

Specification

Body material	: Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey) (optional offshore painting- acrylic polyurethane coating)
Lens	: Heat and high impact resistant clear glass (4J impact)
Bolts	: Stainless steel, SS 304 (optional SS 316)
Bracket	: Hot-dip galvanized steel (optional SS 304 or SS 316)
Sealing (O-ring)	: Silicone

Product Features

Luminous efficacy	: 115-130 lm/W
Colour temperature	: Standard 5,700 K (daylight) (optional 2,700 K; 3,000 K; 3,500 K; 4,000 K; 5,000 K; 6,500 K etc.)
Colour Rendering Index (Ra)	: ≥ 80
Chip	: LUXEON 5050 - LumiLEDs (optional Cree, Bridgelux, Nichia)
Beam angle	: Average 115-120° without lens 30°, 60°, 90° with lens (other beam angle, please specify)

Fixture Life

- L70 - Rated lifetime of 60,000 hours at ambient temperatures of 85°C.
- L80 - Rated lifetime of 43,318 hours at ambient temperatures of 85°C.
- L90 - Rated lifetime of 20,534 hours at ambient temperatures of 85°C.



Technical Data

Hazardous Area Zones	Gas	Dust
Equipment Group/Category	Ex db eb IIB T6 Gb	Ex tb IIIC T85°C Db
Symbol of Protection	TÜV CY 17 ATEX 0205814X	
Certificate	EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN IEC 60079-31, EN 60598-1	
Conformity to Standards	-20°C to +55°C	
Ambient Temperature	IP66/ IK10	
Index of Protection	2x M20x1.5, 2x M25x1.5 (1x stopping plug) or 2x 1/2" NPT, 2x 3/4" NPT (1x stopping plug)	
Entry Threads	Bracket mounting	
Mounting	L, N and PE ; for 1-4 mm ² cable (Through wiring system with an extra terminal block for cable connection at both ends.)	
Connection	110-240 V AC, 50/60 Hz, P.F. ≥ 0.95	
Rated Voltage		

Catalogue Number Logic

DFDF	-	■ ■ ■	-	□ □	○
Series		LED power		Entry threads	Mounting type
		(see ordering requirement table below)		M1 M20x1.5 N1 1/2" NPT	C1 Type 1
				M2 M25x1.5 N2 3/4" NPT	C2 Type 2

Ordering Requirements

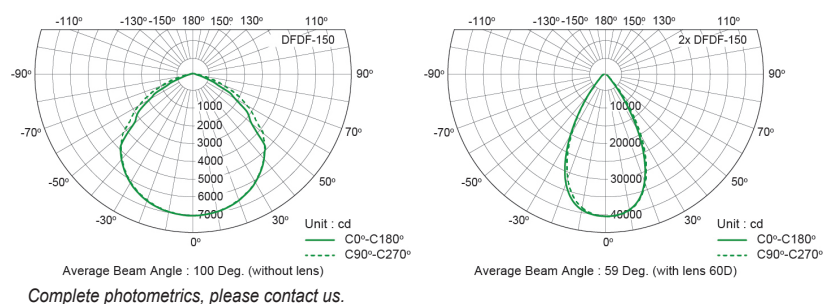
Cat. No.	LED power	Voltage	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)		Approx. weight (kg)
			Ta 40°C	Ta 55°C	Ta 40°C	Ta 55°C	
DFDF-30 - □ □ ○	30 W	110-240 V AC, 50/60 Hz	T6	T6	T85°C	T85°C	17.0
DFDF-40 - □ □ ○	40 W						
DFDF-50 - □ □ ○	50 W						
DFDF-60 - □ □ ○	60 W						
DFDF-70 - □ □ ○	70 W						
DFDF-80 - □ □ ○	80 W	110-240 V AC, 50/60 Hz	T6	T6	T85°C	T85°C	19.8
DFDF-100 - □ □ ○	100 W						
DFDF-120 - □ □ ○	120 W						
DFDF-150 - □ □ ○	150 W						
DFDF-170 - □ □ ○	170 W						
DFDF-180 - □ □ ○	180 W						

2-Lighting fixtures combine together

Cat. No.	LED power	Voltage	Temp. Class (for zone 1 & 2)		Max. Surface Temp.* (for zone 21 & 22)		Approx. weight (kg)
			Ta 40°C	Ta 55°C	Ta 40°C	Ta 55°C	
2x DFDF-100 - □ □	200 W	110-240 V AC, 50/60 Hz	T6	T6	T85°C	T85°C	40
2x DFDF-120 - □ □	240 W						
2x DFDF-150 - □ □	300 W						
2x DFDF-170 - □ □	340 W						
2x DFDF-180 - □ □	360 W						

Remark * : The maximum surface temperatures are specified for dust free condition. The dust layer which may cover around the lighting fixture will cause to higher surface temperature.

