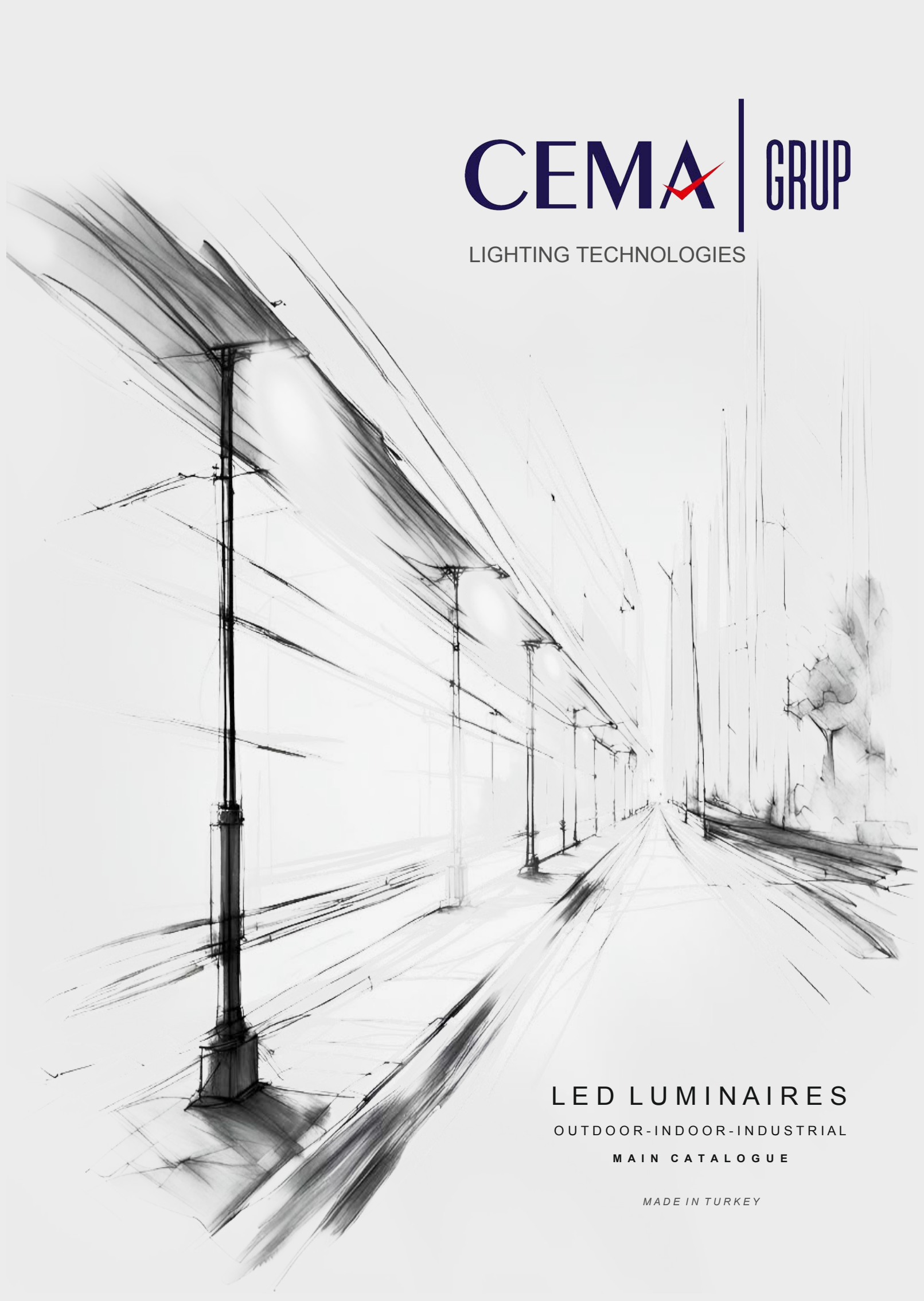




CEMA | GRUP

LIGHTING TECHNOLOGIES

LED LUMINAIRES

OUTDOOR-INDOOR-INDUSTRIAL

MAIN CATALOGUE

MADE IN TURKEY



LED LUMINAIRES
OUTDOOR-INDOOR-INDUSTRIAL
MAIN CATALOGUE



İÇİNDEKİLER

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Cema Grup Led Armatürler Seramik Hibrit PCB Teknolojisi, Isıl tasarım, Elektronik Devre Tasarımı ve Optik özellikleriyle diğer armatürlerden ayrılmaktadır. Cema Grup, genelde askeri elektronik, havacılık ve ileri teknoloji gerektiren alanlarda kullanılan seramik hibrit teknolojisini led armatürlerdeki devre kartlarında (PCB) kullanmaktadır. Seramik hibrit devre kartları (PCB) diğer led armatürlerde kullanılan polimer bazlı (plastik) ve alüminyum baskı devre kartlarına göre üstün özelliklere sahiptir. Seramik Hibrit devre kartları çok yüksek ve çok düşük sıcaklıklarda çalışabilirler, elektriksel olarak yalıtkan fakat termal olarak mükemmel iletkenlerdir. Led armatürlerdeki en büyük çalışma sorunu olan ısınma Cema Grup Led Armatürlerde Seramik Hibrit PCB teknolojisi sayesinde çözüme kavuşmuştur.

Cema Grup Led Armatürler Isıl çalışma sorununu Seramik Hibrit PCB teknolojisiyle kolaşlaştırdığı için elektriksel devre verimliliği %97 oranındadır. Bu oran diğer Led armatürlerde daha düşük olduğu için Cema Grup Led armatürler diğer led lambalara üstünlük sağlamaktadır. Led armatür teknolojisinde ısı tasarım önemli bir unsurdur.

