5	56.2
0°-40°	877.7	67.3
0°-60°	1081.7	82.9
0°-90°	1270.3	97.4
90°-120°	34.1	2.6
90°-150°	34.1	2.6
90°-180°	34.0	2.6
0°-180°	1304.4	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1239	
5°	1226	115
15°	1108	311
25°	732	307
35°	228	144
45°	149	115
55°	98	89
65°	75	75
75°	60	64
85°	46	39
90°	38	21
95°	28	19
105°	3	5
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-25-D010 / 340-EU4C-3040-9024-4LBW1LI-FF

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1238.7
2.5°	1235.5
5°	1225.6
7.5°	1206.0
10°	1176.5
12.5°	1143.8
15°	1107.8
17.5°	1066.9
20°	1019.5
22.5°	947.5
25°	731.5
27.5°	420.5
30°	294.5
32.5°	253.6
35°	227.5
37.5°	206.2
40°	183.3
42.5°	165.3
45°	148.9
47.5°	132.5
50°	119.5
52.5°	108.0
55°	98.2
57.5°	90.0
60°	83.5
62.5°	78.5
65°	75.3
67.5°	72.0
70°	67.1
72.5°	63.8
75°	60.5
77.5°	57.3
80°	54.0
82.5°	49.1
85°	45.8
87.5°	42.5
90°	37.6
92.5°	34.4
95°	27.8
97.5°	18.0
100°	13.1
102.5°	8.2
105°	3.3
107.5°	1.6
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)