



- LED high-power floodlight with power consumption of up to 225 W
- Wide-range voltage input between 110 V and 277 V (50 Hz and 60 Hz)
- Suitable for operation in central battery systems and DC mains (176 V to 264 V DC)
- Three wattage classes are available: 100 W, 160 W and 225 W
- An enclosure made from stainless steel 316L is also available for marine and offshore applications.
- Optionally available with DALI interface

E2

MY R. STAHL 6125B



The new generation of LED floodlights for Zone 1 also relies on the tried-and-tested, robust stainless steel enclosure (optionally seawater-resistant stainless steel 316L). However, thanks to their smaller design and a new generation of drivers, they weigh significantly less, thereby improving ergonomics during installation and operation. Now with three power classes and the three tried-and-tested light distribution curves, the LED floodlight generates three colours of LED light – warm white, neutral white and cold white.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in		•	•		•	•

Selection Table							
Colour temperature Light colour Colour rendering		4000 K Warm white ≥ 80					
Enclosure material	Light distribution	Lamp wattage	Luminous flux	Luminaire efficacy	Product Type	Art. No.	Weight
Stainless steel 1.4301, Powder-coated Single-layer powder-coated	Medium-beam	160 W	14888 lm	96 lm/W	6125/2122-3501-6014-331	284569	18.5 kg
	Narrow-beam	225 W	20757 lm	94 lm/W	6125/2121-5501-6014-331	284581	19 kg
	Wide beam	100 W	9860 lm	99 lm/W	6125/2124-1501-6014-331	284567	16.5 kg
		160 W	14097 lm	91 lm/W	6125/2124-3501-6014-331	284568	18.5 kg
		225 W	19261 lm	88 lm/W	6125/2124-5501-6014-331	284570	19 kg
Stainless steel 1.4404, Powder-coated Double powder-coated	Medium-beam	160 W	14888 lm	96 lm/W	6125/2122-3501-6014-242	284584	18.5 kg
	Narrow-beam	225 W	20757 lm	94 lm/W	6125/2121-5501-6014-242	284586	19 kg
	Wide beam	100 W	9860 lm	99 lm/W	6125/2124-1501-6014-242	284582	16.5 kg
		160 W	14097 lm	91 lm/W	6125/2124-3501-6014-242	284583	18.5 kg
		225 W	19261 lm	88 lm/W	6125/2124-5501-6014-242	284585	19 kg

Selection Table

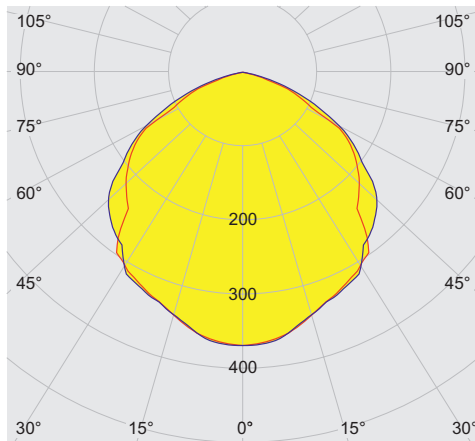
Colour temperature Light colour Colour rendering		5000 K Neutral white ≥ 80					
Enclosure material	Light distribution	Lamp wattage	Luminous flux	Luminaire efficacy	Product Type	Art. No.	Weight
Stainless steel 1.4301, Powder-coated Single-layer powder-coated	Medium-beam	160 W	15413 lm	99 lm/W	6125/2122-3501-6015-331	284564	18.5 kg
	Narrow-beam	225 W	21490 lm	98 lm/W	6125/2121-5501-6015-331	284566	19 kg
	Wide beam	100 W	10208 lm	102 lm/W	6125/2124-1501-6015-331	284562	16.5 kg
		160 W	14595 lm	94 lm/W	6125/2124-3501-6015-331	284563	18.5 kg
		225 W	19941 lm	91 lm/W	6125/2124-5501-6015-331	284565	19 kg
Stainless steel 1.4404, Powder-coated Double powder-coated	Medium-beam	160 W	15413 lm	99 lm/W	6125/2122-3501-6015-242	282404	18.5 kg
	Narrow-beam	225 W	21490 lm	98 lm/W	6125/2121-5501-6015-242	282406	19 kg
	Wide beam	100 W	10208 lm	102 lm/W	6125/2124-1501-6015-242	282402	16.5 kg
		160 W	14595 lm	94 lm/W	6125/2124-3501-6015-242	282403	18.5 kg
		225 W	19941 lm	91 lm/W	6125/2124-5501-6015-242	282405	19 kg
Colour temperature Light colour Colour rendering		5700 K Cool white ≥ 70					
Enclosure material	Light distribution	Lamp wattage	Luminous flux	Luminaire efficacy	Product Type	Art. No.	Weight
Stainless steel 1.4301, Powder-coated Single-layer powder-coated	Medium-beam	160 W	17444 lm	113 lm/W	6125/2122-3501-6011-331	282394	18.5 kg
	Narrow-beam	225 W	24562 lm	111 lm/W	6125/2121-5501-6011-331	282396	19 kg
	Wide beam	100 W	11574 lm	116 lm/W	6125/2124-1501-6011-331	282392	16.5 kg
		160 W	16631 lm	107 lm/W	6125/2124-3501-6011-331	282393	18.5 kg
		225 W	22654 lm	103 lm/W	6125/2124-5501-6011-331	282395	19 kg
Stainless steel 1.4404, Powder-coated Double powder-coated	Medium-beam	160 W	17444 lm	113 lm/W	6125/2122-3501-6011-242	282399	18.5 kg
	Narrow-beam	225 W	24562 lm	111 lm/W	6125/2121-5501-6011-242	282401	19 kg
	Wide beam	100 W	11574 lm	116 lm/W	6125/2124-1501-6011-242	282397	16.5 kg
		100 W	11574 lm	116 lm/W	6125/2124-1501-6021-242	282407	16.5 kg
		160 W	16631 lm	107 lm/W	6125/2124-3501-6011-242	282398	18.5 kg
		225 W	22654 lm	103 lm/W	6125/2124-5501-6011-242	282400	19 kg

Technical Data

Variant	Floodlight LED 100 W	Floodlight LED 160 W	Floodlight LED 225 W
Explosion Protection			
IECEx gas explosion protection	Ex db eb op is IIC T4 Gb	Ex db eb op is IIC T4 Gb	Ex db eb op is IIC T4 Gb
IECEx dust explosion protection	Ex tb op is IIIC T100 °C Db	Ex tb op is IIIC T100 °C Db	Ex tb op is IIIC T100 °C Db
ATEX gas explosion protection	Ⓔ II 2 G Ex db eb op is IIC T4 Gb	Ⓔ II 2 G Ex db eb op is IIC T4 Gb	Ⓔ II 2 G Ex db eb op is IIC T4 Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb op is IIIC T100 °C Db	Ⓔ II 2 D Ex tb op is IIIC T100 °C Db	Ⓔ II 2 D Ex tb op is IIIC T100 °C Db

Technical Data			
Variant	Floodlight LED 100 W	Floodlight LED 160 W	Floodlight LED 225 W
Explosion Protection			
Certificates	ATEX (BVIS), Brazil (ULB), IECEx (BVIS), India (PESO)	ATEX (BVIS), Brazil (ULB), IECEx (BVIS), India (PESO)	ATEX (BVIS), Brazil (ULB), IECEx (BVIS), India (PESO)
Declaration of Conformity	ATEX (EUK)	ATEX (EUK)	ATEX (EUK)
Electrical Data			
Rated operational voltage AC	110 ... 277 V	110 ... 277 V	110 ... 277 V
Frequency range	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz
Ambient Conditions			
Ambient temperature	-50 °C ... +60 °C	-60 °C ... +60 °C	-60 °C ... +60 °C
Min. ambient temperature note	Energise above -40 °C	Energise above -40 °C	Energise above -40 °C
Storage temperature	-40 °C ... +75 °C	-40 °C ... +75 °C	-40 °C ... +75 °C
Lighting Data			
Lamp	LED	LED	LED
Mechanical Data			
Degree of protection (IP)	IP66	IP66	IP66
Class	I	I	I
Sealing material	Silicone	Silicone	Silicone
Pane material	Reinforced glass	Reinforced glass	Reinforced glass
Max. solid connection terminals	6 mm ²	6 mm ²	6 mm ²
Impact strength (IEC 62262)	IK10	IK10	IK10
Fastening	With bracket, SS316L	With bracket, SS316L	With bracket, SS316L
Components			
Cable glands and entries	1 x M25 x 1.5 CMP-25A2F	1 x M25 x 1.5 CMP-25A2F	1 x M25 x 1.5 CMP-25A2F

