Street & Industrial LED Lighting

DETAS DLEDS

ENG

livin' in a new light

Detas SpA

The Detas group relies on the experience passed down from generation to generation **since 1896** *when in Pola (Istria), the first company was founded, manufacturing electrical components and systems.*

As the years passed, the production of power supplies started and Detas specialized in **industrial automation**, *a branch still active and growing today.*

In 1998 the **D-POWER** *division was founded, active in the* **road safety** *field and pioneer in developing* **LED signaling devices**. *D-POWER is nowadays an European reference in its market thanks to continuing product innovation, patented optics, certified flashers and a range of well-known quality.*

In 2008 we extended the road safety mission to **lighting of tunnels, canopies and streets** *with the* **DLEDS** *division. The cross experience between power supplies-LEDs-optics allowed us to offer since the beginning high performing and reliable products. As the years passed, we extended the range of products to* **industrial, urban lighting** *and luminaires designed to meet specific functional lighting needs.*

The DLEDS brand is a synonym of quality and reliability for our customers, with a sales network and positive references throughout the world.

In our factory in Rezzato (Brescia), our lights are engineered, manufactured and tested. Our technical department relies on years of experience and specific instruments such as an in-house **goniophotometer** *to develop optics and photometric files, an* **IP and salt spray corrosion test chamber**, *electrical parameters meters,* **surge testers** *and chromameters.*

Detas factory is under strict surveillance from the **ENEC, TÜV and NRTL** *inspectors to maintain our quality approvals.*

The final quality control is completed individually after a 48 hours burn in and guarantees the maximum constancy of the delivered products.

Detas invests in reliability, performance and service, offering always the most effective solutions to meet your needs and the shortest payback time.

Approvals

	*The products marked with this logo comply with the electrical safety regulations of the North American market.*
	*(European Norms Electrical Certification) The products marked with this logo are certified according to the European electrical and photobiological safety quality standards.*
	*All our products are manufactured in compliance with the EU directives concerning electrical devices.*
	*All our products are manufactured in compliance with the EU norms restricting the use of hazardous materials in electrical and electronic equipment.*
	*The products marked with this logo are available in an ATEX compliant version for installations in explosive atmosphere.*
	*Our manufacturing and quality control processes are monitored and certified according to ISO 9001: 2015 andISO 14001:2015.*

	*The energy efficiency of the appliance is rated in terms of a set of energy efficiency classes from A to G, A being the most energy efficient, G the least efficient.*

Our suppliers:

LED	LUMILEDS	CREE
Driver	OSRAM	PHILIPS TRIDONIC

Index

In the heart of the light

more than **100 unique optics**, internally developed,
are the key to the success of our products.
An unmatched offer, directly from our experience
on world's roads.

A powerful instrument in your hands.

Glossary of lighting terms

Luminous flux [lumen]

The luminous flux is the amount of light generated from a luminaire. This value is only relatively representing the performance of a product, as it is up to the optics to use this light in an efficient way. Distributing the lumens (light) only where needed provides extra energy savings. We strictly declares the lumens of broadly available products, not theoretical values as many competitors do.

Illuminance [Em, lux]

The illuminance is the quantity of light hitting a specific surface, like a road or a warehouse floor. Illuminance is the measuring parameter to consider for sidewalks, pedestrian crossings, roundabouts and all the industrial lighting.

Luminance [L, cd/m²]

The luminance is the quantity of light that the observer's eyes (usually a driver) see, reflected from an area of $1m^2$ of the road surface seen from distance. It is the measuring parameter for streetlighting and tunnell lighting, as it represents a model of the real world driving conditions, where obstacles must be identified in time to permit a reaction.

Longitudinal uniformity [UI]

Longitudinal uniformity is calculated from the ratio between minimum luminance [Lmin] and maximum luminance [Lmax], measured on the axis of the lane. The measurement is repeated for every lane.

It's a primary importance value in street and tunnel lighting design. An uniformity level below the minimum requirement is clearly visible when dark and bright stripes are evident on the pavement.

Overall uniformity [Uo]

The overall uniformity is calculated from the ratio between minimum luminance [Lmin] and average luminance [Lav], measured in all the points of the matrix drawn in the norm.

Transversal uniformity [Ut]

The transversal uniformity is the worst ratio between Lmin and Lmed between all transversal lines perpendicular to the centerline. This value applies only for tunnel lighting calculations.

Glare [TI, %]

The TI index measures the debilitating glare, caused from the presence of light sources in the sight of an observer. The percent value measures the increment of luminance that should be applied to the road to compensate the presence of the said light source, keeping the same visibility of obstacles. TI applies only for street and tunnel lighting.

Glare [UGR]

The UGR is a grid of values used to classify the glare produced from luminaires in indoor environments. It's not a number that can be assigned to a luminaire but it can be obtained only running a lighting simulation of the room, defining an observer point (like a workstation) and including in the calculation parameters such as the light emitting surfaces and the surrounding illuminance.

PRODUCT NOMENCLATURE Example: TALOS-N 24D530-W216A-230

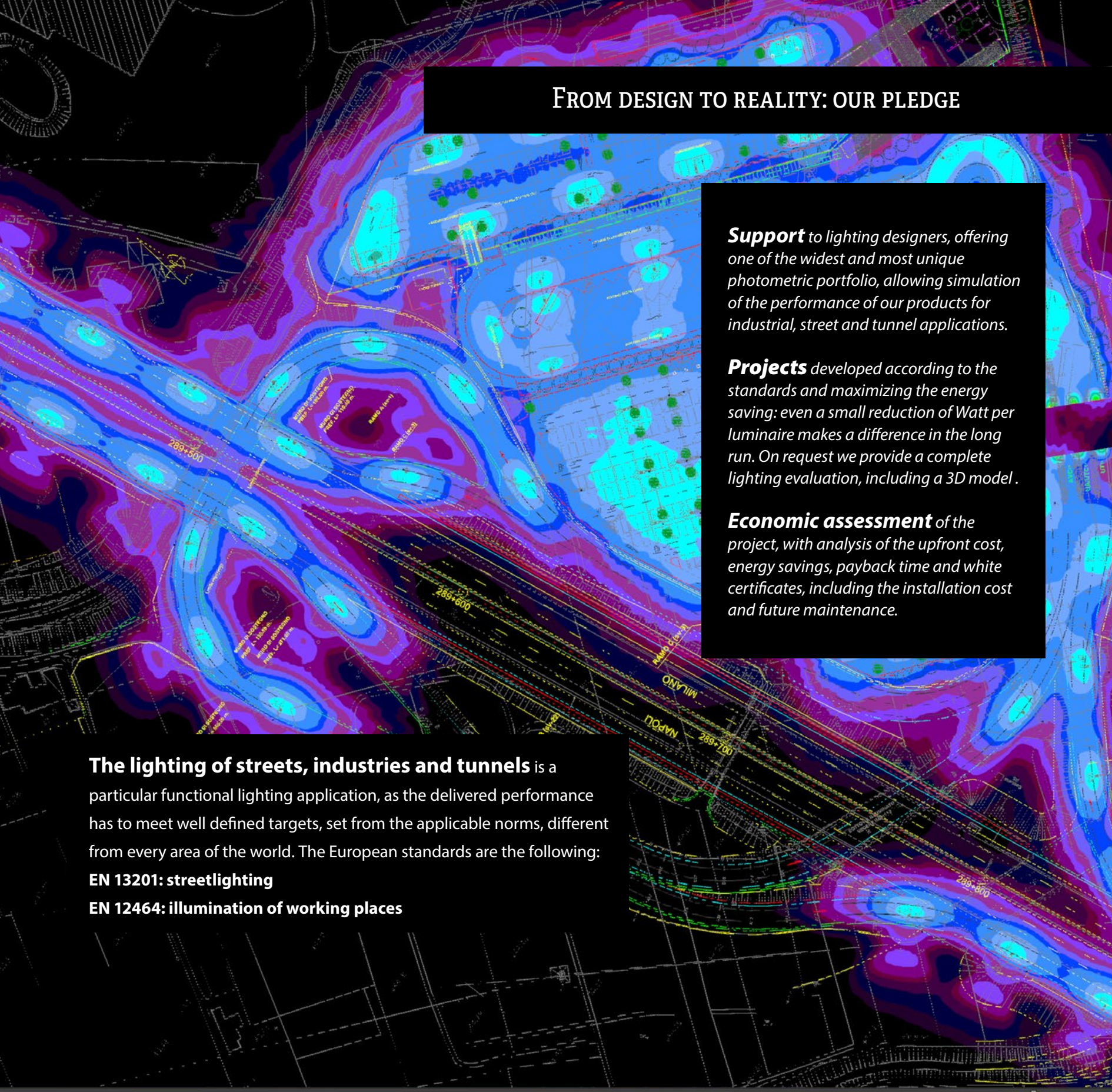
Model	LED quantity	LED type	LED drive [mA]	Light colour	Optics	Voltage
Talos-N	12 24 36	D (Custom)	350 440 530 600 700 830 1000	W: 5700 K N: 4000 K M: 3000 K G: 2200 K	201A 214A 202A 215A 203A 216A 204A 218A 205A 219A 206A 220A 208A 222A 210A 223A 213A 224A	230 V AC ± 10% 50/60 Hz

From design to reality: our pledge

Support *to lighting designers, offering one of the widest and most unique photometric portfolio, allowing simulation of the performance of our products for industrial, street and tunnel applications.*

Projects *developed according to the standards and maximizing the energy saving: even a small reduction of Watt per luminaire makes a difference in the long run. On request we provide a complete lighting evaluation, including a 3D model .*

Economic assessment *of the project, with analysis of the upfront cost, energy savings, payback time and white certificates, including the installation cost and future maintenance.*



The lighting of streets, industries and tunnels is a particular functional lighting application, as the delivered performance has to meet well defined targets, set from the applicable norms, different from every area of the world. The European standards are the following:

EN 13201: streetlighting

EN 12464: illumination of working places

Supercast® Aluminum

Our lights are die casted using a **patented aluminum alloy** with a **copper content lower than 0,09%**.

They are completely corrosion resistant, tested longer than 3000 hours in a salt spray chamber.
Ideal for installations by the marine environment and in close contact with corrosive agents.

Improves heat dissipation by 15% compared to other common alloys.

Confronto tra leghe di alluminio esposte alla nebbia salina per 30 giorni:

SUPERCAST®

A360

Hypercast Aluminum

Our new lights (**Radiant 9 series**) are die casted using a aluminum and magnesium alloy, with a **copper content of 0,00%**.

