

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Amber Ball</b>	
<b>Model No.: EE-HBR-300AB</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	300mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	350mm x 350mmX 250mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Amber Ball
Number of Aspects	1
Aspect Diameter	300mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward current	20mA max
Wave Length -Typical	590 ± 5nm (Amber)
Viewing Angle	30° Typical
LED Intensity	Amber: >5000 mcd
Visibility	Better than 300 Meters.
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or 12/24V DC±10%
Power Consumption	Less than 8 Watt
Input/output Protection	Built-in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certification	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Red Ball</b>	
<b>Model No.: EE-HBR-300RB</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	300mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	350mm x 350mmX 250mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Red Ball
Number of Aspects	1
Aspect Diameter	300mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward current	20mA max
Wave Length -Typical	640 ± 5nm (Red)
Viewing Angle	30° Typical
LED Intensity	Red: >5000 mcd
Visibility	Better than 300 Meters.
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Less than 8 Watt
Input/output Protection	Built-in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Pedestrian Red</b>	
<b>Model No.: EE-HBR-300PR</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	300mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	350mm x 350mmX 250mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Red Man (STOP)
Number of Aspects	1
Aspect Diameter	300mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd, Symbol Class 2
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward Current	20mA max
Wave Length -Typical	640 ± 5nm (Red)
Viewing Angle	30° Typical
LED Intensity	Red: >5000 mcd
Visibility	Better than 300 Mtr
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Ped Red: 5W± 10%
Input/output Protection	Built -in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Pedestrian Green</b>	
<b>Model No.: EE-HBR-300PG</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	300mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	350mm x 350mmX 250mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Green Man (WALK)
Number of Aspects	1
Aspect Diameter	300mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd, Symbol Class 2
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward Current	20mA max
Wave Length -Typical	505 ± 4nm (Green)
Viewing Angle	30° Typical
LED Intensity	Green: >7000 mcd
Visibility	Better than 300 Mtr
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Ped Green: 5W± 10%
Input/output Protection	Built -in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Pedestrian Combo</b>	
<b>Model No.: EE-HBR-300PC</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	300mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	350mm x 350mmX 250mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Combo: Red Man (STOP) & Green Man (WALK)
Number of Aspects	1
Aspect Diameter	300mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd, Symbol Class 2
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward Current	20mA max
Wave Length -Typical	640 ± 5nm (Red) & 505 ± 4nm (Green)
Viewing Angle	30° Typical
LED Intensity	Red: >5000 mcd & Green: >7000 mcd
Visibility	Better than 300 Mtr
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Ped Red: 5W± 10% & Ped Green: 5W± 10%
Input/output Protection	Built -in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Green Ball</b>	
<b>Model No.: EE-HBR-300GB</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	300mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	350mm x 350mmX 250mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Green Ball
Number of Aspects	1
Aspect Diameter	300mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward current	20mA max
Wave Length -Typical	505 ± 4nm (Green)
Viewing Angle	30° Typical
LED Intensity	Green: >7000 mcd
Visibility	Better than 300 Meters.
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Less than 8 Watt
Input/output Protection	Built-in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Green Arrow</b>	
<b>Model No.: EE-HBR-300GA</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	300mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	350mm x 350mmX 250mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Green Arrow
Number of Aspects	1
Aspect Diameter	300mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd, Symbol Class 2
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward current	20mA max
Wave Length -Typical	505 ± 4nm (Green)
Viewing Angle	30° Typical
LED Intensity	Green: >7000 mcd
Visibility	Better than 300 Meters.
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Less than 5 Watt
Input/output Protection	Built-in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Dual Arrow</b>	
<b>Model No.: EE-HBR-300DA</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	300mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	350mm x 350mmX 250mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Combo: Red Arrow & Green Arrow
Number of Aspects	1
Aspect Diameter	300mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd, Symbol Class 2
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward Current	20mA max
Wave Length -Typical	640 ± 5nm (Red) & 505 ± 4nm (Green)
Viewing Angle	30° Typical
LED Intensity	Red: >5000 mcd & Green: >7000 mcd
Visibility	Better than 300 Mtr
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Red Arrow: 5W± 10% & Green Arrow: 5W± 10%
Input/output Protection	Built -in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368



## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Red Ball</b>	
<b>Model No.: EE-HBR-200RB</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	300mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	270mm x 270mmX 245mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Red Ball
Number of Aspects	1
Aspect Diameter	200mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward current	20mA max
Wave Length -Typical	640 ± 5nm (Red)
Viewing Angle	30° Typical
LED Intensity	Red: >5000 mcd
Visibility	Better than 200 Meters.
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Less than 8 Watt
Input/output Protection	Built-in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Pedestrian Red</b>	
<b>Model No.: EE-HBR-200PR</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	200mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	270mm x 270mmX 245mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Red Man (STOP)
Number of Aspects	1
Aspect Diameter	200mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd, Symbol Class 2
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward Current	20mA max
Wave Length -Typical	640 ± 5nm (Red)
Viewing Angle	30° Typical
LED Intensity	Red: >5000 mcd
Visibility	Better than 200 Mtr
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Ped Red: 5W± 10%
Input/output Protection	Built -in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Pedestrian Green</b>	
<b>Model No.: EE-HBR-200PG</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	200mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	270mm x 270mmX 245mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Green Man (WALK)
Number of Aspects	1
Aspect Diameter	200mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd, Symbol Class 2
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward Current	20mA max
Wave Length -Typical	505 ± 4nm (Green)
Viewing Angle	30° Typical
LED Intensity	Green: >7000 mcd
Visibility	Better than 200 Mtr
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Ped Green: 5W± 10%
Input/output Protection	Built -in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Green Ball</b>	
<b>Model No.: EE-HBR-200GB</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	200mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	270mm x 270mmX 245mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Green Ball
Number of Aspects	1
Aspect Diameter	200mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward current	20mA max
Wave Length -Typical	505 ± 4nm (Green)
Viewing Angle	30° Typical
LED Intensity	Green: >7000 mcd
Visibility	Better than 200 Meters.
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Less than 8 Watt
Input/output Protection	Built-in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Green Arrow</b>	
<b>Model No.: EE-HBR-200GA</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	200mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	270mm x 270mmX 245mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Green Arrow
Number of Aspects	1
Aspect Diameter	200mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd, Symbol Class 2
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward current	20mA max
Wave Length -Typical	505 ± 4nm (Green)
Viewing Angle	30° Typical
LED Intensity	Green: >7000 mcd
Visibility	Better than 200 Meters.
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or !2/24V DC±10%
Power Consumption	Less than 5 Watt
Input/output Protection	Built-in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368

## Technical Data Sheet

<b>NAME OF THE PRODUCT: Hi Brite LED Traffic Lights: Amber Ball</b>	
<b>Model No.: EE-HBR-200AB</b>	
<b>Technology:</b> Hi-Brite Light Emitting Diode (LED)	
<b>LED Housing</b>	
Housing Type	200mm Moulded
Housing Material	UV – Stabilized Polycarbonate (Black)
Housing Dimension	270mm x 270mmX 245mm approx.
Hood Color	Black
<b>LED Aspect</b>	
Aspect Type	Amber Ball
Number of Aspects	1
Aspect Diameter	200mm ± 5%
Aspect Lens	Polycarbonate (Clear)
Aspect Mounting	Pole mounted
Luminous Intensity	≥400cd
<b>LED</b>	
Type	Hi-Brite, 5mm, water clear.
Forward current	20mA max
Wave Length -Typical	590 ± 5nm (Amber)
Viewing Angle	30° Typical
LED Intensity	Amber: >5000 mcd
Visibility	Better than 200 Meters.
Weight	1.5 Kg Approx
<b>Power</b>	
Power Supply	Constant Current/Constant Voltage
Input Voltage	230V AC or 12/24V DC±10%
Power Consumption	Less than 8 Watt
Input/output Protection	Built-in Power-Supply with Surge Supressor & Over-load /Over voltage protection.
<b>Environmental</b>	
Operating Temperature	-10°C to +70° C
Humidity	95% RH
Ingress Protection	IP 65
Certificate	EN12368