

## Evaluation Table

736 Highway and Sign Lighting  
 736 Photo Electric Controls  
 ADOT Standard Specifications: 736-2.06(A)  
 ADOT Standard Drawing: T.S. 3-4

Material Property	Specification/ Test Method	Requirement
Operating Temperature, °F	736-2.06(A)	-40 to +158 with 0 – 100% relative humidity
Time Delay	736-2.06(A)	A time delay shall be incorporated into the circuit to prevent the lights from being turned off at night by transient lights which might be focused on the control.
PEC Cell	736-2.06(A)	The PEC shall be a conventional glass faced, hermetically sealed cell.
Manual Control	736-2.06(A)	A switch to permit manual operation of the lighting circuit shall be provided for each PEC.
Lightning Arrester	736-2.06(A)	The PEC shall have a built-in lightning arrester.
Inrush Current Protection	736-2.06(A)	The PEC shall have a built-in inrush current protection.
Surge Protector	736-2.06(A)	The encapsulated surge protector shall have a spark-over value of 2 kilovolts and shall interrupt up to 10 kiloamperes of follow-through current without affecting the operating characteristics.
Voltage Rating	736-2.06(A)	120 to 277 volts AC, 60 hertz
Load Rating	736-2.06(A)	8 A LED
Turn On, foot candles	736-2.06(A)	1.5 ± 0.5
Turn Off, foot candles	736-2.06(A)	2.25
Time Delay, seconds	736-2.06(A)	2 - 5
Fail Mode	736-2.06(A)	On

<b>Material Property</b>	<b>Specification/ Test Method</b>	<b>Requirement</b>
Power Consumption, W	736-2.06(A)	Less than 0.65
Water Ingress Protection	736-2.06(A)	NEMA 3, raintight
Life Rated at Full Load, min	736-2.06(A)	10,000 On-Off Operations
Regulatory Listings	736-2.06(A)	ANSI C136.10 and RoHS Compliant
Regulatory Listings	736-2.06(A)	UL 773 Certified
Regulatory Listings	736-2.06(A)	Tested to NEMA 410 LED Load Standards
Photo Electric Control (PEC) Covers and Bases	T.S. 3-4 (2 of 2)	Constructed of durable polymer materials, heat resistant, and UV stabilized. Covers should be opaque, except for the window.
PEC Window	T.S. 3-4 (2 of 2)	Located on the side
PEC Contacts	T.S. 3-4 (2 of 2)	Shall be 3-prong locking type and shall be made of solid brass.
Impact Resistance	T.S. 3-4 (2 of 2)	THE PEC must be impact resistant, and shall withstand a 3' drop to a concrete floor without damage.
Surge Protection, min	T.S. 3-4 (2 of 2)	MOV Type: 160 Joules, 6,500 Amps