This alloy allows a **very low weight** while maintaining high performance.

They are completely corrosion resistant, tested longer than 3000 hours in a salt spray chamber.
Ideal for installations by the marine environment and in close contact with corrosive agents.

+ 20% heat dissipation compared to common aluminum alloys.

LED STREETLIGHTING

LED STREETLIGHTING

TALOS M

- Maximum energy saving (up to 30% compared to other LED lights) thanks to the concentrated optics when installed at short/medium mounting heights.
- Photobiological safety risk exempt certified.
- Proprietary full cutoff optics:
  - High visual comfort for road users thanks to the low glare level
  - No light pollution
  - Maximum energy efficiency thanks to the targeted optics.
- Modern design with nice impact into urban locations.
- Optional control systems:
  - 1-10V / DALI
  - Virtual midnight
  - Remote wireless control
  - Photocell / motion sensor
  - Power-line communication
  - Lineswitch.

The Talos series has been designed to comply with international most stringent tenders.

Nice looking, small dimensions but complete flexibility thanks to the availability of more than 100 different optical solutions, the Talos M is unbeatable solution when performances are needed with cost effective solutions.

ENERGY CLASS A++

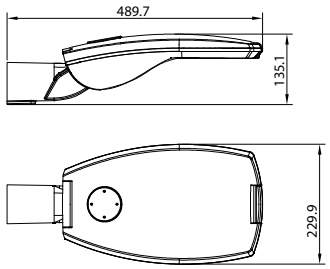
CE

RoHS COMPLIANT

pending

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Philips / Custom
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC
Efficiency min. - max.	123 - 143 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	Die cast aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K on request
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	3.5 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
8F350	9W	1276	1602
8F530	13W	1855	2314
8F700	17W	2391	3026
8F1000	25W	3238	4450
16F350	18W	2544	3204
16F440	23W	3133	4094
16F530	28W	3742	4984
16F600	31W	4117	5518
16F700	37W	4807	6586
16F830	44W	5612	7832
16F1000	53W	6524	9434

** With optics 206A - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

201A	214A
202A	215A
203A	216A
204A	217A
205A	218A
206A	219A
208A	220A
210A	222A
213A	223A
	224A

Other optics available.

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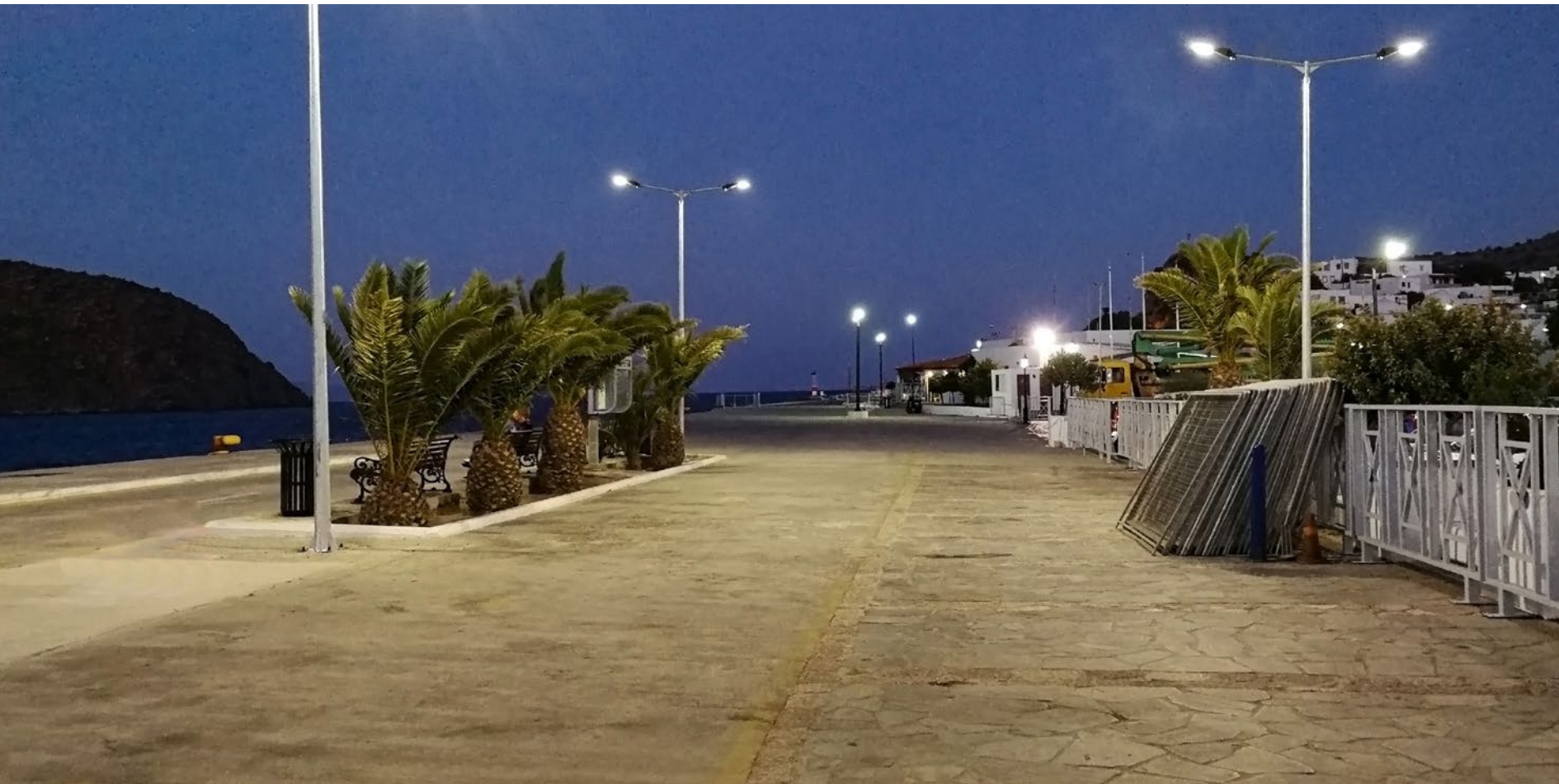
DETAS DLEDS

TALOS M



TALOS N

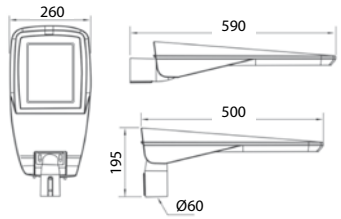
- Maximum energy saving (up to 30% compared to other LED lights) thanks to the concentrated optics when installed at short/medium mounting heights.
- Photobiological safety risk exempt certified.
- Proprietary full cutoff optics:
  - High visual comfort for road users thanks to the low glare level
  - No light pollution
  - Maximum energy efficiency thanks to the targeted optics.
- Modern design with nice impact into urban locations.
- Optional control systems:
  - 1-10V / DALI
  - Virtual midnight
  - Remote wireless control
  - Photocell / motion sensor
  - Power-line communication
  - Lineswitch.

The Talos series has been designed to comply with international most stringent tenders.

It uses our standard optical systems and in addition can be equipped with the last LED generation.

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC
Efficiency min. - max.	135 - 169 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**SUPERCAST®** aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	5 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
12D350	13	2030	2314
12D530	20	3052	3560
12D700	26	3791	4628
12D1000	39	5267	6942
24D350	25	4219	4450
24D440	32	5271	5696
24D530	39	6253	6942
24D600	45	7043	8010
24D700	53	8018	9434
24D830	63	9198	11214
24D1000	77	10843	13706
36D350	38	5880	6764
36D440	48	7226	8544
36D530	60	8651	10680
36D600	67	9617	11926
36D700	79	11082	14062

OPTICS

201A	214A
202A	215A
203A	216A
204A	217A
205A	218A
206A	219A
208A	220A
210A	222A
213A	223A
	224A

Other optics available.

** With optics 206A - 4000 K*

*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

Vers. 73 / 10-2019 - CDLDEN1973

DETAS DLEDS

TALOS N

TALOS G

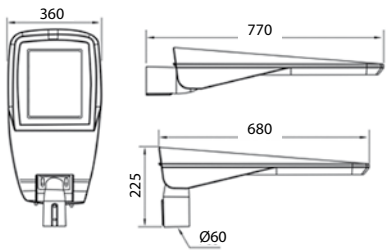
- Maximum energy saving (up to 30% compared to other LED lights) thanks to the concentrated optics when installed at medium/high mounting heights.
- Photobiological safety risk exempt certified.
- Proprietary full cutoff optics:
  - High visual comfort for road users thanks to the low glare level
  - No light pollution
  - Maximum energy efficiency thanks to the targeted optics.
- Modern design with nice impact into urban locations.
- Optional control systems:
  - 1-10V / DALI
  - Virtual midnight
  - Remote wireless control
  - Photocell / motion sensor
  - Power-line communication
  - Lineswitch.

The Talos series has been designed to comply with international most stringent tenders.

It uses our standard optical systems and in addition can be equipped with the last LED generation.

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC
Efficiency min. - max.	141 - 165 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**SUPERCAST®** aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	7 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
32D350	34	5625	6052
32D530	52	8232	9256
32D700	70	10590	12460
32D1000	103	14504	18334
48D350	51	8438	9078
48D530	79	12506	14062
48D600	89	14086	15842
48D700	106	16036	18868
48D830	128	18688	22784
48D1000	154	21686	27412
64D350	68	11251	12104
64D530	105	16622	18690
64D600	119	18834	21182
64D700	141	21331	25098
64D830	171	24966	30438
80D530	131	20738	23318
80D600	151	23899	26878
80D700	180	27231	32040

OPTICS

201A	214A
202A	215A
203A	216A
204A	217A
205A	218A
206A	219A
208A	220A
210A	222A
213A	223A
	224A

Other optics available.

** With optics 206A - 4000 K*

*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

Vers. 7.3 / 10-2019 - CDLDEN1973

DETAS DLEDS

TALOS G

ARGUS

- Modern design with nice impact into urban locations.
- Tempered glass protecting LEDs and optics.
- Proprietary full cutoff optics:
  - High visual comfort for road users thanks to the low glare level
  - No light pollution
  - Maximum energy efficiency thanks to the targeted optics.
- Optional control systems:
  - 1-10V / DALI
  - Virtual midnight
  - Remote wireless control
  - Power-line communication
  - Lineswitch.

Argus is our alternative to Stratos and Talos series if it is required to install a nice looking LED fixture especially in urban contest.

