

**GAMEDAY**  
LIGHTING



# Gates Series



**TOP PERFORMING LED SPORTS LIGHT**

Up to 2000 W MHL Replacement  
Power: 300W-1500W



# DESIGNED FOR SPORTS FACILITIES

## GATES SERIES

- Advanced anti-glare technology
- Beam angles ranging from 15° to 60°
- CRI>90
- Custom slim design for low wind resistance
- Up to 75% energy reduction
- Multi-volt wiring options
- Smart control capable
- Light weight
- Self-cleaning design
- Optional remote driver box

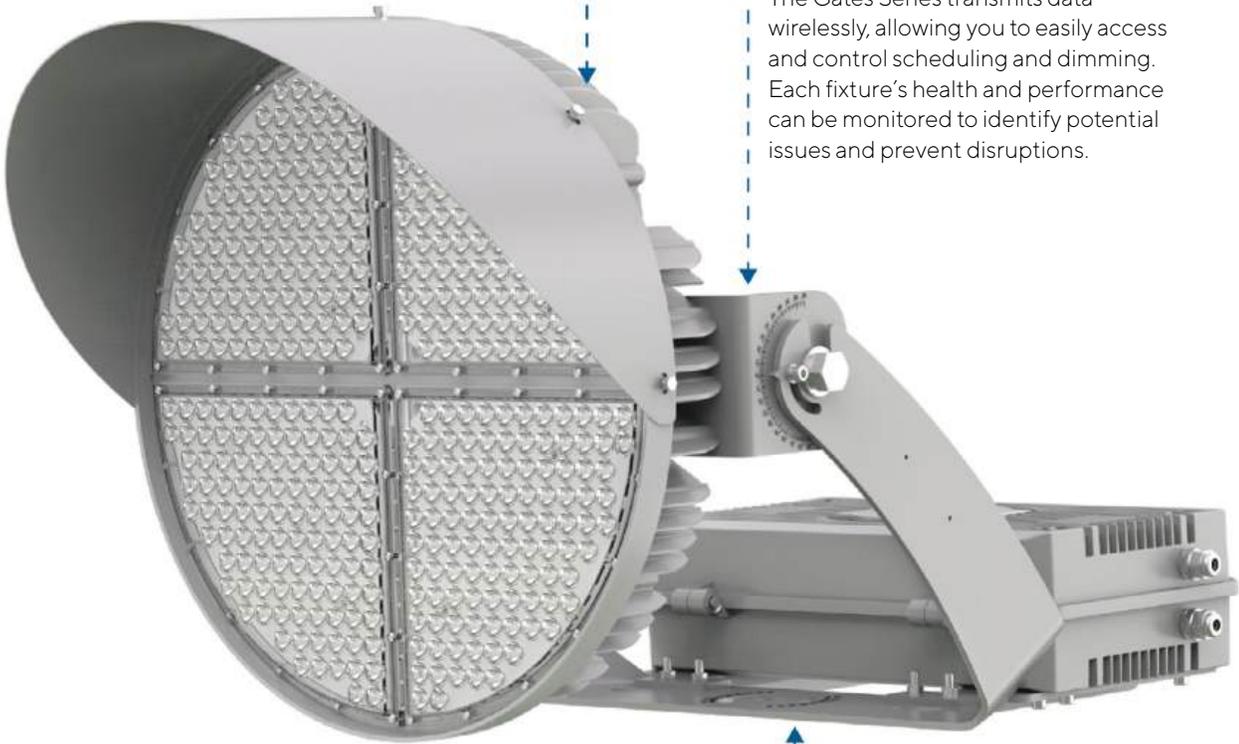
# GATES SERIES

## SELF-CLEAN HOUSING

Self-clean cold-forged heat sink housing with optimal heat performance, which can ensure longevity of light source and withstand harsh environments.

