

# CL5

## LUMINAIRE BASE AND POLE

### SPECIFICATIONS

**Base**

CL5 Series  
Height: 23"  
Width: 17"

**Holder**

4" OD Pole Capacity

**Fasteners**

Stainless Steel

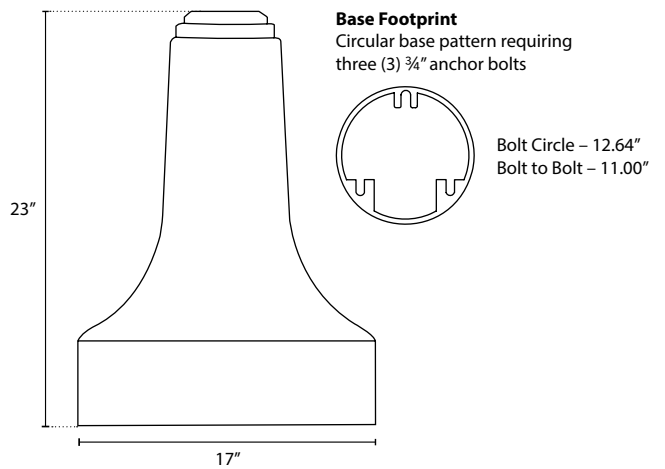
**Finish**

Polyester Powder-Coat Electrostatically Applied & Thermocured

**Pole**

.125" Wall Extruded Aluminum

### DIMENSIONS



### ORDERING

BASE	HEIGHT	STYLE
<b>CL5</b>		
	<b>0</b> 9'8"	<b>S</b> Smooth
	<b>1</b> 10'8"	
	<b>2</b> 11'8"	
	<b>3</b> 12'8"	
	<b>4</b> 13'8"	
	<b>5</b> 14'8"	

**EPA DATA - POLE AND BASE**

Maximum Allowable Effective Projected Area (EPA) for wind speed with 3-second gust.

PRODUCT	BASE			ANCHOR		POLE			MAX EPA - POST TOP FIXTURE (FT <sup>2</sup> ) WIND SPEED - MPH								
	H	Hgt	Dia	Qty	Dia	OD	Wall	Length	105	110	120	130	140	150	160	170	180

**CL5 FLUTED POLE**

CL50F	9'8"	23"	17"	3	3/4"	4"	0.125	8'0"	7.63	6.89	5.60	4.60	3.80	3.16	2.63	2.19	1.83
CL51F	10'8"	23"	17"	3	3/4"	4"	0.125	9'0"	6.57	5.92	4.76	3.85	3.13	2.55	2.08	1.68	1.35
CL52F	11'8"	23"	17"	3	3/4"	4"	0.125	10'0"	5.67	5.10	4.03	3.21	2.55	2.02	1.59	1.23	0.93
CL53F	12'8"	23"	17"	3	3/4"	4"	0.125	11'0"	4.89	4.37	3.40	2.64	2.03	1.55	1.15	0.82	0.54
CL54F	13'8"	23"	17"	3	3/4"	4"	0.125	12'0"	4.20	3.73	2.83	2.12	1.57	1.12	0.75	0.44	0.19
CL55F	14'8"	23"	17"	3	3/4"	4"	0.125	13'0"	3.59	3.15	2.31	1.66	1.14	0.72	0.38	0.09	

**CL5 SMOOTH POLE**

CL50S	9'8"	23"	17"	3	3/4"	4"	0.125	8'0"	7.63	6.89	5.60	4.60	3.80	3.16	2.63	2.19	1.83
CL51S	10'8"	23"	17"	3	3/4"	4"	0.125	9'0"	6.57	5.92	4.76	3.85	3.13	2.55	2.08	1.68	1.35
CL52S	11'8"	23"	17"	3	3/4"	4"	0.125	10'0"	5.67	5.10	4.03	3.21	2.55	2.02	1.59	1.23	0.93
CL53S	12'8"	23"	17"	3	3/4"	4"	0.125	11'0"	4.89	4.37	3.40	2.64	2.03	1.55	1.15	0.82	0.54
CL54S	13'8"	23"	17"	3	3/4"	4"	0.125	12'0"	4.20	3.73	2.83	2.12	1.57	1.12	0.75	0.44	0.19
CL55S	14'8"	23"	17"	3	3/4"	4"	0.125	13'0"	3.59	3.15	2.31	1.66	1.14	0.72	0.38	0.09	

**NOTES**

- The pole material is aluminum extrusion per ASTM B221 alloy 6005 Temper T5 (35 ksi yield strength min, 15 ksi at welds per Table A.3.5 of the Aluminum Design Manual, 2010).
- The pole is welded onto a cast aluminum base. Construction of the pole is continuous, with the exception of AB4, which requires a hand hole.
- The maximum allowable EPA for signage is derived from:
  - The maximum allowable bending stress at the welded joint between the pole and the base,
  - The maximum deflection at the top end of the pole being  $\leq 5\%$  of the exposed pole length with a 100-lb force applied at the top of pole, and
  - The projected area of pole and sign combined.
- The geometric center of the light fixture area is along the centerline of the light pole (i.e. symmetric wind loading) and centered at height, H plus half of the fixture height, above the ground.
- The fixture is defined as the structure mounted to the top of the light pole.
- The fixture height is assumed to be 38 in.
- Pole bases and anchorage are to be engineered by others.
- Reference ASCE 7-10 for wind forces. Exposure C category. Consult ASCE 7-10 for basic wind speeds in the desired site locations.
- The lights are not located near ridges, escarpments, or axisymmetric hills. Consult with an engineer for these applications.
- Local codes and standards applied by others.
- View the wind zone map of the US here: [BrandonIndustries.com/EPA-Wind/](http://BrandonIndustries.com/EPA-Wind/)