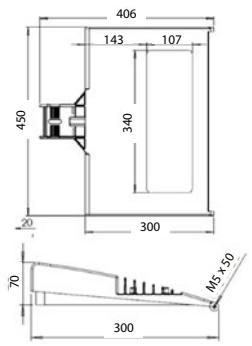
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Lumileds
Step MacAdam	5 (3 on request)
LED driver	Philips Xitanium
Input voltage	230 VAC
Efficiency min. - max.	101 - 118 lm/W
L80 B10 F10**	>80.000 hrs
PF	>0.95
Housing	**SUPERCAST®** aluminum
Glass	Tempered 5 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >75
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-40° ÷ +50°C
Weight	7.5 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
4M550	27	3017	3915
4M700	34	3683	4930
4M850	41	4367	5945
8M400	39	4608	5655
8M550	53	5949	7685
8M700	68	7240	9860
8M850	82	8567	11890
12M400	58	6781	8410
12M550	80	8787	11600
12M700	102	10748	14790
12M850	124	12593	17980

** With optics 57A - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

15S	57A
23A	59A
49A	64A
52A	85A
56A	88A

Other optics available.

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DETAS DLEDS

ARGUS


4

URBAN LIGHTING

QUINCY 3

- Unique combination between traditional/decorative look and high performing roadway optics.
- Proprietary full cutoff optics allow to fight the sky glow effect, eliminating the light emission towards the sky and private properties.
- Improved safety level of municipalities thanks to:
  - Higher uniformity level provided from the optics
  - White light, improved visibility
  - Higher Chromaticity Index (CRI).
- Tempered glass protecting LEDs and optics, available in a frosted version.
- Optional control systems:
  - 1-10V / DALI
  - Virtual midnight
  - Power-line communication
  - Lineswitch.

Quincy is one of our urban design fixtures in cases of post top mounting, used to illuminate streets and other public areas.
Available in two different sizes.

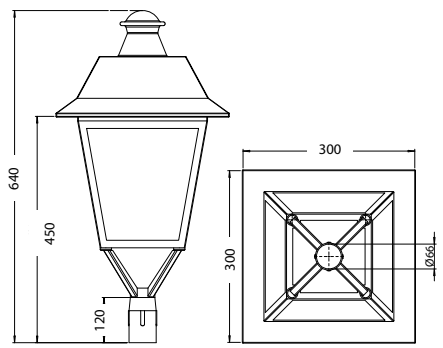
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC
Efficiency min. - max.	122 - 141 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**SUPERCAST®** aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP64 (optics IP67)
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	2,8 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
24F350	25	3518	4500
24F440	32	4309	5760
24F530	39	5098	7020
24F600	45	5719	8100
24F700	53	6475	9540
36F350	38	5122	6840
36F440	48	6273	8640
36F530	59	7422	10620
36F600	67	8326	12060

** With optics 206A*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

201A	214A
202A	215A
203A	216A
204A	218A
205A	219A
206A	220A
208A	222A
210A	223A
213A	224A

Other optics available.

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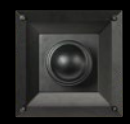


DETAS DLEDS

QUINCY 3

QUINCY 4

- Unique combination between traditional/decorative look and high performing roadway optics.
- Proprietary full cutoff optics allow to fight the sky glow effect, eliminating the light emission towards the sky and private properties.
- Improved safety level of municipalities thanks to:
  - Higher uniformity level provided from the optics
  - White light, improved visibility
  - Higher Chromaticity Index (CRI).
- Tempered glass protecting LEDs and optics, available in a frosted version.
- Optional control systems:
  - 1-10V / DALI
  - Virtual midnight
  - Power-line communication
  - Lineswitch.

Quincy is one of our urban design fixtures in cases of post top mounting, used to illuminate streets and other public areas.
Available in two different sizes.

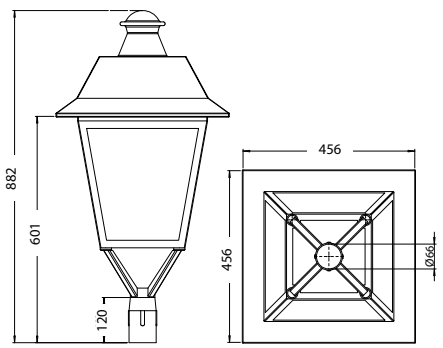
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Philips / Custom
Step MacAdam	4
LED driver	Osram / Philips
Input voltage	230 VAC
Efficiency min. - max.	122 - 135 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**SUPERCAST®** aluminum
Glass	Tempered 4mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP64 (optics IP67)
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	6,5 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
24F350	25	3518	4500
24F440	32	4309	5760
24F530	39	5098	7020
24F600	45	5719	8100
24F700	53	6475	9540
36F350	38	5122	6840
36F440	48	6273	8640
36F530	59	7422	10620
36F600	67	8326	12060

** With optics 206A*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

201A	214A
202A	215A
203A	216A
204A	218A
205A	219A
206A	220A
208A	222A
210A	223A
213A	224A

Other optics available.

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DETAS DLEDS

QUINCY 4

MRL IP67 - RETROFIT

- Proprietary full cutoff optics allow to fight the sky glow effect, eliminating the light emission towards the sky and private properties.
- Improved safety level of municipalities thanks to:
  - Higher uniformity level provided from the optics
  - White light, improved visibility
  - Higher Chromaticity Index (CRI).
- Tempered glass protecting LEDs and optics, available in a frosted version.

The MRL retrofit is a versatile solution for retrofitting old luminaires keeping the existing housing.

The MRL is characterized by the full IP65 construction and by the fast installation.

The optical engine can be equipped with all our known optics.

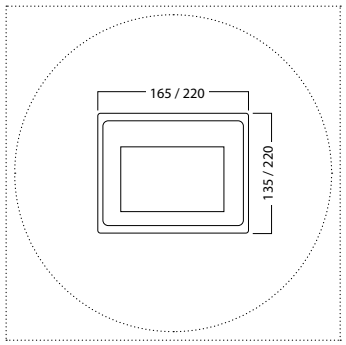
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Philips / Custom
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC
Efficiency min. - max.	144 - 169 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	Aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP64 (optics IP67)
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	1 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
24D350	25	4219	4450
24D440	32	5271	5696
24D530	39	6253	6942
24D600	45	7043	8010
24D700	53	8018	9434
36D350	38	5880	6764
36D440	48	7226	8544
36D530	60	8651	10680

** With optics 206A - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

201A	214A
202A	215A
203A	216A
204A	218A
205A	219A
206A	220A
208A	222A
210A	223A
213A	224A

Other optics available.

Vers. 7.3 / 10-2019 - COLDEN1973

MRL IP67 - RETROFIT

CITY 2

- Proprietary full cutoff optics allow to fight the sky glow effect, eliminating the light emission towards the sky and private properties.
- Maximizes the energy savings by eliminating the wasted, unfocused light.
- Improved safety level of municipalities thanks to:
  - Higher uniformity level provided from the optics
  - White light, improved visibility
  - Higher Chromaticity Index (CRI).
- Tempered glass protecting LEDs and optics, available in a frosted version.
- Streetlighting optics available.
- Optional control systems:
  - 1-10V / DALI
  - Virtual midnight
  - Power-line communication
  - Lineswitch.

City 2 is one of our urban design fixtures engineered to replace the old globe lights and other luminaires in case of arm mounting.

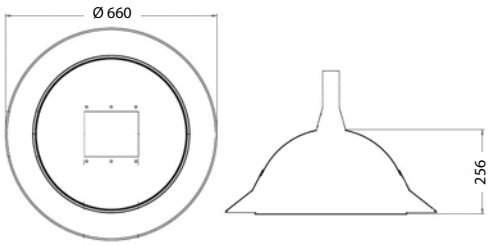
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Philips / Custom
Step MacAdam	4
LED driver	Osram / Philips
Input voltage	230 VAC
Efficiency min. - max.	144 - 169 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	Aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP64 (optics IP67)
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	5 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
24D350	25	4219	4450
24D440	32	5271	5696
24D530	39	6253	6942
24D600	45	7043	8010
24D700	53	8018	9434
36D350	38	5880	6764
36D440	48	7226	8544
36D530	60	8651	10680

** With optics 206A - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

201A	214A
202A	215A
203A	216A
204A	218A
205A	219A
206A	220A
208A	222A
210A	223A
213A	224A

Other optics available.

Vers. 7.3 / 10-2019 - COLDEN1973

DETAS DLEDS

CITY 2

KOR 2

- Proprietary full cutoff optics allow to fight the sky glow effect, eliminating the light emission towards the sky and private properties.
- Improved safety level of municipalities thanks to:
  - Higher uniformity level provided from the optics
  - White light, improved visibility
  - Higher Chromaticity Index (CRI).
- Tempered glass protecting LEDs and optics, available in a frosted version.
- Optional control systems:
  - 1-10V / DALI
  - Virtual midnight
  - Power-line communication
  - Lineswitch.

Unique combination of traditional/decorative line and functional street optics.

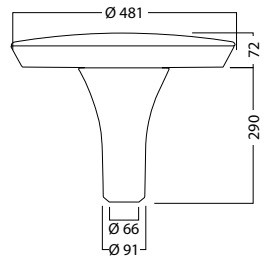
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Philips / Custom
Step MacAdam	5
LED driver	Osram / Philips
Input voltage	230 VAC
Efficiency min. - max.	100 - 113 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	Aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	10 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
36F350	38	4295	5510
36F440	48	5260	6960
36F530	59	6224	8555
36F600	67	6982	9715
36F700	79	7905	11455

** With optics 201S - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

201S

Other optics available.

Vers. 7.3 / 10-2019 - COLDEN1973

DETAS DLEDS

KOR 2

AVALON

- Proprietary full cutoff optics allow to fight the sky glow effect, eliminating the light emission towards the sky and private properties.
- Improved safety level of municipalities thanks to:
  - Higher uniformity level provided from the optics
  - White light, improved visibility
  - Higher Chromaticity Index (CRI).
- Tempered glass protecting LEDs and optics, available in a frosted version.
- Optional control systems:
  - 1-10V / DALI
  - Virtual midnight
  - Power-line communication
  - Lineswitch.

Avalon is one of our urban design fixtures in pole mount cases, used for street lighting and green areas.

