



ClearFlood Large – The best solution for 1:1 retrofit

ClearFlood Large

ClearFlood Large is designed to meet the requirements of a wide range of floodlighting applications. It also includes all the necessary control features and interfaces to make it future-proof and even more efficient. ClearFlood Large lets you choose the exact number of lumens you need for your application. Incorporating extremely high-efficiency optics and state-of-the-art LEDs, it is a highly competitive solution offering an outstanding lux/euro ratio and energy savings of up to 50% (without the use of additional controls). The wide choice of optics ensures maximum application coverage. ClearFlood Large is easy to install – you simply plug it in and select the best option for your needs. Perfect for replacing conventional technology and enabling intelligent lighting control while retaining the same electrical installation and poles. Tailor made solution : For tuned project solutions Philips can support with the exclusive L-Tune tool : build required flux to the best balance of life, maintained flux, energy, cost and product type.

Benefits

- Designed for 1:1 retrofit, perfect for replacing conventional technology retaining the same electrical installation and poles.
- Offering a large variety of lighting needs from recreational sport, areas and even road and street, by providing a variety of optics used in the range.
- Fast payback and low Total Cost of Ownership with energy savings and minimum maintenance costs
- Multiple control options ensure increased efficiency with intelligent lighting (DALI, CityTouch ready geolocalization...)

ClearFlood Large

Features

- Designed for 1:1 retrofit up to 1000 W HID
- Wide range of lumen packages between 30 klm and 64 klm (system)
- Easy replacement of gear and PCB, no tooling required.
- Wide range of control options, such as CityTouch Ready, CLO, DALI, 1-10 V
- LEDs and optics deliver highest level of efficiency (up to 130 lm/W).
- 100% Philips components.
- Wide choice of optics to suit all applications - Sport and Areas lighting - Asymmetrical, Road and Symmetrical beams with or without louver (optional). New Asymmetrical Optic for Sport lighting (Tennis...)
- Optimized architecture for 4 kV surge (optional 10 kV).
- IP66 and IK08 protection.
- Long lifetime : 100 Khrs (L80B10 at T a 25°C)

Application

- Airports
- Harbors
- Large recreational sports facilities
- Industrial areas
- Roundabouts and motorway junctions

Specifications

Type	BVP651:LEDxxx-4S BVP651i: additional options via configurator
Light source	Integral LED-module
Power	Up to 553 W (+/- 11%) all CCT
Luminous flux	Up to 62000 lm (NW/CW) (-/+7%)
Luminaire efficacy	Up to 130 lm/W (NW/CW)
Correlated Color	3000, 4000 or 5700 K
Temperature	
Color Rendering Index	80 / 70 / 70
Lumen maintenance at median useful life* 100000 h	up to L93
Control gear failure rate at median useful life 100000 h	10%
Performance Ambient Temperature Tq	+25 °C
Operating temperature range	-40 to +45 °C
Driver	Built-in (self-ballasted LED-module) - NTC
Mains voltage	220-240 V AC / 50-60 Hz
Power factor	>0.95
Surge protection	4 kV as standard, 10 kV as option
Dimming	Dimming via external communication (DALI) Dimming via mains voltage (AmpDim) Dimming via DynaDimmer (5 steps) Constant Light Output (CLO) CityTouch ready; GPRS antenna
Controls system input	DALI

Options	Class I or II (MSP) Marine salt protection - 1000 h (SPO) Swimming Pool Protection
Optic	Asymmetrical, symmetrical and road optics
Optical element	Louver for limited backlight cut-off (BL1 and BL2)
Optical cover	Clear tempered flat glass
Material	Die-cast aluminum
Color	RAL9007 matt
Connection	Mains power via a waterproof connector (supplied) mounted on the projector and accepting cable diameters between 10 to 14 mm External control command DALI (D9), via the supplied waterproof connector (same as the mains supply) accepting cable diameters from 10 mm to 14 mm, or cable entry via 2 waterproof connectors supplied (in DALI / DALI out)
Maintenance	No internal cleaning required Direct access to LED engine modules and drivers Gear replacement can be asked via options Spare part list available (glass, optics, bracket, protractor scale, PCB LED, connector)

