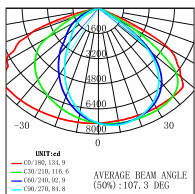
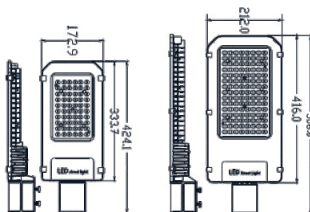
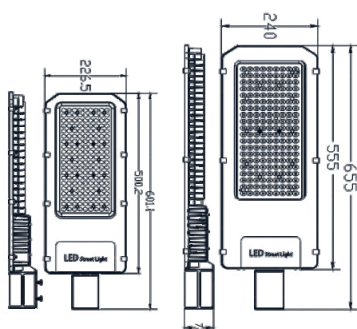




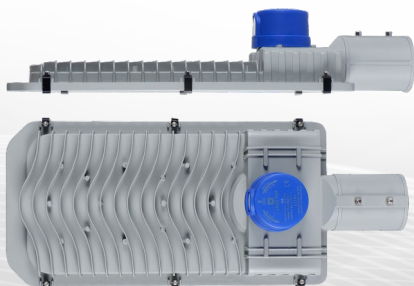
Butterfly EconoPro

LED ROAD LIGHT SERIES





Dist (M)	Enadir (lx)
10m	1.000
11m	0.826
12m	0.694
13m	0.592
14m	0.510



Technical Specifications

Electrical Characteristics

Wattage	60W	90W	120W	150W	180W
	Other wattages also available ranging from 35W to 240W				
LED Driver	SUNCOM				
LED Driver Type	Constant Current Programmable LED Driver / Constant Current LED Driver				
Voltage Range	100V - 277V 50/60HZ				
Power Factor	>0.95 (nominal power)				
Drive Current	100mA - 700mA				
Surge Protection	10KV Dedicate SPD				

Light Technical Characteristics

Lumen Package (Lm)	>8,400	>12,600	>16,800	>21,000	>25,200
	Other lumen packages also available ranging from 4,900 Lm to 35,000Lm				
System Efficacy	>140 Lm/W / 130 Lm/W				
Light Output Ratio (LOR)	>85%				
Light Source	Lumileds Lexteon 3030 2D / TYF SMD 3030				
LED Efficiency	>195 Lm/W / >170 Lm/W				
Color Rendering Index	Minimum 70				
Beam Angle	Standard Beam Angle 90 x 150 Degree Type II M (other Type(s) also available)				
Color Temperature	CW -5700K/ NW -4000K/ WW -3000K ±500K				
Lifetime	>60,000 hours				
Photometric Data	IES / LDT Photometric Data File are available				

Environmental Characteristics

Installation	48-60mm pole, side entry			
Mounting Height (Ideally)	6-8m	8-10m	10-12m	10-14m
Working temperature	-40°C to 55°C			
Wind force	Up to 150 km/h			
Relative humidity	Up to 95%RH			

Mechanical Parameters

Housing material	High pressure die-cast aluminum			
Gasket material	Heat resistant silicone rubber			
Glass	Tempered Glass			
Finishing	Corrosion resistant powder coating			
Weight (Approx.)	4kg	5kg	7kg	9kg
Certifications	CE LVD & CE EMC			
Classifications	IP66 & IK08			

Unique Features

Easy Maintenance	Tool-less opening of gear Compartment, Tool-less gear tray replacement & Tool less LED Module replacement
Future Proof Design	Upgradable to solar or any other future technologies
NEMA Control	Optional Provision for 7 pin NEMA socket & other connected solutions.
Applications	Expressways, Highways, Major Roads, Secondary Roads, Industrial Roads & Residential Roads.

Butterfly
EconoX
LED ROAD LIGHT SERIES

Butterfly[®]
LED LIGHTS
The Future of Lighting