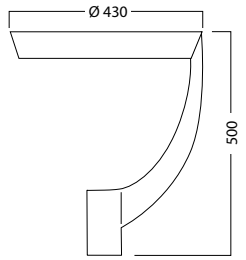
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Lumileds
Step MacAdam	5 (3 on request)
LED driver	Philips Xitanium
Input voltage	230 VAC
Efficiency min. - max.	93 - 108 lm/W
L80 B10 F10**	>80.000 hrs
PF	>0.95
Housing	**SUPERCAST®** aluminum
Glass	Tempered 5 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP65 (optics IP67)
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	6.3 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
4M400	19	2052	2900
4M550	27	2805	3915
4M700	34	3369	4930
6M400	29	3070	4205
6M550	40	4034	5800
6M700	51	4860	7395
8M400	39	4046	5655
8M550	53	5239	7830
8M700	68	6350	9860

** With optics 57A*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

15S	57A
23A	59A
49A	64A
52A	85A
56A	88A

Other optics available.

Vers. 7.3 / 10-2019 - COLDEN1973

DETAS DLEDS

AVALON

14
TRONY

LED FLOODLIGHTS

RADIANT 2X2

- Wide optics choice customized for each project.
- Tempered glass to protect LEDs and optics.
- Full forward optics for wide areas.
- Available controls:
  - Virtual Midnight / AstroDim
  - DALI
  - 1-10V
  - Lineswitch / StepDim
  - Wireless.

Radiant 2X2 is the evolution of Radiant 2 with the possibility to manage up to 700W for wide areas and sport fields where high levels of illuminance are required. We maximize the efficiency of the system with dediicated custom optics and the conjunction with Detas Dles know how makes the producta total reliable solution.

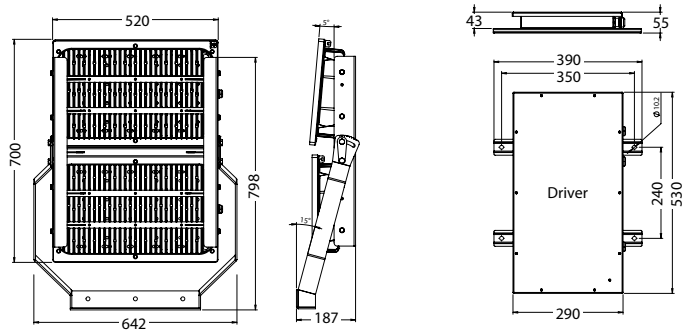
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	5
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC (in separate box)
Efficiency min. - max.	144 - 165 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**SUPERCAST®** aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	33+7 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
256D350	272	45082	48416
256D530	420	66816	74760
256D600	475	75258	84550
256D700	563	85676	100214
256D830	682	98285	121396

** With optics 212S - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

201A	227A
218A	235A
210A	

Other optics available.

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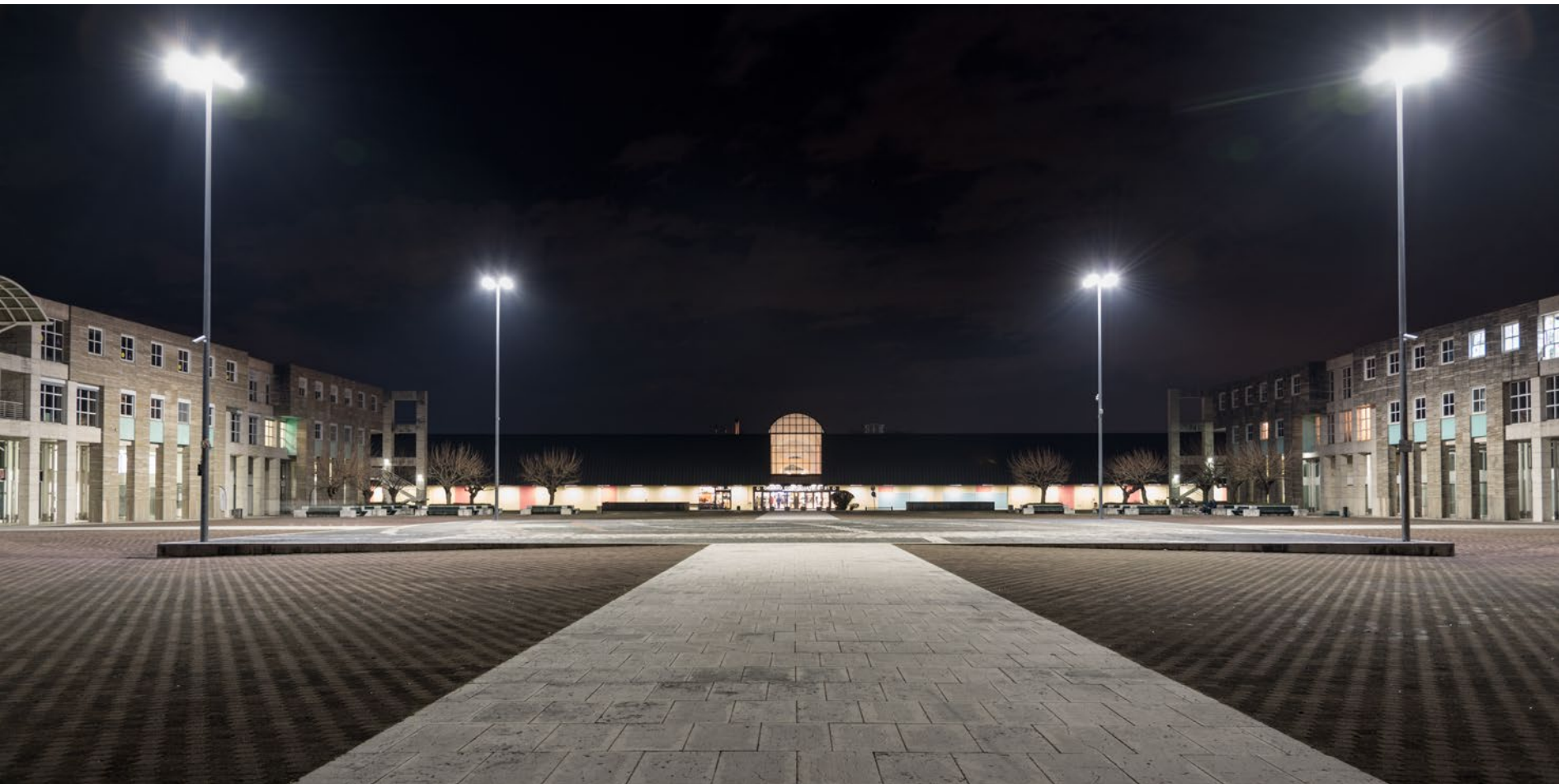
DETAS DLEDS

RADIANT 2X2



RADIANT 9

- High illuminance values with CRI up to 90.
- Wide optics choice customized for each project.
- Full forward optics for wide areas.
- Tempered glass to protect LEDs and optics.
- Durable die cast without copper.
- Available controls:
  - Virtual Midnight / AstroDim
  - DALI
  - 1-10V
  - Lineswitch / StepDim
  - Wireless.

Radiant 9 is our solution for high mast installation, for sport areas, roundabouts, airports, wide areas.

Our optic choice is made according to each single project in order to guarantee the best final result.

Full forward special optics are used where high illuminance values are required.

The reduced thickness is ideal solution for windy areas.

Flexible mounting system for poles, brackets or lamp crowns.

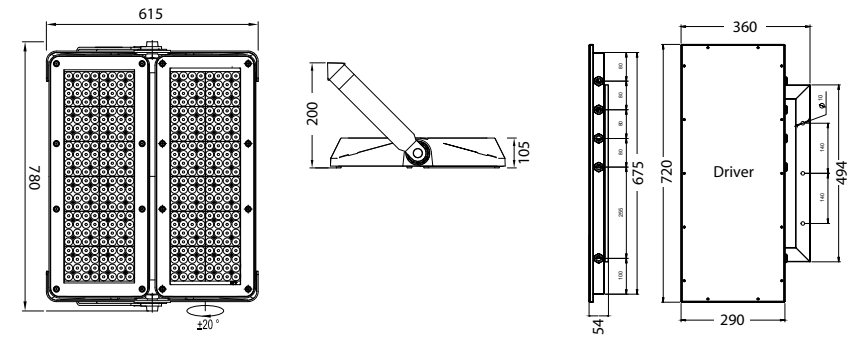
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC (in separate box)
Efficiency min. - max.	117 - 139 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**HYPERCAST** aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >75
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	29,8 + 10,2 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
384D660	794	103716	141332
384D750	906	109699	161268
384D810	985	115627	175330
336D530	548	76042	97544
336D600	629	84569	111962
336D700	740	97161	131720
336D850	908	115034	161624

** With optics 201A - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

201A	227A
218A	235A
210A	

Other optics available.

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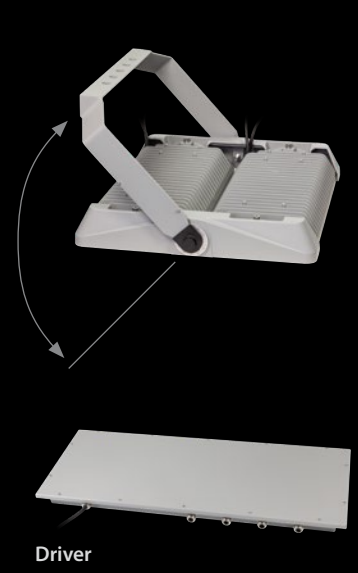


DETAS DLEDS

RADIANT 9

MAYA 8A

- Superior quality and reliability compared to the standard LED flood light.
- Wide optics choice customizable for each project.
- Streetlights and full forward optics for parking lots or perimeter areas.
- Pole mounting adapter available.
- Tempered glass to protect LEDs and optics.
- Wide power options from 13 W to 79 W.
- Available controls:
  - Virtual Midnight / AstroDim
  - DALI
  - 1-10V
  - Lineswitch / StepDim
  - Wireless.

Maya family of LED flood lights consists of a versatile range of products from 13W to 475W.
They can be used for architectural lighting, facades, perimeter areas, indoor sport areas.
The highest power versions are the most indicated solution for light towers.
The design, the compact size and the reduced thickness are some of the positive concepts which make the Maya series your best choice.

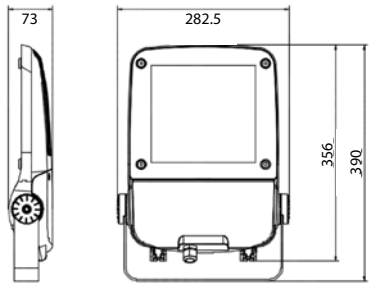
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Osram / Philips /Tridonic
Input voltage	230 VAC
Efficiency min. - max.	135 - 169 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**SUPERCAST®** aluminum
Glass	Tempered 5 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	3,6 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
12D350	13	2030	2314
12D530	20	3052	3560
12D700	26	3791	4628
12D1000	39	5267	6942
24D350	25	4219	4450
24D440	32	5271	5696
24D530	39	6253	6942
24D600	45	7043	8010
24D700	53	8018	9434
24D830	63	9198	11214
24D1000	77	10843	13706
36D350	38	5880	6764
36D440	48	7226	8544
36D530	59	8651	10680
36D600	67	9617	11926
36D700	79	11082	14062

OPTICS

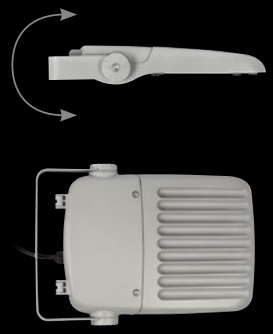
201A 227A
218A 235A
210A

Other optics available.