Cema Grup Led Armatürlerin ısı tasarım ve yekpare gövdesi sayesinde çalışma sıcaklıkları düşüktür. Bu nedenle Cema Grup led Armatürleri düşük sıcaklıklarda çalıştığı için Optik verimde herhangi bir azalma meydana gelmez ve almış olduğu enerjinin tümünü sıcaklığa veya diğer kayıplara değil ışık olarak vermektedir. Uluslararası Bağımsız Test kuruluşlarında yapılan testler sonucunda Cema Grup Led Avrupa Normlarına uygun Led lambalar üretmektedir ve bu da Cema Grup Led Armatürleri diğer led armatürlerden ayıran en önemli husustur.

Cema Grup Led Armatürler diğer ışık kaynaklarıyla karşılaştırıldığında düşük enerji tüketimleri ve uzun ömürleri sayesinde büyük tasarruf sağlamaktadır. Yapılan testler ve araştırmalar sonuçlarında Cema Grup Led Armatürler %80 ve üzeri tasarruf sağlamaktadır. Cema Grup Led armatürler diğer armatürlerle karşılaştırılması üç ana başlık altında toplanabilir. Bunlar, elektriksel tasarruf, ampul değişimleri ve bakım masraflarıdır.

Cema Group Led Luminaires Ceramic Hybrid PCB Technology, Thermal design, Electronic Circuit Design and Optical features distinguish it from other luminaires. Cema Group uses ceramic hybrid technology, which is generally used in military electronics, aviation and advanced technology areas, in circuit boards (PCB) in led luminaires. Ceramic hybrid circuit boards (PCB) have superior features compared to polymer-based (plastic) and aluminum printed circuit boards used in other led luminaires. Ceramic Hybrid circuit boards can operate at very high and very low temperatures, are electrically insulating but thermally excellent conductors. The biggest operating problem in led luminaires, heating, has been solved in Cema Group Led Luminaires thanks to Ceramic Hybrid PCB technology.

Cema Group Led Luminaires Since it simplifies the thermal operating problem with Ceramic Hybrid PCB technology, the electrical circuit efficiency is 97%. Since this rate is lower in other led luminaires, Cema Group Led luminaires are superior to other led lamps. Thermal design is an important element in led luminaire technology.

Cema Group Led Luminaires have low operating temperatures thanks to their thermal design and solid body. Therefore, since Cema Group Led Luminaires operate at low temperatures, there is no decrease in optical efficiency and they give all the energy they receive as light, not as heat or other losses. As a result of tests conducted by International Independent Testing Organizations, Cema Group Led produces Led lamps in accordance with European Norms, and this is the most important factor that distinguishes Cema Group Led Luminaires from other Led Luminaires.

Cema Group Led Luminaires provide great savings thanks to their low energy consumption and long life when compared to other light sources. According to the results of tests and researches, Cema Group Led Luminaires provide savings of 80% and above. Comparison of Cema Group Led luminaires with other luminaires can be grouped under three main headings. These are electrical savings, bulb replacements and maintenance costs.



www.cemagrup.com.tr



Ledli armatürler elektriksel verim, optik verim ve uzun ¼mürleri sayesinde diðer armatürlere g¼re (Sodyum buharlı Metal halide vs.) daha dÁ Ák enerji ile uzun ¼mürÁ alı maktadırlar. Diðer armatürlerin balast ve lamba kayıpları optik iletkenlik kayıplarına ve kısa ¼mürleri enerji tüketimini arttırmaktadır. Buna karlı ðek Cema Grup Led Armatürler, %97 elektriksel verim, %92 optik verim ile alı arak kayıpları ok dÁ Áktır. Diðer armatürlerin (Sodyum Buharlı Metal Halide vs.) ampul ¼mürleri 6.000-12.000 saat arasında deðil mektedir ve ampul deðilimleri hepsi aynı anda olmayacağı için ampul deðilim maliyetleri artmaktadır. Cema Grup Led armatürlerin kullanı ¼mürleri 50.000 saatten daha fazla olduðu ĩn bir Cema Grup Led armatür kullanı dđşÁrede diðer armatürlerin 6-7 defa lamba deðilim ikliði gerekmektedir.

Bakı masrafları ında deðerlendirildiğinde Cema Grup Led Armatürleri kullanı sÁresi boyunca herhangi bir bakı gerektirmemektedir. Diðer armatürler kullanı sÁreleri boyunca g¼rde tasarımları balast deðilimleri yÁzÁnden periyodik bakı istemektedir ve buda kullanı maliyetlerini arttırmaktadır.



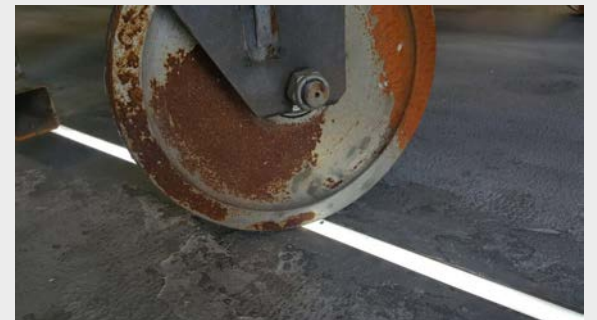
LED luminaires operate with lower energy and longer life compared to other luminaires (Sodium vapor, Metal halide, etc.) thanks to their electrical efficiency, optical efficiency and long life. The ballast and lamp losses, optical conductivity losses and short life of other luminaires increase energy consumption. In contrast, Cema Group LED Luminaires operate with 97% electrical efficiency and 92% optical efficiency, and their losses are very low. The bulb life of other luminaires (Sodium vapor, Metal halide, etc.) varies between 6,000-12,000 hours and since all bulbs will not be replaced at the same time, bulb replacement costs increase. Since the service life of Cema Group LED luminaires is more than 50,000 hours, a Cema Group LED luminaire requires lamp changes 6-7 times during its usage period.

When evaluated in terms of maintenance costs, Cema Group LED Luminaires do not require any maintenance during their usage period. Other luminaires require periodic maintenance due to their body designs and ballast changes throughout their lifespan, which increases their operating costs.



