

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: P702442

Luminaire Tested: 340-6C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P702442  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-6C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ  
Description: FARALLON 6" LED GLASS DOWNLIGHT CYLINDRICAL FROSTED, QUADRATE ETCHED GLASS KIT.  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

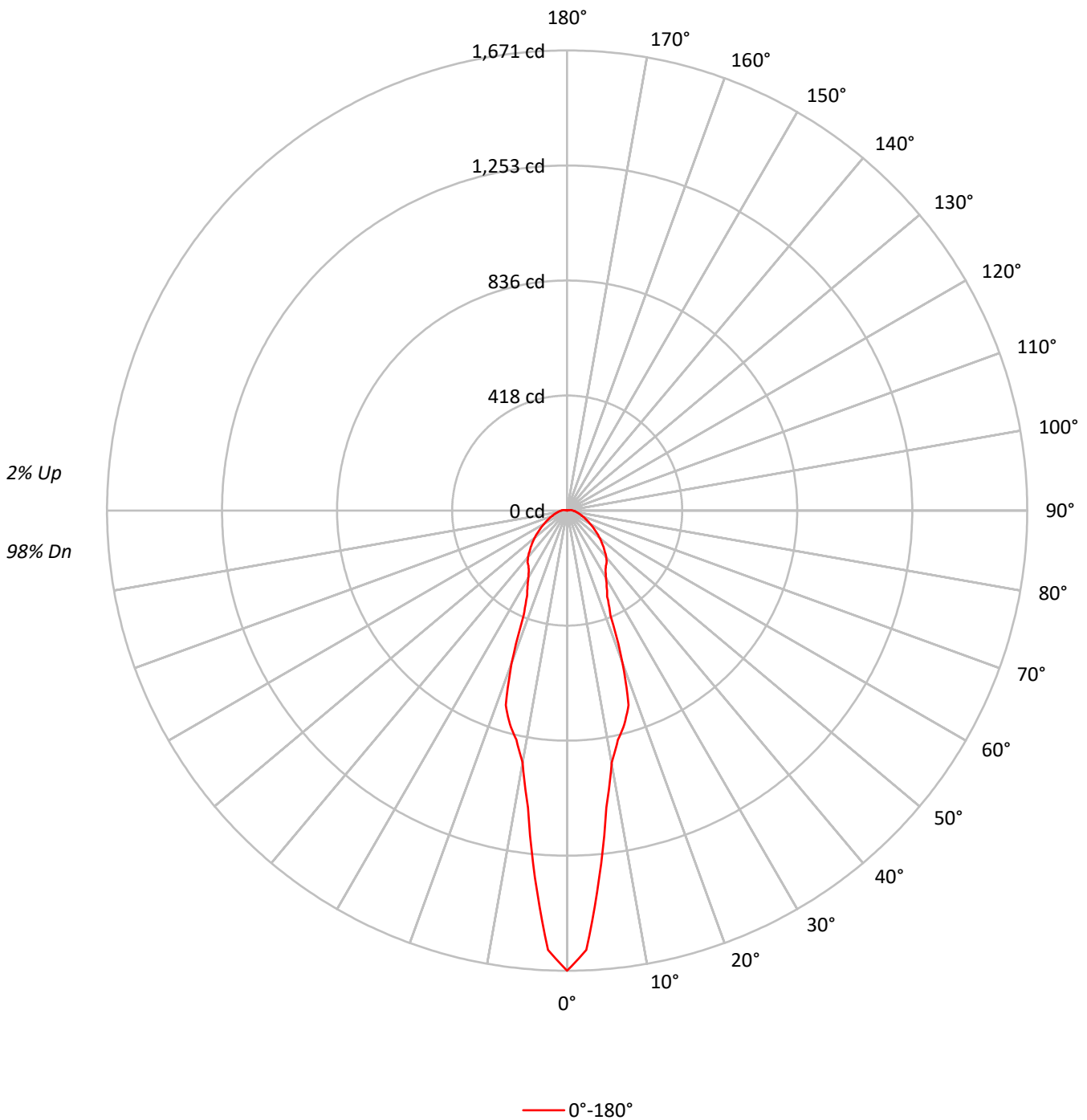
Lumens per Lamp: N/A  
Luminaire Lumens: 1092.5 lumens  
Efficiency: N/A  
Efficacy: 69.1 lumens/watt  
Spacing Criteria (0/90/45): 0.4 / 0.4 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.46' x H: 0.49')  
CIE Type: Direct

