DARWIN

Floodlights
60000 lm to 195000 lm

LIGHTING

Palazzoli
LUCE D'AUTORE

DARWIN

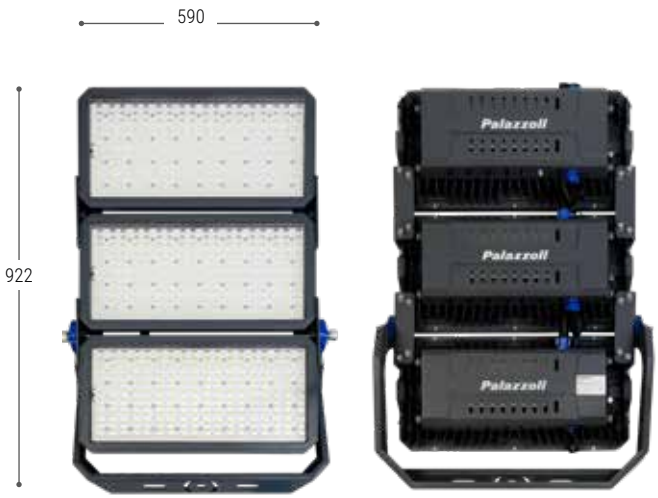
The series

Range of floodlights designed to provide optimal solutions for sports, road, and parking tower lighthouses. The body is made of die-cast aluminum alloy for the best resistance even in harsh environments. The diffuser is made of 4mm thick, tempered, extra-clear flat glass, resistant to impacts and UV rays.
The compact and modular solution allows achieving high luminous flux solutions, up to 195,000 lm, with an efficiency of 162 lm/W. The range of optics, both asymmetric and symmetric, enables the creation of solutions with excellent illumination of the underlying areas. The driver is protected from weather conditions and UV rays by a housing, and upon request, it can be remotely operated.
In the range, there are HT versions available, ensuring operation even at ambient temperatures up to +70°C. The solution is compatible with the DALI protocol and can be integrated into control systems for device management.

