

# AFR31Q & AFR32Q DuraLED Sculptor II Round Post Tops



Project Name:	<b>Project Information</b>	Fixture Type:
Complete Catalog #:		Date:
Comments:		

The DuraGuard AFR31Q & AFR32Q Sculptor II Architectural Open Round Post Tops are available in Type II, III, IV or V distributions designed to replace HID lighting systems up to 400w MH or HPS. The fixture mounts to a pole top tenon. Typical area lighting applications include parking areas, walkways, and street lighting applications. Mounting heights of 12 to 30 feet can be used based on light level and uniformity requirements.

## SPECIFICATIONS AND FEATURES:



### HOUSING:

Die Cast and Sand Cast Aluminum Housing, Integral Heat Sinking. Photocell Adaptable.

### LISTING & RATINGS:

CSA: Listed for Wet Locations, ANSI/UL 1598, 8750 IP66 Sealed LED Compartment.

### FINISH:

Black Powdercoat Finish Over a Chromate Conversion Coating. Custom Colors Available Upon Request.

### LENS:

Clear UV-Stabilized Polycarbonate Vandal-Resistant Array Lens with Integral Optics or SoftLED LumaLens Opal UV-Stabilized Polycarbonate Vandal-Resistant Lens. Gasketed to Seal LED Array.

### MOUNTING:

Accommodates "P3" 2 1/4" O.D. x 3" Tenons

### DURALED LED:

Aluminum Boards

### WATTAGE:

37w Array: 37w, System: 41w; (70-150w HID Equivalent)  
65w Array: 65.3w, System: 72w; (150-250w HID Equivalent)  
100w Array: 100w, System: 111w; (150-250w HID Equivalent)  
140w Array: 139.9w, System: 156w; (250-400w HID Equivalent)

### DRIVER:

Electronic Driver, 120-277V, 50/60Hz or 347-480V, 50/60Hz; Less Than 20% THD and PF>0.90. Standard Internal Surge Protection 6kV, 0-10V Dimming Standard for a Dimming Range of 100% to 10%; Dimming Source Current is 150 Microamps.

### CONTROLS:

Fixtures Ordered with Factory-Installed Photocell or Motion Sensor Controls are Internally Wired for Switching and/or 1-10V Dimming Within the Housing. Remote Direct Wired Interface of 1-10V Dimming is Not Implied and May Not Be Available, Please Consult Factory. Fixtures are Tested with DuraGuard Controls and May Not Function Properly With Controls Supplied By Others. Fixtures are NOT Designed for Use with Line Voltage Dimmers.

### WARRANTY:

5-Year Warranty for -40°C to +50°C Environment.

See Page 4 for Projected Lumen Maintenance Table.



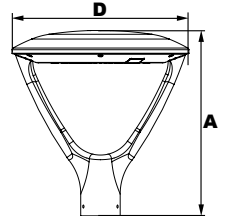
**AFR31Q**  
DuraLED Sculptor II  
Single Arm Open Round  
Post Top



Shown with  
LumaLens Option



**AFR32Q**  
DuraLED Sculptor II  
Dual Arm Open Round  
Post Top



### Dimensions

Diameter (D)	18" (457mm)
Height (A)	18 3/4" (479mm)

## DuraLED TECHNOLOGY

Complete Units Ordering Information  
Example: **AFR32QF1X140U5KCBS**

# AFR31Q & AFR32Q DuraLED Sculptor II Round Post Tops

Model	Optics	Wattage	Driver	CCT	Lens	Color	Options
	<b>A</b> =Type I <b>B</b> =Type II <b>C</b> =Type III <b>D</b> =Type IV <b>F</b> =Type V	<b>1X37</b> =37w <b>1X65</b> =65w <b>1X100</b> =100w <b>1X140</b> =140w	<b>U</b> =120-277V <b>H</b> =347-480V	<b>3K</b> =3000K* <b>4K</b> =4000K <b>5K</b> =5000K  *37 and 65w Only		<b>B</b> =Black <b>C</b> =Custom (Consult Factory)	