** With optics 206A - 4000 K*

*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

Vers. 73 / 10-2019 - CDLDEN1973



DETAS DLEDS

MAYA 8A

MAYA 8B

- Superior quality and reliability compared to the standard LED flood light.
- Wide optics choice customizable for each project.
- Streetlights and full forward optics for parking lots or perimeter areas.
- Pole mounting adapter available.
- Tempered glass to protect LEDs and optics.
- Wide power options from 96W to 139 W.
- Available controls:
  - Virtual Midnight / AstroDim
  - DALI
  - 1-10V
  - Lineswitch / StepDim
  - Wireless.

Maya family of LED flood lights consists of a versatile range of products from 13W to 475W.

They can be used for architectural lighting, facades, perimeter areas, indoor sport areas.

The highest power versions are the most indicated solution for light towers.

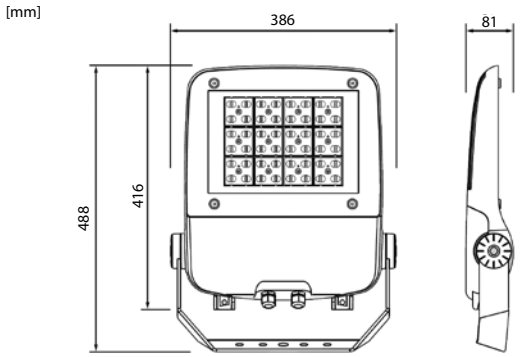
The design, the compact size and the reduced thickness are some of the positive concepts which make the Maya series your best choice.

ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC
Efficiency min. - max.	138 - 165 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**SUPERCAST**® aluminum
Glass	Tempered 5 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	7,5 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
36D830	96	13771	17760
36D1000	118	16269	21830
48D350	51	8422	9435
48D440	65	10522	12025
48D530	79	12483	14615
48D600	89	14060	16465
48D700	106	16006	19610
48D830	128	18362	23680
48D900	139	19412	25715
60D350	64	10359	11840
60D440	81	12942	14985
60D530	98	15354	18130
60D600	111	17293	20535
60D700	132	19687	24420
60D730	139	20155	25715

OPTICS

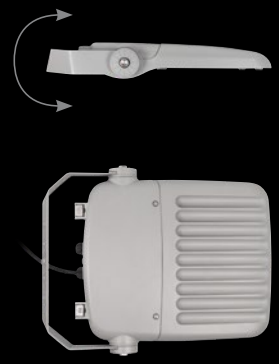
201A 227A
218A 235A
210A

Other optics available.

** With optics 206A - 4000 K*

*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

Vers. 73 / 10-2019 - CDLDEN1973



DETAS DLEDS

MAYA 8B

MAYA 9C

- Superior quality and reliability compared to the standard LED flood light.
- Wide optics choice customizable for each project.
- Streetlights and full forward optics for parking lots or perimeter areas.
- Pole mounting adapter available.
- Tempered glass to protect LEDs and optics.
- Wide power options from 118W to 254 W.
- Available controls:
  - Virtual Midnight / AstroDim
  - DALI
  - 1-10V
  - Lineswitch / StepDim
  - Wireless.

Maya family of LED flood lights consists of a versatile range of products from 13W to 475W.

They can be used for architectural lighting, facades, perimeter areas, indoor sport areas.

The highest power versions are the most indicated solution for light towers.

The design, the compact size and the reduced thickness are some of the positive concepts which make the Maya series your best choice.

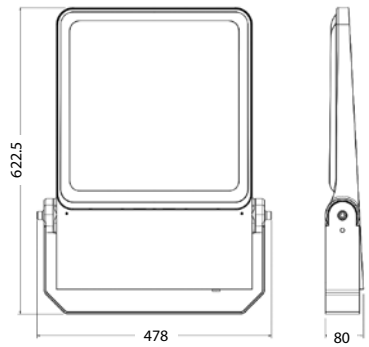
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC
Efficiency min. - max.	141 - 165 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**SUPERCAST**® aluminum
Glass	Tempered 5 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	12,7 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
72D530	118	18724	21004
72D600	136	21089	24208
72D700	158	24009	28124
72D1000	231	32510	41118
96D350	102	16844	18156
96D440	129	21045	22962
96D530	157	24965	27946
96D600	178	28119	31684
96D700	211	32012	37558
96D830	256	36723	45568
120D350	127	20740	22606
120D440	161	25911	28658
120D530	197	30738	35066
120D600	223	34622	39694
120D660	249	38026	44322
144D350	153	24577	27234
144D440	194	30705	34532
144D530	236	36425	42008
144D560	254	38536	45212

OPTICS

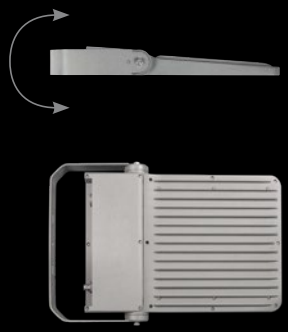
201A	227A
218A	235A
210A	

Other optics available.

** With optics 258A - 4000 K*

*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

Vers. 73 / 10-2019 - CDLDEN1973



DETAS DLEDS

MAYA 9C

MAYA 9D

- Superior quality and reliability compared to the standard LED flood light.
- Wide optics choice customizable for each project.
- Streetlights and full forward optics for parking lots or perimeter areas.
- Pole mounting adapter available.
- Tempered glass to protect LEDs and optics.
- Wide power options from 136W to 475 W.
- Available controls:
  - Virtual Midnight / AstroDim
  - DALI
  - 1-10V
  - Lineswitch / StepDim
  - Wireless.

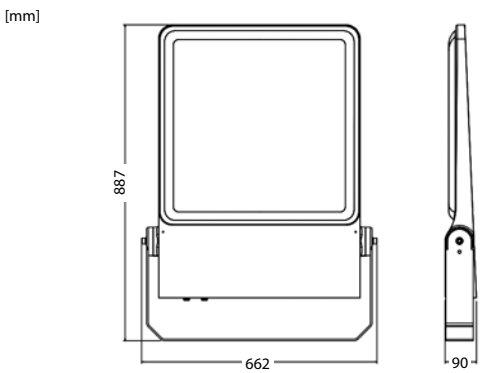
Maya family of LED flood lights consists of a versatile range of products from 13W to 475W.
They can be used for architectural lighting, facades, perimeter areas, indoor sport areas.
The highest power versions are the most indicated solution for light towers.
The design, the compact size and the reduced thickness are some of the positive concepts which make the Maya series your best choice.

ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC
Efficiency min. - max.	136 - 160 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**SUPERCAST**® aluminum
Glass	Tempered 5 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	21,5 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
128D350	136	21751	24208
128D440	172	27174	30616
128D530	210	32237	37380
128D600	238	36309	42364
128D700	282	41336	50196
128D830	341	47419	60698
128D1000	411	55900	73158
192D350	204	31973	36312
192D440	258	39946	45924
192D530	315	47388	56070
192D600	356	53375	63368
192D700	423	60764	75294
256D350	272	41276	48416
256D440	342	51568	60876
256D530	420	61175	74760
256D600	475	68904	84550

OPTICS

201A	227A
218A	235A
210A	

Other optics available.

** With optics 258A - 4000 K*

*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

Vers. 73 / 10-2019 - CDLDEN1973

DETAS DLEDS

MAYA 9D


PUNTOERRE
PEUGEOT
MOTION & EMOTION
USATO
SELEZIONATO
PUNTOERRE
PEUGEOT
MOTION & EMOTION
USAT
SELEZIONAT
ESTINTORE
INTERACTION
IMAGINATION
INNOVATION

INDUSTRIAL LIGHTING

PAD LLC 3

- Best investment for indoor industrial lighting, average payback in 2.5 years.
- The optics can be selected according to the type of work area and height of installation.
- Tempered glass for protection of optics and LED.
- Mounting on ceiling.
- Can be supplied with emergency kit.
- Controls available:
  - 1-10V / DALI
  - Motion detection sensor
  - Sensor.

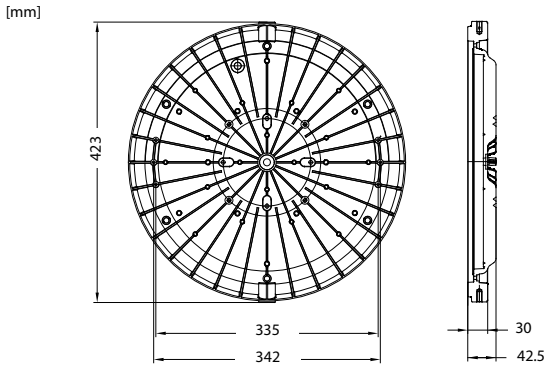
PAD LLC 3 is our low cost option for industrial lighting with suspended fixtures, designed and produced in Europe.
Thanks to the use of optics, it allows to save energy by distributing light where it is necessary.

ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Lifud
Input voltage	230 VAC
Efficiency min. - max.	141 - 166 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	Aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	5 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
32D750	77	11826	13706
32D920	95	13823	16910
64D375	73	12102	12994
64D550	109	17248	19402
64D625	124	19482	22072
64D750	151	22499	26878
64D830	171	24496	30438
64D900	185	26172	32930

** With optics 212S - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

207S	212S
209S	227S
211S	235S

Other optics available.

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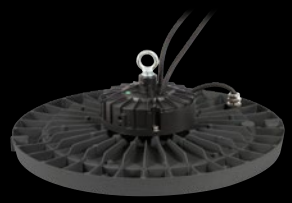


DETAS DLEDS

PAD LLC 3

PAD LLC 3B

- Best investment for indoor industrial lighting, average payback in 2.5 years.
- The optics can be selected according to the type of work area and height of installation.
- Tempered glass for protection of optics and LED.
- Mounting on ceiling.
- Can be supplied with emergency kit.
- Controls available:
  - 1-10V / DALI
  - Motion detection sensor
  - Lighting sensor.