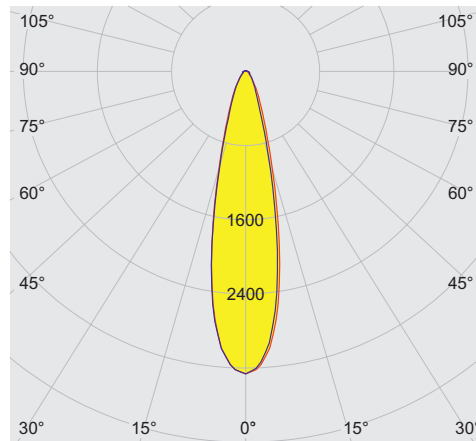
Light Distribution Curves – Subject to Alterations



cd/klm 100%

— C0 - C180 — C90 - C270

typ. broad beam

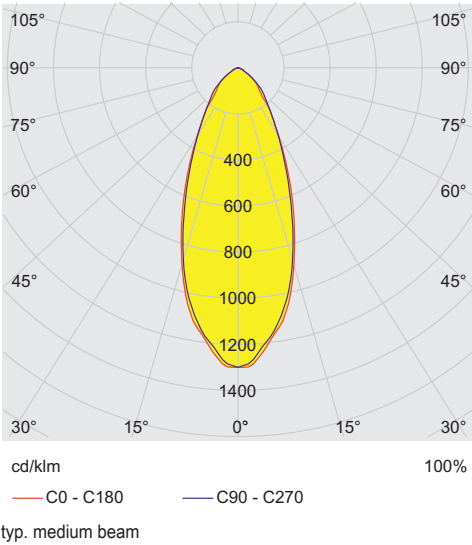


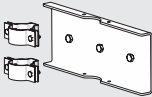
cd/klm 100%

— C0 - C180 — C90 - C270

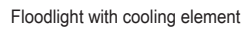
typ. narrow beam

E2

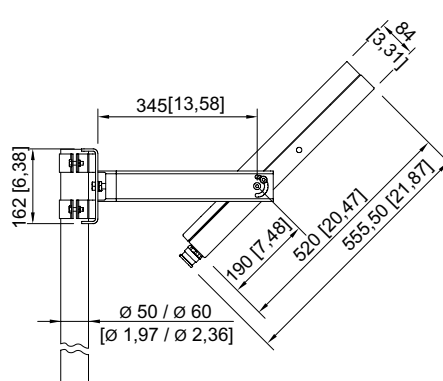
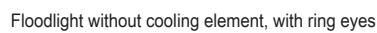


Accessories				
Figure	Description	Art. No.	Weight	
Mounting set				
	for pole mounting with pole diameter of 50 mm - stainless steel SS316L (1.4404 or V4A) without powder coating	283361	5 kg	
	for pole mounting with pole diameter of 60 mm - stainless steel SS316L (1.4404 or V4A) without powder coating	263824	5 kg	
Ring bolt				
	M6 (4 pieces), direct mounting in insert nuts	254234	202 g	
Mounting bracket				
	Sheet steel, single powder coated	244604	3.09 kg	
	Stainless steel SS316L (1.4404 or V4A) without powder coating	221589	3.13 kg	