## SMART CONTROL

The Gates Series transmits data wirelessly, allowing you to easily access and control scheduling and dimming. Each fixture's health and performance can be monitored to identify potential issues and prevent disruptions.



## EASY INSTALLATION

Our Gates Series is the only LED field lighting system designed to fully use your existing infrastructure. Not only does this minimize installation time, it eliminates the expense for new poles, demolition, engineering, and foundation, reducing overall costs.



Stadiums



Recreational  
Sports



Multi-sports  
Halls



Swimming  
Pools



Transportation  
& Industrial  
Areas



Facades



Light Shows

# SPECIFICATIONS



**300W 400W  
500W 600W**



**750W 1000W 1200W**



**1500W**

## OPTIONAL ACCESSORIES



Knuckle assembly bracket



Small Driver Box



Rotatable Laser Pointer



Anti-Glare Ring



Slip Fitter Bracket

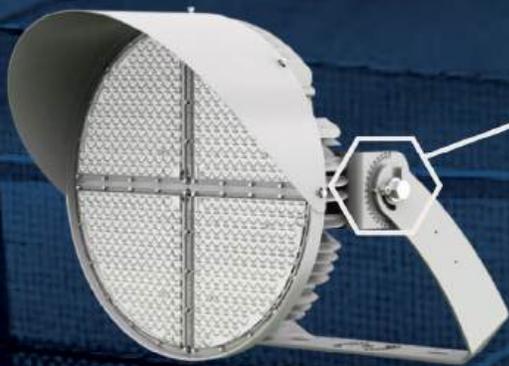
	300W=48,000Lm 500W=75,000Lm 400W=60,000Lm 600W=90,000Lm	750W=102,500Lm 1200W=180,000Lm 1000W=150,000Lm	1500W=195,000Lm
	Up to 150Lm/W		
	5700K (5000K / 4000K available)		
<b>CRI</b>	70 / 80 / 90		
<b>TLCI</b>	Up to 90+		
	IP66		
	-104°F ~ 122°F / -40°C ~ 50°C		
	IK10		
	Ball proof		
	Line – Line 20kV, Line – FG 20kV		
	15.5kgs (34.17±1.1 IBS)	14.5kgs (31.97 lbs) Remote driver box	22Kgs (48.50 lbs) Remote driver box
	Resistant to sea side and swimming pool environment.		
	Up to 100,000 h		
	10°~80° (design according project requirement)		
	EPA=0.137m <sup>2</sup> (1.478ft <sup>2</sup> )	EPA=0.218m <sup>2</sup> (2.353ft <sup>2</sup> )	EPA=0.32m <sup>2</sup> (3.5ft <sup>2</sup> )
	Textured different RAL on request		
	0-10V / PWM / BLUETOOTH / DALI/ DMX		





## GATES SERIES

Max output 180,000 lumens  
TLCI>90, Flicker Factor <1%  
Optics options 10°~80°  
Precise glare control  
Up to 150lm/W



### Easy Attach Bracket

Bracket with slide-in gap  
for quicker installation

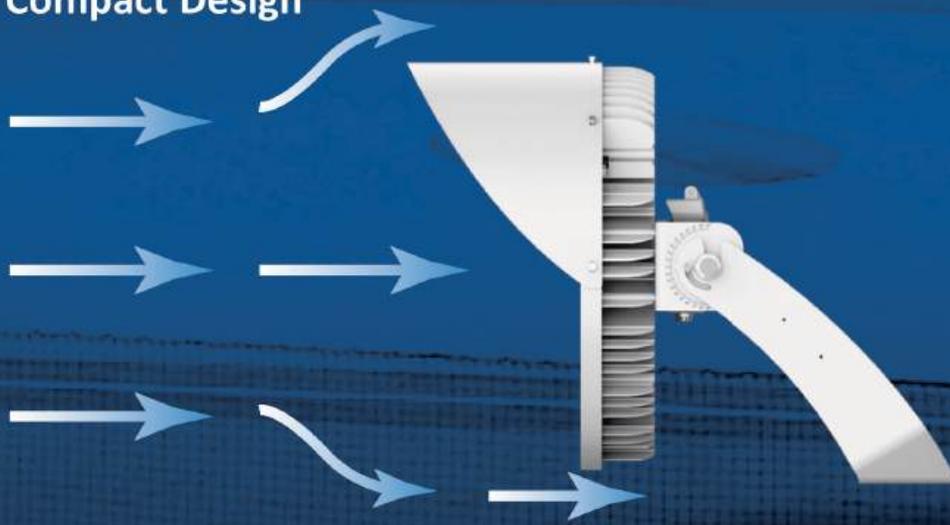
Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.



