

# Toshiba **TLS-ATLM** LED Area Luminaire

**Application** – High performance, energy-efficient, solid-state luminaire for area lighting applications. Lighting performance equivalent to 150–400 watt HID (high intensity discharge) luminaires with 50%+ energy savings.

**Construction** – Heavy-duty, corrosion-resistant, low-copper, die cast aluminum housing and stainless steel hardware provide strength and durability. Powder-coated finish and IP66 construction provides durable resistance to outdoor environments.

**Mounting** – Die-cast, low copper aluminum with splice access cover. Universal mounting design provided for attachment to round and square poles without re-drilling mounting holes. 3G vibration rating is standard.

**Optics** – Precision-molded, high-impact, optical-grade PMMA (polymethyl methacrylate) lenses provide uniform Type II, Type III, Type IV, and Type V distributions. Keyed lens assemblies ensure consistent photometric performance across a broad range of available levels of lumen output. Proprietary optical design provides zero lumens above the horizontal plane.

**LEDs & PCB (Printed Circuit Board)** – High efficiency 4000K/5700K, 70CRI LEDs are mounted to a metal core PCB. PCB is mounted to a finned, aluminum heat sink using a patented, zero air gap technology, which maximizes heat transfer and provides long LED operating life.

**Terminal Block** – Standard tunnel-type compression terminal block provides secure wire attachment and quick installation. Terminals are sized for #6 to #14 AWG wire.

**LED Rated Life (L85)\*** – 100,000 hours or more when operated in a 25°C (77°F) ambient environment. LED rated life is based on 9,000 hours of LED testing per LM-80-08, and projected values per IESNA TM21-11.

**LED Drivers** – Available at universal 120-277 at 50/60Hz. Feature high power factor (>90%) and low total harmonic distortion (THD, <10%).

**Surge Protection** – 10kV/10kA (ANSI/IEEE C64.41.2) is standard.

**Photocontrol Options** – Include (1) button photocell or (2) a NEMA twist-lock receptacle.

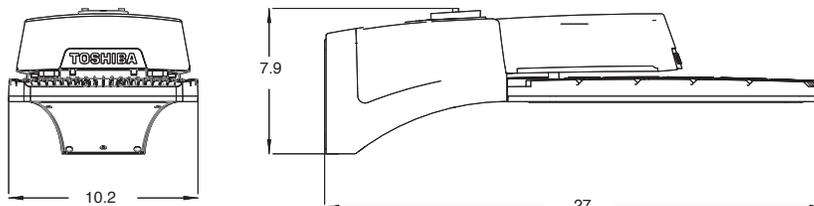
**Listing** – cETLus listed to applicable UL standards. DLC (DesignLights™ Consortium) qualified, and Lighting Facts® listed. IP66 rated. Suitable for ambient temperatures from -40°C to 40°C (-40°F to 104°F). RoHS (Restriction of Hazardous Substances) compliant. Salt Fog testing conforms to ASTM Designation B117.

**Warranty** – 5-year limited warranty. Toshiba LED Lighting Systems Division reserves the right to make changes and/or improvements in designs and/or dimensions without notice or obligation. Consult Toshiba for additional terms and conditions. [www.toshiba.com/lighting](http://www.toshiba.com/lighting)

Example: **TLSATLM43421RB**

Model Designator	LED Quantity	Drive Current	CCT	Distribution	Voltage	Housing Color **	Photocell	Options
TLSATLM	4 = 48 6 = 60 7 = 72	3 = 350mA 7 = 700mA	4 = 4000K 6 = 5700K	2 = Type II 3 = Type III 4 = Type IV 5 = Type V	1 = 120V 2 = 208-277V	R = Bronze S = Silver B = Black	C = No Photocell Cover N = NEMA Twist Lock Receptacle B = Button Photocell	H = House-Side Shield D = Dimming (0-10VDC)

**TLS-ATLM:**  
EPA: 1.7sq ft  
Length: 27in  
Width: 10.2in  
Height: 7.9in  
Weight: 30lbs



\*L85 LED rated life is the time period at which lumen output has depreciated to 85% of its initial output.

\*\* Longer lead times may apply for Silver and Black.

Standard color is Bronze. Longer lead times may apply for Black and Silver.

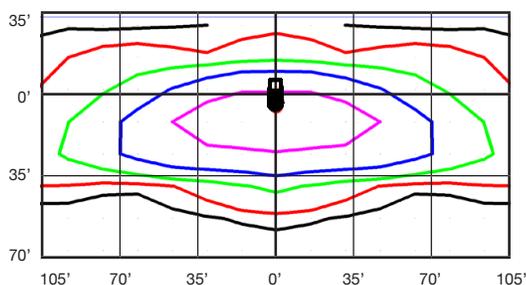
Model	Drive Current (mA)	Input Watts	Input Current (A)			Distribution Type	4000K		5700K	
			120V	240V	277V		Lumens	Efficacy (LPW)	Lumens	Efficacy (LPW)
48 LEDs	350	53	0.44	0.22	0.19	II	5,800	109	5,900	111
						III	5,800	109	5,900	111
						IV	5,700	108	5,900	111
	700	106	0.88	0.44	0.38	V	5,600	106	5,800	109
						II	9,900	93	10,100	95
						III	9,600	91	9,900	93
60 LEDs	350	67	0.56	0.28	0.24	IV	9,550	90	9,800	92
						V	9,500	90	9,700	92
						II	7,000	104	7,300	109
	700	133	1.11	0.55	0.48	III	7,000	104	7,200	107
						IV	7,000	104	7,200	107
						V	6,900	103	7,100	106
72 LEDs	350	81	0.68	0.34	0.29	II	8,400	104	8,900	110
						III	8,500	105	8,700	107
						IV	8,300	102	8,600	106
	700	155	1.29	0.65	0.56	V	8,200	101	8,400	104
						II	14,400	93	14,600	94
						III	14,500	94	14,900	96
IV	14,500	94	14,800	95						
V	14,100	91	14,500	94						

