

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: P701945

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701945
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-5)
Test Lab: INNOVATION CENTER
Issue Date: 8/30/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: SHAPER
Catalog Number: 340-4C-15-D010 / 340-EU4C-1020-9040-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

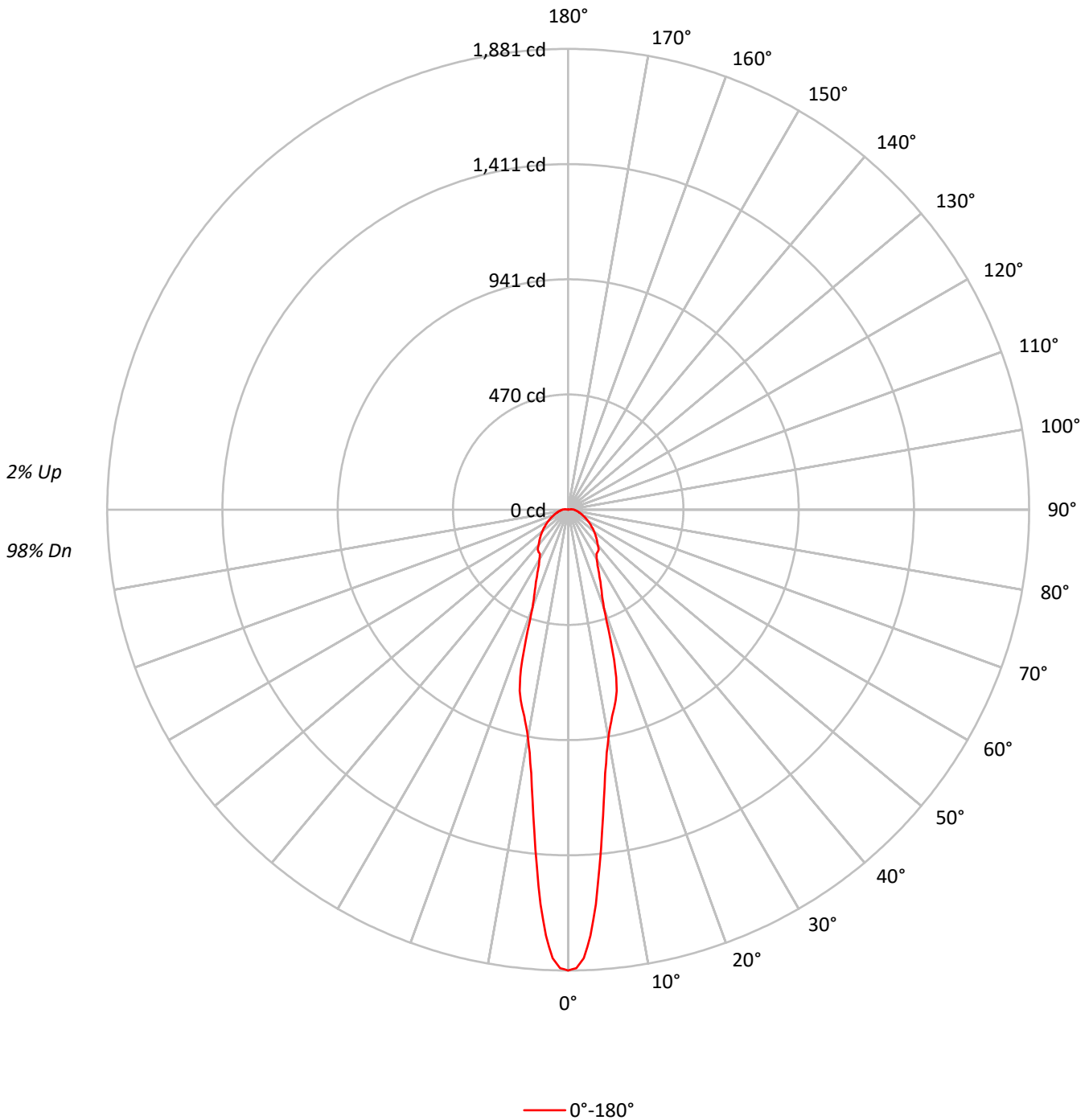
Lumens per Lamp: N/A
Luminaire Lumens: 1002.4 lumens
Efficiency: N/A
Efficacy: 63.4 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

Input Watts (W): 15.8
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	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	99	92	87	82	88	84	80	85	81	78	81	78	76	74				
3	94	85	78	72	92	83	77	72	80	75	70	77	73	69	75	71	67	65				
4	88	78	70	64	86	76	69	64	74	68	63	71	66	62	69	64	61	59				
5	82	71	64	58	80	70	63	58	68	62	57	66	60	56	64	59	55	53				
6	77	66	58	53	76	65	58	53	63	57	52	61	56	52	60	55	51	49				
7	73	62	54	49	71	61	54	49	59	53	48	58	52	48	56	51	47	45				
8	69	58	50	45	68	57	50	45	55	49	45	54	49	44	53	48	44	42				
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	50	45	41	40				
10	63	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	37				

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	218176
5°	148477
10°	85582
15°	63137
20°	32507
25°	21614
30°	15799
35°	13624
40°	11715
45°	9862
50°	8236
55°	6791
60°	5557
65°	4512
70°	3622
75°	2957
80°	2432
85°	1976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 9862 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	12.1
10°-20°	197.5	19.7
20°-30°	141.3	14.1
30°-40°	131.5	13.1
40°-50°	125.2	12.5
50°-60°	103.1	10.3
60°-70°	75.8	7.6
70°-80°	51.8	5.2
80°-90°	33.3	3.3
90°-100°	18.3	1.8
100°-110°	3.4	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°	460.0	45.9
0°-40°	591.5	59.0
0°-60°	819.8	81.8
0°-90°	980.7	97.8
90°-120°	21.7	2.2
90°-150°	21.7	2.2
90°-180°	22.0	2.2
0°-180°	1002.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1881	
5°	1465	121
15°	765	197
25°	303	141
35°	211	132
45°	162	125
55°	115	103
65°	76	76
75°	48	52
85°	30	26
90°	24	13
95°	17	12
105°	2	3
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°	1881.1
1°	1871.4
2°	1831.4
3°	1740.6
4°	1614.8
5°	1464.7
6°	1321.8
7°	1193.5
8°	1085.8
9°	1004.7
10°	944.2
11°	899.4
12°	861.9
13°	831.6
14°	801.3
15°	765.0
16°	711.8
17°	641.5
18°	559.2
19°	483.0
20°	426.1
21°	391.0
22°	365.6
23°	343.8
24°	323.2
25°	302.6
27.5°	260.2
30°	233.6
32.5°	214.3
35°	210.6
37.5°	204.6
40°	187.6
42.5°	174.3
45°	162.2
47.5°	150.1
50°	138.0
52.5°	125.9
55°	115.0
57.5°	104.1
60°	94.4
62.5°	84.7
65°	76.3
67.5°	67.8
70°	60.5
72.5°	54.5

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CANDELA DISTRIBUTION (continued):

	0°
75°	48.4
77.5°	43.6
80°	38.7
82.5°	33.9
85°	30.3
87.5°	26.6
90°	24.2
92.5°	21.8
95°	16.9
97.5°	12.1
100°	8.5
102.5°	4.8
105°	2.4
107.5°	1.2
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)