DARWIN **1 MODULE**

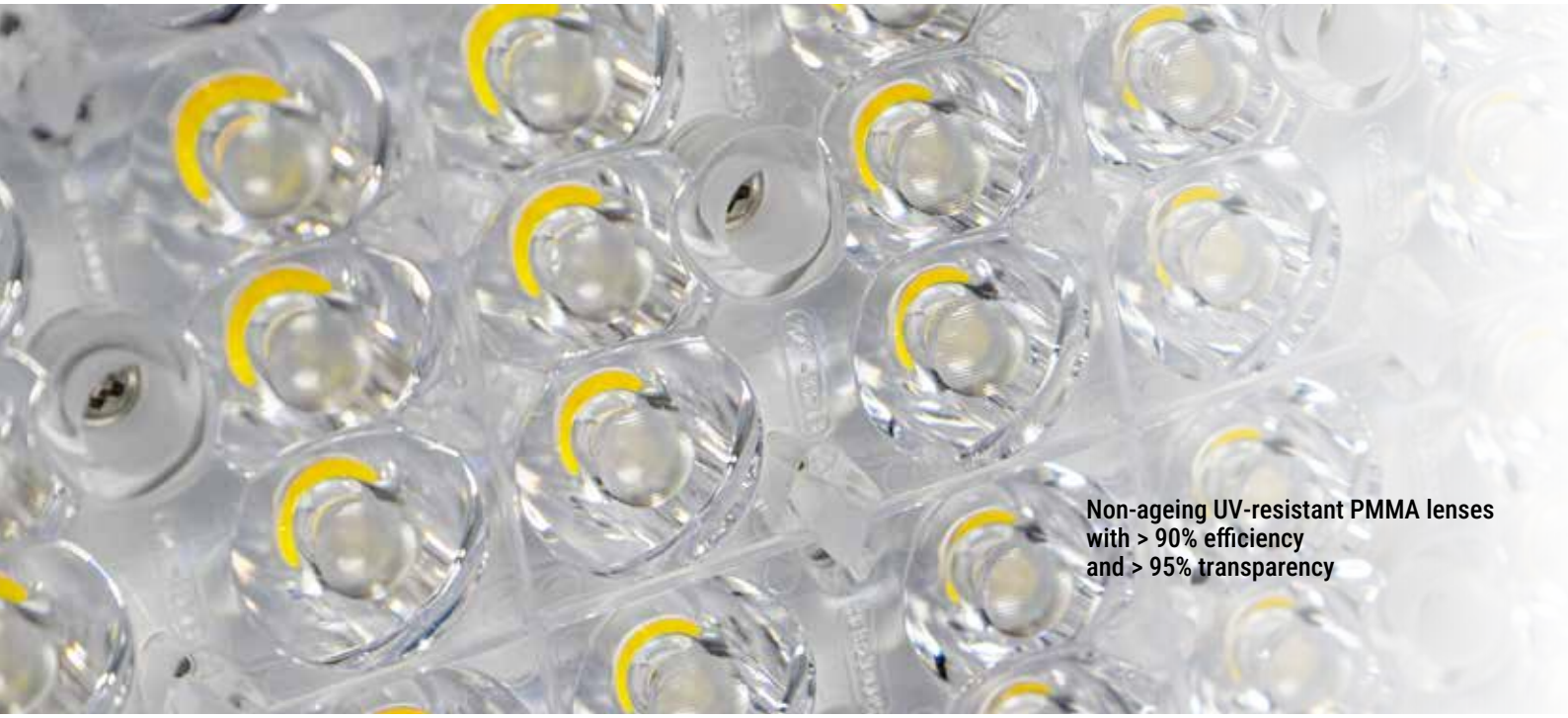
DARWIN **2 MODULES**

DARWIN **3 MODULES**

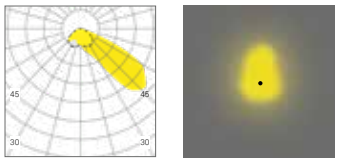


The range

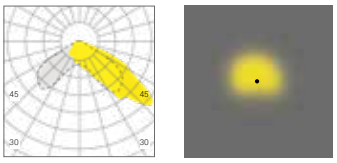
	DARWIN **1 MODULE** floodlights	DARWIN **2 MODULES** floodlights	DARWIN **3 MODULES** floodlights
			
Nominal flux	72000 lm to 77760	144000 lm to 155520 lm	216000 lm to 233280 lm
Output flux	60000 lm to 64800 lm	120000 lm to 129600 lm	180000 lm to 194400 lm
Power	400 W	800 W	1200 W
Efficacy	up to 162 lm/W	up to 162 lm/W	up to 162 lm/W
Control systems	DALI	DALI	DALI
Versions	Standard	Standard High temperature (+70° C)	Standard High temperature (+70° C)
Optics	Asymmetrical 50° narrow beam Asymmetrical 50° extra wide beam Symmetrical 30° narrow beam Symmetrical 18° narrow beam	Asymmetrical 50° narrow beam Asymmetrical 50° extra wide beam Symmetrical 30° narrow beam Symmetrical 18° narrow beam	Asymmetrical 50° narrow beam Asymmetrical 50° extra wide beam Symmetrical 30° narrow beam Symmetrical 18° narrow beam