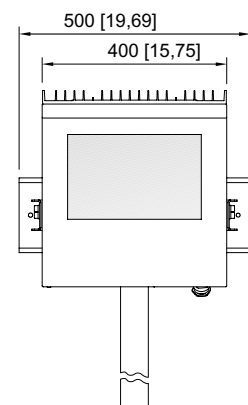
E2



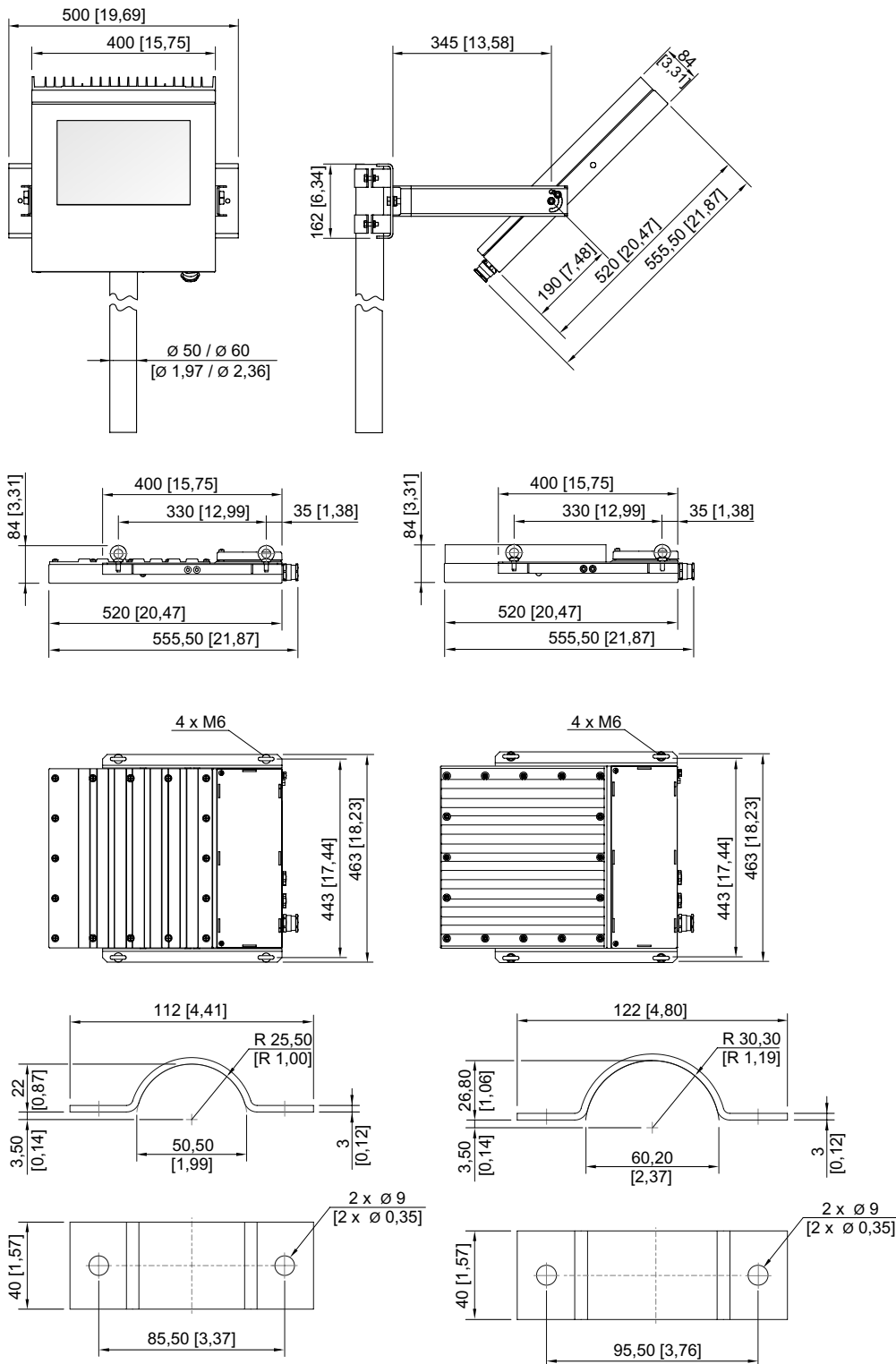
Mounting bracket

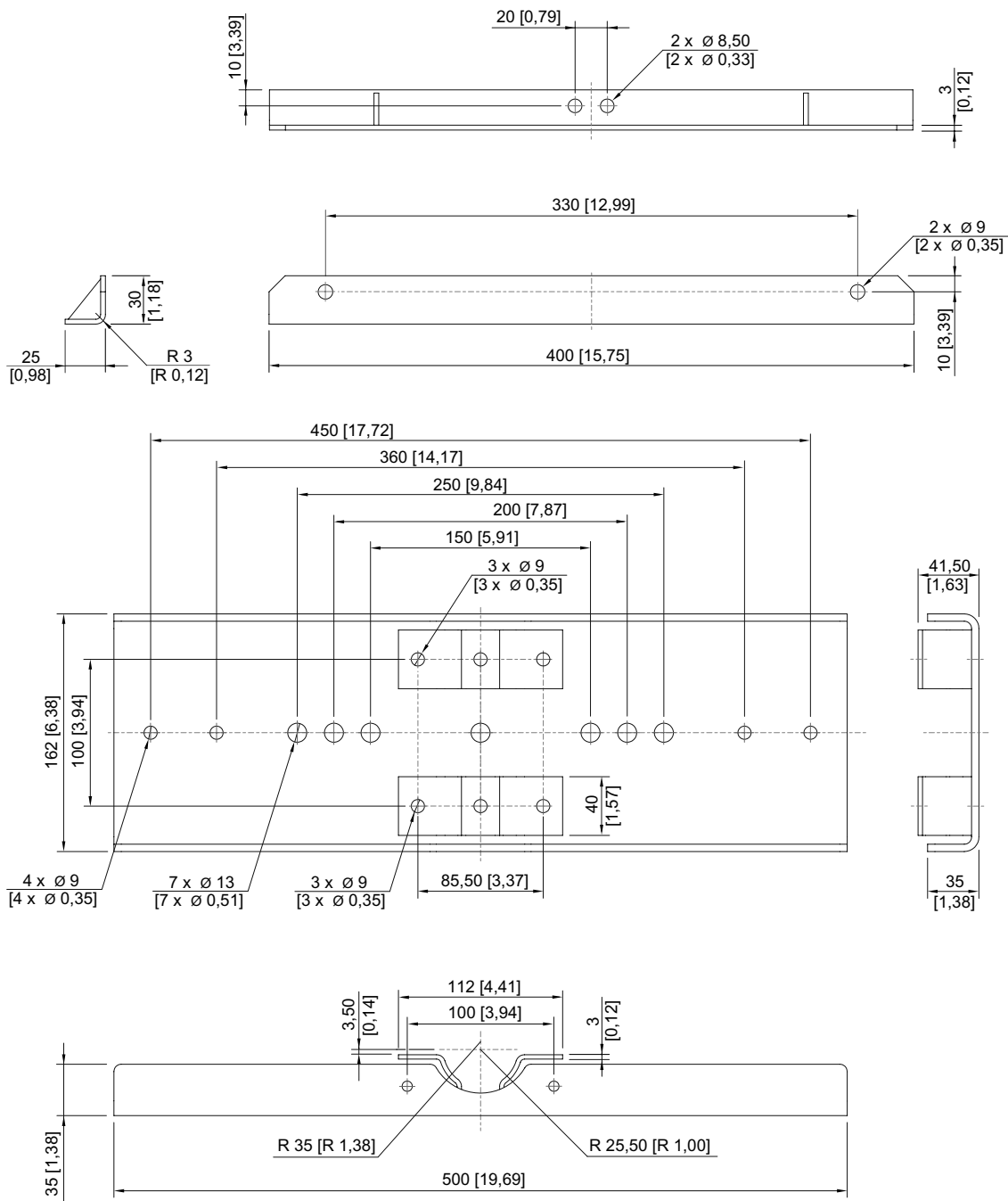


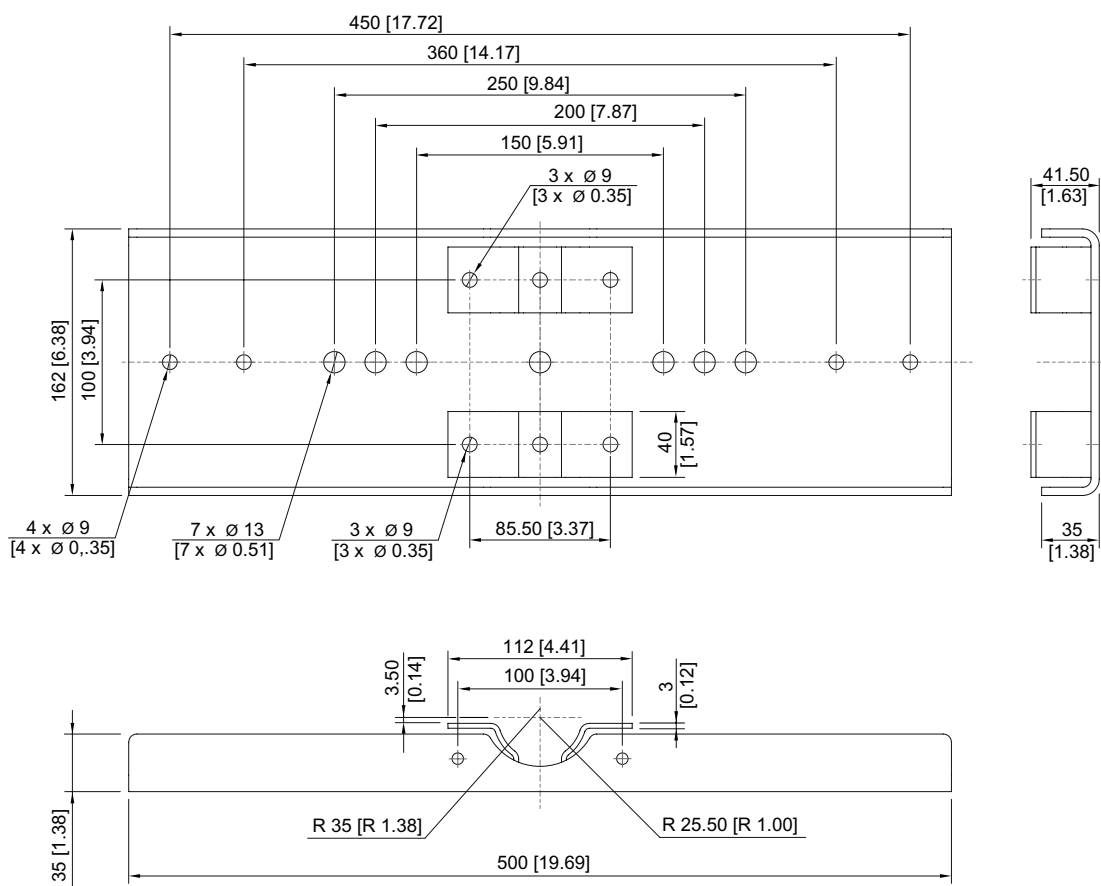
Floodlight with pole mounting

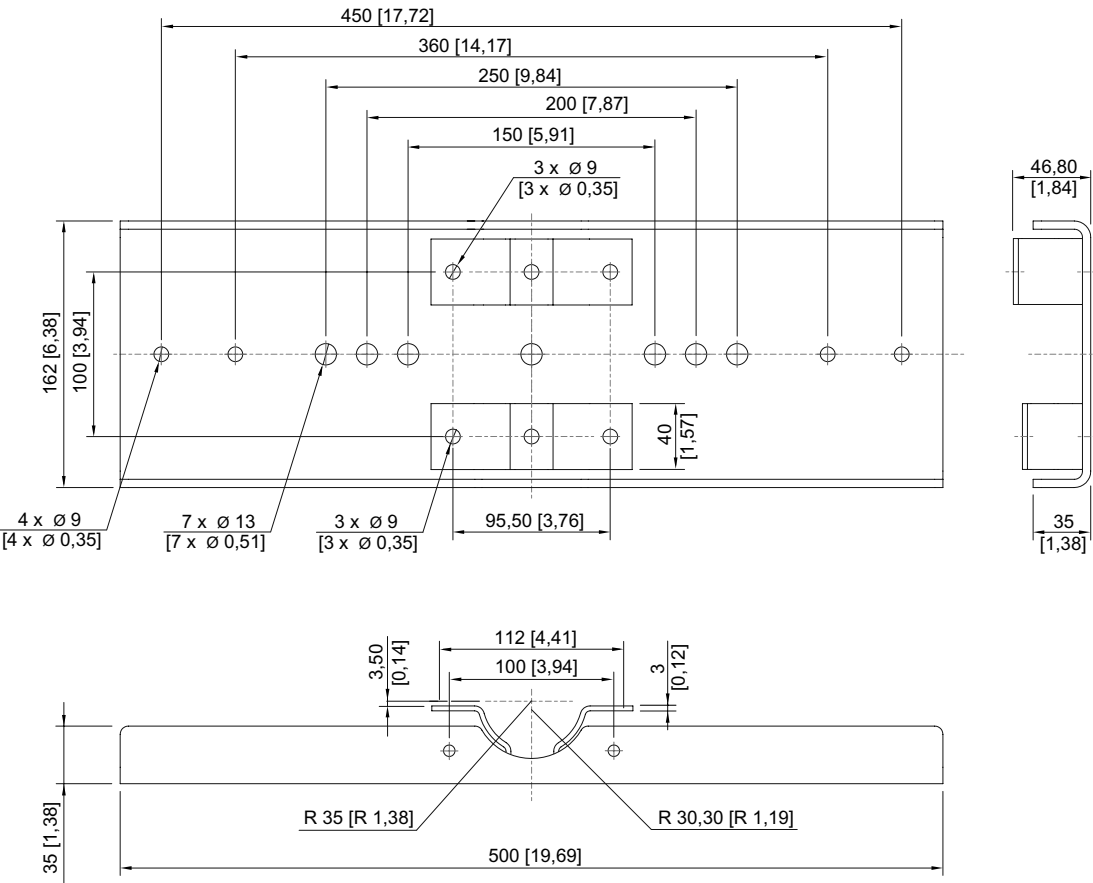


E2

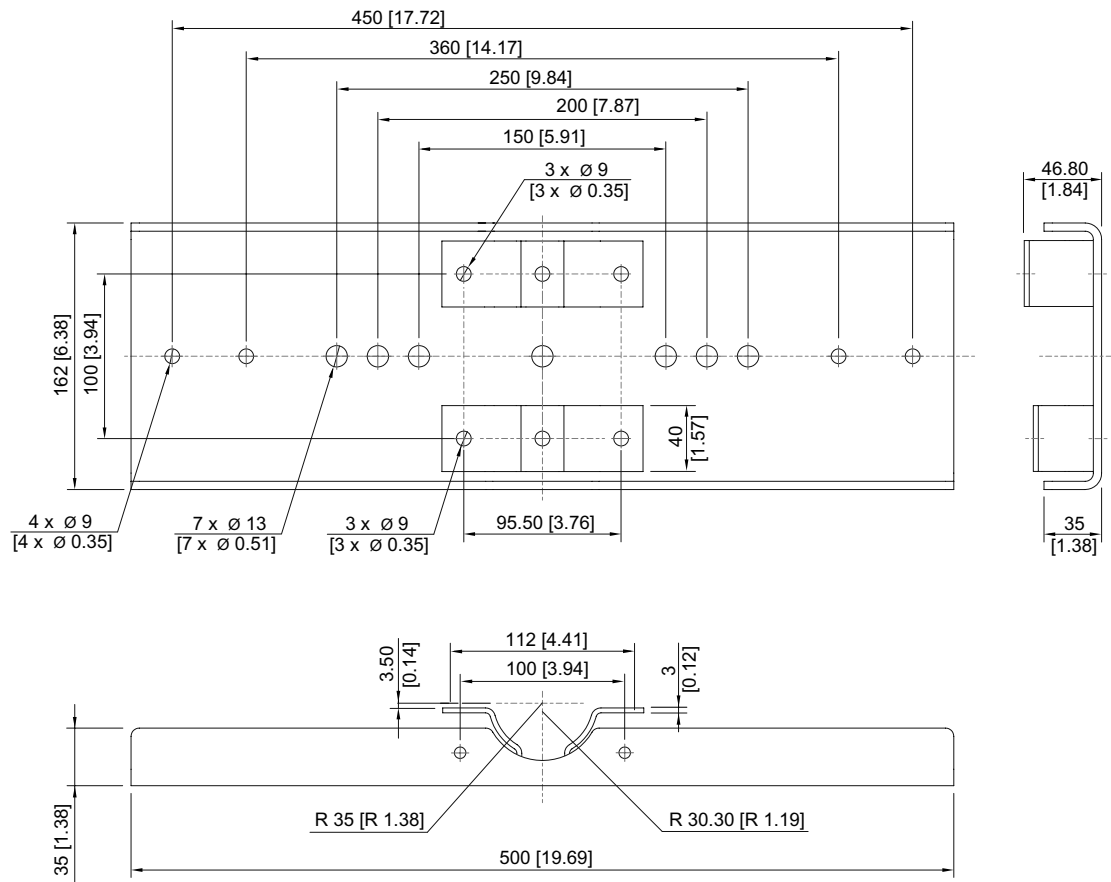








E2





- Checked and approved in accordance with Ex ec type of protection, so vapour tightness test is not applicable
- Stainless steel enclosure as standard for a long service life and safety even under harsh ambient conditions
- Extremely wide range of ambient temperatures – between -60 °C and +60 °C
- Robust design with IK10 and IP66
- Wide-range input with optional 100 V to 277 V
- DALI versions available for lighting control, monitoring and switching

E2

MY R. STAHL 6525C



The revised generation of LED floodlights for Zone 2 now includes a version with Ex ec type of protection especially for the European market. This eliminates the time-consuming vapour tightness test. The wide-range input now also meets the electrical installation conditions for global use. With an optional DALI interface, the floodlight paves the way to a digital lighting solution. Its extremely low start-up current can also support existing installations, as the circuit breakers that are already installed do not need to be replaced.

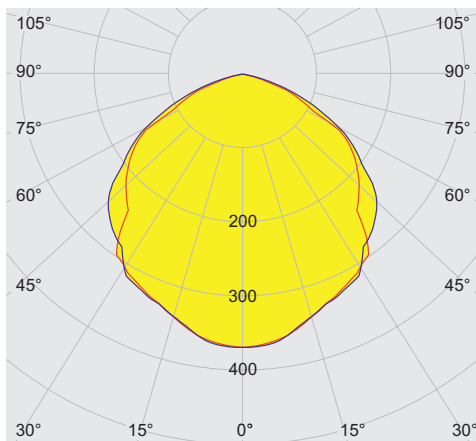
	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in			•		•	•

Selection Table									
Enclosure material		Stainless steel 1.4301, Powder-coated Single-layer powder-coated							
Lamp wattage	Light distribution	Luminous flux	Luminaire efficacy	Drilled holes	Cable glands and entries	Stopping plugs	Product Type	Art. No.	Weight
100 W	Wide beam	10824 lm	108 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2224-1501-6015-331	284537	16 kg
160 W	Medium-beam	15413 lm	99 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2222-3501-6015-331	284539	15 kg
	Wide beam	15550 lm	100 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2224-3501-6015-331	284538	18 kg
225 W	Narrow-beam	21490 lm	98 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2221-5501-6015-331	284551	18.5 kg
	Wide beam	20909 lm	95 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2224-5501-6015-331	284540	18.5 kg
Enclosure material		Stainless steel 1.4404, Powder-coated Double powder-coated							