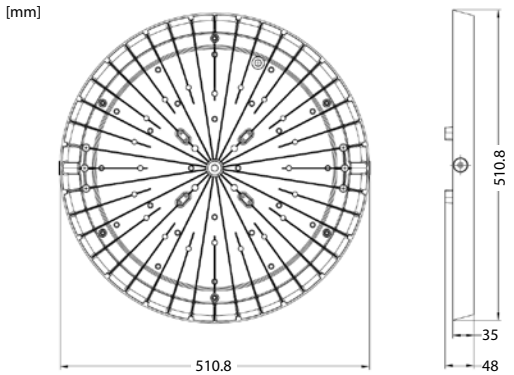
PAD LLC 3B is our low cost option for industrial lighting with suspended fixtures, designed and produced in Europe.
Thanks to the use of optics, it allows to save energy by distributing light where it is necessary.

ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Lifud
Input voltage	230 VAC
Efficiency min. - max.	140 - 166 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	Aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	7 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
64D350	68	11270	12104
64D530	105	16704	18690
64D600	119	18814	21182
64D700	141	21419	25098
64D830	171	24571	30438
64D1000	206	28966	36668
80D350	85	13877	15130
80D530	131	20567	23318
80D600	148	23165	26344
80D700	176	26372	31328
80D830	213	30253	37914
96D350	102	16399	18156
96D530	157	24304	27946
96D600	178	27375	31684
96D700	211	31165	37558
96D830	256	35751	45568

OPTICS

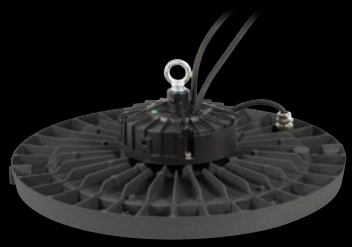
207S	212S
209S	227S
211S	235S

Other optics available.

** With optics 212S - 4000 K*

*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

Vers. 73 / 10-2019 - CDLDEN1973



DETAS DLEDS

PAD LLC 3B

TRILOGY N

- Linear profile for an easy aesthetical integration and installation.
- Tempered glass protecting the LEDs and optics, to achieve the maximum protection from corrosion agents in industrial applications.
- Special optics 20S (8° light beam) for spot and architectural lighting.
- Photovoltaic version available.
- Adjustable and sliding mounting brackets.
- Optional control systems:
  - 1-10V
  - DALI.

Trilogy N is a versatile fixture, mainly used for:

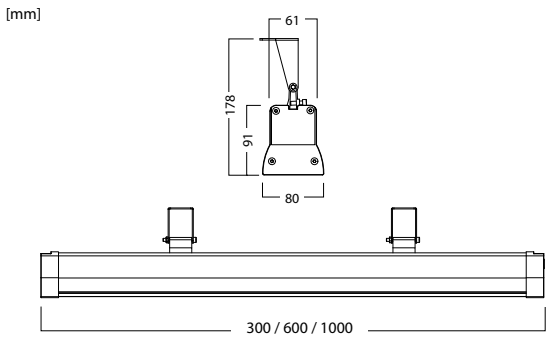
- **Outdoor lighiting**, *for canopies, signage boards illumination, wall washer, etc.*
- **Industrial lighting**, *for shelving warehouses or other productive areas.*

ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS



TECHNICAL DATA

LED type	Lumileds
Step MacAdam	5 (3 on request)
LED driver	Philips Xitanium
Input voltage	230 VAC
Efficiency min. - max.	91 - 118 lm/W
L80 B10 F10**	>80.000 hrs
PF	>0.95
Housing	Aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >75
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-40° ÷ +50°C
Weight	1.5 - 2.5 - 4.0 kg

MODELS

		Total power [W]	Overall flux* [lm]	Optical flux [lm]
30	5R700	12	1100	1500
60	15R700	33	3400	4125
100	20R550	35	3600	4375
	20R700	40	4350	5000
	12M400	59	6980	7985
	12M525	77	8950	10290

** With optics 13S - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

1A	15S
3S	28S
13S	29A
20S	56A
	58S
	59A
	105S

Vers. 7.3 / 10-2019 - COLDEN1973

DETAS DLEDS

TRILOGY N

KES STEEL

- **AISI 304 stainless steel body** and tempered glass with anti-fall safety rope.
- 50% minimum energy saving compared to an equivalent fluorescent troffer.
- Improved color quality and no flickering, instant on (CRI >80).
- Photobiological safety risk exempt.
- Integrated surge protection up to 6 kV.
- Internal emergency backup kit available.
- LED light source not visible for a better visual comfort.
- Optional control systems:
  - 1-10V
  - DALI
  - Power-line communication.

The Kes Steel luminaire can be used in critical environments such as tunnels, industrial production lines with very aggressive corrosion elements, etc.
It is available with power from 30 to 95 W and with only one rotosymmetric optics.

ENERGY CLASS A++

CE

RoHS COMPLIANT

Certified version available:

Ex

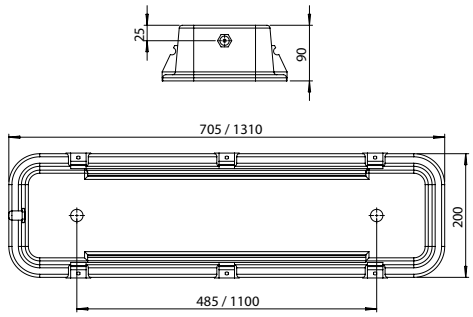
Classification zone 2 gases:
II3GEXnAIIT4(135C°)Gc

Cassification zone 2 dusts:
II3DEXtCIIIT4(135°C)DC

SS304

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Lumileds
Step MacAdam	5 (3 on request)
LED driver	Philips Xitanium
Input voltage	230 VAC
Efficiency min. - max.	110 - 118 lm/W
L80 B10 F10**	>60.000 hrs
PF	>0.95
Housing	**AISI 304 stainless steel**
Glass	Tempered 4 mm
Colour temperature	4000 K - 6000 K
Colour rendering index	CRI >80
Degree of protection	IP65
Electrical insulation [Class]	I
Operating temperature	-25° ÷ +40 °C
Weight	5 kg

MODELS

	CCT [K]	Total power [W]	Overall flux [lm]	Optical flux [lm]
KES-STEEL-60-N-30W	4000	30	3450	5400
KES-STEEL-60-N-44W	4000	44	5016	7920
KES-STEEL-60-N-55W	4000	55	6160	9625
KES-STEEL-60-W-30W	6000	30	3553	5550
KES-STEEL-60-W-44W	6000	44	5166	8140
KES-STEEL-60-W-55W	6000	55	6280	10100
KES-STEEL-120-N-40W	4000	40	4600	7200
KES-STEEL-120-N-65W	4000	65	7370	11700
KES-STEEL-120-N-95W	4000	95	10470	16625
KES-STEEL-120-W-40W	6000	40	4738	7400
KES-STEEL-120-W-65W	6000	65	7590	12000
KES-STEEL-120-W-95W	6000	95	10820	17500

*** Failure rate F10 including driver.*
The average lifespan expressed in hours may undergo variations based on the selected set (drive current).

Vers. 73 / 10-2019 - CDLDEN1973

DETAS DLEDS

KES STEEL

KES STRIP HV

- 50% minimum energy saving compared to an equivalent fluorescent troffer.
- Photobiological safety risk exempt certified.
- Improved color quality and no flickering, instant on (CRI >80).
- Polycarbonate body and lens. No hazardous materials, safe also in case of breakage.
- Internal emergency backup kit available.
- Integrated surge protection up to 6 kV.
- Surface mounting, suspension kit available.
- Optional control systems:
  - Integrated motion sensor (on/off or one step dimming).
  - 1-10V

Kes Strip is a very cost effective solution to replace fluorescent linear lighting.

The LED light source is not visible, providing a comfortable light.

The power steps are designed to replace at least 1:1 equivalent size fluorescent fixtures.

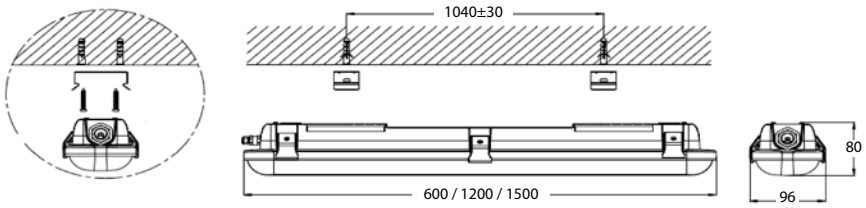
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Custom
Step MacAdam	5 (3 on request)
LED driver	Tridonic HV
Input voltage	230 VAC
Efficiency min. - max.	114 - 131 lm/W
L80 B10 F10**	50'000 hrs
PF	>0,95
Housing	ABS Polycarbonate UL94 V2
Glass	Polycarbonate
Colour temperature	4000 K
Colour rendering index	CRI >80
Degree of protection	IP65
Electrical insulation [Class]	I
Operating temperature	-25° ÷ +40°C
Weight	2 kg

MODELS

	Total power [W]	Overall flux [lm]	Optical flux [lm]
KES STRIP HV-60 10W	10	1290	1850
KES STRIP HV-60 20W	20	2520	3700
KES STRIP HV-120 20W	20	2478	3700
KES STRIP HV-120 39W	39	4452	7215
KES STRIP HV-150 30W	30	3930	5550
KES STRIP HV-150 60W	60	7656	11100

*** Failure rate F10 including driver.*
The average lifespan expressed in hours may undergo variations based on the selected set (drive current).

Vers. 73 / 10-2019 - COLDEN1973

DETAS DLEDS

KES STRIP HV

KES N

- **Extruded aluminum body**, polycarbonate lens. No hazardous materials, safe also in case of breakage.
- 50% minimum energy saving compared to an equivalent fluorescent troffer.
- Improved color quality and no flickering, instant on (CRI >80).
- Photobiological safety risk exempt certified.
- Integrated surge protection up to 6 kV.
- LED light source not visible for a better visual comfort.
- Internal emergency backup kit available.
- Optional control systems:
  - 1-10V / DALI
  - Integrated motion sensor (on/off or one step dimming)
  - Illuminance sensor.

Kes N is a unique powerful luminaire with unbeatable ratio between price and performances.

With a maximum power of 120W, it is the best solution for low bays and high bays up to 8 m height. Can be equipped with several controls and with emergency backup.

