

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: P701952

Luminaire Tested: 340-4C-15-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

Issue Date: 8/30/2023

Test Information

Test Method: LM-79-2019
Report Number: P701952
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-1020-9050-4LBW1LI-CQ
Description: FARALLON 4" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

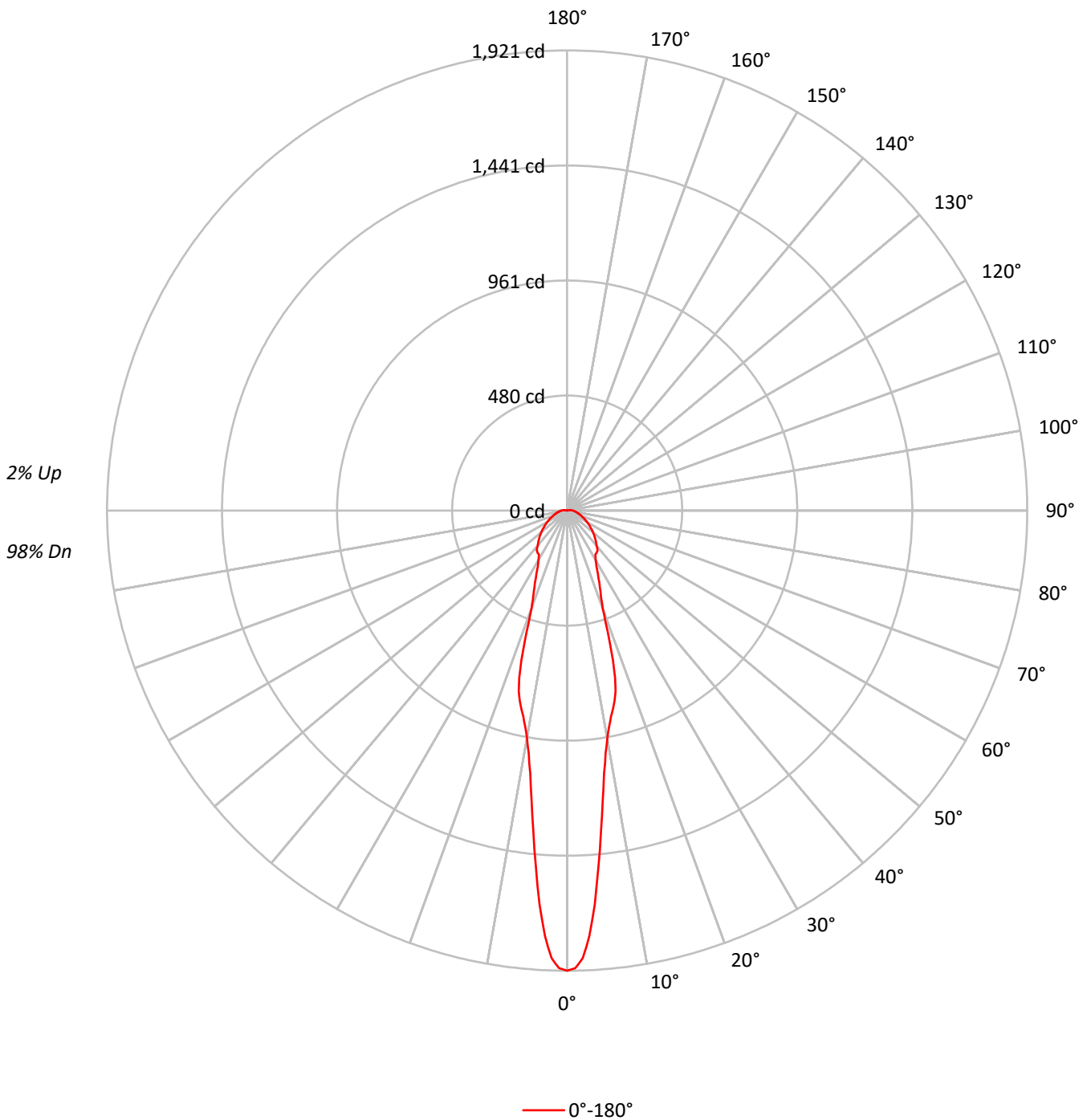
Lumens per Lamp: N/A
Luminaire Lumens: 1023.5 lumens
Efficiency: N/A
Efficacy: 64.8 lumens/watt
Spacing Criteria (0/90/45): 0.33 / 0.33 / 0.46
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')
CIE Type: Direct

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

TEST NUMBER: P701952

CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

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	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°	222769
5°	151599
10°	87377
15°	64466
20°	33193
25°	22071
30°	16131
35°	13915
40°	11965
45°	10069
50°	8410
55°	6932
60°	5675
65°	4607
70°	3700
75°	3018
80°	2489
85°	2015

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 10069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	12.1
10°-20°	201.6	19.7
20°-30°	144.2	14.1
30°-40°	134.3	13.1
40°-50°	127.9	12.5
50°-60°	105.2	10.3
60°-70°	77.4	7.6
70°-80°	52.9	5.2
80°-90°	34.0	3.3
90°-100°	18.7	1.8
100°-110°	3.5	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°	469.7	45.9
0°-40°	604.0	59.0
0°-60°	837.1	81.8
0°-90°	1001.3	97.8
90°-120°	22.2	2.2
90°-150°	22.2	2.2
90°-180°	22.0	2.1
0°-180°	1023.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1921	
5°	1496	124
15°	781	202
25°	309	144
35°	215	134
45°	166	128
55°	117	105
65°	78	77
75°	49	53
85°	31	27
90°	25	14
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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CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

CANDELA DISTRIBUTION (FULL):

0°	
0°	1920.7
1°	1910.8
2°	1870.0
3°	1777.3
4°	1648.8
5°	1495.5
6°	1349.7
7°	1218.6
8°	1108.6
9°	1025.8
10°	964.0
11°	918.3
12°	880.0
13°	849.1
14°	818.2
15°	781.1
16°	726.7
17°	655.1
18°	571.0
19°	493.1
20°	435.1
21°	399.2
22°	373.3
23°	351.0
24°	330.0
25°	309.0
27.5°	265.7
30°	238.5
32.5°	218.8
35°	215.1
37.5°	208.9
40°	191.6
42.5°	178.0
45°	165.6
47.5°	153.3
50°	140.9
52.5°	128.5
55°	117.4
57.5°	106.3
60°	96.4
62.5°	86.5
65°	77.9
67.5°	69.2
70°	61.8
72.5°	55.6

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CATALOG NUMBER: 340-4C-15-D010 / 340-EU4C-1020-9050-4LBW1LI-CQ

CANDELA DISTRIBUTION (continued):

	0°
75°	49.4
77.5°	44.5
80°	39.6
82.5°	34.6
85°	30.9
87.5°	27.2
90°	24.7
92.5°	22.2
95°	17.3
97.5°	12.4
100°	8.7
102.5°	4.9
105°	2.5
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)