### Cold Forged Pure 1070 Aluminum Housing

Better heat dissipation and better corrosion-resistant than common Die-cast aluminum alloy( ADC12) ones

### Compact Design



### Lower EPA Wind Load

( 300-600W): 1.478ft<sup>2</sup>  
( 750-1200W): 2.353ft<sup>2</sup>

### Lighter Weight

( 300-600W): 34.17lbs  
( 750-1200W): 31.97lbs

# GATES SERIES



## Tempered Glass

Protects the lens from turning yellow and allows for use in coastal areas



## RGB Available

Available with RGB or RGBW



## Flexible Installation

The driver can be installed integrated on the back of the fixture or separately



## Visor

To avoid up light and spill light, improving light utilization



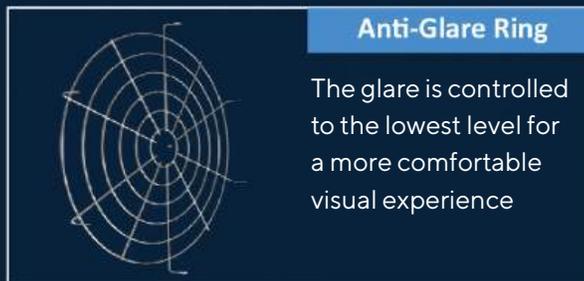
## Laser Aiming Device

For precise positioning and bringing the light to the intended area



## Metal Pipe

For protecting the wire from birds



## Anti-Glare Ring

The glare is controlled to the lowest level for a more comfortable visual experience

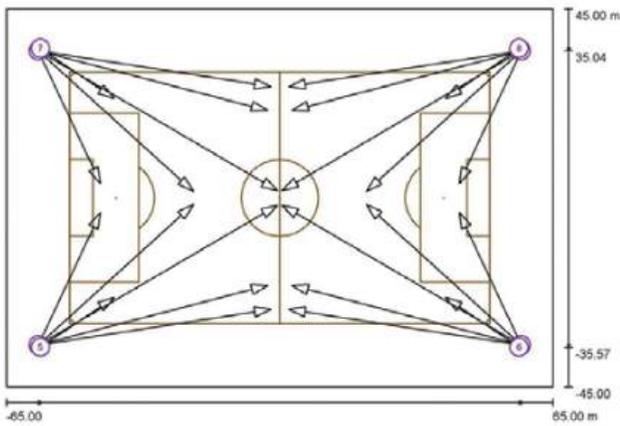
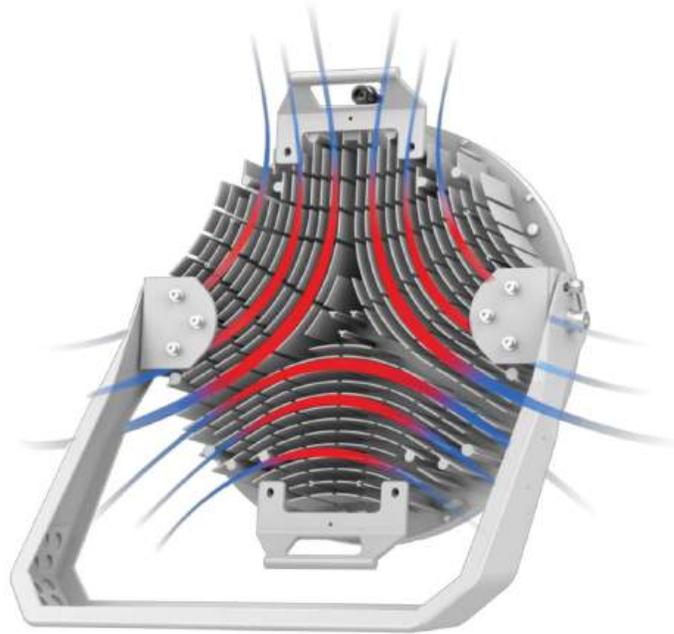
Seamless link between aerometal materials and numerous heat sink vents to improve thermal management and guarantee the stability of lighting system