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Installation	U-shaped mounting bracket with foot-print suitable for 3-point fixation by means of M20 bolts
	Vertical aiming from the horizontal: -90° / +90°, memory cap
	Standing-up or hanging-down mounting /U-bracket stirrup with standard bolts and nuts
	Protractor scale with intervals of 5°, memory cap
	Ready for CityTouch (based on DALI protocol) with external tray fixed on the bracket

	Projected area in horizontal position: at 0° 0.05 SCx: at 90° : 0.41 m², at 0° : 0.05 m², at 15° : 0.13 m²
	Max adjustment from the horizontal: -170 to +170°
Cable gland	External IP67 waterproof, plug-in connector (5-pin)
Remarks	CE, ENEC, RoHS, VDE-Ball proof

Versions



Product details



Universal bracket for mounting / tilting.



Side view



Memory cap.



External connector with 5 poles IP67.

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Product details



Easy to plug in. No tooling required.



Clearflood Large CityTouch-DPP.jpg

Approval and Application

Mech. impact protection code	IK08
Surge Protection (Common/Differential)	Luminaire surge protection level until 4 kV differential mode and 4 kV common mode

Controls and Dimming

Dimmable	No
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General Information

CE mark	CE mark
Light source color	740 neutral white
Optical cover/lens type	Flat glass
Driver included	Yes
ENEC mark	ENEC mark
Flammability mark	For mounting on normally flammable surfaces
Light source replaceable	Yes
Number of gear units	2 units
Product Family Code	BVP651

Initial Performance (IEC Compliant)

Init. Corr. Color Temperature	4000 K
Init. Color Rendering Index	≥70

Light Technical

Standard tilt angle side entry	0°
Standard tilt angle posttop	0°
Upward light output ratio	0

General Information

Order Code	Full Product Name	Luminaire light beam spread	Lamp family code	Optic type
912300023731	BVP651 LED450-4S/740 S ALU PSU	70° x 21°	LED450	Symmetrical
912300023732	BVP651 LED450-4S/740 OFA52 ALU PSU	39° - 11° x 98°	LED450	Optiflux asymmetrical axis angle 52°
912300023733	BVP651 LED450-4S/740 DM10 ALU PSU	157° x 111°	LED450	Distribution medium 10
912300023734	BVP651 LED450-4S/740 DW10 ALU PSU	52° - 7° x 151°	LED450	Distribution wide 10
912300023735	BVP651 LED450-4S/740 DX10 ALU PSU	20° - 4° x 150°	LED450	Distribution extra wide 10
912300023736	BVP651 LED450-4S/740 DX50 ALU PSU	17° - 5° x 132°	LED450	Distribution extra wide 50
912300023737	BVP651 LED450-4S/740 DX51 ALU PSU	14° - 5° x 132°	LED450	Distribution extra wide 51
912300023738	BVP651 LED500-4S/740 S ALU PSU	70° x 21°	LED500	Symmetrical
912300023739	BVP651 LED500-4S/740 OFA52 ALU PSU	39° - 11° x 98°	LED500	Optiflux asymmetrical axis angle 52°
912300023740	BVP651 LED500-4S/740 DM10 ALU PSU	157° x 111°	LED500	Distribution medium 10
912300023741	BVP651 LED500-4S/740 DW10 ALU PSU	52° - 7° x 151°	LED500	Distribution wide 10
912300023742	BVP651 LED500-4S/740 DX10 ALU PSU	20° - 4° x 150°	LED500	Distribution extra wide 10
912300023743	BVP651 LED500-4S/740 DX50 ALU PSU	17° - 5° x 132°	LED500	Distribution extra wide 50
912300023744	BVP651 LED500-4S/740 DX51 ALU PSU	14° - 5° x 132°	LED500	Distribution extra wide 51
912300023745	BVP651 LED550-4S/740 S ALU PSU	70° x 21°	LED550	Symmetrical
912300023746	BVP651 LED550-4S/740 OFA52 ALU PSU	39° - 11° x 98°	LED550	Optiflux asymmetrical axis angle 52°
912300023747	BVP651 LED550-4S/740 DM10 ALU PSU	157° x 111°	LED550	Distribution medium 10
912300023748	BVP651 LED550-4S/740 DW10 ALU PSU	52° - 7° x 151°	LED550	Distribution wide 10