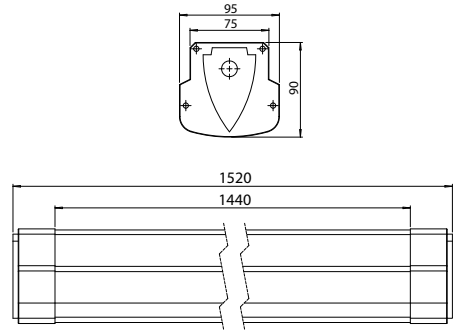
ENERGY CLASS A++

CE

RoHS COMPLIANT

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Edison
Step MacAdam	4
LED driver	Osram / Philips
Input voltage	230 VAC
Efficiency min. - max.	105 - 117 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**Aluminum**
Glass	Plastic
Colour temperature	4000 K - 6000 K
Colour rendering index	CRI >80
Degree of protection	IP65
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +40°C
Weight	4,5 kg

MODELS

	Total power [W]	Overall flux [lm]	Optical flux [lm]
KES-N-150-50	50	5840	9000
KES-N-150-70	70	7840	12600
KES-N-150-100	100	10756	18000
KES-N-150-120	120	12655	21600

*** Failure rate F10 including driver.*
The average lifespan expressed in hours may undergo variations based on the selected set (drive current).

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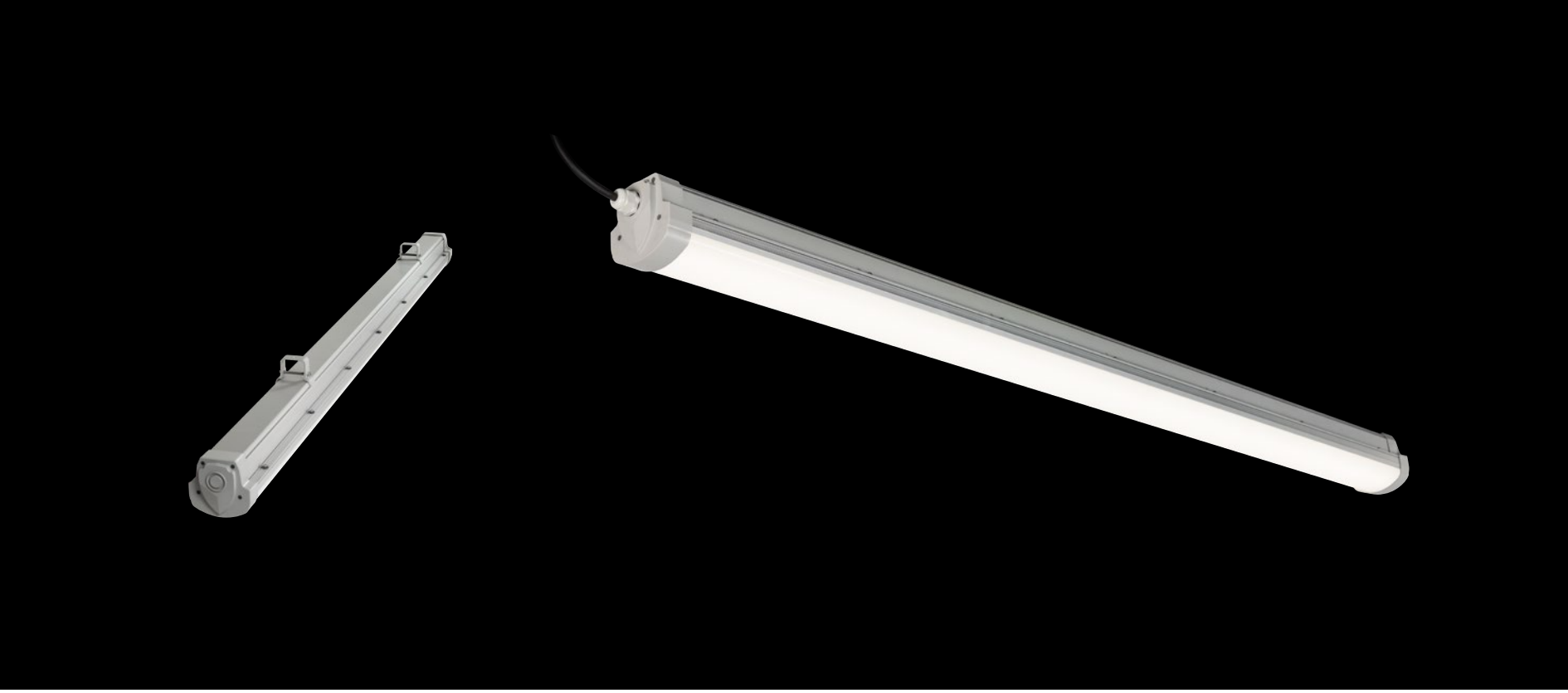

DETAS DLEDS

KES N


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OMV brand partner
APIOS
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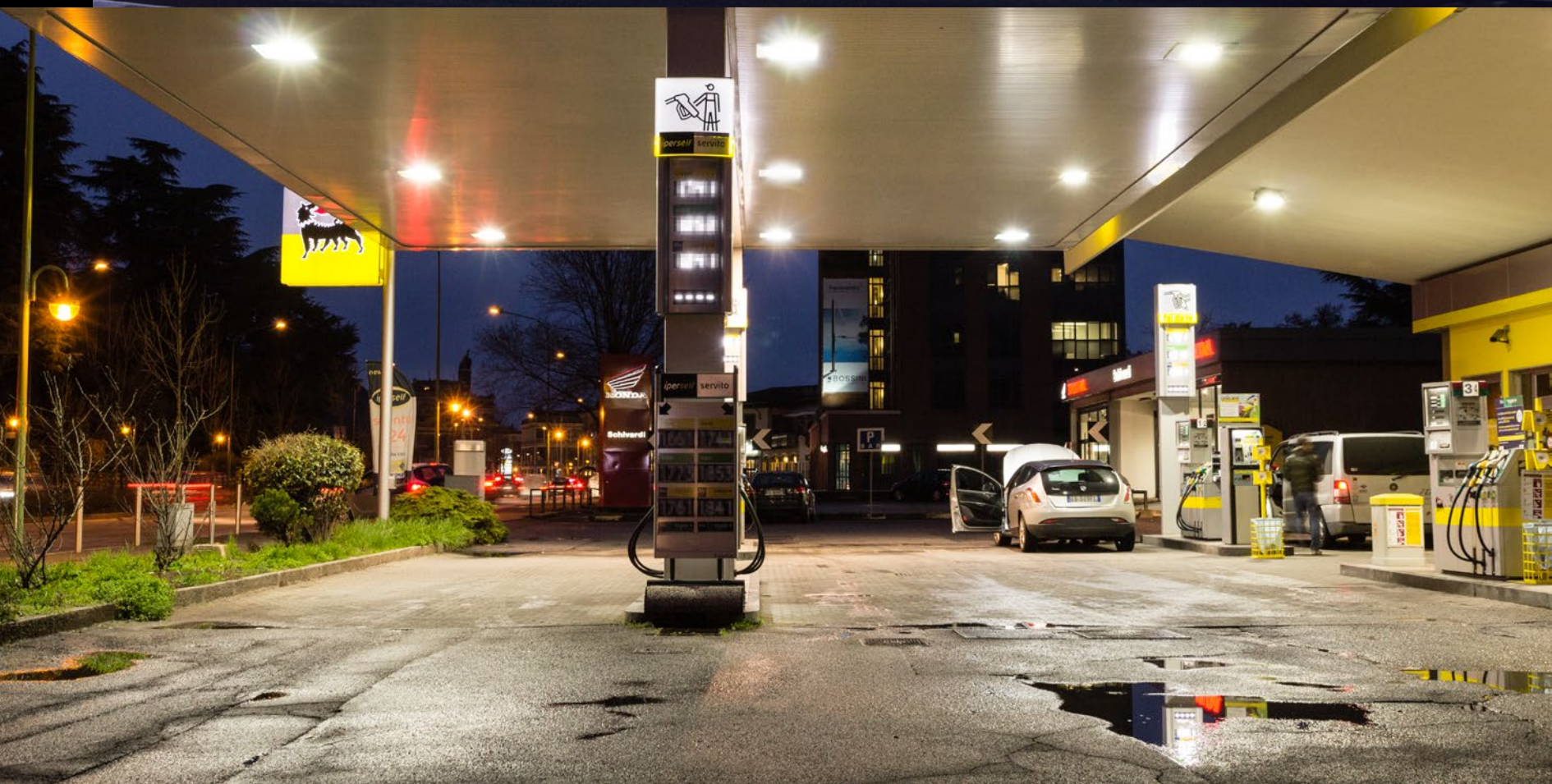
iperself
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rossini

CANOPY LIGHTING

ATLAS TRL

- Best price/performance ratio.
- Customizable external frame according to the existing canopy.
- Photobiological safety risk exempt certified.
- Surface mounting kit available.
- Optional control systems:
  - 1-10V
  - DALI
  - Motion sensor.

Atlas TRL is a very cost effective solution for canopy lighting, suitable for both gas and toll stations thanks to the optics.

ENERGY CLASS A++

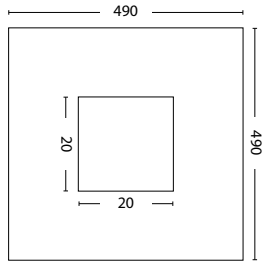
CE

RoHS COMPLIANT

DIMENSIONS

[mm]

External frame customized on request.



