



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 40% (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.

Benefits

- Fast payback and low Total Cost of Ownership with energy savings and minimum maintenance costs
- Multiple control options ensure increased efficiency with intelligent lighting
- Combination of lenses and flux options ensures high level of project flexibility

ClearFlood Large

Features

- Designed for 1:1 retrofit up to 1000 W HID
- Wide range of lumen packages between 30 klm and 65 klm
- Gear and PCB easy to replace
- Wide range of control options, such as CityTouch Ready, CLO, DALI, 1-10 V
- LEDs and optics deliver highest level of efficiency
- Components are 100% Philips
- Wide choice of optics to suit all applications: 3x Asymmetrical, 3x Road, 3x Symmetrical, versions with louver (optional)
- Optimized architecture for 4 kV surge (optional 10 kV), IP66 and IK08 protection

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*	up to L93
100000 h	
Control gear failure rate at median useful life	10%
100000 h	
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)
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

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Versions



Product details



OPDP_BVP650i_0013-Detail
photo



OPDP_BVP650i_0017-Detail
photo



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
Driver included	Yes
Flammability mark	F
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 (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Optical		
			cover/lens type	Lamp family code	Lamp version
10775800	BVP651 LED450-4S/740 S ALU PSU	70° x 21°	FG	LED450	-
10776500	BVP651 LED450-4S/740 OFA52 ALU PSU	39° - 11° x 98°	FG	LED450	-
10777200	BVP651 LED450-4S/740 DM10 ALU PSU	157° x 111°	FG	LED450	-
10780200	BVP651 LED450-4S/740 DX50 ALU PSU	17° - 5° x 132°	FG	LED450	-
10782600	BVP651 LED500-4S/740 S ALU PSU	70° x 21°	FG	LED500	-
10783300	BVP651 LED500-4S/740 OFA52 ALU PSU	39° - 11° x 98°	FG	LED500	-
10784000	BVP651 LED500-4S/740 DM10 ALU PSU	157° x 111°	FG	LED500	-
10787100	BVP651 LED500-4S/740 DX50 ALU PSU	17° - 5° x 132°	FG	LED500	-
10789500	BVP651 LED550-4S/740 S ALU PSU	70° x 21°	FG	LED550	-
10790100	BVP651 LED550-4S/740 OFA52 ALU PSU	39° - 11° x 98°	FG	LED550	-
10791800	BVP651 LED550-4S/740 DM10 ALU PSU	157° x 111°	FG	LED550	-
10793200	BVP651 LED550-4S/740 DX10 ALU PSU	20° - 4° x 150°	FG	LED550	-
10794900	BVP651 LED550-4S/740 DX50 ALU PSU	17° - 5° x 132°	FG	LED550	-
10796300	BVP651 LED600-4S/740 S ALU PSU	70° x 21°	FG	LED600	-
10797000	BVP651 LED600-4S/740 OFA52 ALU PSU	39° - 11° x 98°	FG	LED600	-
10798700	BVP651 LED600-4S/740 DM10 ALU PSU	157° x 111°	FG	LED600	-
10801400	BVP651 LED600-4S/740 DX50 ALU PSU	17° - 5° x 132°	FG	LED600	-
10803800	BVP651 LED650-4S/740 S ALU PSU	70° x 21°	FG	LED650	-
10804500	BVP651 LED650-4S/740 OFA52 ALU PSU	39° - 11° x 98°	FG	LED650	-
10805200	BVP651 LED650-4S/740 DM10 ALU PSU	157° x 111°	FG	LED650	-
10807600	BVP651 LED650-4S/740 DX10 ALU PSU	20° - 4° x 150°	FG	LED650	-
10808300	BVP651 LED650-4S/740 DX50 ALU PSU	17° - 5° x 132°	FG	LED650	-
10810600	BVP651 LED700-4S/740 S ALU PSU	70° x 21°	FG	LED700	-
10811300	BVP651 LED700-4S/740 OFA52 ALU PSU	39° - 11° x 98°	FG	LED700	-