50°



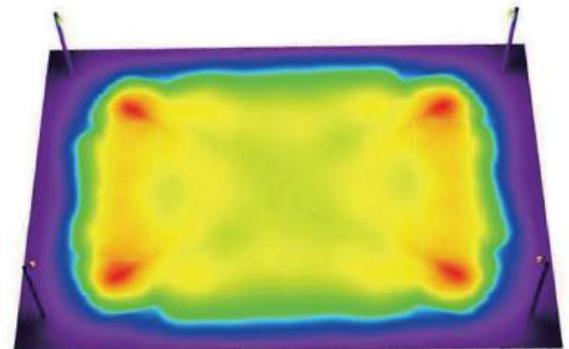
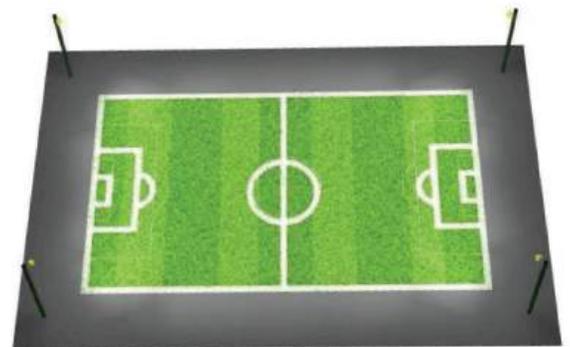
-30°



Scale 1 : 930

List of the Sport Luminaires

Luminaire	Index	Position [m]			Aiming Point [m]		Angle [°]	Alignment	Pole
		X	Y	Z	X	Y			
ASP04-600W-600W-25D	1	-57.463	-35.038	25.000	-2.862	-20.867	0.000	23.9 (C 0, G 0)	/
ASP04-600W-600W-25D	1	-57.463	-35.038	25.000	-2.162	-26.508	0.000	24.1 (C 0, G 0)	/
ASP04-600W-600W-25D	1	-57.463	-35.038	25.000	-20.570	-1.512	0.000	28.6 (C 0, G 0)	/
ASP04-600W-600W-25D	1	-57.463	-35.038	25.000	-42.691	-3.412	0.000	35.6 (C 0, G 0)	/