Order Code	Full Product Name	Luminaire light beam spread	Lamp family code	Optic type
912300023749	BVP651 LED550-4S/740 DX10 ALU PSU	20° - 4° x 150°	LED550	Distribution extra wide 10
912300023750	BVP651 LED550-4S/740 DX50 ALU PSU	17° - 5° x 132°	LED550	Distribution extra wide 50
912300023751	BVP651 LED550-4S/740 DX51 ALU PSU	14° - 5° x 132°	LED550	Distribution extra wide 51
912300023752	BVP651 LED600-4S/740 S ALU PSU	70° x 21°	LED600	Symmetrical
912300023753	BVP651 LED600-4S/740 OFA52 ALU PSU	39° - 11° x 98°	LED600	Optiflux asymmetrical axis angle 52°
912300023754	BVP651 LED600-4S/740 DM10 ALU PSU	157° x 111°	LED600	Distribution medium 10
912300023755	BVP651 LED600-4S/740 DW10 ALU PSU	52° - 7° x 151°	LED600	Distribution wide 10
912300023756	BVP651 LED600-4S/740 DX10 ALU PSU	20° - 4° x 150°	LED600	Distribution extra wide 10
912300023757	BVP651 LED600-4S/740 DX50 ALU PSU	17° - 5° x 132°	LED600	Distribution extra wide 50
912300023758	BVP651 LED600-4S/740 DX51 ALU PSU	14° - 5° x 132°	LED600	Distribution extra wide 51
912300023759	BVP651 LED650-4S/740 S ALU PSU	70° x 21°	LED650	Symmetrical
912300023760	BVP651 LED650-4S/740 OFA52 ALU PSU	39° - 11° x 98°	LED650	Optiflux asymmetrical axis angle 52°
912300023761	BVP651 LED650-4S/740 DM10 ALU PSU	157° x 111°	LED650	Distribution medium 10
912300023762	BVP651 LED650-4S/740 DW10 ALU PSU	52° - 7° x 151°	LED650	Distribution wide 10
912300023763	BVP651 LED650-4S/740 DX10 ALU PSU	20° - 4° x 150°	LED650	Distribution extra wide 10
912300023764	BVP651 LED650-4S/740 DX50 ALU PSU	17° - 5° x 132°	LED650	Distribution extra wide 50
912300023765	BVP651 LED650-4S/740 DX51 ALU PSU	14° - 5° x 132°	LED650	Distribution extra wide 51
912300023766	BVP651 LED700-4S/740 S ALU PSU	70° x 21°	LED700	Symmetrical
912300023767	BVP651 LED700-4S/740 OFA52 ALU PSU	39° - 11° x 98°	LED700	Optiflux asymmetrical axis angle 52°
912300023768	BVP651 LED700-4S/740 DM10 ALU PSU	157° x 111°	LED700	Distribution medium 10
912300023769	BVP651 LED700-4S/740 DW10 ALU PSU	52° - 7° x 151°	LED700	Distribution wide 10
912300023770	BVP651 LED700-4S/740 DX10 ALU PSU	20° - 4° x 150°	LED700	Distribution extra wide 10
912300023771	BVP651 LED700-4S/740 DX50 ALU PSU	17° - 5° x 132°	LED700	Distribution extra wide 50
912300023772	BVP651 LED700-4S/740 DX51 ALU PSU	14° - 5° x 132°	LED700	Distribution extra wide 51
912300023793	BVP651 LED750-4S/740 S ALU PSU	70° x 21°	LED750	Symmetrical