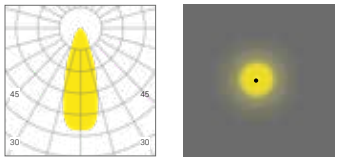
Optics



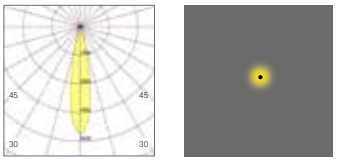
Asymmetrical 50° narrow beam



Asymmetrical 50° extra wide beam



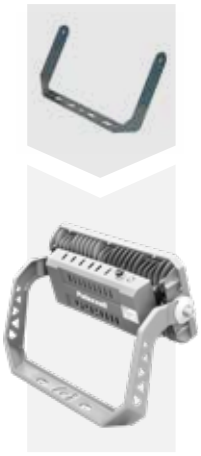
Symmetrical 30° narrow beam



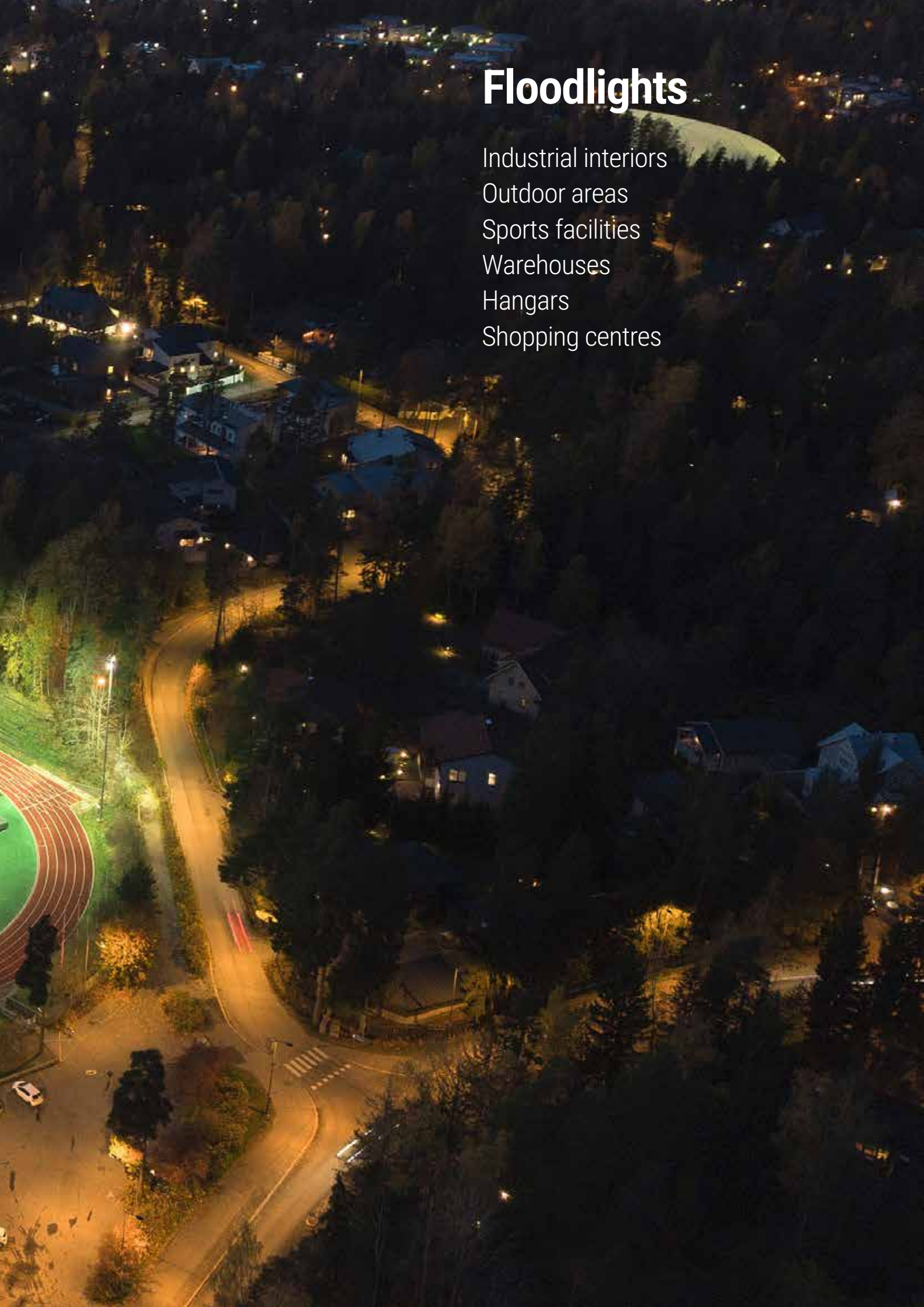
Symmetrical 18° narrow beam

Fastening systems

ADJUSTABLE BRACKET



CROSS BEAM



Floodlights

Industrial interiors
Outdoor areas
Sports facilities
Warehouses
Hangars
Shopping centres

DARWIN floodlight

WARRANTY
2 YEARS OPTIONALLY EXTENDABLE TO 7

DIRECTIVES

2014/30/UE (EMC)
2014/35/UE (LVD)
2011/65/UE (RoHS)
2012/19/UE (RAEE)
2009/125/CE (ERP)
Reg. UE 2019/2020 (EcoDesign)