Lamp wattage	Light distribution	Luminous flux	Luminaire efficacy	Drilled holes	Cable glands and entries	Stopping plugs	Product Type	Art. No.	Weight
100 W	Wide beam	10824 lm	108 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2224-1501-6015-242	282367	16 kg
160 W	Medium-beam	15413 lm	99 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2222-3501-6015-242	282369	18 kg
	Wide beam	15550 lm	100 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2224-3501-6015-242	282368	18 kg
225 W	Narrow-beam	21490 lm	98 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2221-5501-6015-242	282370	18.5 kg
	Wide beam	20909 lm	95 lm/W	3 x M25	CMP-25A2F 1 x M25 x 1.5	2 x M25 x 1.5	6525/2224-5501-6015-242	282377	18.5 kg

Technical Data

Variant	Floodlight LED 100 W	Floodlight LED 160 W	Floodlight LED 225 W
Explosion Protection			
IECEx gas explosion protection	Ex db ec IIC T4 Gc	Ex db ec IIC T4 Gc	Ex db ec IIC T4 Gc
IECEx dust explosion protection	Ex tb op is IIIC T100 °C Db	Ex tb op is IIIC T100 °C Db	Ex tb op is IIIC T100 °C Db
ATEX gas explosion protection	⊕ II 3 G Ex db ec IIC T4 Gc	⊕ II 3 G Ex db ec IIC T4 Gc	⊕ II 3 G Ex db ec IIC T4 Gc
ATEX dust explosion protection	⊕ II 2 D Ex tb op is IIIC T100 °C Db	⊕ II 2 D Ex tb op is IIIC T100 °C Db	⊕ II 2 D Ex tb op is IIIC T100 °C Db
Certificates	ATEX (BVIS), IECEx (BVIS), India (PESO)	ATEX (BVIS), IECEx (BVIS), India (PESO)	ATEX (BVIS), IECEx (BVIS), India (PESO)
Declaration of Conformity	ATEX (EUK)	ATEX (EUK)	ATEX (EUK)
Electrical Data			
Rated operational voltage AC	110 ... 277 V	110 ... 277 V	110 ... 277 V
Frequency range	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz
Ambient Conditions			
Ambient temperature	-50 °C ... +60 °C	-60 °C ... +60 °C	-60 °C ... +60 °C
Min. ambient temperature note	Energise above -40 °C	Energise above -40 °C	Energise above -40 °C
Storage temperature	-40 °C ... +75 °C	-40 °C ... +75 °C	-40 °C ... +75 °C
Lighting Data			
Lamp	LED	LED	LED
Colour rendering	≥ 80	≥ 80	≥ 80
Colour temperature	5000 K	5000 K	5000 K
Mechanical Data			
Degree of protection (IP)	IP66	IP66	IP66
Class	I	I	I
Sealing material	Silicone	Silicone	Silicone
Pane material	Reinforced glass	Reinforced glass	Reinforced glass
Max. solid connection terminals	6 mm ²	6 mm ²	6 mm ²
Impact strength (IEC 62262)	IK10	IK10	IK10
Fastening	With bracket, SS316L	With bracket, SS316L	With bracket, SS316L