Referanslarımızdan bazıları / References

AREN GRUP
ASPİLSAN ENERJİ
BORUSAN
BORUSAN HOLDİNG
BOZANKAYA
ÇANKAYA BELEDİYESİ
ÇEPAŞ
EGEYAPI
EGO GENEL MÜDÜRLÜĞÜ
ENKA
ERKUNT TRAKTÖR
ESSO
IRAK PLASTİK
İNÖNÜ BELEDİYESİ
JANDARMA
KARADENİZ TEKNİK ÜNİVERSİTESİ
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SEL DEMİR ÇELİK
SEL SEALANTS
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T.C. CUMHUR BAŞKANLIĞI SAVUNMA SANAYİ BAŞKANLIĞI
TERRA
TOFAŞ
TÜKEK HOLDİNG
TÜRKİYE CUMHURİYETİ MİLLİ EĞİTİM BAKANLIĞI ULUSOY
ELECTRIC
ETİ BAKIR
YENİMAHALLE BELEDİYESİ
YOLBAK





Led Floodlight Luminaires



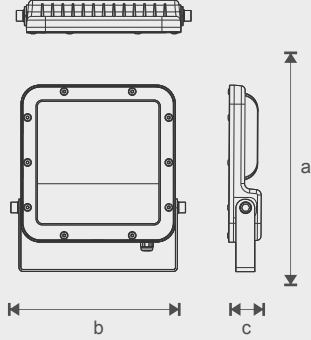
40W - 640W

Functionality and design integrity

Excellent light quality
Effective cooling,



Antares series



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 274 x 235 x 48mm		
Pack dimensions	: 280 x 240 x 50mm		
Weight	: 2,8kg		

Technical Features / Teknik Özellikler

Lamp Type	: Mid Power LED
Warranty	: 5 Years
Housing	: Aluminium
Glass	: 5mm Tempered
Paint	: Electrostatic powder coating
IP	: 66
Kelvin	: 2700K - 3000K - 4000K - 6000K
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Connectors	: Stainless
Environment	: Outdoor



Lens angles / Lens açıları



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMP-40W72MP	40 Watt	72	%86	5230 lm
CMP-50W72MP	50 Watt	72	%86	6250 lm
CMP-60W72MP	60 Watt	72	%87	7260 lm
CMP-80W96MP	80 Watt	96	%88	9800 lm

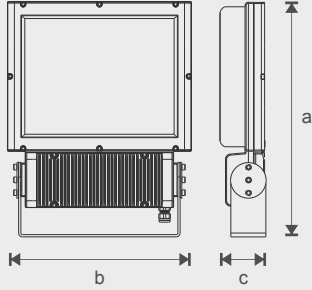
Technical Options / Teknik Seçenekler

Dimmer
Dalı

Colours / Renkler

RAL 7016

Altair series



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 422 x 330 x 80mm		
Pack dimensions	: 430 x 350 x 100mm		
Weight	: 9 kg		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED	
Warranty	: 5 Years	
Housing	: Aluminium	
Glass	: 5mm Tempered	
Paint	: Electrostatic powder coating	
IP	: 66	
Kelvin	: 2700K - 3000K - 4000K - 6000K	■ ■ ■ ■
CRI	: >80	
LED Lifetime	: 50.000 h	
Power Supply	: 220-240 AC 50-60 Hz.	
Connectors	: Stainless	
Environment	: Outdoor	



Lens angles / Lens açıları



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMP-100W144MP	100 Watt	144	%92	11760 lm
CMP-150W256MP	150 Watt	256	%94	17640 lm
CMP-200W256MP	200 Watt	256	%94	26000 lm

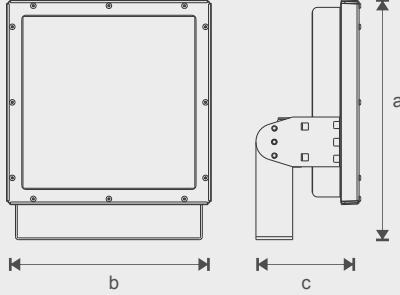
Technical Options / Teknik Seçenekler

Dimmer
Dalı

Colours / Renkler

RAL 7016 RAL 7016

Orion series



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 404 x 345 x 150mm		
Pack dimensions	: 410 x 350 x 160mm		
Weight	: 9 kg		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Aluminium
Glass	: 5mm Tempered
Paint	: Electrostatic powder coating
IP	: 66
Kelvin	: 2700K - 3000K - 4000K - 6000K
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Connectors	: Stainless
Environment	: Outdoor

Lens angles / Lens açıları



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMP-150W256MP	150 Watt	256	%92	17920 lm
CMP-200W256MP	200 Watt	256	%94	24900 lm
CMP-250W400MP	250 Watt	400	%94	28000 lm
CMP-300W400MP	300 Watt	400	%96	32000 lm
CMP-320W400MP	320 Watt	400	%96	32000 lm

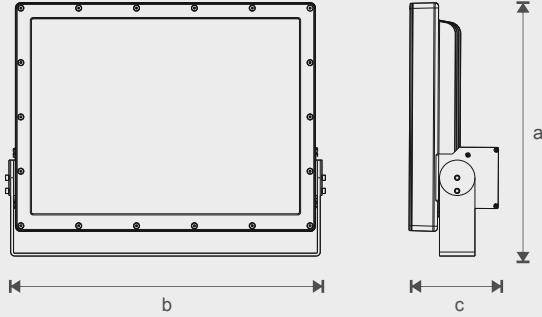
Technical Options / Teknik Seçenekler

Dimmer
Dali

Colours / Renkler

RAL 7016

Orion Pro series



Dimensions / Ölçüler

	a	b	c
Body dimensions	443 x 525 x 155mm		
Pack dimensions	450 x 530 x 160mm		
Weight	20,2 kg		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Aluminium
Glass	: 5mm Tempered
Paint	: Electrostatic powder coating
IP	: 66
Kelvin	: 2700K - 3000K - 4000K - 6000K
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Connectors	: Stainless
Environment	: Outdoor