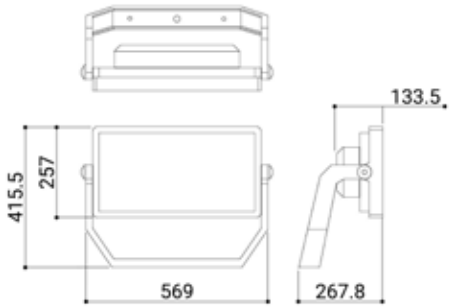
PRODUCT STANDARDS

EN 55015
EN 60598-1
EN 60598-2-1
EN 60598-2-5
EN 60598-2-22
EN 60598-2-24
EN 61000-3-2
EN 61000-3-3
EN 61547
EN 62311
EN 62493
EN 62471
IEC TR 62778
EN 63000

Body material	**Aluminium alloy**
Surface treatment	**Fluorozirconate passivation**
Surface finish	**Non-toxic polyester, anti UV, kilnpolymerised coating**
Colour	**Grey RAL 7011**
Diffuser material	**Extra clear tempered glass**
Protection rating	**IP66 as per IEC 60598-1**
Impact resistance	**IK08 according to IEC/EN 62262**
Corrosion class	**C5-M / C4-H (ISO 9223)**
Mounting system	**U bracket with adjustment**
Ambient operating temperature	**-30 °C - +50 °C (HT +70° C version)**
Ambient storage temperature	**-40 °C - +70 °C**
Actual efficacy of the device	**Up to 162 lm/W**
Colour temperature	**4.000 K (5.700 K on request)**
Optics features	**Non-ageing, UV-resistant PMMA lenses with >90% efficiency and >95% transparency**
Colour rendering index values	**CRI ≥ 80 according to EN 62717**
Colour consistency	**MacAdam 4-step**
Photobiological risk	**RG0 - Exempt Group (EN 62471)**
Residual flicker	**< 1%**
Luminous flux maintenance	**L90 B10 @ 110.000h Tq= +50 °C**
Insulation class	**I**
Supply voltage	**200-480V 0/50/60 Hz**
Surge protection	**10 kV common mode 6 kV differential mode (EN 61000-4-5)**
Power factor	**≥ 0,95**
Type of power supply	**H05RNF 5x1 mm² cable 1 m length**
Max. conductor cross-section	**2,5 mm²**
Entry cable diameter	**7 ÷ 13 mm**

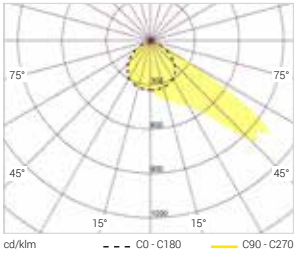
Special versions with operating colour temperatures from 5700K.

DARWIN floodlight | 1 module



Flicker	Class
<1%	I

IP66	IK08

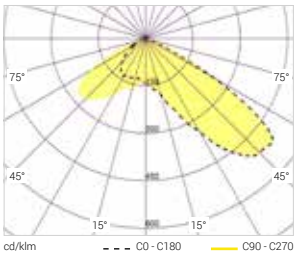


Asymmetrical 50° narrow beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
216	400	75120	62600	Glass	157	DALI	12	**835114DA**

+ 50°C
- 30°C



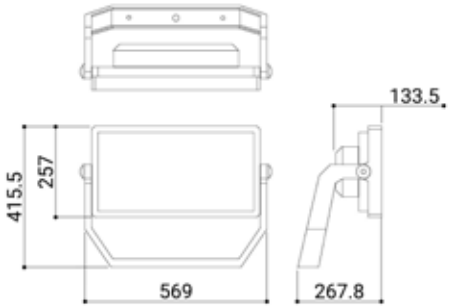
Asymmetrical 50° extra wide beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
216	400	72000	60000	Glass	150	DALI	12	**835124DA**

+ 50°C
- 30°C

DARWIN floodlight | 1 module

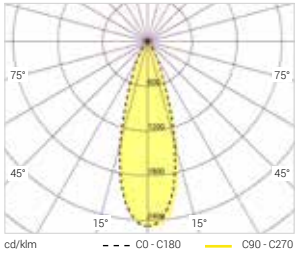


Flicker <1%

Class I

IP66

IK08

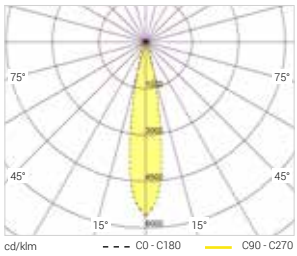


Symmetrical 30° narrow beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
216	400	77760	64800	Glass	162	DALI	12	**835134DA**