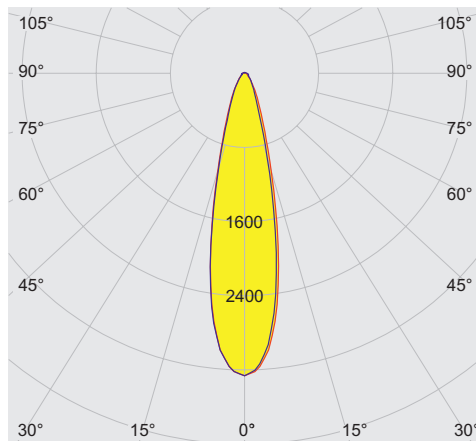
Light Distribution Curves – Subject to Alterations



cd/klm 100%

— C0 - C180 — C90 - C270

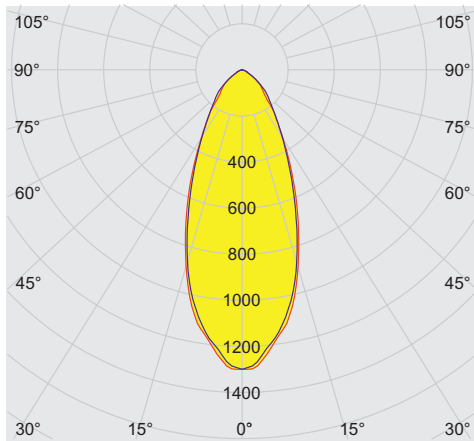
typ. broad beam



cd/klm 100%

— C0 - C180 — C90 - C270

typ. narrow beam

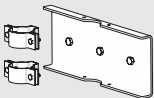


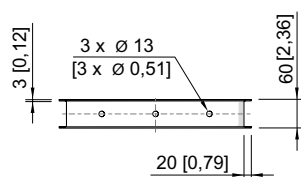
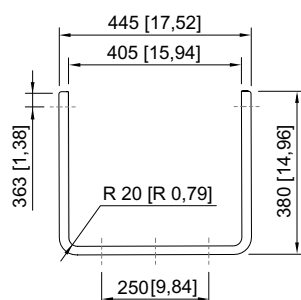
cd/klm 100%

— C0 - C180 — C90 - C270

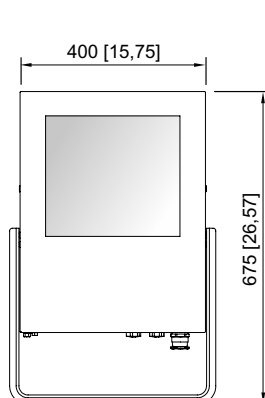
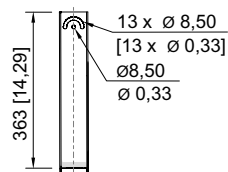
typ. medium beam

Accessories

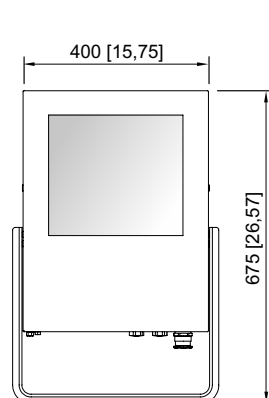
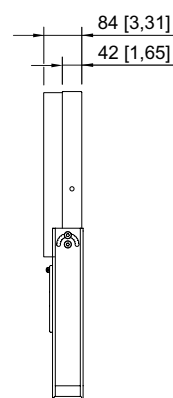
Figure	Description	Art. No.	Weight
Mounting set			
	for pole mounting with pole diameter of 50 mm - stainless steel SS316L (1.4404 or V4A) without powder coating	283361	5 kg
	for pole mounting with pole diameter of 60 mm - stainless steel SS316L (1.4404 or V4A) without powder coating	263824	5 kg
Ring bolt			
	M6 (4 pieces), direct mounting in insert nuts	254234	202 g
Mounting bracket			
	Sheet steel, single powder coated	244604	3.09 kg
	Stainless steel SS316L (1.4404 or V4A) without powder coating	221589	3.13 kg



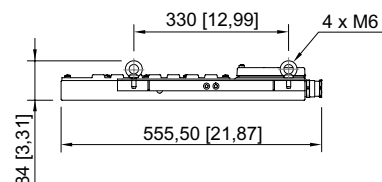
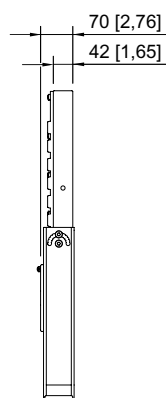
Mounting bracket



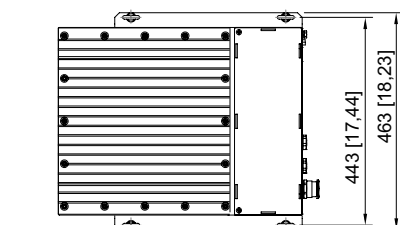
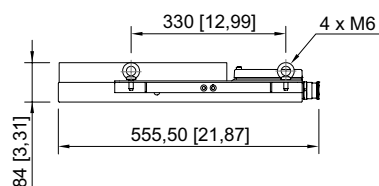
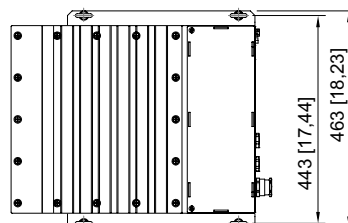
Floodlight with cooling element



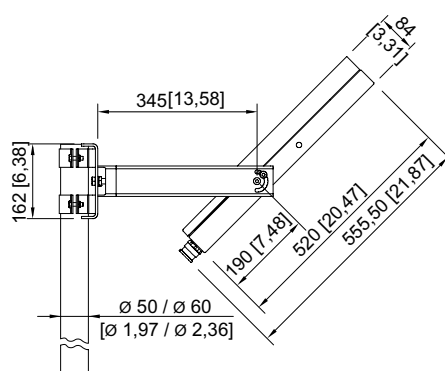
Floodlight without cooling element



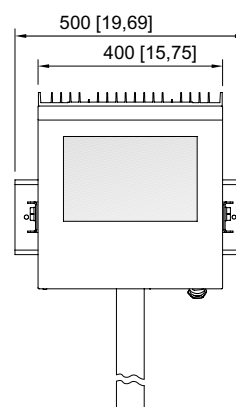
Floodlight without cooling element, with ring eyes