Order Code	Full Product Name	Luminaire light beam spread	Optical		
			cover/lens type	Lamp family code	Lamp version
10812000	BVP651 LED700-4S/740 DM10 ALU PSU	157° x 111°	FG	LED700	-
10815100	BVP651 LED700-4S/740 DX50 ALU PSU	17° - 5° x 132°	FG	LED700	-
11281300	BVP651 LED750-4S/740 S ALU PSU	70° x 21°	FG	LED750	-
11282000	BVP651 LED750-4S/740 OFA52 ALU PSU	39° - 11° x 98°	FG	LED750	-
11283700	BVP651 LED750-4S/740 DM10 ALU PSU	157° x 111°	FG	LED750	-
11286800	BVP651 LED750-4S/740 DX50 ALU PSU	17° - 5° x 132°	FG	LED750	-
11287500	BVP651 LED750-4S/740 DX51 ALU PSU	14° - 5° x 132°	FG	LED750	-
12902600	BVP651 LED450-4S/740 DX60 ALU PSU	8° - 26° x 82°	FG	LED450	-
12903300	BVP651 LED500-4S/740 DX60 ALU PSU	8° - 26° x 82°	FG	LED500	-
12904000	BVP651 LED550-4S/740 DX60 ALU PSU	8° - 26° x 82°	FG	LED550	-
12905700	BVP651 LED600-4S/740 DX60 ALU PSU	8° - 26° x 82°	FG	LED600	-
12906400	BVP651 LED650-4S/740 DX60 ALU PSU	8° - 26° x 82°	FG	LED650	-
12907100	BVP651 LED700-4S/740 DX60 ALU PSU	8° - 26° x 82°	FG	LED700	-
12908800	BVP651 LED750-4S/740 DX60 ALU PSU	8° - 26° x 82°	FG	LED750	-
88973900	BVP651 LED800-4S/740 PSU DX50 ALU	17° - 5° x 132°	G	LED800	4S

General Information (2/2)

Order Code	Full Product Name	Optic type	Service tag	Order Code	Full Product Name	Optic type	Service tag
10775800	BVP651 LED450-4S/740 S ALU PSU	Symmetrical	-	10787100	BVP651 LED500-4S/740 DX50 ALU PSU	Distribution extra wide 50	-
10776500	BVP651 LED450-4S/740 OFA52 ALU PSU	Optiflux asymmetrical axis angle 52°	-	10789500	BVP651 LED550-4S/740 S ALU PSU	Symmetrical	-
10777200	BVP651 LED450-4S/740 DM10 ALU PSU	Distribution medium 10	Yes	10790100	BVP651 LED550-4S/740 OFA52 ALU PSU	Optiflux asymmetrical axis angle 52°	-
10780200	BVP651 LED450-4S/740 DX50 ALU PSU	Distribution extra wide 50	-	10791800	BVP651 LED550-4S/740 DM10 ALU PSU	Distribution medium 10	-
10782600	BVP651 LED500-4S/740 S ALU PSU	Symmetrical	-	10793200	BVP651 LED550-4S/740 DX10 ALU PSU	Distribution extra wide 10	-
10783300	BVP651 LED500-4S/740 OFA52 ALU PSU	Optiflux asymmetrical axis angle 52°	-	10794900	BVP651 LED550-4S/740 DX50 ALU PSU	Distribution extra wide 50	-
10784000	BVP651 LED500-4S/740 DM10 ALU PSU	Distribution medium 10	-	10796300	BVP651 LED600-4S/740 S ALU PSU	Symmetrical	-

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Order Code	Full Product Name	Optic type	Service tag
10797000	BVP651 LED600-4S/740 OFA52 ALU PSU	Optiflux asymmetrical axis angle 52°	-
10798700	BVP651 LED600-4S/740 DM10 ALU PSU	Distribution medium 10	-
10801400	BVP651 LED600-4S/740 DX50 ALU PSU	Distribution extra wide 50	-
10803800	BVP651 LED650-4S/740 S ALU PSU	Symmetrical	-
10804500	BVP651 LED650-4S/740 OFA52 ALU PSU	Optiflux asymmetrical axis angle 52°	-
10805200	BVP651 LED650-4S/740 DM10 ALU PSU	Distribution medium 10	-
10807600	BVP651 LED650-4S/740 DX10 ALU PSU	Distribution extra wide 10	-
10808300	BVP651 LED650-4S/740 DX50 ALU PSU	Distribution extra wide 50	-
10810600	BVP651 LED700-4S/740 S ALU PSU	Symmetrical	-
10811300	BVP651 LED700-4S/740 OFA52 ALU PSU	Optiflux asymmetrical axis angle 52°	-
10812000	BVP651 LED700-4S/740 DM10 ALU PSU	Distribution medium 10	-
10815100	BVP651 LED700-4S/740 DX50 ALU PSU	Distribution extra wide 50	-
11281300	BVP651 LED750-4S/740 S ALU PSU	Symmetrical	-