+ 50°C
- 30°C



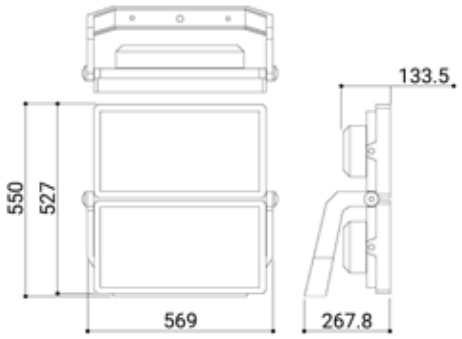
Symmetrical 18° narrow beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
216	400	76680	63900	Glass	160	DALI	12	**835144DA**

+ 50°C
- 30°C

DARWIN floodlight | 2 modules

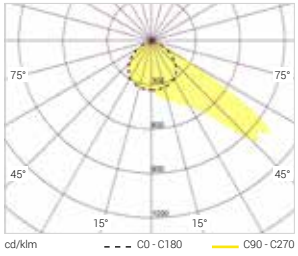


Flicker <1%

Class I

IP66

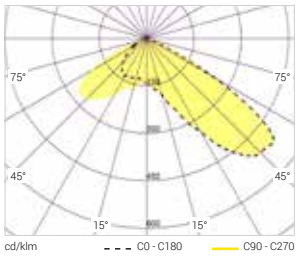
IK08



Asymmetrical 50° narrow beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

	No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
+ 50°C - 30°C	432	800	150240	125200	Glass	157	DALI	22	**835214DA**
High temperature + 70°C - 30°C	432	400	75120	62600	Glass	157	DALI	22	**835214HT**

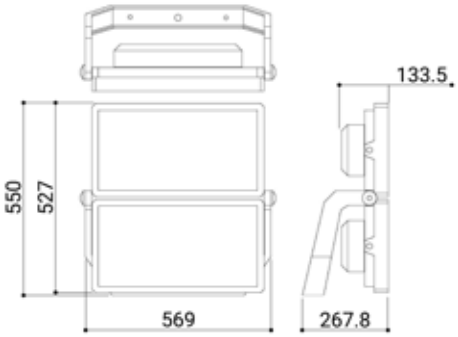


Asymmetrical 50° extra wide beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

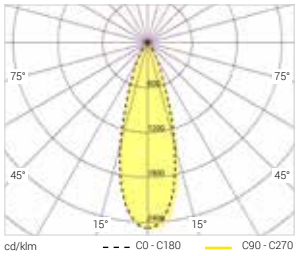
	No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
+ 50°C - 30°C	432	800	144000	120000	Glass	150	DALI	22	**835224DA**
High temperature + 70°C - 30°C	432	400	72000	60000	Glass	150	DALI	22	**835224HT**

DARWIN floodlight | 2 modules



Flicker	Class
<1%	I

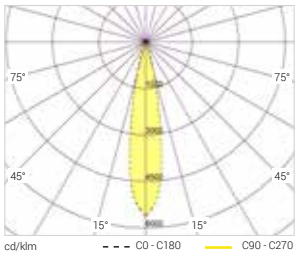
IP66	IK08



Symmetrical 30° narrow beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

	No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
+ 50°C - 30°C	432	800	155520	129600	Glass	162	DALI	22	**835234DA**
High temperature + 70°C - 30°C	432	400	77760	64800	Glass	162	DALI	22	**835234HT**

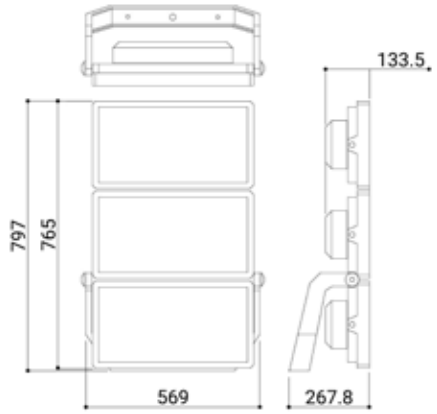


Symmetrical 18° narrow beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

	No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
+ 50°C - 30°C	432	800	153360	127800	Glass	160	DALI	22	**835244DA**
High temperature + 70°C - 30°C	432	400	76680	63900	Glass	160	DALI	22	**835244HT**