Order Code	Full Product Name	Luminaire light beam spread	Lamp family code	Optic type
912300023794	BVP651 LED750-4S/740 OFA52 ALU PSU	39° - 11° x 98°	LED750	Optiflux asymmetrical axis angle 52°
912300023795	BVP651 LED750-4S/740 DM10 ALU PSU	157° x 111°	LED750	Distribution medium 10
912300023796	BVP651 LED750-4S/740 DW10 ALU PSU	52° - 7° x 151°	LED750	Distribution wide 10
912300023797	BVP651 LED750-4S/740 DX10 ALU PSU	20° - 4° x 150°	LED750	Distribution extra wide 10
912300023798	BVP651 LED750-4S/740 DX50 ALU PSU	17° - 5° x 132°	LED750	Distribution extra wide 50
912300023799	BVP651 LED750-4S/740 DX51 ALU PSU	14° - 5° x 132°	LED750	Distribution extra wide 51
912300023961	BVP651 LED450-4S/740 DX60 ALU PSU	8° - 26° x 82°	LED450	Distribution extra wide 60
912300023962	BVP651 LED500-4S/740 DX60 ALU PSU	8° - 26° x 82°	LED500	Distribution extra wide 60
912300023963	BVP651 LED550-4S/740 DX60 ALU PSU	8° - 26° x 82°	LED550	Distribution extra wide 60
912300023964	BVP651 LED600-4S/740 DX60 ALU PSU	8° - 26° x 82°	LED600	Distribution extra wide 60
912300023965	BVP651 LED650-4S/740 DX60 ALU PSU	8° - 26° x 82°	LED650	Distribution extra wide 60
912300023966	BVP651 LED700-4S/740 DX60 ALU PSU	8° - 26° x 82°	LED700	Distribution extra wide 60
912300023967	BVP651 LED750-4S/740 DX60 ALU PSU	8° - 26° x 82°	LED750	Distribution extra wide 60

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial luminous flux	Order Code	Full Product Name	Initial luminous flux
912300023731	BVP651 LED450-4S/740 S ALU PSU	38600 lm	912300023752	BVP651 LED600-4S/740 S ALU PSU	50559 lm
912300023732	BVP651 LED450-4S/740 OFA52 ALU PSU	38029 lm	912300023753	BVP651 LED600-4S/740 OFA52 ALU PSU	49811 lm
912300023733	BVP651 LED450-4S/740 DM10 ALU PSU	37765 lm	912300023754	BVP651 LED600-4S/740 DM10 ALU PSU	49465 lm
912300023734	BVP651 LED450-4S/740 DW10 ALU PSU	37897 lm	912300023755	BVP651 LED600-4S/740 DW10 ALU PSU	49638 lm
912300023735	BVP651 LED450-4S/740 DX10 ALU PSU	36358 lm	912300023756	BVP651 LED600-4S/740 DX10 ALU PSU	47623 lm
912300023736	BVP651 LED450-4S/740 DX50 ALU PSU	36622 lm	912300023757	BVP651 LED600-4S/740 DX50 ALU PSU	47968 lm
912300023737	BVP651 LED450-4S/740 DX51 ALU PSU	22334 lm	912300023758	BVP651 LED600-4S/740 DX51 ALU PSU	29253 lm
912300023738	BVP651 LED500-4S/740 S ALU PSU	42688 lm	912300023759	BVP651 LED650-4S/740 S ALU PSU	54411 lm
912300023739	BVP651 LED500-4S/740 OFA52 ALU PSU	42056 lm	912300023760	BVP651 LED650-4S/740 OFA52 ALU PSU	53606 lm
912300023740	BVP651 LED500-4S/740 DM10 ALU PSU	41764 lm	912300023761	BVP651 LED650-4S/740 DM10 ALU PSU	53234 lm
912300023741	BVP651 LED500-4S/740 DW10 ALU PSU	41910 lm	912300023762	BVP651 LED650-4S/740 DW10 ALU PSU	53420 lm
912300023742	BVP651 LED500-4S/740 DX10 ALU PSU	40208 lm	912300023763	BVP651 LED650-4S/740 DX10 ALU PSU	51251 lm
912300023743	BVP651 LED500-4S/740 DX50 ALU PSU	40500 lm	912300023764	BVP651 LED650-4S/740 DX50 ALU PSU	51623 lm
912300023744	BVP651 LED500-4S/740 DX51 ALU PSU	24699 lm	912300023765	BVP651 LED650-4S/740 DX51 ALU PSU	31482 lm
912300023745	BVP651 LED550-4S/740 S ALU PSU	46642 lm	912300023766	BVP651 LED700-4S/740 S ALU PSU	58165 lm
912300023746	BVP651 LED550-4S/740 OFA52 ALU PSU	45951 lm	912300023767	BVP651 LED700-4S/740 OFA52 ALU PSU	57304 lm
912300023747	BVP651 LED550-4S/740 DM10 ALU PSU	45632 lm	912300023768	BVP651 LED700-4S/740 DM10 ALU PSU	56906 lm
912300023748	BVP651 LED550-4S/740 DW10 ALU PSU	45792 lm	912300023769	BVP651 LED700-4S/740 DW10 ALU PSU	57105 lm
912300023749	BVP651 LED550-4S/740 DX10 ALU PSU	43933 lm	912300023770	BVP651 LED700-4S/740 DX10 ALU PSU	54786 lm
912300023750	BVP651 LED550-4S/740 DX50 ALU PSU	44251 lm	912300023771	BVP651 LED700-4S/740 DX50 ALU PSU	55184 lm
912300023751	BVP651 LED550-4S/740 DX51 ALU PSU	26986 lm	912300023772	BVP651 LED700-4S/740 DX51 ALU PSU	33654 lm

