



### THE ORIGIN

Current global warming and ENSO (El Nino Southern Oscillation) have caused dramatic change in human, biosphere and environment, issues are appearing one after another. "Carbon reduction" has been recognized as a priority challenge faced by each government worldwide. Advanced countries have progressively begun to phased out those inefficient and high energy consumption lighting products, making way for the market expansion of energy efficient lighting market. TYC Brother Industrial, a world class automotive lighting manufacturer, has established High-performance Luminaire business division since 2008, by means of self-developed techniques, combining fields of lighting, mechanical, electrical, thermal and intellectual control. With a highly experienced R&D team focus on design and engineering process including the use high-end optical design software, products are developed for different markets, such as a series of spot light, office light, concourse light and street light, inspiring great potential in green lighting.

### BUSINESS FOCUS

TYC's High-performance luminaire divided into two categories :

- a. Commercial lighting
- b. OEM

In the market of competitive lighting, TYC provided total services starting from professional planning, decent lighting and engineering, all-in-one business sales from design to production supply. Through TYC's good reputable sales in automotive lighting, it helps us to develop high performance luminaire products to meet different market demands, as well as OEM customers requirements. An actual project, successfully developed by TYC for Taiwan High Speed Rail cars, consisted of T8 LED light tubes , LED headlights and maintenance station lighting. The safety regulations and technical requirements were much rigorous than the general lighting considering it belongs to the public transport system. Moreover, Japan's Ministry of Railway was impressed by our technical capability, and by joining the International Union of Railways, TYC hopes the success of Taiwan technology and products can also be recognized internationally.

### IT'S A LIGHT, AND IT'S AN ART

In the future, TYC developed lighting not just as functional products, but has become a craft. TYC is now actively developing light guide technology, extensive application of the light guide, in addition to the lighting functions, enhance the design and increase brand recognition aside from the luminaire product. Such as, urban lighting in Shanghai, after planning the transformation of the light source, making night in Shanghai more charming than day time, becoming China's famous "City That Never Sleeps". If street

lamp can be combined with light guide, through a simple embellishment of light, it can create magnificent features. Market's sensitivity is one of the qualifications to success, no matter car lights or eco-light; marketing demand is our goal. TYC will use its original advantages, with technology expertise, product development, we hope to create reputable recognition in the energy-saving luminare industry worldwide.





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LED 投光燈  
Flood Light



50-E004  
180W LED Flood Light



Material	Aluminum alloy, Iron
Voltage	100~277V
Module input current	700mA
Operating temperature	-40 °C ~ +70 °C
Storage temperature	-40 °C ~ +80 °C
CCT	4500K±300K
CRI	70+
Lifetime of LED	50,000hrs
Power Factor	>0.95
IP code	IP66
Net Weight	7.6kg
BeamAngle	25° / 60° / 120°
Power consumption	180W
Luminous efficacy	87.5lm/W
Flux	16517 lm

水上水下集魚燈  
LED Fishing Lights /  
Underwater



50-E009  
LED Fishing Lights



Material	Aluminum alloy, Iron		
Voltage	AC 90~305V , 47~63Hz		
Output Voltage	DC 48±5V		
Operating temperature	-20 °C ~ +50 °C		
Lifetime of LED	20,000hrs		
Power Factor	>0.9		
Model number	50-E009	50-E009	50-E010
Power consumption	250W	200W	1000W
Module input current	4.45A	4A	17.8A
CCT	6500K	BLUE	BLUE
Optical wavelength	N/A	450~460nm	450~460nm
CRI	70+	N/A	N/A
Flux	>20,000 lm	>3,000 lm	>12,000 lm
LEDs	CREE MHB	CREE XTE	Lighten
BeamAngle	25° / 120°	25° / 120°	50° / 120°
IP code	IP67	IP67	IP68
Net Weight	4.796kg	4.796kg	12.62kg



50-E010  
1000W LED Underwater Fishing Light