# INSTALLATION OPTIONS



## WATTAGES



300W / 400W  
500W / 600W

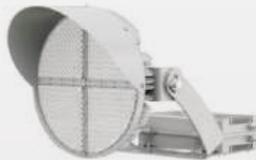


750W / 1000W  
1200W



1500W

## 6 MOUNTING OPTIONS



Integrated  
Driver Box



Remote Mounting  
Driver Box



Integrated with  
Driver Box



Hook Mount as  
High Bay



Knuckle Assembly  
Bracket



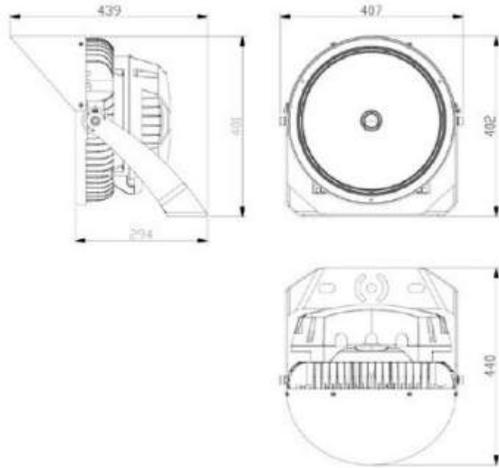
Arm Mount

Due to the constant improvements in product development, individual parameters might change. Please refer to our sales or R&D team for most up-to-date content as specifications are subject to change without notice.

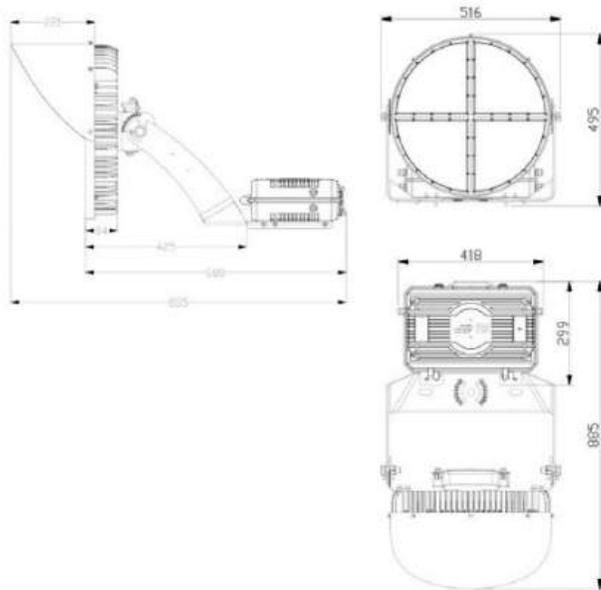
# DETAILED DATA SHEET

Model Name	Gates Q300	Gates Q400	Gates Q500	Gates Q600	Gates Q750	Gates Q1000	Gates Q1200
Power Consumption	300W	400W	500W	600W	750W	1000W	1200W
Light Source	OSRAM / Lumileds						
CCT	5700K (5000K / 4000K Available)						
Luminous Flux * (lm)	48,000	60,000	75,000	90,000	112,500	150,000	180,000
Luminous Efficacy *(Lm/W)	160	150	160	150	150	150	150
CRI	70 Ra						
Light Distribution	15°, 30°, 40°, 60° (Design according project requirement)				15°, 20°, 25°, 40°, 60° (Design according project requirement)		
LED Driver	INVENTRONICS (Can be equipped with customer's local power supply)						
Input Voltage	AC100-277V/ 200-480V						
Frequency	50 / 60 Hz						
Power Factor	≥0.9 at Max load						
FF(Flicker Factor)	< 2%						
Power Efficiency	≥0.95						
THD	<15%						
Surge Protection	Line – Line 20kV, Line – FG 20kV						
Control Method	0-10V / DALI/ DMX						
EPA	0.137m <sup>2</sup> 1.478ft <sup>2</sup>		0.198m <sup>2</sup> 2.13ft <sup>2</sup>				
Size	Inch	16.02*11.57*15.83(inch)			20.31*16.73*19.49(inch)		
	mm	407*294*402mm			516*425*495mm		
Weight (Remote Mounting Driver Box)	Lamp	/			14.5kgs (31.97 IBS)		
	Driver Box	/			8.5kgs (18.74 IBS)		
Weight (Integrated with Driver Box)	15±0.5kgs (33.01±1.1 IBS)			24±0.5kgs (52.92±1.1 IBS)			
Material	Body	Die cast aluminum			Cold forging aluminum		
	Optic	PC (Anti UV & Dust)					
	Cover (optional)	Tempered Glass , Shatter Proof					
Finish	Powder Coating				Electrophoresis		
IP Rating	IP66						
Operating Temperature	-22°F~122°F / -30°C~ 50°C						
Warranty	10 Years						

