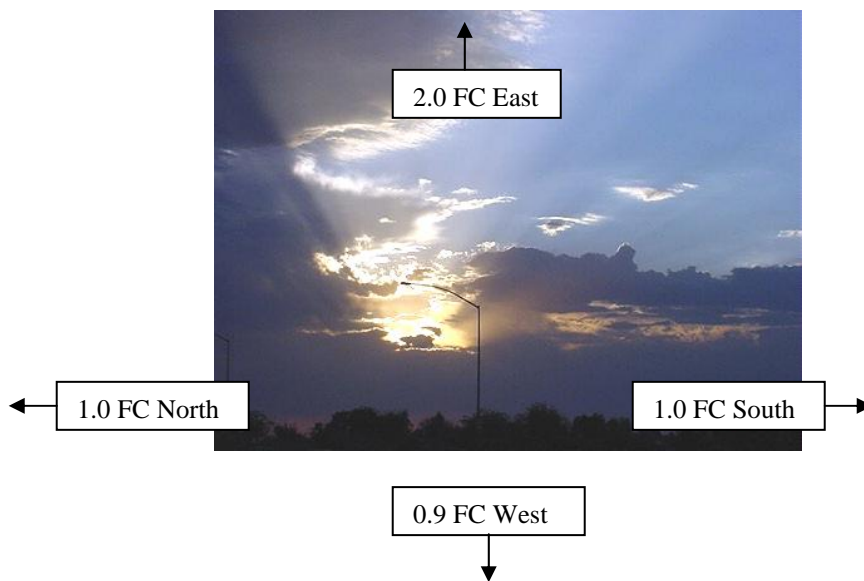




Super Energy Efficient Electronic Sensing Circuit, Innovative Application Specification, Proprietary J-BAR™ Technology for Poly-Visa-Lens Light Analysis. Saves an average of 10 Minutes per Day in Wasted Burning Over Competitive Filtered Silicon Units by Duplicating Human Eye Response.

Since the 1960s and before, photocontrol manufacturers have suggested that photocontrols be orientated toward the North in the Northern Hemisphere and toward the South in the Southern Hemisphere. This was so that direct sunlight would not fall on the cadmium sulfide photosensor causing calibration drift and/or dark current. Non-drift silicon sensor technology has changed significantly since the 1960s.

Testing at Raynham, MA showed that the light level from the “glow” looking toward sunrise is on an average 2X the level of the other three directions, which are for all intents and purposes the same. Orientation toward sunrise rather than North of a tight positive ratio electronic photocontrol would turn the light off earlier and in effect duplicate the desirable performance of an inverse ratio photocontrol.



The light level in the direction of Sunrise is double that of any other direction.

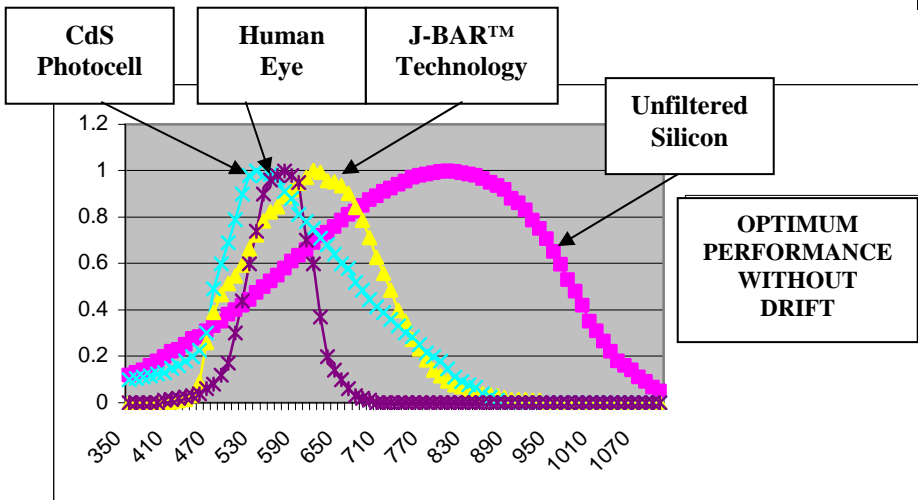
Non-drift J-BAR technology facing East provides an economical inverse ratio photocontrol with human eye response.

It is now practical to orient the unit toward the East with our new Energy SuperStar. The Energy SuperStar utilizes proprietary J-BAR™ Technology for Poly-Visa-Lens (polymetric analysis of visible light with a newly designed lens) light analysis to determine the optimum switching points. The light sensing system mirrors that of the human eye virtually eliminating any response to light in the spectrum above 800 nanometers. Sensor drift is less than 0.5% over a 10 year life.

54 Commercial St. * Raynham, MA 02767 USA

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Energy SuperStar



J-BAR™ Technology was developed by a team of the top Scientists and Engineers in the world. The team included a PhD from MIT, a MS from Harvard, and other top professionals in their field. It represents true state-of-the-art street lighting control technology.

OPERATING SPECIFICATIONS

Operating Voltage:

<u>Model</u>	<u>Voltage</u>	<u>Color</u>
ES120	105 - 130	Gray
ES124	105 - 305	Blue
ES240	195 - 305	Maroon
ES480	420 - 530	Yellow

Load Rating:

1000 Watt tungsten, 1800 VA

Life at rated load:

5,000 Operations (13.7 Years)

Power Consumption:

0.75 watts average on all models

Moisture Resistance:

100% RH.

Installation Instructions:

East molded into the cover with additional instructions to point toward sunrise.

Standard Surge Protections:

90 Joule (4,500 Amps) MOV.
160 Joule (6,500 Amps) MOV.
320 Joule (13,000 Amps) MOV.

Operating Light Levels:

+/- 0.1 fc. from specified turn-on level.
1 to .9 Average turn-on to turn-off ratio.

Photosensor:

Encapsulated phototransistor with J-BAR™ light analysis system.

Dielectric Strength:

5,000 Volts between any current carrying part.

Ambient Temperature Range:

-40°C to +70°C (-40°F to + 158°F).

Weight: 3.0 oz. each, 20 lbs. per 100 unit carton.

Size: 16" x 16" x 12" per 100 unit carton.

ORDERING INFORMATION

ES120 - W - PJ 3 T BR

<u>Model #</u>	<u>Surge Protection</u>	<u>Photosensor</u>	<u>Turn On</u>	<u>Time Delay</u>	<u>Color</u>
<u>ES120</u> (105 - 130V)	<u>_</u> 90J MOV*	<u>PJ</u> Phototransistor	<u>1</u> 1.0 FC_ No Delay *	<u>_</u> Per ANSI *	
<u>ES124</u> (105 - 305V)	<u>M</u> 160J MOV	with J-BAR™ Light	<u>1.5</u> 1.5 FC	<u>T</u> 3-5 Sec	<u>BR</u> Brown
<u>ES240</u> (195 - 305V)	<u>W</u> 320 J MOV	Analysis.	<u>2</u> 2.0 FC		<u>BK</u> Black
<u>ES480</u> (420 - 530V)			<u>2.5</u> 2.5 FC		
			<u>3</u> 3.0 FC		* No Letter