**AFR31Q**=DuraLED Sculptor II Single Arm Open Round Post Top  
**AFR32Q**=DuraLED Sculptor II Dual Arm Open Round Post Top

**C**=Clear UV-Stabilized Polycarbonate Array Lens  
**L**=SoftLED LumaLens Opal UV-Stabilized Polycarbonate Lens\*

\*Type V Models Only

- P2AB**=PSRTN Tenon Adaptor, Black
- P2AC**=PSRTN Tenon Adaptor, Custom Color (Consult Factory)
- SF**=Single Fuse\*
- DF**=Double Fuse\*
- SP**=Surge Protection
- R3**=3-Pin Twist Lock Photocell Receptacle
- R5**=5-Pin Twist Lock Photocell Receptacle
- R7**=7-Pin ANSI C136.41—2013 Twist Lock Photocell Receptacle
- S2**=Microwave Sensor with Dimming for Mounting Heights of 8' to 40'.\*
- S4**=Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19'.\*
- BU**=Battery Backup, 90 Minutes (Up to 65w Max)\*
- BUC**=Cold Start Battery Backup, -20°C, 90 Minutes (Up to 65w Max)\*

\*120-277V Models Only.



Specifications subject to change without notice.

# AFR31Q & AFR32Q DuraLED Sculptor II Round Post Tops



## ACCESSORIES & REPLACEMENT PARTS:

Mounting Accessories (Order Separately, Field Installed)	
PSRTN*	Retrofit Tenon Adaptor, Die Cast with Powdercoat Finish, Hardware Included. Converts a 2 3/8" x 4" Pole Tenon to a 2 1/2" x 3" Tenon.
*Specify Color: B=Black, C=Custom (Consult Factory)	



**PSRTN**

Accessories (Order Separately, Field Installed)	
P18131	Twist Lock Non-Shorting (Open) Cap Disconnects Service to Fixture for Temporary or Permanent Disabling (Fixture Always Off). IP65, 480V Maximum.
P18132	Twist Lock Shorting Cap Provides Fixed Service to Fixture (Fixture Always on). IP65, Rated Load 7200w Tungsten.
P18140	110-120VAC Instant Twist Lock Photozell
P18152	277VAC Time Delay Twist Lock Photozell
P18156	120-277VAC Universal Twist Lock Photozell
P18157	480VAC Time Delay Twist Lock Photozell. For 480V use only.
AF31HS*	Stamped Aluminum House Side Shield, Powdercoat Finish. Use for AFR31 models.
AF32HS*	Stamped Aluminum House Side Shield, Powdercoat Finish. Use for AFR32 models
*Specify Color: B=Black, C=Custom (Consult Factory)	



**\*Shown Mounted**

Replacement Parts (Order Separately, Field Installed)	
AF30PCLL	SoftLED LumaLens Opal UV-Stabilized Polycarbonate Vandal-Resistant Lens
P17117	Internal Microwave Sensor with Dimming for Mounting Heights of 8 to 40'. 120-277VAC, 50/60Hz
P17123	Internally Mounted Microwave On/Off Motion Sensor for Mounting Heights of 8' to 19', 120-277VAC, 50/60Hz
For Replacement Battery Backup, see the DuraGuard LED Battery Backup Specification Sheet.	



**AF30PCLL**

**P17117**

**P17123**

## EPA (EFFECTIVE PROJECTED AREA)

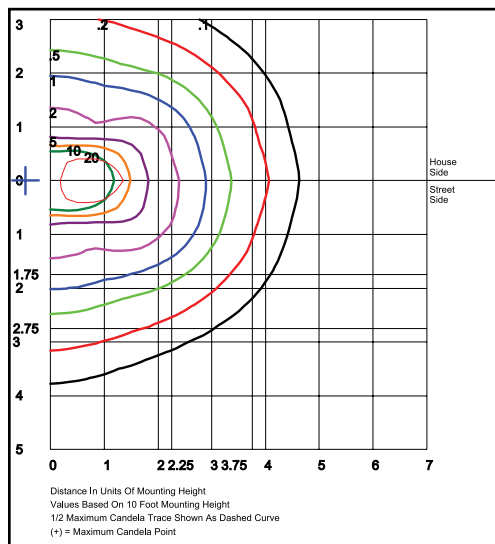
Configuration	EPA (Sq. Ft.)	Weight (Lbs.)
	1.00	29 Lbs