## Gates Q300/Q400/Q500/Q600



## Gates Q750/Q1000/Q1200





## ANTI-GLARE REFLECTOR OPTICAL



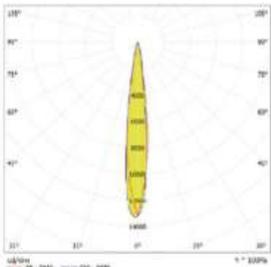
### Gates Q1500W

The 8.35mm deep reflector design optical system can greatly reduce the glare effect of the LED fixture. The new anti-glare optical system used on this product keeps the light from spilling behind the fixture. It is designed to only throw light forward and enhance the spectator experience.

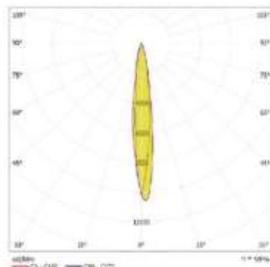
# OPTICAL

TLCI>90, Broadcast Ready for >1000fps, HD|4K|8K, enable TV broadcasters to film super-slow-motion replays with a flicker factor <1%. Engineered by adopting seamless link of advanced free-form optics.

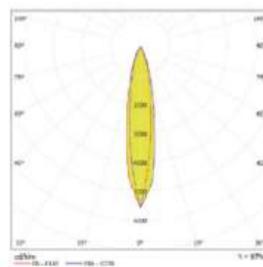
- Optics designed with unique “multi scales lenses” to make uniform light distribution and glare-reducing.
- High transmittance PC cover, anti-UV, IK08 protective grade, prevent LED chips vulcanization and dust accumulation on the lens.
- Symmetrical light distribution enhancing uniformity of vertical and horizontal, meanwhile reducing light spill, especially back pole light in residential areas.



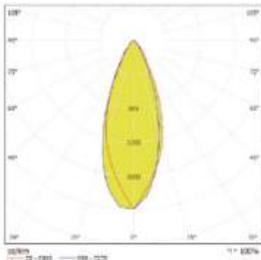
10°



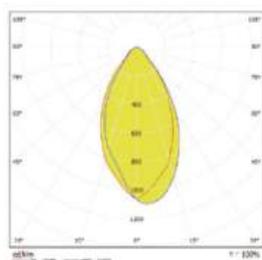
15°



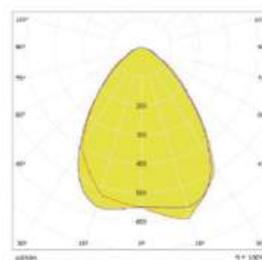
20°



40°

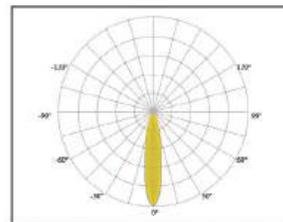


60°

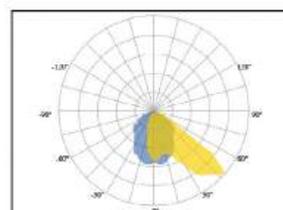


80°

## New Anti-Glare Reflector Optical



20° Symmetric Optic  
Eff:128.95lm/W

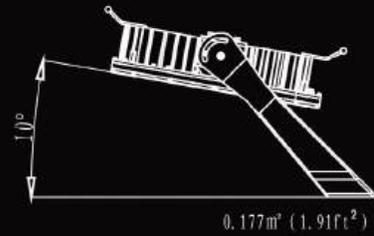


P50 Asymmetric Optic  
Eff:122.64lm/W

# EPA

The Gates Series offers exceptional wind resistance capabilities, making it an ideal choice for areas prone to high winds. The fixture's EPA wind rating is critical to ensuring that it can withstand high wind conditions.