TECHNICAL DATA

LED type	Detas by Lumileds
Step MacAdam	4
LED driver	Osram / Philips / Tridonic
Input voltage	230 VAC
Efficiency min. - max.	127 - 146 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	Aluminum
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP65 (optics IP67)
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	1.5 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
12D350	13	1989	2314
12D530	20	2991	3560
12D700	26	3715	4628
12D1000	39	5161	
24D350	25	4134	4450
24D440	32	5165	5696
24D530	39	6127	6942
24D600	45	6902	8010
24D700	53	7857	9434
24D1000	77	10625	
36D350	38	5762	6764
36D440	48	7081	8544
36D530	59	8477	10502
36D600	67	9424	11926
36D650	74	10409	13172

OPTICS

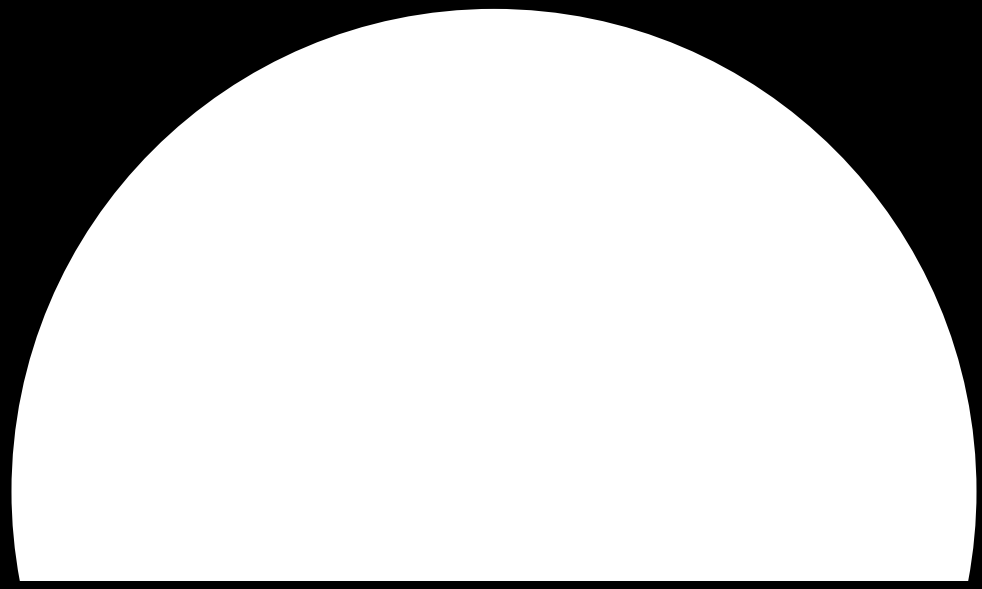
207S	201A
209S	210A
211S	218A
212S	

** With optics 212S - 4000 K ** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

Vers. 73 / 10-2019 - COLDEN1973

DETAS DLEDS

ATLAS TRL



STEEL line

TUNNELS

RADIANT 8

- **Body and brackets in SS316L**
- Tempered glass protecting LEDs and optics.
- Sistem efficiency >110 lm/W.
- Selection of proprietary optics based on type of working area and mounting height.
- Low glare.
- Optional control systems:
  - 1-10V
  - DALI
  - Power-line communication

Radiant 8 family is our offer dedicated to harsh environments such as tunnels, mines, heavy industries, etc.. The body is entirely made in AISI 316L stainless steel and includes a customizable bracket for multi-purpose solutions.

Thanks to the material it can be used where the risk of high corrosion is huge and it is necessary to guarantee long life and reliability. A special system is adopted to avoid glavanic corrosion between the Radiant 8 and other materials.

ENERGY CLASS A++

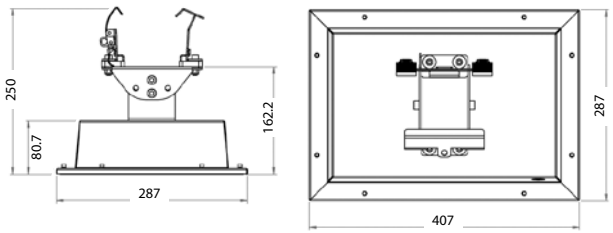
CE

RoHS COMPLIANT

SS316L

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Custom
Step MacAdam	4
LED driver	Osram / Philips
Input voltage	230 VAC
Efficiency min. - max.	113 - 124 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**AISI 316L stainless steel**
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	6 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
8M300	29	3605	5220
8M350	34	4120	6120
8M400	39	4649	7020
8M450	44	5171	7920
8M500	49	5600	8820
8M550	54	6077	9720

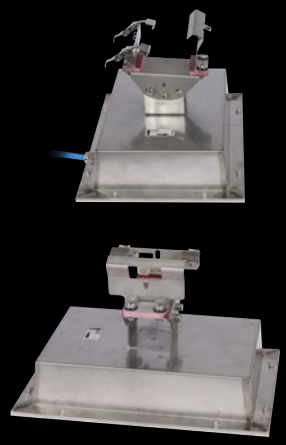
** With optics 43A - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

28S
29A
43A
43S
73A

Other optics available.

Vers. 73 / 10-2019 - COLDEN1973



STEEL line

DETAS DLEDS

RADIANT 8

RADIANT 8L

- **Body and brackets in SS316L**
- Tempered glass protecting LEDs and optics.
- Sistem efficiency >110 lm/W.
- Selection of proprietary optics based on type of working area and mounting height.
- Low glare.
- Optional control systems:
  - 1-10V
  - DALI

Radiant 8 family is our offer dedicated to harsh environments such as tunnels, mines, heavy industries, etc.. The body is entirely made in AISI 316L stainless steel and includes a customizable bracket for multi-purpose solutions.

Thanks to the material it can be used where the risk of high corrosion is huge and it is necessary to guarantee long life and reliability. A special system is adopted to avoid glavanic corrosion between the Radiant 8 and other materials.

ENERGY CLASS A++

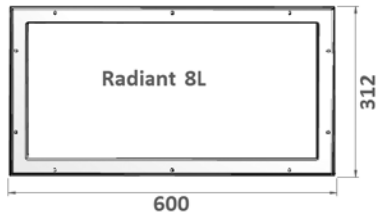
CE

RoHS COMPLIANT

SS316L

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Custom
Step MacAdam	4
LED driver	Osram / Philips
Input voltage	230 VAC
Efficiency min. - max.	113 - 119 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**AISI 316L stainless steel**
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I o II
Operating temperature	-25° ÷ +50°C
Weight	12 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
12M500	73	8722	13140
12M550	81	9488	14580
12M600	88	10135	15840
12M660	97	10959	17460

** With optics 43A - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

28S
29A
43A
43S
73A

Other optics available.

Vers. 7.3 / 10-2019 - CDLDEN1973

STEEL line

DETAS DLEDS

RADIANT 8L

RADIANT 8XL

- **Body and brackets in SS316L**
- Tempered glass protecting LEDs and optics.
- Sistem efficiency >110 lm/W.
- Selection of proprietary optics based on type of working area and mounting height.
- Low glare.
- Optional control systems:
  - 1-10V
  - DALI

Radiant 8 family is our offer dedicated to harsh environments such as tunnels, mines, heavy industries, etc.. The body is entirely made in AISI 316L stainless steel and includes a customizable bracket for multi-purpose solutions.

Thanks to the material it can be used where the risk of high corrosion is huge and it is necessary to guarantee long life and reliability. A special system is adopted to avoid glavanic corrosion between the Radiant 8 and other materials.

ENERGY CLASS A++

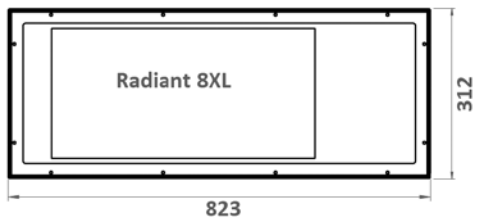
CE

RoHS COMPLIANT

SS316L

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Custom
Step MacAdam	4
LED driver	Osram / Philips
Input voltage	230 VAC
Efficiency min. - max.	116 - 120 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**AISI 316L stainless steel**
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	14 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
24M450	132	15805	23760
24M500	147	17168	26460
24M550	161	18644	28980

** With optics 43A - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

28S
29A
43A
43S
73A

Other optics available.

Vers. 73 / 10-2019 - CDLDEN1973

STEEL line

DETAS DLEDS

RADIANT 8XL

RADIANT 2A

- Proprietary optics patented and developed over years of experience in the Italian galleries.
- Available light masts optics for very high mounting height.
- Power supply unit separated from the LED array for an higher reliability.
- Extensive use of anti-corrosion materials and toughness.
- Tempered glass protecting LEDs and optics.
- Optional control systems:
  - 1-10V / DALI
  - Remote wireless control
  - Power-line communication
  - Luminance sensor.

Radiant 2A is our solution for highbays and tunnel entrances illumination.

In case of a tunnel application, this luminaire can solve the "black hole" effect thanks to the high lumen emission and to the several available optics.

For highbays application it can be used in harsh environments and at big height thanks to IP65 protection and to the special dedicated optics.

ENERGY CLASS A++

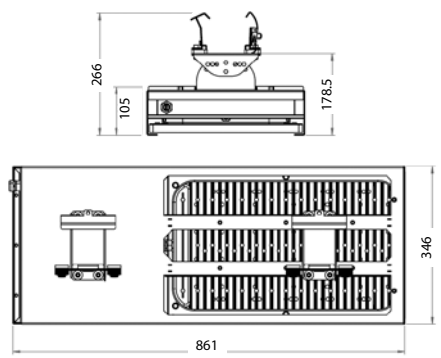
CE

RoHS COMPLIANT

SS304

DIMENSIONS

[mm]



TECHNICAL DATA

LED type	Philips / Custom
Step MacAdam	5
LED driver	Philips
Input voltage	230 VAC
Efficiency min. - max.	108 - 131 lm/W
L80 B10 F10**	100'000 hrs
PF	>0,95
Housing	**AISI 304 stainless steel**
Glass	Tempered 4 mm
Colour temperature	3000 K - 4000 K - 5700 K
Colour rendering index	CRI >70
Degree of protection	IP66
Electrical insulation [Class]	I or II
Operating temperature	-25° ÷ +50°C
Weight	16 kg

MODELS

	Total power [W]	Overall flux* [lm]	Optical flux [lm]
128C350	136	17812	19720
128C530	210	25636	30450
128C600	238	28914	34510
128C700	282	32678	40890
128C750	304	34498	44080
128C830	341	37366	49445
128C900	370	39784	53650

** With optics 218A - 4000 K*
*** Failure rate F10 including driver. The average lifespan expressed in hours may undergo variations based on the selected set (drive current).*

OPTICS

207S	201A
209S	210A
211S	218A
212S	

Other optics available.

Vers. 7.3 / 10-2019 - CDLDEN1973

STEEL line

DETAS DLEDS

RADIANT 2A

APL LED PEDESTRIAN CROSSING EXPERT

Born from the union of our D-Power and DLEDS divisions, the APL system is designed to achieve the complete safety of pedestrian crossings.

CONCEPTS:

Signaling: *using flashers and backlit signs for a quick and clear identification of the crossing.*

The **LED Box** modules use flashers certified according to **EN 12352**.

The **LED backlit** signs are double sided, featuring an high luminosity and uniformity. Certified according to **EN 12899**.

Lighting: *using luminaires with dedicated optics (46A2 DX/SX) to achieve unbeatable performances on*:

- **Horizontal plane,** highlighting the zebra crossing and the waiting area with extremely high illuminance values.
- **Vertical plane,** aiming to illuminate the pedestrian vertical body.

Talos G

Talos N

Trilogy N

WITHOUT APL

WITH APL

livin' in a new light

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