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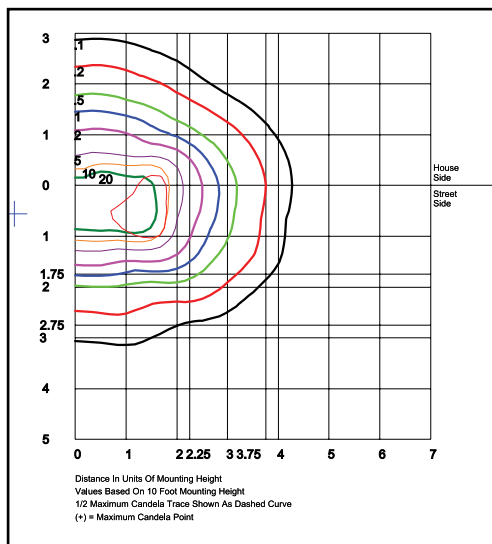


## PHOTOMETRIC DATA



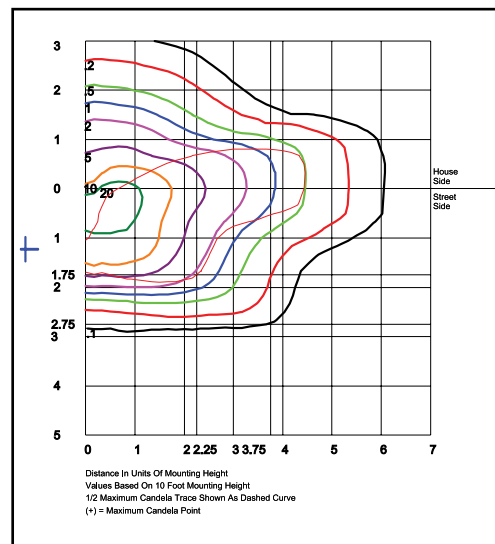
**AFR32QA1X1405K**  
**Type I**

Grid in MH  
MH=10 Feet



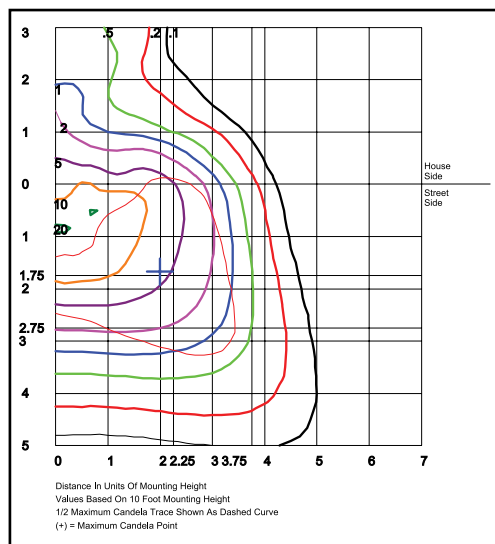
**AFR32QB1X1405K**  
**Type II**

Grid in MH  
MH=10 Feet



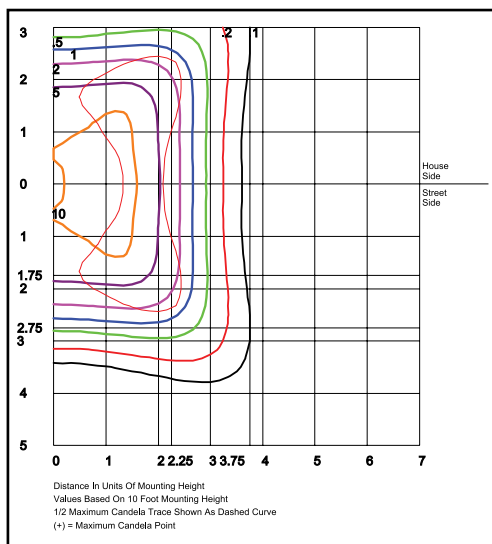
**AFR32QC1X1405K**  
**Type III**

Grid in MH  
MH=10 Feet



**AFR32QD1X1405K**  
**Type IV**

Grid in MH  
MH=10 Feet



**AFR32QF1X1405K**  
**Type V**

Grid in MH  
MH=10 Feet

# AFR31Q & AFR32Q DuraLED Sculptor II Round Post Tops



## PHOTOMETRIC PERFORMANCE

		Wattage (Catalog Logic)	37W (1X37)	65W (1X65)	100W (1X100)	140W (1X140)
		Input Watts	42.2	74.1	114	159.6
Optic	CCT	Delivered Lumens				
<b>AFR31 A = Type I</b>	3000K	4,891	7,979	12,276	17,187	
	4000K	5,100	8,302	12,774	17,883	
	5000K	5,288	8,626	13,272	18,580	
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B4-U0-G3	
<b>AFR31 B = Type II</b>	3000K	4,912	8,629	13,275	18,585	
	4000K	5,111	8,979	13,814	19,339	
	5000K	5,310	9,328	14,352	20,092	
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	
<b>AFR31 C = Type III</b>	3000K	4,932	8,663	13,329	18,660	
	4000K	5,132	9,015	13,869	19,417	
	5000K	5,331	9,366	14,409	20,173	
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	
<b>AFR31 D = Type IV</b>	3000K	4,500	7,905	12,162	17,026	
	4000K	4,682	8,226	12,656	17,717	
	5000K	4,865	8,546	13,148	18,407	
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	
<b>AFR31 F = Type V</b>	3000K	4,935	8,669	13,337	18,672	
	4000K	5,135	9,021	13,878	19,430	
	5000K	5,334	9,372	14,419	20,186	
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	

		Wattage (Catalog Logic)	37W (1X37)	65W (1X65)	100W (1X100)	140W (1X140)