Lens angles / Lens açıları



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMP-400W288HP	400 Watt	288	%92	52000 lm
CMP-500W288HP	500 Watt	288	%94	65000 lm
CMP-640W288HP	640 Watt	288	%96	84000 lm
CMP-400W768MP	400 Watt	768	%92	52000 lm
CMP-500W768MP	500 Watt	768	%94	65000 lm
CMP-640W768MP	640 Watt	768	%96	84000 lm

Technical Options / Teknik Seçenekler

Dimmer
Dali

Colours / Renkler

RAL 7016



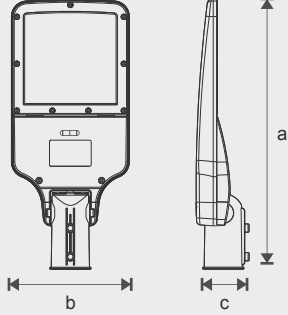
LED Streetlight Luminaires

Functionality and design integrity

Excellent light quality
Effective cooling,

LUX

Aries series



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 517 x 225 x 92mm		
Pack dimensions	: 520 x 230 x 93mm		
Weight	: 4,2kg		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Aluminium
Glass	: 5mm Tempered
Paint	: Electrostatic powder coating
IP	: 66
Kelvin	: 2700K - 3000K - 4000K - 6000K
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Connectors	: Stainless
Environment	: Outdoor

Lens angles / Lens açıları

Asymmetric



Spirit Level /
Su terazisi



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMS-40W72MP	40 Watt	72	%87	5300 lm
CMS-50W72MP	50 Watt	72	%88	6700 lm
CMS-60W72MP	60 Watt	72	%89	7800 lm
CMS-80W96MP	80 Watt	96	%90	10400 lm
CMS-100W96MP	100 Watt	96	%90	13000 lm

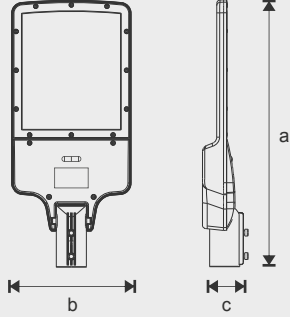
Technical Options / Teknik Seçenekler

Dimmer
Dali
Nema 7 socket

Colours / Renkler

RAL 7016

Andromeda series



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 630 x 280x 77mm		
Pack dimensions	: 640 x 290 x 80mm		
Weight	: 6,7kg(without cooler wings)		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Aluminium
Glass	: 5mm Tempered
Paint	: Electrostatic powder coating
IP	: 66
Kelvin	: 2700K - 3000K - 4000K - 6000K
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Connectors	: Stainless
Environment	: Outdoor

Lens angles / Lens açıları

Asymmetric



Spirit Level /
Su terazisi



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMS-100W144MP	100 Watt	144	%94	15939 lm
CMS-120W144MP	120 Watt	144	%96	19126 lm

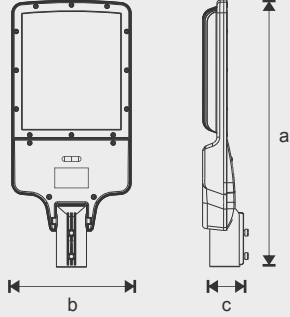
Technical Options / Teknik Seçenekler

Dimmer
Dali
Nema 7 socket

Colours / Renkler

RAL 7016

Andromeda series



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 630 x 280x 77mm		
Pack dimensions	: 640 x 290 x 80mm		
Weight	: 8,5kg(wth cooler wngs)		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Aluminium
Glass	: 5mm Tempered
Paint	: Electrostatic powder coating
IP	: 66
Kelvin	: 2700K - 3000K - 4000K - 6000K
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Connectors	: Stainless
Environment	: Outdoor

Lens angles / Lens açıları

Asymmetric



Spirit Level /
Su terazisi



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMS-150W240MP	150 Watt	240	%96	23909 lm
CMS-200W240MP	200 Watt	240	%92	29112 lm
CMS-250W240MP	250 Watt	240	%92	34266 lm

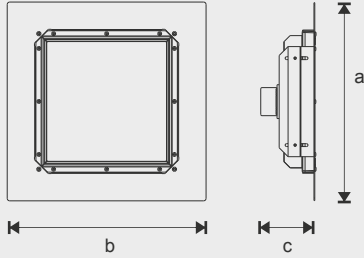
Technical Options / Teknik Seçenekler

Dimmer
Dali
Nema 7 socket

Colours / Renkler

RAL 7016

Led Canopy Luminaires



Dimensions / Ölçüler

	a	b	c
Body dimensions	480 x 480 x 145mm		
Pack dimensions	490 x 490 x 150mm		
Weight	8,5kg		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Aluminium
Glass	: 5mm Tempered
Paint	: Electrostatic powder coating
IP	: 65
Kelvin	: 3000-4000-6000
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Connectors	: Stainless
Environment	: Outdoor



Technical Options / Teknik Seçenekler

Emergency Kit
Dimmer
Dal

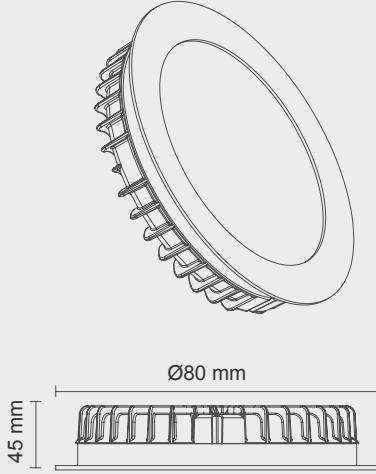
Colours / Renkler

☐ RAL 9016 M

Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMT-100W144MP	100 Watt	144	%94	15939 lm

Vela series

1 "



Dimensions / Ölçüler

Body dimensions	: 80Ø x 45mm
Pack dimensions	: 450mm x 340mm x 320mm
Box quantity	: 36 pcs
Weight	: 0,155 gr
Recess depth	: 45mm