Order Code	Full Product Name	Optic type	Service tag
11282000	BVP651 LED750-4S/740 OFA52 ALU PSU	Optiflux asymmetrical axis angle 52°	-
11283700	BVP651 LED750-4S/740 DM10 ALU PSU	Distribution medium 10	-
11286800	BVP651 LED750-4S/740 DX50 ALU PSU	Distribution extra wide 50	-
11287500	BVP651 LED750-4S/740 DX51 ALU PSU	Distribution extra wide 51	-
12902600	BVP651 LED450-4S/740 DX60 ALU PSU	Distribution extra wide 60	-
12903300	BVP651 LED500-4S/740 DX60 ALU PSU	Distribution extra wide 60	-
12904000	BVP651 LED550-4S/740 DX60 ALU PSU	Distribution extra wide 60	-
12905700	BVP651 LED600-4S/740 DX60 ALU PSU	Distribution extra wide 60	-
12906400	BVP651 LED650-4S/740 DX60 ALU PSU	Distribution extra wide 60	-
12907100	BVP651 LED700-4S/740 DX60 ALU PSU	Distribution extra wide 60	-
12908800	BVP651 LED750-4S/740 DX60 ALU PSU	Distribution extra wide 60	-
88973900	BVP651 LED800-4S/740 PSU DX50 ALU	Distribution extra wide 50	-

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Initial luminous flux
10775800	BVP651 LED450-4S/740 S ALU PSU	39150 lm
10776500	BVP651 LED450-4S/740 OFA52 ALU PSU	38700 lm
10777200	BVP651 LED450-4S/740 DM10 ALU PSU	38250 lm
10780200	BVP651 LED450-4S/740 DX50 ALU PSU	37350 lm
10782600	BVP651 LED500-4S/740 S ALU PSU	43000 lm
10783300	BVP651 LED500-4S/740 OFA52 ALU PSU	42500 lm
10784000	BVP651 LED500-4S/740 DM10 ALU PSU	42000 lm
10787100	BVP651 LED500-4S/740 DX50 ALU PSU	41000 lm
10789500	BVP651 LED550-4S/740 S ALU PSU	48160 lm
10790100	BVP651 LED550-4S/740 OFA52 ALU PSU	47600 lm
10791800	BVP651 LED550-4S/740 DM10 ALU PSU	47040 lm
10793200	BVP651 LED550-4S/740 DX10 ALU PSU	45360 lm
10794900	BVP651 LED550-4S/740 DX50 ALU PSU	45920 lm
10796300	BVP651 LED600-4S/740 S ALU PSU	51600 lm
10797000	BVP651 LED600-4S/740 OFA52 ALU PSU	51000 lm
10798700	BVP651 LED600-4S/740 DM10 ALU PSU	50400 lm
10801400	BVP651 LED600-4S/740 DX50 ALU PSU	49200 lm
10803800	BVP651 LED650-4S/740 S ALU PSU	56100 lm
10804500	BVP651 LED650-4S/740 OFA52 ALU PSU	55440 lm
10805200	BVP651 LED650-4S/740 DM10 ALU PSU	54780 lm

