

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: P701825

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CF

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701825
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-4)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CF
Description: FARALLON 4" LED GLASS DOWNLIGHT. CYLINDRICAL FROSTED GLASS KIT.
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

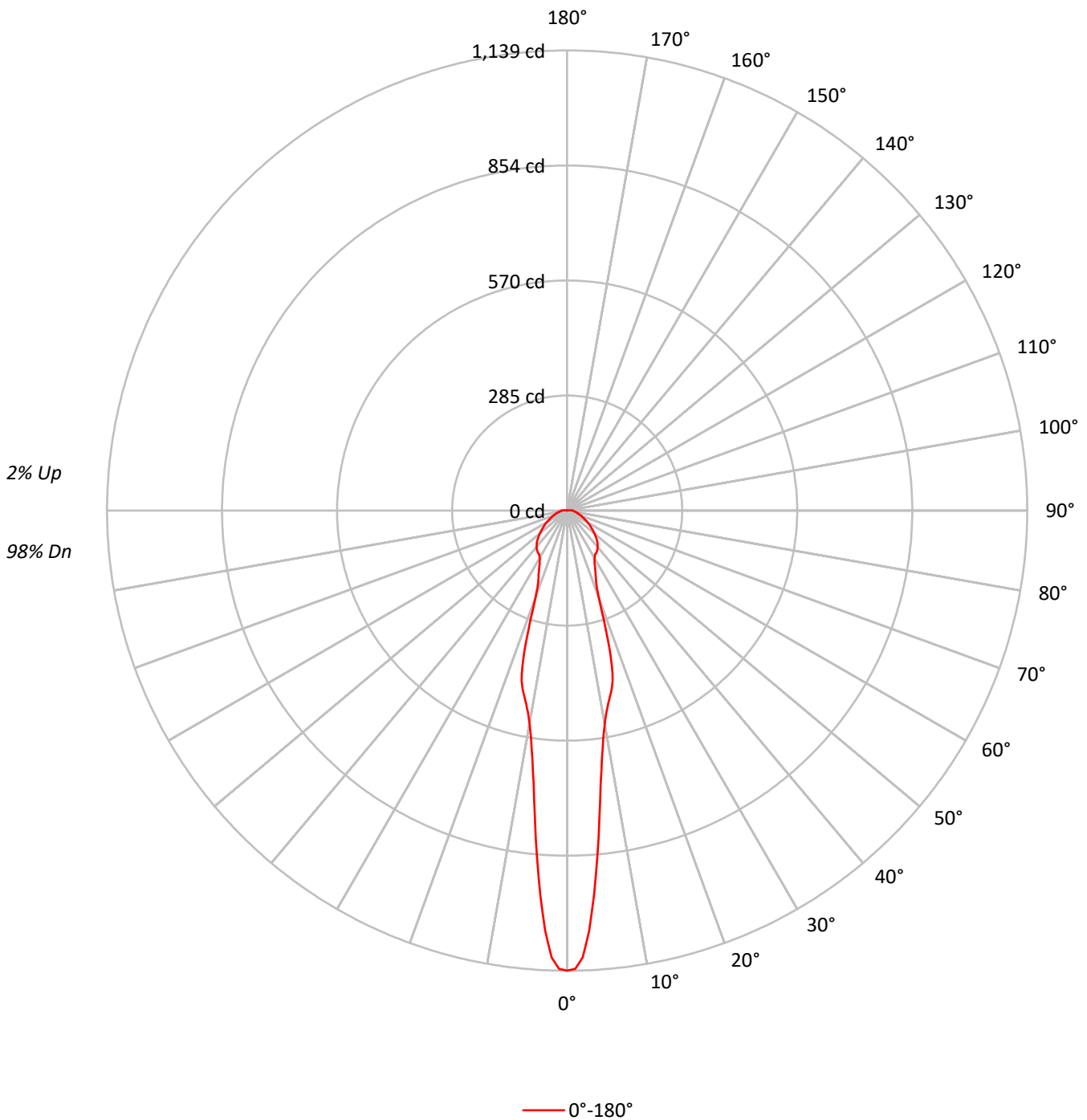
Lumens per Lamp: N/A
Luminaire Lumens: 589.5 lumens
Efficiency: N/A
Efficacy: 59.5 lumens/watt
Spacing Criteria (0/90/45): 0.3 / 0.3 / 0.45
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 9.9
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: P701825

CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CF

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	98	92	86	82	88	83	80		85	81	77		81	78	75	73
3	94	85	78	72	91	83	76	71	80	74	70		77	72	68		74	70	67	65
4	87	77	70	64	85	76	69	63	73	67	62		71	65	61		68	64	60	58
5	82	71	63	57	80	70	62	57	67	61	56		65	60	55		63	59	55	53
6	77	65	58	52	75	64	57	52	62	56	51		61	55	51		59	54	50	48
7	72	61	53	48	71	60	53	48	58	52	47		57	51	47		55	50	46	45
8	69	57	49	44	67	56	49	44	55	48	44		53	48	43		52	47	43	41
9	65	53	46	41	64	53	46	41	52	45	41		50	45	41		49	44	40	39
10	62	50	43	39	61	50	43	39	49	43	39		48	42	38		47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	132082
5°	87178
10°	48492
15°	35918
20°	17333
25°	11800
30°	9171
35°	8196
40°	7350
45°	6366
50°	5258
55°	4269
60°	3444
65°	2726
70°	2143
75°	1723
80°	1383
85°	1122

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6366 cd/sqm

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CATALOG NUMBER: 340-4C-08-D010 / 340-EU4C-1020-9035-4LBW1LI-CF

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.4	11.9
10°-20°	111.0	18.8
20°-30°	77.1	13.1
30°-40°	79.1	13.4
40°-50°	80.1	13.6
50°-60°	65.0	11.0
60°-70°	45.9	7.8
70°-80°	30.0	5.1
80°-90°	18.9	3.2
90°-100°	10.1	1.7
100°-110°	1.9	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°	258.5	43.9
0°-40°	337.6	57.3
0°-60°	482.7	81.9
0°-90°	577.4	97.9
90°-120°	12.1	2.1
90°-150°	12.1	2.1
90°-180°	12.0	2.0
0°-180°	589.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1139	
5°	860	70
15°	435	111
25°	165	77
35°	127	79
45°	105	80
55°	72	65
65°	46	46
75°	28	30
85°	17	15
90°	13	7
95°	10	7
105°	1	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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CANDELA DISTRIBUTION (FULL):

0°	
0°	1138.8
1°	1134.7
2°	1106.5
3°	1041.8
4°	954.3
5°	860.0
6°	765.0
7°	679.6
8°	618.3
9°	570.1
10°	535.0
11°	509.5
12°	488.9
13°	471.6
14°	455.1
15°	435.2
16°	403.5
17°	360.1
18°	310.5
19°	263.0
20°	227.2
21°	205.2
22°	190.7
23°	181.8
24°	173.5
25°	165.2
27.5°	147.3
30°	135.6
32.5°	128.8
35°	126.7
37.5°	122.6
40°	117.7
42.5°	111.5
45°	104.7
47.5°	96.4
50°	88.1
52.5°	79.9
55°	72.3
57.5°	65.4
60°	58.5
62.5°	51.6
65°	46.1
67.5°	40.6
70°	35.8
72.5°	31.7

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CANDELA DISTRIBUTION (continued):

	0°
75°	28.2
77.5°	24.8
80°	22.0
82.5°	19.3
85°	17.2
87.5°	15.1
90°	13.1
92.5°	11.7
95°	9.6
97.5°	6.9
100°	4.8
102.5°	2.8
105°	1.4
107.5°	0.7
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)