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Order Code	Full Product Name	Initial luminous flux
912300023793	BVP651 LED750-4S/740 S ALU PSU	63434 lm
912300023794	BVP651 LED750-4S/740 OFA52 ALU PSU	62495 lm
912300023795	BVP651 LED750-4S/740 DM10 ALU PSU	62061 lm
912300023796	BVP651 LED750-4S/740 DW10 ALU PSU	62278 lm
912300023797	BVP651 LED750-4S/740 DX10 ALU PSU	59749 lm
912300023798	BVP651 LED750-4S/740 DX50 ALU PSU	60183 lm
912300023799	BVP651 LED750-4S/740 DX51 ALU PSU	36702 lm

Order Code	Full Product Name	Initial luminous flux
912300023961	BVP651 LED450-4S/740 DX60 ALU PSU	39040 lm
912300023962	BVP651 LED500-4S/740 DX60 ALU PSU	43174 lm
912300023963	BVP651 LED550-4S/740 DX60 ALU PSU	47173 lm
912300023964	BVP651 LED600-4S/740 DX60 ALU PSU	51135 lm
912300023965	BVP651 LED650-4S/740 DX60 ALU PSU	55031 lm
912300023966	BVP651 LED700-4S/740 DX60 ALU PSU	58828 lm
912300023967	BVP651 LED750-4S/740 DX60 ALU PSU	64156 lm