Order Code	Full Product Name	Initial luminous flux
10807600	BVP651 LED650-4S/740 DX10 ALU PSU	52800 lm
10808300	BVP651 LED650-4S/740 DX50 ALU PSU	53460 lm
10810600	BVP651 LED700-4S/740 S ALU PSU	59500 lm
10811300	BVP651 LED700-4S/740 OFA52 ALU PSU	58800 lm
10812000	BVP651 LED700-4S/740 DM10 ALU PSU	58100 lm
10815100	BVP651 LED700-4S/740 DX50 ALU PSU	56700 lm
11281300	BVP651 LED750-4S/740 S ALU PSU	64600 lm
11282000	BVP651 LED750-4S/740 OFA52 ALU PSU	63840 lm
11283700	BVP651 LED750-4S/740 DM10 ALU PSU	63080 lm
11286800	BVP651 LED750-4S/740 DX50 ALU PSU	61560 lm
11287500	BVP651 LED750-4S/740 DX51 ALU PSU	37240 lm
12902600	BVP651 LED450-4S/740 DX60 ALU PSU	40050 lm
12903300	BVP651 LED500-4S/740 DX60 ALU PSU	44000 lm
12904000	BVP651 LED550-4S/740 DX60 ALU PSU	49280 lm
12905700	BVP651 LED600-4S/740 DX60 ALU PSU	52800 lm
12906400	BVP651 LED650-4S/740 DX60 ALU PSU	58080 lm
12907100	BVP651 LED700-4S/740 DX60 ALU PSU	61600 lm
12908800	BVP651 LED750-4S/740 DX60 ALU PSU	66880 lm
88973900	BVP651 LED800-4S/740 PSU DX50 ALU	64000 lm

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Mechanical and Housing

Order Code	Full Product Name	Color	Order Code	Full Product Name	Color
10775800	BVP651 LED450-4S/740 S ALU PSU	Gray	10807600	BVP651 LED650-4S/740 DX10 ALU PSU	Gray
10776500	BVP651 LED450-4S/740 OFA52 ALU PSU	Gray	10808300	BVP651 LED650-4S/740 DX50 ALU PSU	Gray
10777200	BVP651 LED450-4S/740 DM10 ALU PSU	Gray	10810600	BVP651 LED700-4S/740 S ALU PSU	Gray
10780200	BVP651 LED450-4S/740 DX50 ALU PSU	Gray	10811300	BVP651 LED700-4S/740 OFA52 ALU PSU	Gray
10782600	BVP651 LED500-4S/740 S ALU PSU	Gray	10812000	BVP651 LED700-4S/740 DM10 ALU PSU	Gray
10783300	BVP651 LED500-4S/740 OFA52 ALU PSU	Gray	10815100	BVP651 LED700-4S/740 DX50 ALU PSU	Gray
10784000	BVP651 LED500-4S/740 DM10 ALU PSU	Gray	11281300	BVP651 LED750-4S/740 S ALU PSU	Gray
10787100	BVP651 LED500-4S/740 DX50 ALU PSU	Gray	11282000	BVP651 LED750-4S/740 OFA52 ALU PSU	Gray
10789500	BVP651 LED550-4S/740 S ALU PSU	Gray	11283700	BVP651 LED750-4S/740 DM10 ALU PSU	Gray
10790100	BVP651 LED550-4S/740 OFA52 ALU PSU	Gray	11286800	BVP651 LED750-4S/740 DX50 ALU PSU	Aluminum
10791800	BVP651 LED550-4S/740 DM10 ALU PSU	Gray	11287500	BVP651 LED750-4S/740 DX51 ALU PSU	Gray
10793200	BVP651 LED550-4S/740 DX10 ALU PSU	Gray	12902600	BVP651 LED450-4S/740 DX60 ALU PSU	Gray
10794900	BVP651 LED550-4S/740 DX50 ALU PSU	Gray	12903300	BVP651 LED500-4S/740 DX60 ALU PSU	Gray
10796300	BVP651 LED600-4S/740 S ALU PSU	Gray	12904000	BVP651 LED550-4S/740 DX60 ALU PSU	Gray
10797000	BVP651 LED600-4S/740 OFA52 ALU PSU	Gray	12905700	BVP651 LED600-4S/740 DX60 ALU PSU	Gray
10798700	BVP651 LED600-4S/740 DM10 ALU PSU	Gray	12906400	BVP651 LED650-4S/740 DX60 ALU PSU	Gray
10801400	BVP651 LED600-4S/740 DX50 ALU PSU	Gray	12907100	BVP651 LED700-4S/740 DX60 ALU PSU	Gray
10803800	BVP651 LED650-4S/740 S ALU PSU	Gray	12908800	BVP651 LED750-4S/740 DX60 ALU PSU	Gray
10804500	BVP651 LED650-4S/740 OFA52 ALU PSU	Gray	88973900	BVP651 LED800-4S/740 PSU DX50 ALU	Aluminum
10805200	BVP651 LED650-4S/740 DM10 ALU PSU	Gray			

