

# H-02 Series

Modern Post Top Luminaire

## SPECIFICATIONS

### Post Top

Height: 10" Width: 30"

### Casting

Die Cast Aluminum Globeholder with super durable powder coat finish.

### Post Top EPA

1.2155 (ft<sup>2</sup>)

### LEDs

Available Upon Request

### Mounting

Post-top is secured to pole/tenon with 4x stainless steel set screws. All lighting bases and poles are surface mount and include a template and anchor bolts.

### Pole

Fits all Brandon Industries 3" and 4" poles. Fits all 5" poles with a tenon. All pole heights are dependent on base selection. Refer to Base and Pole chart for exact heights.

### Finish

Finished with Super Durable Tiger Drylac Powder Coat. TIGER Drylac Series 38 complies with AAMA 2604\*. TIGER Drylac Series 38 are weather and UV resistant and can withstand long exposure to harsh environments.

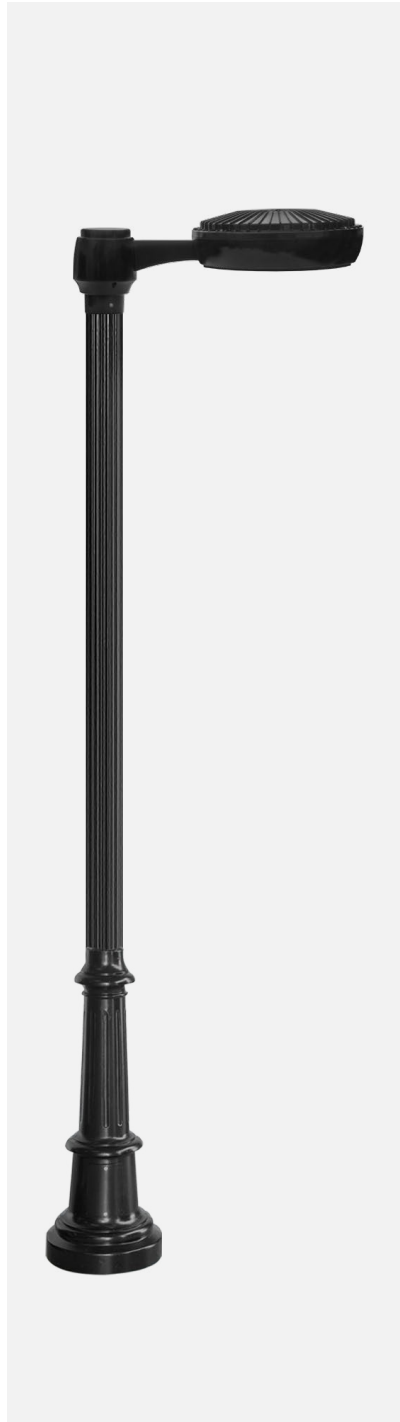
### Warranty

LED Components - 5 Years  
 Aluminum Castings - 1 Year

## ORDERING

CL1-0-F-H02-INT-70W-3000K-IV-BK-P

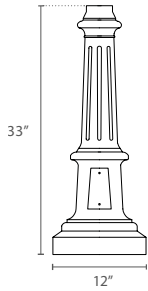
BASE SERIES	POLE HEIGHT *	POLE	POST TOP
SEE PAGE 2 FOR BASE DETAILS	SEE PAGE 2 FOR EXACT POLE HEIGHTS	<b>F</b> Fluted <b>S</b> Smooth	<b>H-02</b>
<b>CL1</b>	<b>0</b>		
<b>CL2</b>	<b>1</b>		
<b>CL5</b>	<b>2</b>		
<b>CL6</b>	<b>3</b>		
<b>CL7</b>	<b>4</b>		
<b>CL8</b>	<b>5</b>		
LAMP TYPE	WATTAGE	CCT	OPTICS
<b>INT</b>			
<b>INT</b> Integrated LED Board	<b>50W</b> <b>80W</b>	<b>3000K</b> <b>4000K</b> <b>5000K</b>	<b>TYPE IV</b> <b>TYPEV</b>
FINISH	OPTIONS	MOUNTING	
<b>BK</b> Black <b>DB</b> Dark Bronze <b>GN</b> Dark Green <b>VG</b> Verde Green	None <b>P</b> Photocell	<b>POLE/TENON</b>	