Luminous Intensity Distribution Curve



Lighting: LED Floodlight, DFDF Series

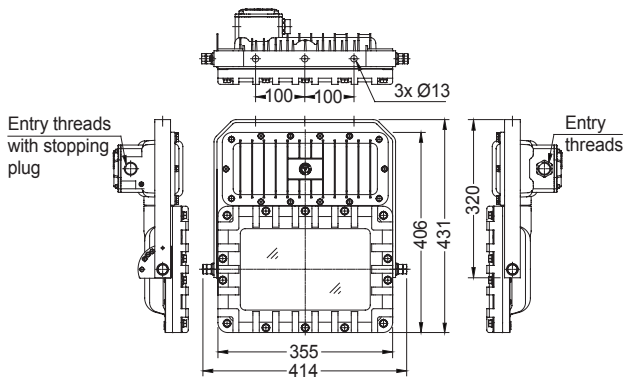
Flameproof/ Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

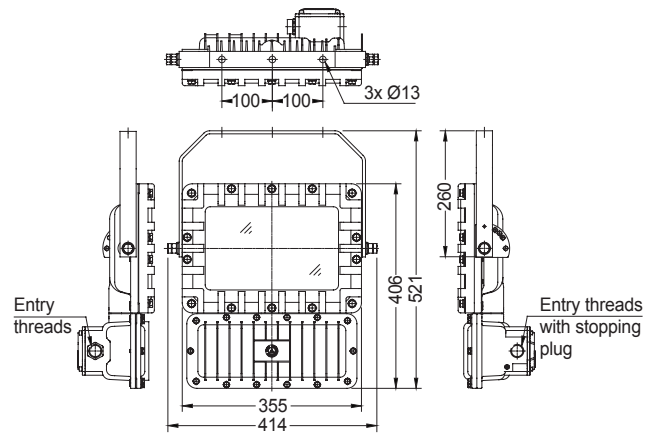
Dimensions (in mm)

DFDF-30 to DFDF-80

Type 1 (Top driver)

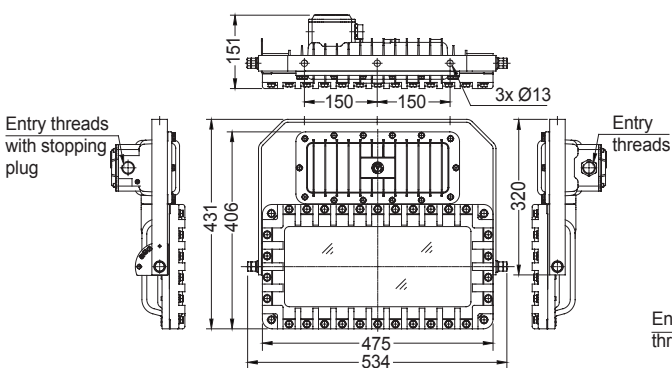


Type 2 (Bottom driver)

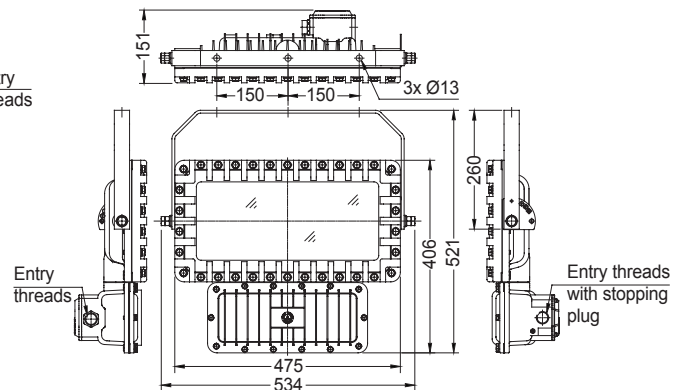


DFDF-100 to DFDF-180

Type 1 (Top driver)



Type 2 (Bottom driver)



Two lighting fixtures are combined.