Class II



Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Aluminium Injection
Diffuser	: PMMA
Paint	: Static powder coating
IP	: 44 / 65
Kelvin	: 3000-4000-5000-6000
Beam angle	: 100
CRI	: >85
LED Lifetime	: 50.000h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted
Bathroom zone	: Zone 1 - 2



Dimmable
Dim Edilebilme

Phase Cut/ 1-10 V/
DALI

Emergency Battery
Ac.I Aydınlatma K.ti

Options / Seçenekler

1 hour

3 hours

Model Model	Power (W) Güç (W)	Efficiency Verim	Light Output Işık Şiddeti
			3000K 4000K 5000K 6000K
CMT-1N6WMP	6 Watt	%84	540lm - 570lm - 600lm - 630lm

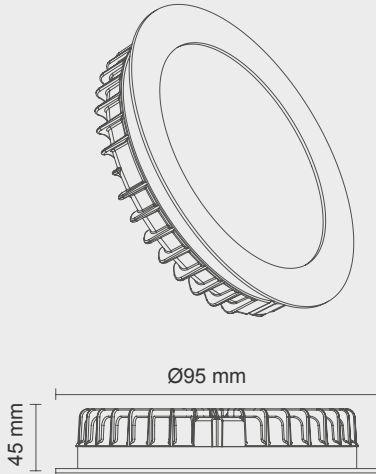
Colours / Renkler

White Ral 9016

Black Ral 9005

Vela series

2 "



Dimensions / Ölçüler

Body dimensions	: 95Ø x 45mm
Pack dimensions	: 450mm x 340mm x 320mm
Weight	: 0,170 gr
Box quantity	: 36 pcs
Recess depth	: 45mm

Class II



Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Aluminium Injection
Diffuser	: PMMA
Paint	: Static powder coating
IP	: 44 / 65
Kelvin	: 3000-4000-5000-6000
Beam angle	: 100
CRI	: >85
LED Lifetime	: 50.000h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted
Bathroom zone	: Zone 1 - 2



Dimmable
Dim Edilebilir

Phase Cut/ 1-10 V/
DALI

Emergency Battery
Ac.I Aydınlatma K.ti

Options / Seçenekler

1 hour

3 hours

Model Model	Power (W) Güç (W)	Efficiency Verim	Light Output Işık Şiddeti
			3000K 4000K 5000K 6000K
CMT-2N6WMP	6 Watt	%84	540lm - 570lm - 600lm - 630lm

Colours / Renkler

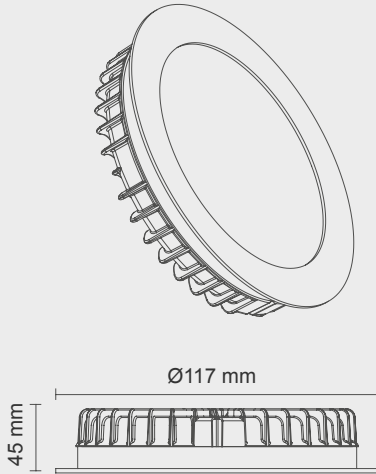
White Ral 9016

Black Ral 9005



Vela series

3 "



Dimensions / Ölçüler

Body dimensions	: 117Ø x 45mm
Pack dimensions	: 520mm x 395mm x 305mm
Weight	: 0,260 gr
Box quantity	: 36 pcs
Recess depth	: 45mm

Class II



Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Aluminium Injection
Diffuser	: PMMA
Paint	: Static powder coating
IP	: 44 / 65
Kelvin	: 3000-4000-5000-6000
Beam angle	: 114
CRI	: >85
LED Lifetime	: 50.000h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted
Bathroom zone	: Zone 1 - 2



Dimmable
Dim Edilebilir

Phase Cut/ 1-10 V/
DALI

Emergency Battery
Ac.I Aydınlatma K.ti

Options / Seçenekler

1 hour

3 hours

Model Model	Power (W) Güç (W)	Efficiency Verim	Light Output Işık Şiddeti
CMT-3N8WMP	8 Watt	%84	3000K 4000K 5000K 6000K 720lm - 760lm - 800lm - 840lm

Colours / Renkler

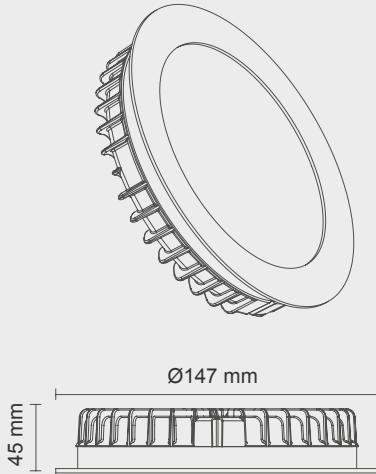
White Ral 9016

Black Ral 9005



Vela series

4 "



Dimensions / Ölçüler

Body dimensions	: 147Ø x 45mm
Pack dimensions	: 485mm x 485mm x 320mm
Weight	: 0,350 gr
Box quantity	: 27 pcs
Recess depth	: 45mm

Class II



Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Aluminium Injection
Diffuser	: PMMA
Paint	: Static powder coating
IP	: 44 / 65
Kelvin	: 3000-4000-5000-6000
Beam angle	: 105
CRI	: >85
LED Lifetime	: 50.000h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted
Bathroom zone	: Zone 1 - 2



Dimmable
Dim Edilebilir

Phase Cut/ 1-10 V/
DALI

Emergency Battery
Acil Aydınlatma Kiti

Options / Seçenekler

1 hour

3 hours

Model Model	Power (W) Güç (W)	Efficiency Verim	Light Output Işık Şiddeti
			3000K 4000K 5000K 6000K
CMT-4N10WMP	10 Watt	%84	1000lm - 1050lm - 1100lm - 1150lm