DARWIN floodlight | 3 modules

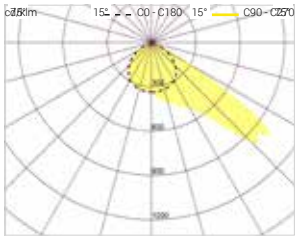


Flicker <1%

Class I

IP66

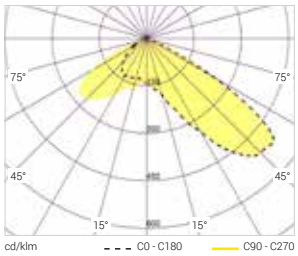
IK08



Asymmetrical 50° narrow beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

	No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
+ 50°C - 30°C	648	1200	225360	187800	Glass	157	DALI	32	**835314DA**
High temperature + 70°C - 30°C	648	600	112680	93900	Glass	157	DALI	32	**835314HT**

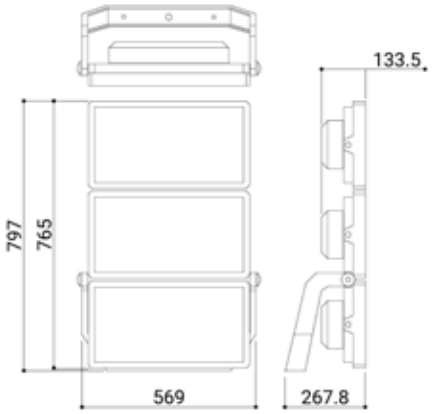


Asymmetrical 50° extra wide beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

	No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
+ 50°C - 30°C	648	1200	216000	180000	Glass	150	DALI	32	**835324DA**
High temperature + 70°C - 30°C	648	600	108000	90000	Glass	150	DALI	32	**835324HT**

DARWIN floodlight | 3 modules

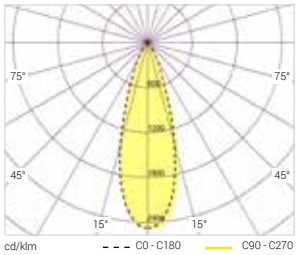


Flicker <1%

Class I

IP66

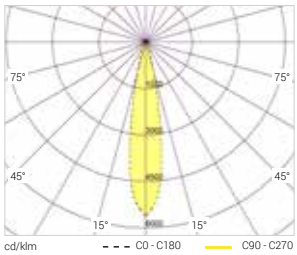
IK08



Symmetrical 30° narrow beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

	No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
+ 50°C - 30°C	648	1200	233280	194400	Glass	162	DALI	32	**835334DA**
High temperature + 70°C - 30°C	648	600	116640	97200	Glass	162	DALI	32	**835334HT**



Symmetrical 18° narrow beam optics

Included: wall bracket.
Power supply with 5Px1.5mm² quick connector and 1.5mm² H07RN-F cable.
The stated flux and power values may be subject to a +/- 7% tolerance.

	No. of LEDs	Power (W)	Nominal flux (lm)Tj=25 °C	Output flux (lm)Tq=25 °C	Diffuser	Efficacy (lm/W)	Version	Weight (kg)	Code
+ 50°C - 30°C	648	1200	230040	191700	Glass	160	DALI	32	**835344DA**
High temperature + 70°C - 30°C	648	600	115020	95850	Glass	160	DALI	32	**835344HT**

Accessories DARWIN floodlight

DARWIN floodlight fitted with **crossbar for pole-top installation**

Crossbar for pole-top installation
for 1 or 2 floodlights

Material:
Painted galvanised steel

Code: **818990**

Note: the crossbar can be installed on ø 60 to ø 76 mm poles.

Crossbar for pole-top installation
for 2 or 4 floodlights

Material:
Painted galvanised steel

Code: **818991**

Note: the crossbar can be installed on ø 60 to ø 76 mm poles.

Customer focused operations

Smart engineering

Top Manufacture

Service excellence

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Palazzoli
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