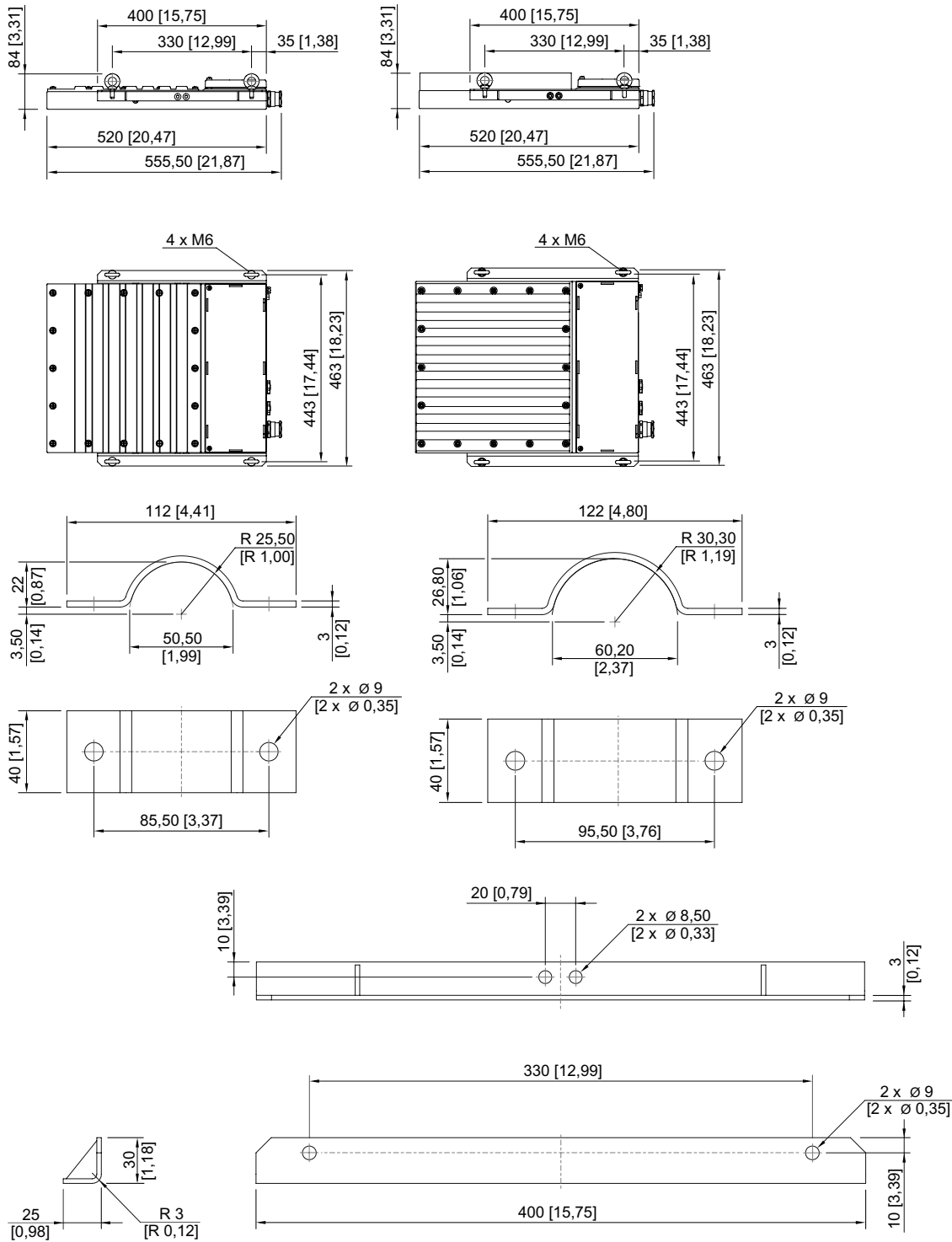


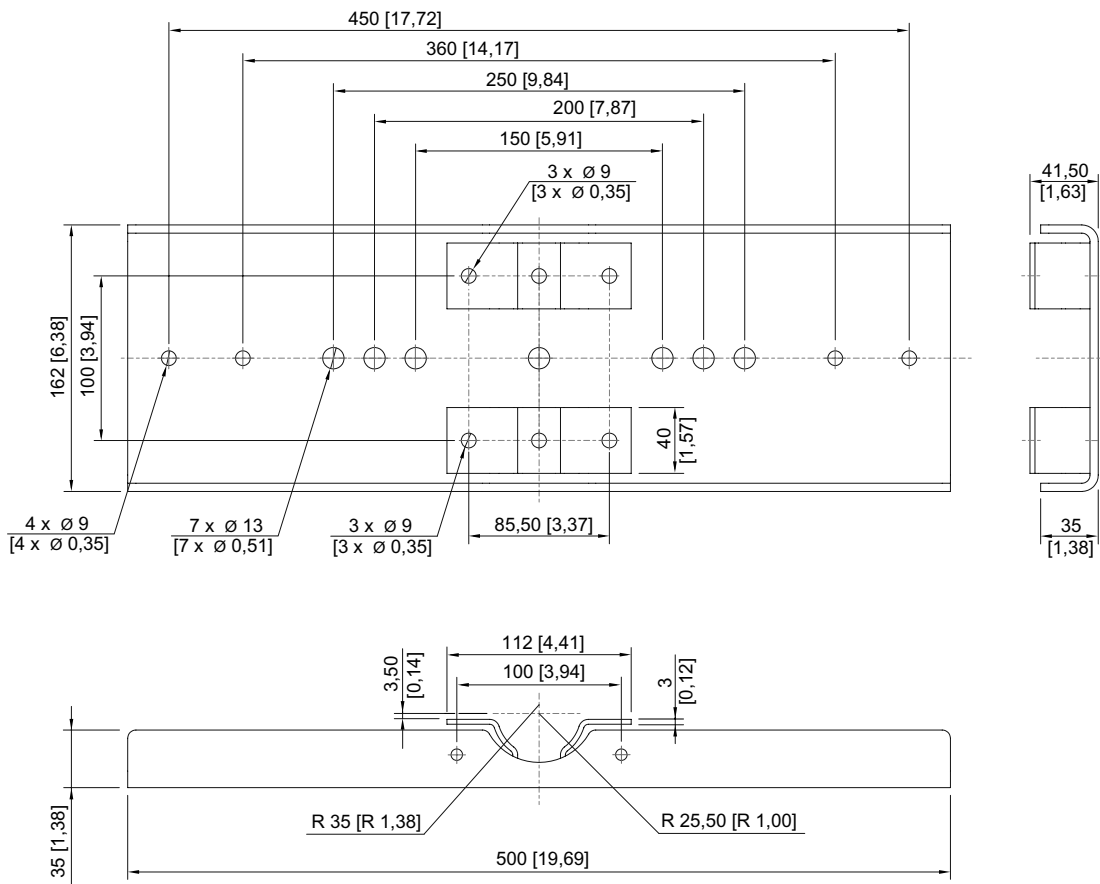
Floodlight with cooling element, with ring eyes

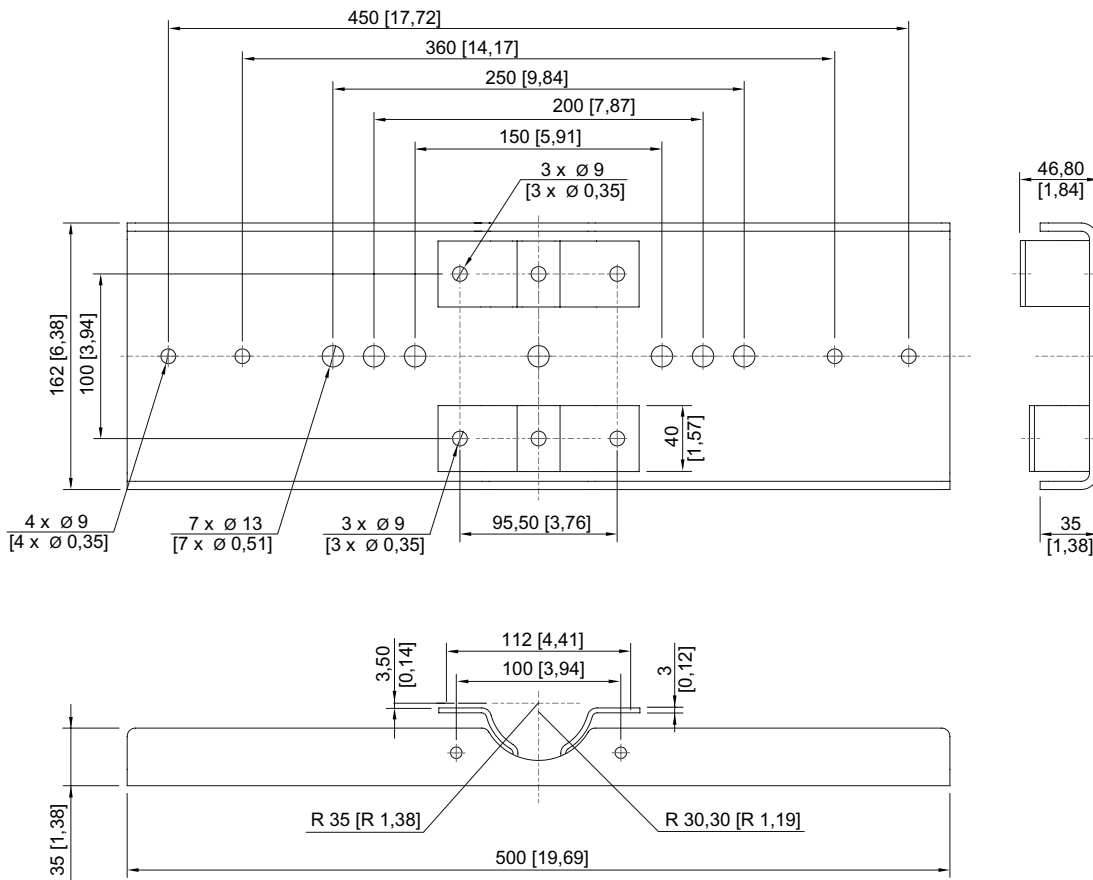


Floodlight with pole mounting











- Stainless steel enclosure as standard for a long service life and safety even under harsh ambient conditions
- Extremely wide range of ambient temperatures – between -60 °C and +60 °C
- Robust design with IK10 and IP66
- Wide-range input with optional 100 V to 277 V
- DALI versions available for lighting control, monitoring and switching

E2

WebCode **6525C**



The wide-range input now also meets the electrical installation conditions for global use. With an optional DALI interface, the floodlight paves the way to a digital lighting solution. Its extremely low start-up current can also support existing installations, as the circuit breakers that are already installed do not need to be replaced.