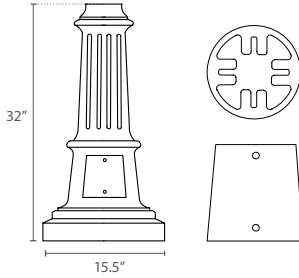
Complete Light Pole Shown Above:  
 CL10F-H02

**OVERALL COMPLETE UNIT HEIGHT**

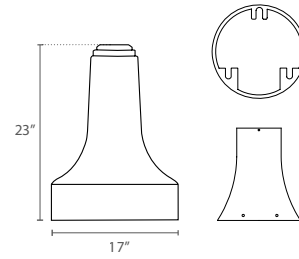
BASE	CL1	CL2	CL5	CL6	CL7	CL8	
POLE DIAMETER	3"	4"	4"	4"	5"	4"	
BASE & POLE HEIGHTS	0	9'4"	10'4"	9'8"	9'10"	9'9"	9'4"
	1	10'4"	11'4"	10'8"	10'10"	10'9"	10'4"
	2	11'4"	12'4"	11'8"	11'10"	11'9"	11'4"
	3	12'4"	13'4"	12'8"	12'10"	12'9"	12'4"
	4	13'4"	14'4"	13'8"	13'10"	13'9"	13'4"
	5	14'4"	15'4"	14'8"	14'10"	14'9"	14'4"

**BASE OPTIONS**

**CL1**

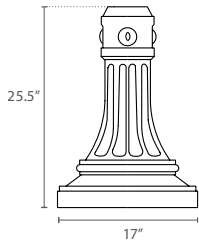
Qty. (3) – 1/2" Anchor Bolts  
 Access Door – 5.5" tall x 4" wide


**CL2**

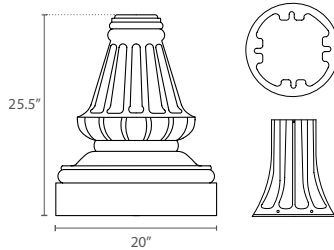
Qty. (4) – 3/4" Anchor Bolts  
 Access Door – 5" tall x 6" wide


**CL5**

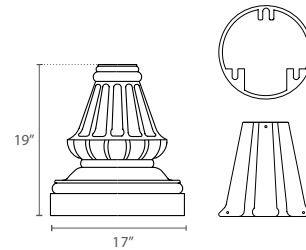
Qty. (3) – 3/4" Anchor Bolts  
 Access Door – 9" tall x 9" wide


**CL6**

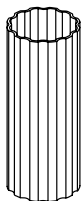
Qty. (4) – 3/4" Anchor Bolts  
 Access Door – 9.5" tall x 11" wide