The low front and side EPA values of the Gates Series for the higher wattage options are 3.5 ft<sup>2</sup> and 1.4 ft<sup>2</sup>, making it a safe and reliable choice for installation in areas with severe wind speeds.



Luminaire windage area  
(EPA at 10° tilt: 1.91 ft<sup>2</sup>)

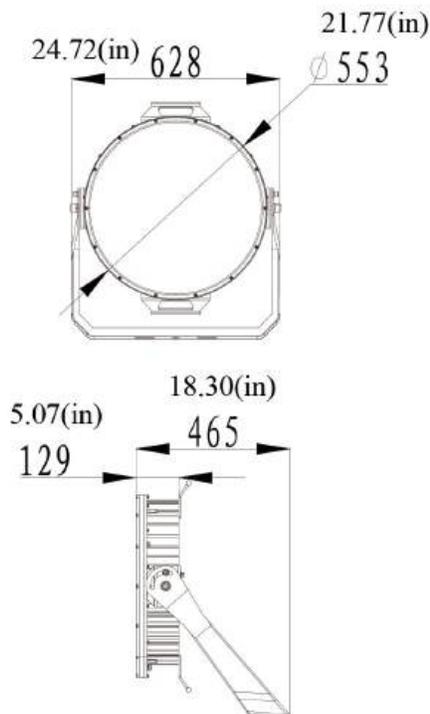


# ANTI-GLARE REFLECTOR OPTICAL DATA SHEET

Gates-Q1500W



## SIZE: INCHES



## AL1070

LED Type	Osram/Lumileds
System Efficacy	130 lm/W(CCT=5700K) ±5%
Luminous Flux	195000 lm (CCT=5700K) ±5%
CCT	5000K/5700K/6500K
Beam Angle	15°/25°/40°/60°/P50°
CRI	>70Ra
EPA	3.5ft <sup>2</sup>

## ELECTRICAL PARAMETER

Power Supply	Inventronics/Moso
Input Voltage	AC100-277V/240-480V
Power Frequency	50/60 Hz
Output Voltage	DC 350-400V
Output Current	4.35A
Power Efficiency	>95%
Power Factor	0.96
Total Harmonic Distortion	<20%

## OPTIONAL INFORMATION

Operating Humidity	15-90%RH
Storage Temperature	-40°C ~70°C
Junction Temperature	<75°C (Ta=30°C)

## GENERAL INFORMATION

System Power Consumption	1500W
Application	Outdoor
Fixture Material	AL1070
Ingress Protection	IP66
Life Span	>100000Hrs (Ta=30°C @L70)
Operating Temperature	-40°C ~50°C
Luminaire Ne Weight	22kg/48.5lbs (Remote driver)
Outlook Dimensions	553* 129mm (21.77*5.07 inch)

# ORDER BY PART NUMBER

Use this table to define your Gates Series fixture part number

Q	K	CRI	V	Color	Deg	Options
300	40	70	NV-120-277	GR-grey	10	VZ-Visor
400	50	80	HV-277-480	BL-black	15	RD-Remote Driver
500	57	90		WH-white	20	ID-Integrated Driver
600				C-custom	40	YK-Yoke Mount
750					60	KN-Knuckle Mount
1000					80	SF-Slipfit Mount
1200						AGR-Anti-Glare Ring
1500						

## How it works

Fill in the blanks below using the information from the table above:

Gates - Q \_\_\_\_\_ - \_\_\_\_ K - \_\_\_\_ CRI - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

**Part Number Example:** Gates Series fixture of 1200w, 5000k, 80cri, 480v, white, 40 degrees with a yoke mount, remote driver, and anti-glare ring:

Gates-Q**1200-50K-80CRI-HV-WH-40-YK-RD-AGR**

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## Lighting for All Sports

### CALL OR TEXT US TODAY

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**HEADQUARTERS**

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