

Toshiba TGT LED Luminaire Roadway Lighting

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.

On-Board Lighting Controls – Integral 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.

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 (rated life 100,000 hrs, 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). Variable voltage input drivers (90-285v; 50/60 Hz) have a high power factor >95% and low THD <10%. Built-in surge protection ensures reliable operation. Separated LED driver design provides long life of electrical components by providing thermal separation of electrical components from LED heat sink.

Mounting – The Toshiba TGT luminaire mounts to 1.25"-3" O.D. round pole using the standard pole mounting kit. The pole mounting kit may be removed for optional wall mounting. The optical housing may be field adjusted from 0°-50° tilt.

Listings – cETLus listed. DesignLights™ Consortium qualified. IP65 rated. ETL listed. Suitable for ambient temperatures from -30° to 40°C (-22° to 104°F). RoHS compliant.

Warranty – 5-year limited warranty. Consult manufacturer for additional terms and conditions.

Ordering Information

Example **GL48412SV4SAGR**

Product Name/Family	# of LEDs	CCT of LED	Distribution	Voltage	Mounting	Color	On-board Controls
GL = TGT Luminaire	24	41 = 4100K	2S = Type II Standard	V1 = 90-285v	SA = Standard Arm	GR = 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 C = Customer Specified Dimming Levels
	30	60 = 6000K	2W = Type II Wide		WM = Wall Mount		
	36						
	42						
	48						
	54						
	60						
	66						
	72						



Specifications
 EPA: 0.65 sq. ft.
 Length: 34.69" (88.1 cm)
 Width: 11.02" (28 cm)
 Height: 9.50" (24.1 cm)
 Weight: 24 lbs.

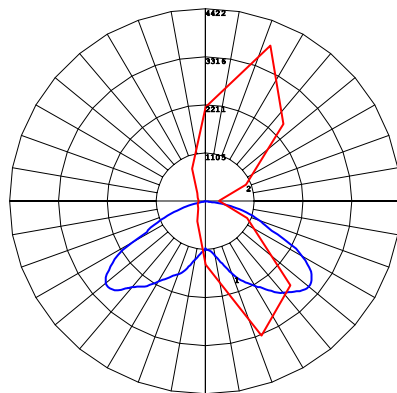
All dimensions are in (centimeters) unless otherwise noted.

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

Performance Data

Model	Drive Current (mA)	Input Watts	Distribution	6000K CCT		4100K CCT	
				Lumens	Efficacy (LPW)	Lumens	Efficacy (LPW)
GL24	685	64	2S	4117	64	4000	63
			2W	4076	64	3960	62
GL30	685	75	2S	5160	69	5010	67
			2W	5130	68	4980	66
GL36	685	87	2S	6192	71	6010	69
			2W	6156	71	5980	69
GL42	685	100	2S	7401	74	7190	72
			2W	7274	73	7060	71
GL48	685	111	2S	8256	74	8020	72
			2W	8208	74	7970	72
GL54	685	124	2S	9288	75	9020	73
			2W	9234	74	8960	72
GL60	685	135	2S	10320	77	10000	74
			2W	10260	76	9960	74
GL66	685	149	2S	11352	76	11000	74
			2W	11286	76	11000	74
GL72	685	158	2S	12144	77	11800	75
			2W	12167	77	11800	75

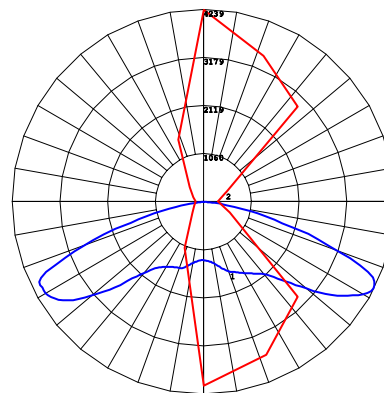
Distribution Patterns



Standard
GL42602S

Maximum Candela = 4421.81
Located At Horizontal Angle = 292.5
Vertical Angle = 56

#1—Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
#2—Horizontal Cone Through Vertical Angle (63) (Through Max. Cd.)



Wide
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.)

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%
Total	7400.8	100%

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%
Total	7273.8	100%

BUG Rating: B2-U2-G2