**CL7**

Qty. (4) – 3/4" Anchor Bolts  
 Access Door – 9.5" tall x 9" wide


**CL8**

Qty. (3) – 3/4" Anchor Bolts  
 Access Door – 7" tall x 7" wide

**POLE OPTIONS**

**FLUTED**

**SMOOTH**

**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
<b>CL1 FLUTED POLE</b>																	
CL10F	9'4"	33"	12"	3	1/2"	3"	0.125	7'0"	4.32	3.87	3.13	2.56	2.10	1.74	1.44	1.19	0.98
CL11F	10'4"	33"	12"	3	1/2"	3"	0.125	8'0"	3.63	3.23	2.57	2.06	1.66	1.33	1.06	0.84	0.66
CL12F	11'4"	33"	12"	3	1/2"	3"	0.125	9'0"	3.05	2.69	2.10	1.64	1.27	0.98	0.74	0.54	0.37
CL13F	12'4"	33"	12"	3	1/2"	3"	0.125	10'0"	2.55	2.22	1.68	1.27	0.93	0.66	0.44	0.26	0.11
CL14F	13'4"	33"	12"	3	1/2"	3"	0.125	11'0"	2.11	1.81	1.31	0.93	0.62	0.38	0.18	0.01	
CL15F	14'4"	33"	12"	3	1/2"	3"	0.125	12'0"									
<b>CL2 FLUTED POLE</b>																	
CL20F	10'4"	32"	12"	4	1/2"	4"	0.125	8'0"	7.73	6.93	5.64	4.63	3.83	3.18	2.65	2.22	1.85
CL21F	11'4"	32"	12"	4	1/2"	4"	0.125	9'0"	6.68	5.96	4.79	3.88	3.16	2.57	2.10	1.70	1.37
CL22F	12'4"	32"	12"	4	1/2"	4"	0.125	10'0"	5.78	5.13	4.06	3.23	2.57	2.04	1.61	1.25	0.95
CL23F	13'4"	32"	12"	4	1/2"	4"	0.125	11'0"	5.00	4.40	3.42	2.66	2.05	1.57	1.17	0.84	0.56
CL24F	14'4"	32"	12"	4	1/2"	4"	0.125	12'0"	4.31	3.75	2.85	2.14	1.59	1.13	0.77	0.46	0.20
CL25F	15'4"	32"	12"	4	1/2"	4"	0.125	13'0"	3.69	3.17	2.33	1.68	1.16	0.74	0.39	0.11	
<b>CL5 FLUTED POLE</b>																	
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	
<b>CL6 FLUTED POLE</b>																	
CL60F	9'10"	25.5"	17"	4	3/4"	4"	0.125	8'0"	7.68	6.89	5.60	4.60	3.80	3.16	2.63	2.19	1.83
CL61F	10'10"	25.5"	17"	4	3/4"	4"	0.125	9'0"	6.64	5.92	4.76	3.85	3.13	2.55	2.08	1.68	1.35
CL62F	11'10"	25.5"	17"	4	3/4"	4"	0.125	10'0"	5.74	5.10	4.03	3.21	2.55	2.02	1.59	1.23	0.93
CL63F	12'10"	25.5"	17"	4	3/4"	4"	0.125	11'0"	4.97	4.37	3.40	2.64	2.03	1.55	1.15	0.82	0.54
CL64F	13'10"	25.5"	17"	4	3/4"	4"	0.125	12'0"	4.28	3.73	2.83	2.12	1.57	1.12	0.75	0.44	0.19
CL65F	14'10"	25.5"	17"	4	3/4"	4"	0.125	13'0"	3.66	3.15	2.31	1.66	1.14	0.72	0.38	0.09	
<b>CL7 FLUTED POLE</b>																	
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
<b>CL8 FLUTED POLE</b>																	
CL80F	9'4"	19"	17"	3	3/4"	4"	0.125	8'0"	7.63	6.85	5.56	4.56	3.77	3.13	2.60	2.17	1.81
CL81F	10'4"	19"	17"	3	3/4"	4"	0.125	9'0"	6.60	5.89	4.73	3.82	3.11	2.53	2.05	1.66	1.33
CL82F	11'4"	19"	17"	3	3/4"	4"	0.125	10'0"	5.71	5.06	4.01	3.18	2.53	2.00	1.57	1.21	0.91
CL83F	12'4"	19"	17"	3	3/4"	4"	0.125	11'0"	4.94	4.34	3.37	2.61	2.01	1.53	1.13	0.80	0.53
CL84F	13'4"	19"	17"	3	3/4"	4"	0.125	12'0"	4.25	3.70	2.80	2.10	1.55	1.10	0.73	0.43	0.17
CL85F	14'4"	19"	17"	3	3/4"	4"	0.125	13'0"	3.64	3.13	2.29	1.64	1.12	0.70	0.36	0.08	

