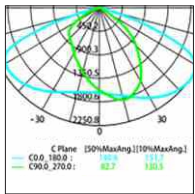
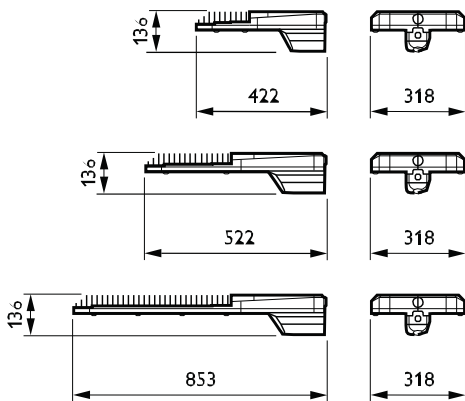
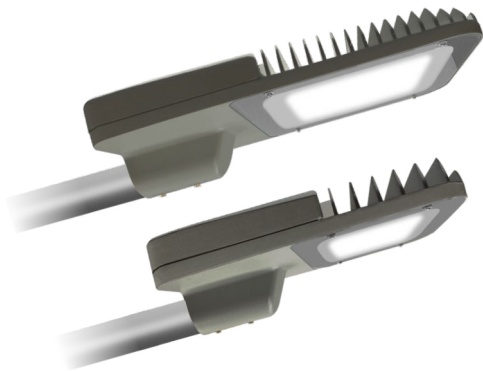




# Butterfly ExceedPro

LED ROAD LIGHTS 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          | 40W                                                    | 60W | 90W | 120W | 150W | 180W | 240W |
|------------------|--------------------------------------------------------|-----|-----|------|------|------|------|
|                  | Other wattages also available ranging from 35w to 314w |     |     |      |      |      |      |
| LED Driver       | Vossloh Schuabe ComfortLine-Prog-S-1-10V-100V-IP       |     |     |      |      |      |      |
| LED Driver Type  | Constant Current Programmable LED Driver               |     |     |      |      |      |      |
| Voltage Range    | 100-277V 50/60HZ                                       |     |     |      |      |      |      |
| Power Factor     | >0.95 (nominal power)                                  |     |     |      |      |      |      |
| Drive Current    | 100mA - 700mA                                          |     |     |      |      |      |      |
| Surge Protection | 10KV Dedicate & 10KV Drivers Built-in                  |     |     |      |      |      |      |

### Light Technical Characteristics

|                       |                                                                            |      |       |       |       |       |       |
|-----------------------|----------------------------------------------------------------------------|------|-------|-------|-------|-------|-------|
| Lumen Efficacy        | >140 Lm/W                                                                  |      |       |       |       |       |       |
| Lumen Package (Lm)    | 5600                                                                       | 8400 | 12600 | 16800 | 21000 | 25200 | 33600 |
|                       | Other lumen packages also available ranging from 4,550 Lm to 42390Lm       |      |       |       |       |       |       |
| Light Source          | Lumileds 3030 2D                                                           |      |       |       |       |       |       |
| LED Efficiency        | 195 Lm/w                                                                   |      |       |       |       |       |       |
| Color Rendering Index | Minimum 70                                                                 |      |       |       |       |       |       |
| Beam Angle            | Standard Beam Angle 90x150 Degree Type II M (other Type(s) also available) |      |       |       |       |       |       |
| Color Temperature     | CW -5700K / NW -4000K / WW -3000K ±500K                                    |      |       |       |       |       |       |
| Lifetime              | 50,000 hours (70% lumen maintenance @ Ta = 35°C)                           |      |       |       |       |       |       |

### Environmental Characteristics

|                     |                           |                     |                     |
|---------------------|---------------------------|---------------------|---------------------|
| Installation        | *48-60mm pole, side entry |                     |                     |
| Mounting Height     | Up to 6-10m               | Up to 8-12m         | Up to 10-15m        |
| Windage Area        | 0.134m <sup>2</sup>       | 0.166m <sup>2</sup> | 0.271m <sup>2</sup> |
| Working temperature | - 40°C < Ta - 55°C        |                     |                     |
| Wind force          | Up to 60m/s               |                     |                     |
| 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                                                                                                                               |               |               |
| Dimensions (LxWxH) | 422 x 318 x 136mm                                                                                                                                                | 522x318x136mm | 853x318x136mm |
| Weight             | 6kg Approx.                                                                                                                                                      | 9kg Approx.   | 14kg Approx.  |
| Certifications     | CE LVD, CE EMC, from accredited Laboratory to ISO17025 and recognized by ILAC. IP66, IK08, Salt Spray, Vibration, Photometric Test, Photo Biological Safety etc. |               |               |
| Protection         | 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 technology                                                                                       |
| Programmability              | The light can be programmed to work on multiple dimming stages to save energy in off-peak hours                                          |
| NEMA Photocell Sun-Switching | Dedicated NEMA photocell based switch to automatically turn the light ON at sunset and turn the light OFF at the sunrise (Optional Part) |
| Applications                 | Expressways, Highways, Major Roads, Secondary Roads, Industrial Roads & Residential Roads.                                               |