### Type II

(Example: 72 LEDs, 700mA, 4000K)

#### Footcandles

- 2.0
- 1.0
- 0.5
- 0.2
- 0.1



LCS Zone	Lumens	% of Luminaire
Forward Low (FL) 0-30°	2323.1	16.1
Forward Medium (FM) 30-60°	5646.1	39.1
Forward High (FH) 60-80°	2835.2	19.7
Forward Very High (FVH) 80-90°	51.0	0.4
Back Low (BL) 0-30°	803.3	5.6
Back Medium (BM) 30-60°	1435.8	10.0
Back High (BH) 60-80°	1295.8	9.0
Back Very High (BVH) 80-90°	33.1	0.2
Uplight Low (UL) 90-100°	0.0	0.0
Uplight High (UH) 100-180°	0.0	0.0
<b>Total</b>	<b>14423.4</b>	<b>100.0</b>

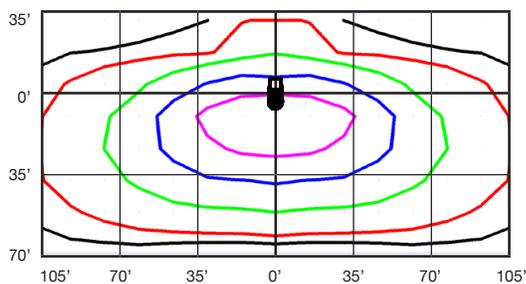
BUG Rating: B3-U0-G3

### Type III

(Example: 72 LEDs, 700mA, 4000K)

#### Footcandles

- 2.0
- 1.0
- 0.5
- 0.2
- 0.1



LCS Zone	Lumens	% of Luminaire
Forward Low (FL) 0-30°	2044.2	14.0
Forward Medium (FM) 30-60°	6044.8	41.5
Forward High (FH) 60-80°	3070.5	21.1
Forward Very High (FVH) 80-90°	70.5	0.5
Back Low (BL) 0-30°	786.3	5.4
Back Medium (BM) 30-60°	1393.5	9.6
Back High (BH) 60-80°	1105.3	7.6
Back Very High (BVH) 80-90°	45.2	0.3
Uplight Low (UL) 90-100°	0.0	0.0
Uplight High (UH) 100-180°	0.0	0.0
<b>Total</b>	<b>14560.3</b>	<b>100.0</b>

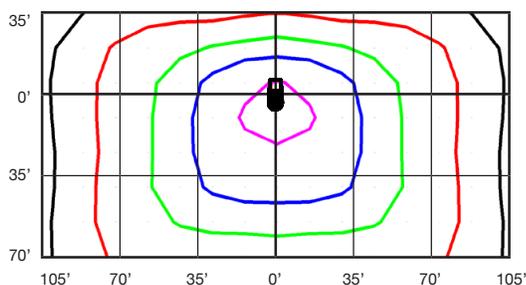
BUG Rating: B3-U0-G3

### Type IV

(Example: 72 LEDs, 700mA, 4000K)

#### Footcandles

- 2.0
- 1.0
- 0.5
- 0.2
- 0.1



LCS Zone	Lumens	% of Luminaire
Forward Low (FL) 0-30°	1420.8	9.9
Forward Medium (FM) 30-60°	5202.7	36.1
Forward High (FH) 60-80°	3478.9	24.1
Forward Very High (FVH) 80-90°	118.0	0.8
Back Low (BL) 0-30°	1019.4	7.1
Back Medium (BM) 30-60°	1792.8	12.4
Back High (BH) 60-80°	1306.0	9.1
Back Very High (BVH) 80-90°	76.3	0.5
Uplight Low (UL) 90-100°	0.0	0.0
Uplight High (UH) 100-180°	0.0	0.0
<b>Total</b>	<b>14414.9</b>	<b>100.0</b>

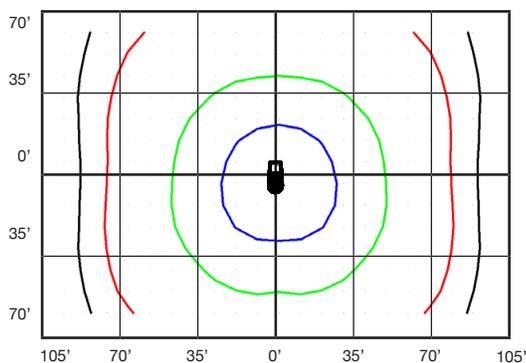
BUG Rating: B3-U0-G3

### Type V

(Example: 72 LEDs, 700mA, 4000K)

#### Footcandles

- 2.0
- 1.0
- 0.5
- 0.2
- 0.1



LCS Zone	Lumens	% of Luminaire
Forward Low (FL) 0-30°	839.3	5.9
Forward Medium (FM) 30-60°	3647.5	25.8
Forward High (FH) 60-80°	2884.3	20.4
Forward Very High (FVH) 80-90°	42.1	0.3
Back Low (BL) 0-30°	755.7	5.4
Back Medium (BM) 30-60°	3103.8	22.0
Back High (BH) 60-80°	2794.7	19.8
Back Very High (BVH) 80-90°	43.6	0.3
Uplight Low (UL) 90-100°	0.0	0.0
Uplight High (UH) 100-180°	0.0	0.0
<b>Total</b>	<b>14111.0</b>	<b>100.0</b>

BUG Rating: B4-U0-G2

#### Notes:

1. Isofootcandle plots depict initial foot-candles at grade.
2. Gridlines represent units of mounting height of 35 feet.