

# TL-GL/AS LED Roadway Luminaire

### Features and Benefits

- 43-164 Watt Low Power and High Performance
- Luxeon Rebel ES high efficiency LEDs
- Photocell dimming and aluminum body
- 95% Optical Efficiency
- 90 Degree Adjustable Mounting
- Construction – Heavy-duty cast aluminum housing and corrosion resistant hardware provides strength of construction and longevity in application. Powder-coated finish and IP65 construction provides durable resistance to the outdoor environment.
- Electrical – High-efficiency 4100K/6000K, 70CRI LEDs are mounted to a metal core printed circuit board which is installed onto the finned LED heat sink to maximize thermal management and provide long operating life for the LEDs 40 °C ambient L85\*\* based on 9,000 hours of LED testing per LM-80-08. LED life based on projected values per IESNA TM21-11).
- 5 year warranty\*
- Rated Lifetime: 100,000 hours
- UV, IR and Mercury-free
- UL-Dry and Damp Location



GL Model

AS Model

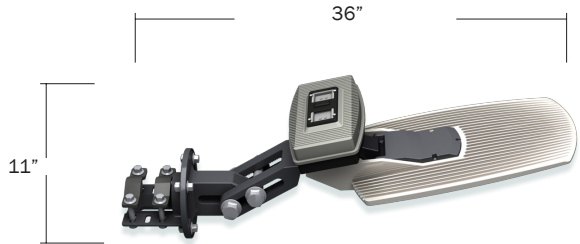
**Rated Life**  
100,000 hrs

**Reduces**  
Energy & Cost

**Savings up to**  
60%-90%

Example: TL-GL48412SV1SAGR

Model Designator:	LED Quantity:	CCT:	Distribution:	Voltage:	Mounting:	Photocell:	Options:
TL-AS	18 24 36	41 = 4100K 60 = 6000K	2S = Type II Standard 2W = Type II Wide	V1 = 90-285v	SA = Standard Arm WM = Wall Mount	GR = Silver/Gray	Blank = Standard Factory Programming ON at <5fc 70% Output at 5fc to 30fc 30% Output at 30fc to 60fc OFF at >60fc D = On-board Controls Disabled
TL-GL	42 48 54 60 66 72						



### Applications

- Billboards
- Parking Areas
- Roadways
- Wall pack lighting
- Streets
- Any other space requiring reliable safety and security

**OUTDOOR**  
Cobra Head

**Certifications:**  
cETLus listed,  
ETL listed, RoHS  
O338



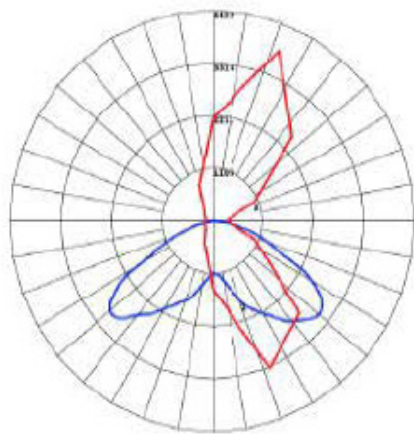
\*For warranty terms please visit our website Trans-Lux.com  
\*\*Rated life of L85 is defined as the period of time after which lumen output of the LED source has depreciated to 85% of its initial output.

**TLENERGY**  
by **TRANS LUX**  
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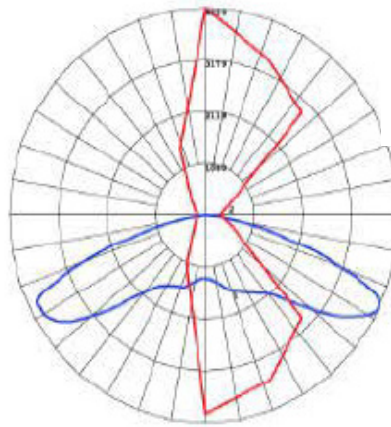
- **On-Board Lighting Controls** – Integral digital photocells provide on-board lighting controls and have a rated life of greater than 15\* years which removes the requirement for traditional NEMA receptacle photocells. Long operational life of on-board photocells is provided by a set of four redundant photocells. In the event one or more photocells fail to operate the remaining photocells will continue to provide normal operation of the luminaire. Standard on-board lighting control programming provides 30% and 70% dimming based on ambient light levels. Custom programming may be specified for on/off/dim settings at customer specified light levels (5 to 60 fc).
- **Optics** – Precision-molded, high-impact, optical-grade PMMA lens providing uniform Type II standard and Type II wide distribution. Keyed lens assembly ensures consistent optical performance across a broad range of available outputs.

Model:	TL-AL					TL-GL			
	TL-AS18	TL-AS24	TL-AS36	TL-GL42	TL-GL48	TL-GL54	TL-GL60	TL-GL66	TL-GL72
Number of LEDs:	18	24	36	42	48	54	60	66	72
Typical Lumens:	3750	5000	7500	7500	8550	9600	10650	11775	12825
Wattage:	43	57	83	96	109	123	137	150	164
Equivalent (W):	100	150	250	250	250	300	400	400	500



**Standard**  
TL-GL42602S

Maximum Candela = 4421.81  
Located At Horizontal Angle = 292°  
Vertical Angle = 56°  
#1 – Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
#2 – Horizontal Cone Through Vertical Angle (53) (Through Max. Cd.)



**Wide**  
TL-GL42602W

Maximum Candela = 4238.64  
Located At Horizontal Angle = 90°  
Vertical Angle = 63°  
#1 – Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)  
#2 – Horizontal Cone Through Vertical Angle (63) (Through Max. Cd.)

**OUTDOOR**  
Cobra Head

Zone	Lumens	Luminaire
FL - Front-Low (0-30)	816.1	11.0%
FM - Front-Medium (30-60)	3323.5	44.9%
FH - Front-High (60-80)	1342.1	18.1%
FVH - Front-Very High (80-90)	133.3	1.8%
BL - Back-Low (0-30)	369.4	5.0%
BM - Back-Medium (30-60)	1036.4	14.0%
BH - Back-High (60-80)	337.4	4.6%
BVH - Back-Very High (80-90)	28.6	0.4%
UL - Uplight-Low (90-100)	10.9	0.1%
UH - Uplight-High (100-180)	3.1	0.0%
<b>Total</b>	<b>7400.8</b>	<b>100%</b>

BUG Rating: B2-U2-G1

Zone	Lumens	Luminaire
FL - Front-Low (0-30)	745.5	10.2%
FM - Front-Medium (30-60)	2621.7	36.0%
FH - Front-High (60-80)	1548.4	21.3%
FVH - Front-Very High (80-90)	100.0	1.4%
BL - Back-Low (0-30)	381.9	5.3%
BM - Back-Medium (30-60)	1131.0	15.5%
BH - Back-High (60-80)	682.4	9.4%
BVH - Back-Very High (80-90)	52.2	0.7%
UL - Uplight-Low (90-100)	7.6	0.1%
UH - Uplight-High (100-180)	3.1	0.0%
<b>Total</b>	<b>7273.8</b>	<b>100%</b>

BUG Rating: B2-U2-G2



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\*Photocell life of 15 years based on an average of 24 operating hours per day at 40 °C ambient