Mechanical and Housing

Order Code	Full Product Name	Color
912300023731	BVP651 LED450-4S/740 S ALU PSU	Gray
912300023732	BVP651 LED450-4S/740 OFA52 ALU PSU	Gray
912300023733	BVP651 LED450-4S/740 DM10 ALU PSU	Gray
912300023734	BVP651 LED450-4S/740 DW10 ALU PSU	Gray
912300023735	BVP651 LED450-4S/740 DX10 ALU PSU	Gray
912300023736	BVP651 LED450-4S/740 DX50 ALU PSU	Gray
912300023737	BVP651 LED450-4S/740 DX51 ALU PSU	Gray
912300023738	BVP651 LED500-4S/740 S ALU PSU	Gray
912300023739	BVP651 LED500-4S/740 OFA52 ALU PSU	Gray
912300023740	BVP651 LED500-4S/740 DM10 ALU PSU	Gray
912300023741	BVP651 LED500-4S/740 DW10 ALU PSU	Gray
912300023742	BVP651 LED500-4S/740 DX10 ALU PSU	Gray
912300023743	BVP651 LED500-4S/740 DX50 ALU PSU	Gray
912300023744	BVP651 LED500-4S/740 DX51 ALU PSU	Gray
912300023745	BVP651 LED550-4S/740 S ALU PSU	Gray
912300023746	BVP651 LED550-4S/740 OFA52 ALU PSU	Gray
912300023747	BVP651 LED550-4S/740 DM10 ALU PSU	Gray
912300023748	BVP651 LED550-4S/740 DW10 ALU PSU	Gray
912300023749	BVP651 LED550-4S/740 DX10 ALU PSU	Gray
912300023750	BVP651 LED550-4S/740 DX50 ALU PSU	Gray
912300023751	BVP651 LED550-4S/740 DX51 ALU PSU	Gray
912300023752	BVP651 LED600-4S/740 S ALU PSU	Gray
912300023753	BVP651 LED600-4S/740 OFA52 ALU PSU	Gray
912300023754	BVP651 LED600-4S/740 DM10 ALU PSU	Gray
912300023755	BVP651 LED600-4S/740 DW10 ALU PSU	Gray
912300023756	BVP651 LED600-4S/740 DX10 ALU PSU	Gray
912300023757	BVP651 LED600-4S/740 DX50 ALU PSU	Gray
912300023758	BVP651 LED600-4S/740 DX51 ALU PSU	Gray

Order Code	Full Product Name	Color
912300023759	BVP651 LED650-4S/740 S ALU PSU	Gray
912300023760	BVP651 LED650-4S/740 OFA52 ALU PSU	Gray
912300023761	BVP651 LED650-4S/740 DM10 ALU PSU	Gray
912300023762	BVP651 LED650-4S/740 DW10 ALU PSU	Gray
912300023763	BVP651 LED650-4S/740 DX10 ALU PSU	Gray
912300023764	BVP651 LED650-4S/740 DX50 ALU PSU	Gray
912300023765	BVP651 LED650-4S/740 DX51 ALU PSU	Gray
912300023766	BVP651 LED700-4S/740 S ALU PSU	Gray
912300023767	BVP651 LED700-4S/740 OFA52 ALU PSU	Gray
912300023768	BVP651 LED700-4S/740 DM10 ALU PSU	Gray
912300023769	BVP651 LED700-4S/740 DW10 ALU PSU	Gray
912300023770	BVP651 LED700-4S/740 DX10 ALU PSU	Gray
912300023771	BVP651 LED700-4S/740 DX50 ALU PSU	Gray
912300023772	BVP651 LED700-4S/740 DX51 ALU PSU	Gray
912300023793	BVP651 LED750-4S/740 S ALU PSU	Gray
912300023794	BVP651 LED750-4S/740 OFA52 ALU PSU	Gray
912300023795	BVP651 LED750-4S/740 DM10 ALU PSU	Gray
912300023796	BVP651 LED750-4S/740 DW10 ALU PSU	Gray
912300023797	BVP651 LED750-4S/740 DX10 ALU PSU	Gray
912300023798	BVP651 LED750-4S/740 DX50 ALU PSU	Aluminum
912300023799	BVP651 LED750-4S/740 DX51 ALU PSU	Gray
912300023961	BVP651 LED450-4S/740 DX60 ALU PSU	Gray
912300023962	BVP651 LED500-4S/740 DX60 ALU PSU	Gray
912300023963	BVP651 LED550-4S/740 DX60 ALU PSU	Gray
912300023964	BVP651 LED600-4S/740 DX60 ALU PSU	Gray
912300023965	BVP651 LED650-4S/740 DX60 ALU PSU	Gray
912300023966	BVP651 LED700-4S/740 DX60 ALU PSU	Gray
912300023967	BVP651 LED750-4S/740 DX60 ALU PSU	Gray