	IECEx / ATEX					
Zone	0	1	2	20	21	22
Installation in			•		•	•

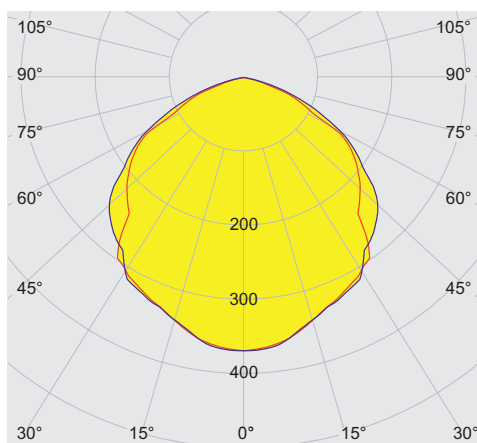
Selection Table						
Enclosure material		Stainless steel 1.4301, Powder-coated Single-layer powder-coated				
Lamp wattage	Light distribution	Luminous flux	Luminaire efficacy	Product Type	Art. No.	Weight
100 W	Wide beam	12315 lm	123 lm/W	6525/2124-1701-6021-331	282307	15.5 kg
160 W	Medium-beam	17444 lm	113 lm/W	6525/2122-3701-6021-331	282309	15.5 kg
	Wide beam	17640 lm	114 lm/W	6525/2124-3701-6021-331	282308	15.5 kg
225 W	Narrow-beam	24562 lm	111 lm/W	6525/2121-5701-6021-331	282361	18 kg
	Wide beam	23723 lm	108 lm/W	6525/2124-5701-6021-331	282310	18 kg
Enclosure material		Stainless steel 1.4404, Powder-coated Double powder-coated				
Lamp wattage	Light distribution	Luminous flux	Luminaire efficacy	Product Type	Art. No.	Weight
100 W	Wide beam	12315 lm	123 lm/W	6525/2124-1701-6021-242	282371	15.5 kg
160 W	Medium-beam	17444 lm	113 lm/W	6525/2122-3701-6021-242	282373	15.5 kg
	Wide beam	17640 lm	114 lm/W	6525/2124-3701-6021-242	282372	15.5 kg
225 W	Narrow-beam	24562 lm	111 lm/W	6525/2121-5701-6021-242	282375	18 kg
	Wide beam	23723 lm	108 lm/W	6525/2124-5701-6021-242	282374	18 kg

Technical Data			
Variant	Floodlight LED 100 W	Floodlight LED 160 W	Floodlight LED 225 W
Explosion Protection			
IECEx gas explosion protection	Ex nR IIC T5 Gc	Ex nR IIC T5 Gc	Ex nR IIC T5 Gc
IECEx dust explosion protection	Ex tb op is IIIC T80 °C Db	Ex tb op is IIIC T100 °C Db	Ex tb op is IIIC T100 °C Db
ATEX gas explosion protection	Ex II 3 G Ex nR IIC T5 Gc	Ex II 3 G Ex nR IIC T5 Gc	Ex II 3 G Ex nR IIC T5 Gc
ATEX dust explosion protection	Ex II 2 D Ex tb op is IIIC T80 °C Db	Ex II 2 D Ex tb op is IIIC T100 °C Db	Ex II 2 D Ex tb op is IIIC T100 °C Db

Technical Data

Variant	Floodlight LED 100 W	Floodlight LED 160 W	Floodlight LED 225 W
Explosion Protection			
Certificates	ATEX (BVIS), IECEx (BVIS), India (PESO)	ATEX (BVIS), IECEx (BVIS), India (PESO)	ATEX (BVIS), IECEx (BVIS), India (PESO)
Electrical Data			
Rated operational voltage AC	110 – 277 V	110 – 277 V	110 – 277 V
Frequency range	50 – 60 Hz	50 – 60 Hz	50 – 60 Hz
Ambient Conditions			
Ambient temperature	-50 °C ... +60 °C	-60 °C ... +60 °C	-60 °C ... +60 °C
Min. ambient temperature note	Energise above -40 °C	Energise above -40 °C	Energise above -40 °C
Storage temperature	-40 °C ... +75 °C	-40 °C ... +75 °C	-40 °C ... +75 °C
Lighting Data			
Lamp	LED	LED	LED
Colour rendering	≥ 70	≥ 70	≥ 70
Colour temperature	5700 K	5700 K	5700 K
Mechanical Data			
Degree of protection (IP)	IP66	IP66	IP66
Class	I	I	I
Sealing material	Silicone	Silicone	Silicone
Pane material	Reinforced glass	Reinforced glass	Reinforced glass
Max. solid connection terminals	6 mm ²	6 mm ²	6 mm ²
Impact strength (IEC 62262)	IK10	IK10	IK10
Fastening	With bracket, SS316L	With bracket, SS316L	With bracket, SS316L
Components			
Cable glands and entries	CMP-20A2F 1 x M20 x 1.5	CMP-20A2F 1 x M20 x 1.5	CMP-20A2F 1 x M20 x 1.5
Cable entry accessories	1 x with plug	1 x with plug	1 x with plug