		Input Watts	42.2	74.1	114	159.6
Optic	CCT	Delivered Lumens				
<b>AFR32 A = Type I</b>	3000K	4,520	7,375	11,345	15,882	
	4000K	4,704	7,673	11,804	16,526	
	5000K	4,887	7,972	12,264	17,170	
	BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B4-U0-G3	
<b>AFR32 B = Type II</b>	3000K	4,539	7,974	12,268	17,174	
	4000K	4,723	8,298	12,766	17,871	
	5000K	4,907	8,620	13,262	18,567	
	BUG Rating	B1-U0-G1	B2-U0-G1	B2-U0-G2	B3-U0-G3	
<b>AFR32 C = Type III</b>	3000K	4,557	8,006	12,317	17,243	
	4000K	4,742	8,331	12,817	17,943	
	5000K	4,927	8,655	13,315	18,641	
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	
<b>AFR32 D = Type IV</b>	3000K	4,340	7,624	11,418	15,753	
	4000K	4,516	7,933	11,881	16,392	
	5000K	4,692	8,242	12,343	17,030	
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	
<b>AFR32 F = Type V</b>	3000K	4,560	8,011	12,325	17,255	
	4000K	4,745	8,336	12,826	17,955	
	5000K	4,930	8,661	13,324	18,653	
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	

## PROJECTED LUMEN MAINTENANCE

Data shown for 5000 CCT		Compare to MH				
TM-21-11	Input Watts	Initial	25,000 Hrs	50,000 Hrs	100,000 Hrs	Calculated LED Life
<b>L70 Lumen Maintenance @ 25°C / 77°F</b>	All wattages up to and including 159w	1.00	0.98	0.95	0.91	327,000
<b>L70 Lumen Maintenance @ 50°C / 122°F</b>		1.00	0.94	0.89	0.78	134,000
<b>L80 Lumen Maintenance @ 40°C / 104°F</b>		1.00	0.96	0.93	0.86	141,000

**NOTES:**

1. Projected per IESNA TM-21-11. Data references the extrapolated performance projections for the base model in a 25°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.
2. Compare to MH box indicates suggested Light Loss Factor (LLF) to be used when comparing to Metal Halide (MH) systems.