**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/)

**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
<b>CL1 SMOOTH POLE</b>																	
CL10S	9'4"	33"	12"	3	1/2"	3"	0.125	7'0"	4.52	4.05	3.29	2.69	2.22	1.84	1.53	1.27	1.05
CL11S	10'4"	33"	12"	3	1/2"	3"	0.125	8'0"	3.81	3.40	2.71	2.18	1.76	1.42	1.14	0.91	0.72
CL12S	11'4"	33"	12"	3	1/2"	3"	0.125	9'0"	3.22	2.84	2.22	1.75	1.37	1.06	0.81	0.60	0.43
CL13S	12'4"	33"	12"	3	1/2"	3"	0.125	10'0"	2.70	2.36	1.80	1.36	1.02	0.74	0.51	0.32	0.16
CL14S	13'4"	33"	12"	3	1/2"	3"	0.125	11'0"	2.25	1.93	1.42	1.02	0.70	0.44	0.24	0.06	
CL15S	14'4"	33"	12"	3	1/2"	3"	0.125	12'0"									
<b>CL2 SMOOTH POLE</b>																	
CL20F	10'4"	32"	12"	4	1/2"	4"	0.125	8'0"	7.73	6.93	5.64	4.63	3.83	3.18	2.65	2.22	1.85
CL21F	11'4"	32"	12"	4	1/2"	4"	0.125	9'0"	6.68	5.96	4.79	3.88	3.16	2.57	2.10	1.70	1.37
CL22F	12'4"	32"	12"	4	1/2"	4"	0.125	10'0"	5.78	5.13	4.06	3.23	2.57	2.04	1.61	1.25	0.95
CL23F	13'4"	32"	12"	4	1/2"	4"	0.125	11'0"	5.00	4.40	3.42	2.66	2.05	1.57	1.17	0.84	0.56
CL24F	14'4"	32"	12"	4	1/2"	4"	0.125	12'0"	4.31	3.75	2.85	2.14	1.59	1.13	0.77	0.46	0.20
CL25F	15'4"	32"	12"	4	1/2"	4"	0.125	13'0"	3.69	3.17	2.33	1.68	1.16	0.74	0.39	0.11	
<b>CL5 SMOOTH POLE</b>																	
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	
<b>CL6 SMOOTH POLE</b>																	
CL60S	9'10"	25.5"	17"	4	3/4"	4"	0.125	8'0"	7.68	6.89	5.60	4.60	3.80	3.16	2.63	2.19	1.83
CL61S	10'10"	25.5"	17"	4	3/4"	4"	0.125	9'0"	6.64	5.92	4.76	3.85	3.13	2.55	2.08	1.68	1.35
CL62S	11'10"	25.5"	17"	4	3/4"	4"	0.125	10'0"	5.74	5.10	4.03	3.21	2.55	2.02	1.59	1.23	0.93
CL63S	12'10"	25.5"	17"	4	3/4"	4"	0.125	11'0"	4.97	4.37	3.40	2.64	2.03	1.55	1.15	0.82	0.54
CL64S	13'10"	25.5"	17"	4	3/4"	4"	0.125	12'0"	4.28	3.73	2.83	2.12	1.57	1.12	0.75	0.44	0.19
CL65S	14'10"	25.5"	17"	4	3/4"	4"	0.125	13'0"	3.66	3.15	2.31	1.66	1.14	0.72	0.38	0.09	
<b>CL7 SMOOTH POLE</b>																	
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
CL73S	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
CL74S	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
CL75S	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
<b>CL8 SMOOTH POLE</b>																	
CL80S	9'4"	19"	17"	3	3/4"	4"	0.125	8'0"	7.63	6.85	5.56	4.56	3.77	3.13	2.60	2.17	1.81
CL81S	10'4"	19"	17"	3	3/4"	4"	0.125	9'0"	6.60	5.89	4.73	3.82	3.11	2.53	2.05	1.66	1.33
CL82S	11'4"	19"	17"	3	3/4"	4"	0.125	10'0"	5.71	5.06	4.01	3.18	2.53	2.00	1.57	1.21	0.91
CL83S	12'4"	19"	17"	3	3/4"	4"	0.125	11'0"	4.94	4.34	3.37	2.61	2.01	1.53	1.13	0.80	0.53
CL84S	13'4"	19"	17"	3	3/4"	4"	0.125	12'0"	4.25	3.70	2.80	2.10	1.55	1.10	0.73	0.43	0.17
CL85S	14'4"	19"	17"	3	3/4"	4"	0.125	13'0"	3.64	3.13	2.29	1.64	1.12	0.70	0.36	0.08	

- 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/)