Colours / Renkler

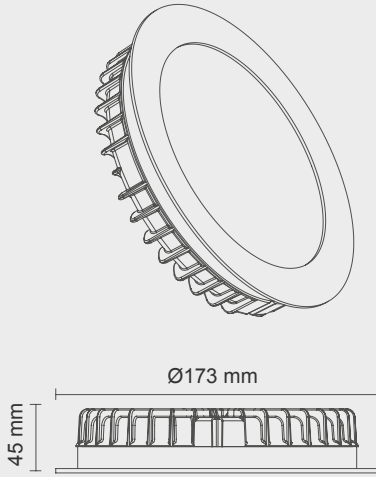
White Ral 9016

Black Ral 9005



Vela series

5 "



Dimensions / Ölçüler

Body dimensions : 173Ø x 45mm
Pack dimensions : 385mm x 385mm x 420mm
Weight : 0,605 gr
Box quantity : 16 pcs
Recess depth : 45mm

Class II



Technical Features / Teknik Özellikler

Lamp Type : SMD LED
Warranty : 5 Years
Housing : Aluminium Injection
Diffuser : PMMA
Paint : Static powder coating
IP : 44 / 65
Kelvin : 3000-4000-5000-6000
Beam angle : 108
CRI : >85
LED Lifetime : 50.000h
Power Supply : 220-240 AC 50-60 Hz.
Environment : Indoor
Installation : Surface, Pendanted
Bathroom zone : Zone 1 - 2



Dimmable
Dim Edilebilir

Phase Cut/ 1-10 V/
DALI

Emergency Battery
Acil Aydınlatma Kiti

Options / Seçenekler

1 hour

3 hours

Model Model	Power (W) Güç (W)	Efficiency Verim	Light Output Işık Şiddeti
			3000K 4000K 5000K 6000K
CMT-5N16WMP	16 Watt	%85	1760lm - 1840lm - 1920lm - 2000lm

Colours / Renkler

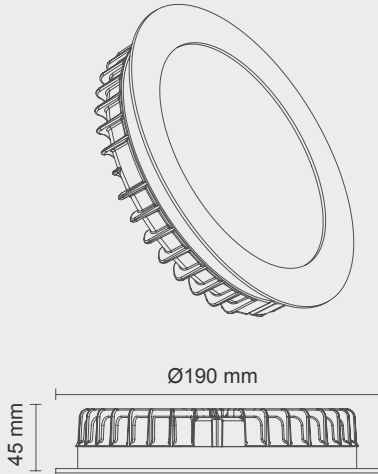
White Ral 9016

Black Ral 9005



Vela series

6 "



Dimensions / Ölçüler

Body dimensions	: 190Ø x 45mm
Pack dimensions	: 420mm x 420mm x 335mm
Weight	: 0,845 gr
Box quantity	: 12 pcs
Recess depth	: 45mm

Class II



Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Aluminium Injection
Diffuser	: PMMA
Paint	: Static powder coating
IP	: 44 / 65
Kelvin	: 3000-4000-5000-6000
Beam angle	: 108
CRI	: >85
LED Lifetime	: 50.000h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted
Bathroom zone	: Zone 1 - 2



Dimmable
Dim Edilebilme

Phase Cut/ 1-10 V/
DALI

Emergency Battery
Acil Aydınlatma Kiti

Options / Seçenekler

1 hour

3 hours

Model Model	Power (W) Güç (W)	Efficiency Verim	Light Output Işık Şiddeti
			3000K 4000K 5000K 6000K
CMT-6N21WMP	21 Watt	%85	2310lm - 2415lm - 2520lm - 2625lm

Colours / Renkler

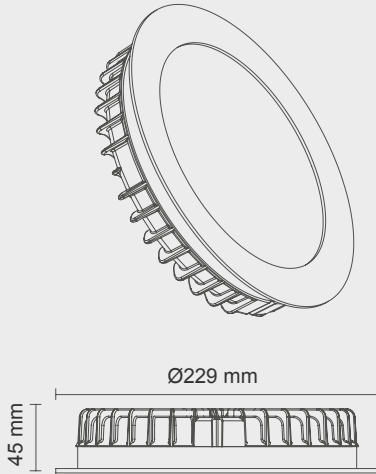
White Ral 9016

Black Ral 9005



Vela series

8 "



Dimensions / Ölçüler

Body dimensions	: 229Ø x 45mm
Pack dimensions	: 535mm x 535mm x 275mm
Weight	: 0,875 gr
Box quantity	: 12 pcs
Recess depth	: 45mm

Class II



Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Aluminium Injection
Diffuser	: PMMA
Paint	: Static powder coating
IP	: 44 / 65
Kelvin	: 3000-4000-5000-6000
Beam angle	: 107
CRI	: >85
LED Lifetime	: 50.000h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted
Bathroom zone	: Zone 1 - 2



Dimmable
Dim Edilebilir

Phase Cut/ 1-10 V/
DALI

Emergency Battery
Acil Aydınlatma Kiti

Options / Seçenekler

1 hour

3 hours

Model Model	Power (W) Güç (W)	Efficiency Verim	Light Output Işık Şiddeti
			3000K 4000K 5000K 6000K
CMT-8N23WMP	23 Watt	%85	2585lm - 2703lm - 2820lm - 2938lm

Colours / Renkler

White Ral 9016

Black Ral 9005

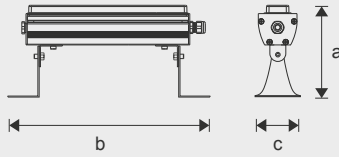


Led Wallwasher
IP67 RGB

*Bright and **Colorful** Cities...*



Volans series



Dimensions / Ölçüler

	a	b	c
Body dimensions	120 x 250 x 60mm		
Pack dimensions	76ø x 400mm		
Weight	0,7kg		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Extruded Aluminium
Glass	: PC
Paint	: Anodized
IP	: 67
Kelvin	: 3000-4000-6000-R-G-B
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Outdoor
Installation	: Wall, Ground