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: P702442

CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

### Luminous Intensity Polar Plot



TEST NUMBER: P702442

CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

**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	110	105	102	98	107	103	100	97	98	96	93		94	92	90		90	89	87	85
2	102	95	89	84	99	93	87	83	89	84	81		85	82	78		82	79	76	74
3	95	86	79	73	92	84	78	72	81	75	71		78	73	70		75	71	68	66
4	88	78	71	65	86	77	70	64	74	68	63		72	67	62		69	65	61	59
5	83	72	64	58	81	71	63	58	68	62	57		66	61	57		64	60	56	54
6	78	66	59	53	76	65	58	53	63	57	52		62	56	52		60	55	51	49
7	73	62	54	49	71	61	54	49	59	53	48		58	52	48		56	51	47	46
8	69	58	50	45	68	57	50	45	55	49	45		54	48	44		53	48	44	42
9	66	54	47	42	64	53	47	42	52	46	42		51	45	41		50	45	41	40
10	62	51	44	40	61	50	44	39	49	43	39		48	43	39		47	42	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	109004
5°	78302
10°	49682
15°	39775
20°	27367
25°	15170
30°	11896
35°	9991
40°	8774
45°	7279
50°	5976
55°	4732
60°	3768
65°	2968
70°	2364
75°	1904
80°	1539
85°	1271

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 7279 cd/sqm

TEST NUMBER: P702442

CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.3	10.5
10°-20°	219.4	20.1
20°-30°	170.3	15.6
30°-40°	155.0	14.2
40°-50°	143.7	13.2
50°-60°	110.6	10.1
60°-70°	75.7	6.9
70°-80°	49.2	4.5
80°-90°	30.6	2.8
90°-100°	17.7	1.6
100°-110°	5.6	0.5
110°-120°	0.2	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°	504.1	46.1
0°-40°	659.1	60.3
0°-60°	913.5	83.6
0°-90°	1069.0	97.8
90°-120°	23.5	2.2
90°-150°	23.5	2.2
90°-180°	24.0	2.2
0°-180°	1092.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1671	
5°	1338	114
15°	804	219
25°	344	170
35°	245	155
45°	186	144
55°	122	111
65°	75	76
75°	46	49
85°	28	24
90°	20	12
95°	17	12
105°	5	6
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	0

TEST NUMBER: P702442

CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1670.8
2.5°	1596.8
5°	1337.9
7.5°	1087.9
10°	929.8
12.5°	852.0
15°	803.5
17.5°	741.0
20°	589.3
22.5°	412.0
25°	344.4
27.5°	311.2
30°	281.9
32.5°	258.9
35°	244.9
37.5°	236.0
40°	220.6
42.5°	202.8
45°	186.2
47.5°	169.6
50°	154.3
52.5°	137.7
55°	122.4
57.5°	109.7
60°	96.9
62.5°	85.5
65°	75.3
67.5°	67.6
70°	58.7
72.5°	52.3
75°	45.9
77.5°	40.8
80°	35.7
82.5°	31.9
85°	28.1
87.5°	24.2
90°	20.4
92.5°	19.1
95°	16.6
97.5°	14.0
100°	10.2
102.5°	7.7
105°	5.1
107.5°	2.6
110°	1.3

TEST NUMBER: P702442

CATALOG NUMBER: 340-6C-15-D010 / 340-EU4C-1020-9035-4LBW1LI-CQ

**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)