Light Distribution Curves – Subject to Alterations



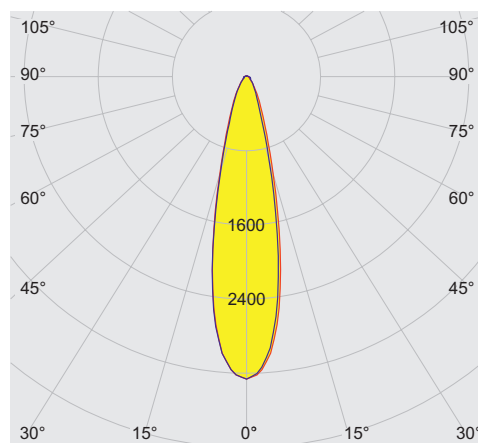
cd/klm

100%

— C0 - C180

— C90 - C270

typ. broad beam



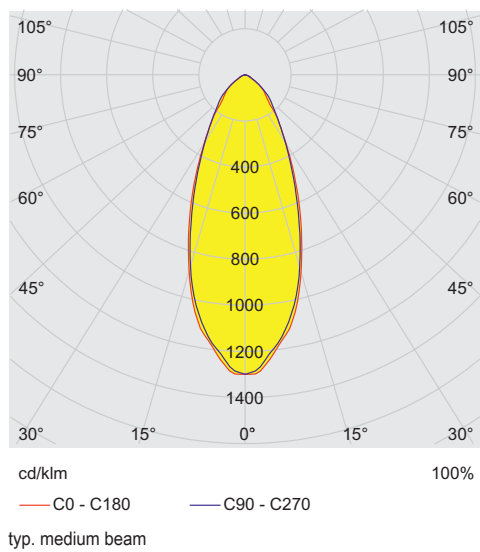
cd/klm

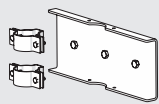
100%

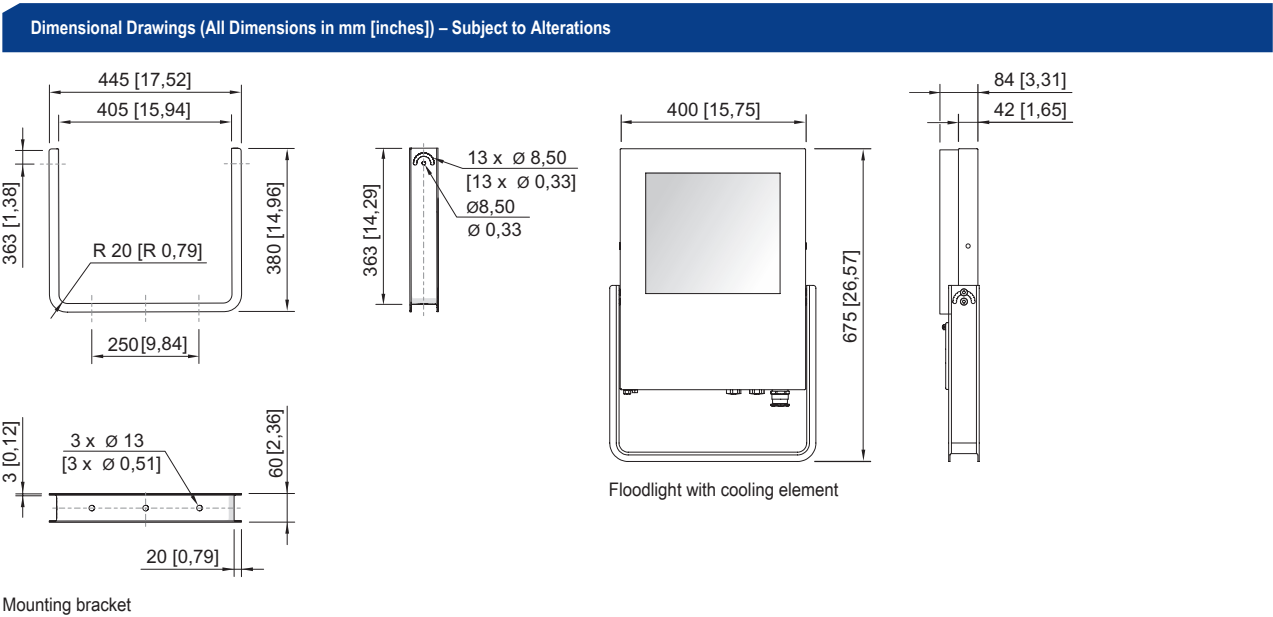
— C0 - C180

— C90 - C270

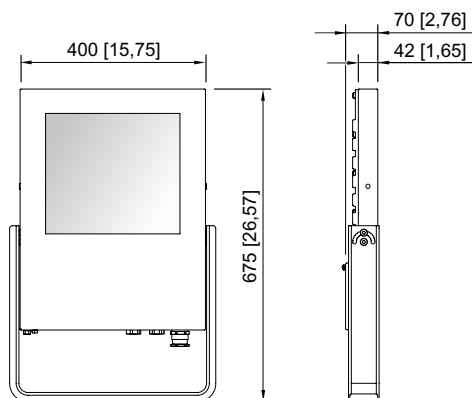
typ. narrow beam



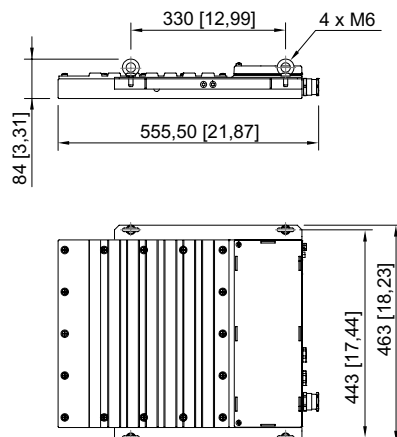
Accessories			
Figure	Description	Art. No.	Weight
Mounting bracket			
	Stainless steel SS316L (1.4404 or V4A) without powder coating	221589	3.13 kg
Mounting set			
	for pole mounting with pole diameter of 50 mm - stainless steel SS316L (1.4404 or V4A) without powder coating	283361	5 kg
	for pole mounting with pole diameter of 60 mm - stainless steel SS316L (1.4404 or V4A) without powder coating	263824	5 kg



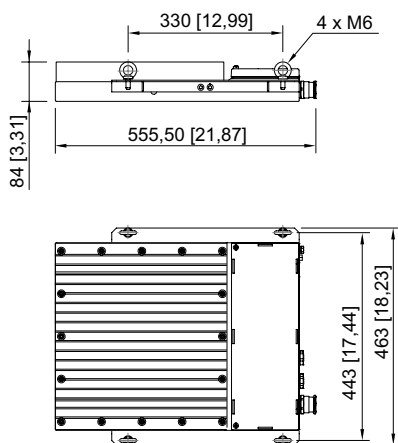
E2



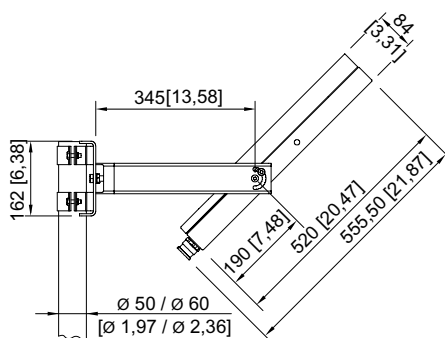
Floodlight without cooling element



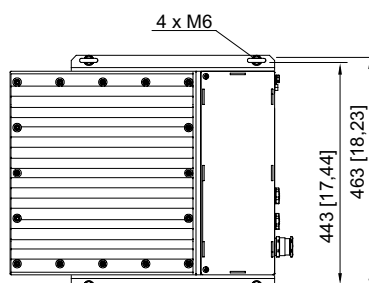
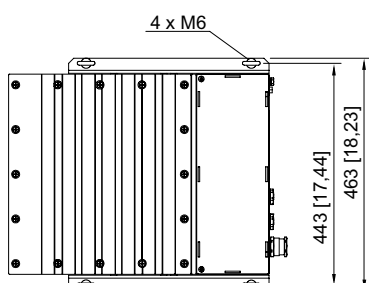
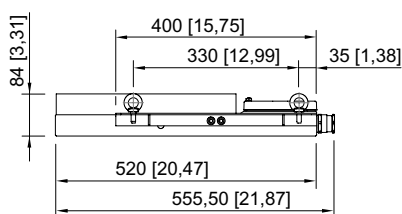
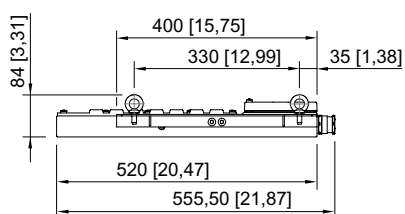
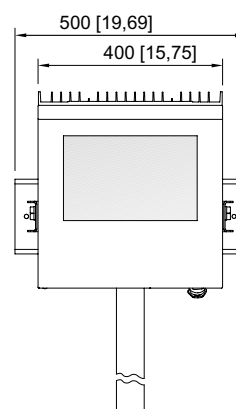
Floodlight without cooling element, with ring eyes

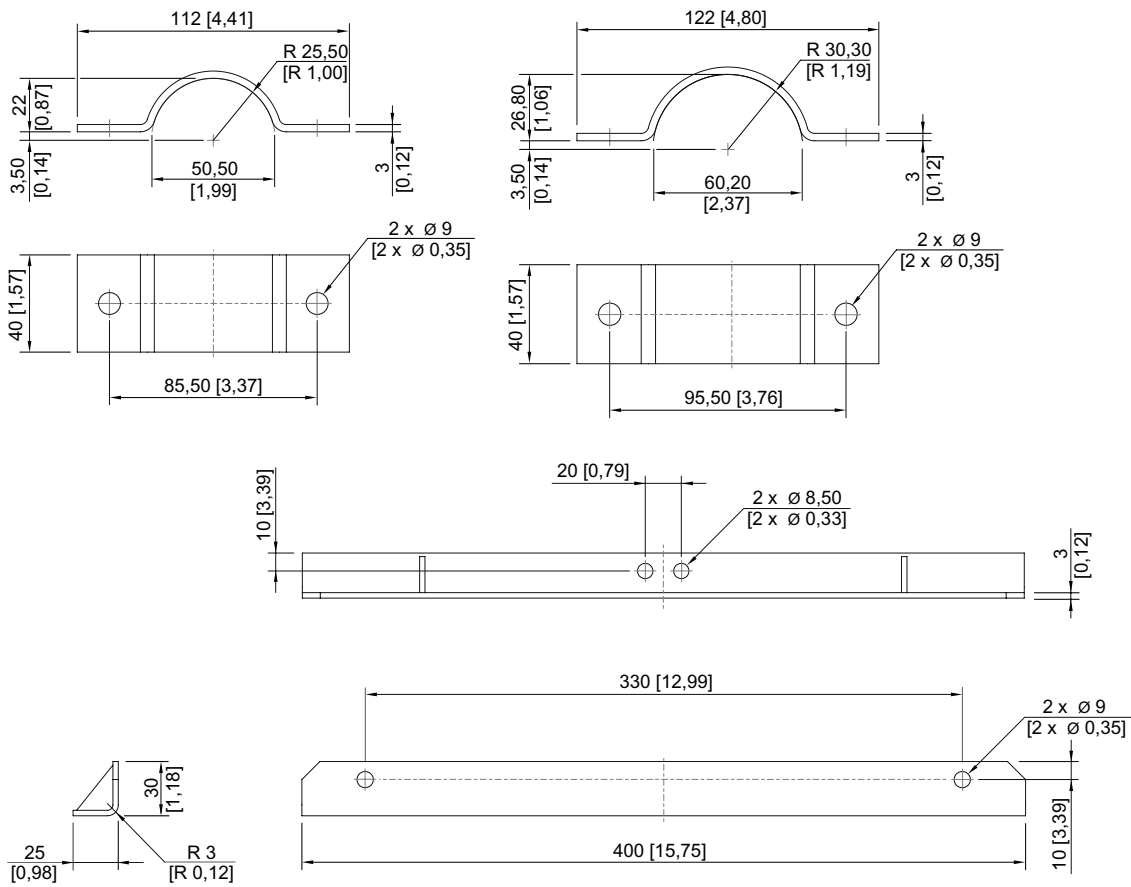


Floodlight with cooling element, with ring eyes



Floodlight with pole mounting





E2

