

CL7

LUMINAIRE BASE AND POLE

SPECIFICATIONS

Base

CL7 Series
Height: 25.5"
Width: 20"

Holder

5" OD Pole Capacity

Fasteners

Stainless Steel

Finish

Polyester Powder-Coat Electrostatically Applied & Thermocured

Pole

.125" Wall Extruded Aluminum

DIMENSIONS

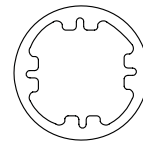


ORDERING

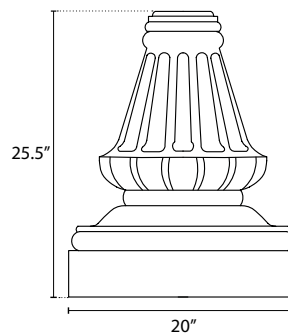
BASE	HEIGHT	STYLE
CL7		
	0 9'10"	S Smooth
	1 10'10"	F Fluted
	2 11'10"	
	3 12'10"	
	4 13'10"	
	5 14'10"	

Base Footprint

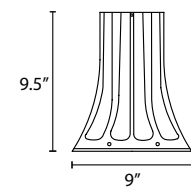
Circular base pattern requiring four (4) 3/4" anchor bolts



Bolt Circle – 14.875"
Bolt to Bolt – 10.50"



Access Door



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 ²) WIND SPEED - MPH								
	H	Hgt	Dia	Qty	Dia	OD	Wall	Length	105	110	120	130	140	150	160	170	180

CL7 FLUTED POLE

CL70F	9'10"	24"	20"	4	3/4"	5"	0.188	8'0"	17.19	15.53	12.81	10.69	9.01	7.65	6.54	5.62	4.85
CL71F	10'10"	24"	20"	4	3/4"	5"	1.188	9'0"	15.17	13.66	11.20	9.29	7.77	6.54	5.54	4.71	4.01
CL72F	11'10"	24"	20"	4	3/4"	5"	2.188	10'0"	13.46	12.09	9.84	8.09	6.71	5.59	4.67	3.91	3.28
CL73F	12'10"	24"	20"	4	3/4"	5"	3.188	11'0"	11.99	10.73	8.66	7.05	5.78	4.75	3.91	3.21	2.63
CL74F	13'10"	24"	20"	4	3/4"	5"	4.188	12'0"	10.70	9.53	7.62	6.14	4.96	4.00	3.22	2.58	2.04
CL75F	14'10"	24"	20"	4	3/4"	5"	5.188	13'0"	9.56	8.47	6.70	5.31	4.21	3.33	2.60	2.00	1.50

CL7 SMOOTH POLE

CL70S	9'10"	24"	20"	4	3/4"	5"	0.188	8'0"	17.19	15.53	12.81	10.69	9.01	7.65	6.54	5.62	4.85
CL71S	10'10"	24"	20"	4	3/4"	5"	1.188	9'0"	15.17	13.66	11.20	9.29	7.77	6.54	5.54	4.71	4.01
CL72S	11'10"	24"	20"	4	3/4"	5"	2.188	10'0"	13.46	12.09	9.84	8.09	6.71	5.59	4.67	3.91	3.28
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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/