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CWL-10W9HP	10 Watt	9	%84	950 lm

Light Colours / Işık renkleri

- 3000K ↔ 6000K
- Red / Kırmızı
- Blue / Mavi
- Green / Yeşil
- Fulvous / Amber

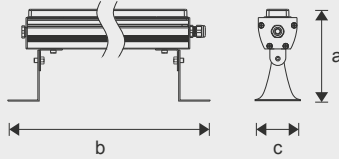
Lens angles / Lens açıları

- 12
- 90
- Asymmetric

Colours / Renkler



Volans series



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 120 x 500 x 60mm		
Pack dimensions	: 76øx 650mm		
Weight	: 1,1kg		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Extruded Aluminium
Glass	: PC
Paint	: Anodized
IP	: 67
Kelvin	: 3000-4000-6000-R-G-B
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Outdoor
Installation	: Wall, Ground



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CWL-20W18HP	20 Watt	18	%85	1900 lm

Light Colours / Işık renkleri

3000K ↔ 6000K
Red / Kırmızı
Blue / Mavi
Green / Yeşil
Fulvous / Amber

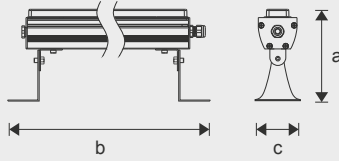
Lens angles / Lens açıları

12	90	Asymmetric
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Colours / Renkler



Volans series



Dimensions / Ölçüler

	a	b	c
Body dimensions	120 x 750 x 60mm		
Pack dimensions	76ø x 900mm		
Weight	1,5kg		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Extruded Aluminium
Glass	: PC
Paint	: Anodized
IP	: 67
Kelvin	: 3000-4000-6000-R-G-B
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Outdoor
Installation	: Wall, Ground



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CWL-30W27HP	30 Watt	27	%85	2850 lm

Light Colours / Işık renkleri

3000K ↔ 6000K
Red / Kırmızı
Blue / Mavi
Green / Yeşil
Fulvous / Amber

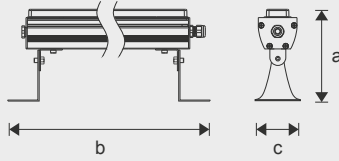
Lens angles / Lens açıları

12	90	Asymmetric
----	----	------------

Colours / Renkler



Volans series



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 120 x 1000 x 60mm		
Pack dimensions	: 76Øx 1150mm		
Weight	: 2kg		

Technical Features / Teknik Özellikler

Lamp Type	: Power LED
Warranty	: 5 Years
Housing	: Extruded Aluminium
Glass	: PC
Paint	: Anodized
IP	: 67
Kelvin	: 3000-4000-6000-R-G-B
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Outdoor
Installation	: Wall, Ground



Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CWL-40W36HP	40 Watt	36	%86	3800 lm

Light Colours / Işık renkleri

3000K ↔ 6000K
Red / Kırmızı
Blue / Mavi
Green / Yeşil
Fulvous / Amber

Lens angles / Lens açıları

12	90	Asymmetric
----	----	------------

Colours / Renkler



LED Highbay Luminaires



IP65

The new standard in highbay lighting,
combining functionality with design

GreenPerform, excellent light quality,
maximum energy savings





Dimensions / Ölçüler

	a	b	c
Body dimensions	110	600	60mm
Pack dimensions	120	620	61mm
Weight	2,75kg		

Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Extruded Aluminium
Glass	: 4mm Tempered glass
Paint	: Anodized
IP	: 65
Kelvin	: 3000-4000-6000
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted



Lens angles / Lens açıları



Technical Options / Teknik Seçenekler

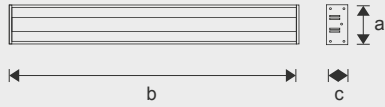
Emergency Kit
Dimmer
Dali

Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMYT-60W60MP	60 Watt	60	%87	6238 lm

Colours / Renkler

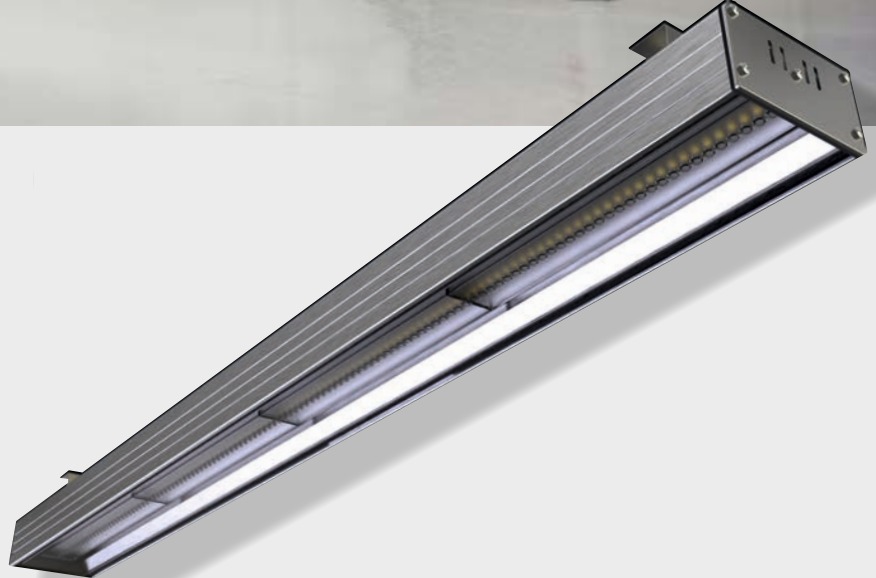


Fornax series



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 110 x 1167 x 75mm		
Pack dimensions	: 120 x 1345 x 80mm		
Weight	: 4,75kg		



Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Extruded Aluminium
Glass	: 4mm Tempered glass
Paint	: Anodized
IP	: 65
Kelvin	: 3000-4000-6000
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted



Lens angles / Lens açıları



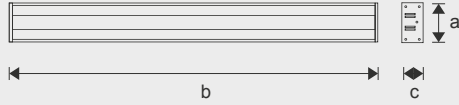
Technical Options / Teknik Seçenekler

Emergency Kit
Dimmer
DALI

Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMYT-120W120MP	120 Watt	120	%90	15721 lm

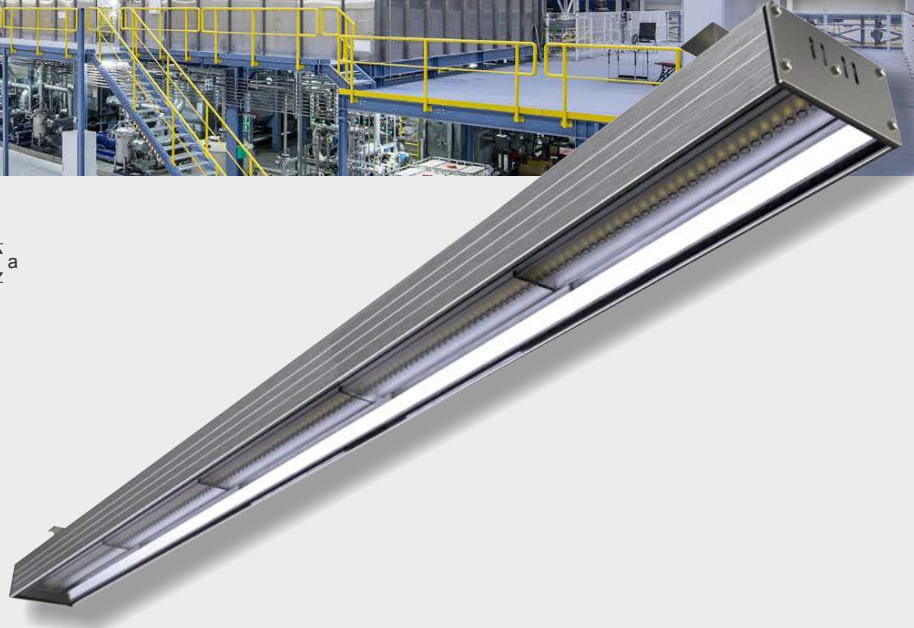
Colours / Renkler





Dimensions / Ölçüler

	a	b	c
Body dimensions	110 x 1467 x 75mm		
Pack dimensions	120 x 1470 x 80mm		
Weight	5,5kg		



Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Extruded Aluminium
Glass	: 4mm Tempered glass
Paint	: Anodized
IP	: 65
Kelvin	: 3000-4000-6000
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendant



Lens angles / Lens açıları



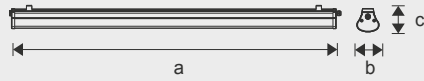
Technical Options / Teknik Seçenekler

Emergency Kit
Dimmer
Dal

Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMYT-130W150MP	130 Watt	150	%92	18026 lm

Colours / Renkler



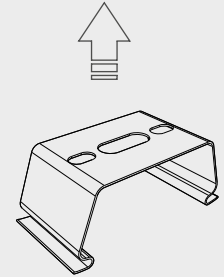


Dimensions / Ölçüler

	a	b	c
Body dimensions	1200 x 82 x 87mm		
Pack dimensions	1300 x 85 x 90mm		
Weight	1,6kg		

Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Extruded Plastic
Glass	: Frosted PC Cover
IP	: 65
Kelvin	: 2700K - 3000K - 4000K - 6000K
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted



Technical Options / Teknik Seçenekler

Emergency Kit
Dimmer
Dalı

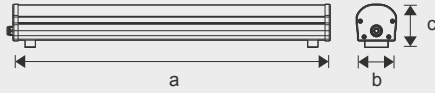
Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMEP-P20W72MP	20 Watt	72	%87	2000 lm
CMEP-P40W160MP	40 Watt	160	%86	3600 lm

AC ve/veya DC seçimi
AC and/or DC selection

Colours / Renkler



Capricorn series

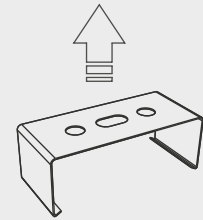


Dimensions / Ölçüler

	a	b	c
Body dimensions	600 x 77 x 83mm		
Pack dimensions	650 x 80 x 85mm		
Weight	1 kg		

Technical Features / Teknik Özellikler

Lamp Type	: SMD LED
Warranty	: 5 Years
Housing	: Extruded Aluminium
Glass	: Forsted PC Cover
Paint	: Anodized
IP	: 65
Kelvin	: 3000-4000-6000
CRI	: >80
LED Lifetime	: 50.000 h
Power Supply	: 220-240 AC 50-60 Hz.
Environment	: Indoor
Installation	: Surface, Pendanted



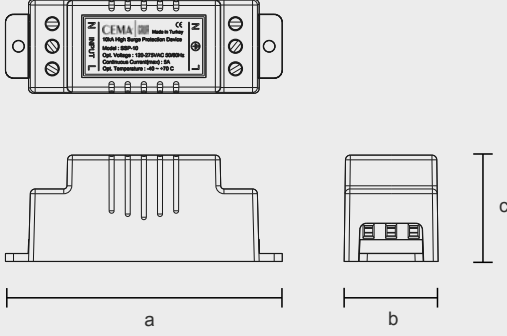
Technical Options / Teknik Seçenekler

Emergency Kit
Dimmer
Dal

Model Model	Power (W) Güç (W)	Led Pcs Led Sayısı	Efficiency Verim	Light Output Işık Şiddeti
CMEA-A50W264MP	50 Watt	264	%87	5700 lm
CMEA-A60W264MP	60 Watt	264	%88	6600 lm

Colours / Renkler





Dimensions / Ölçüler

	a	b	c
Body dimensions	: 87 x 30 x 33mm		
Pack dimensions	: 90 x 31 x 134mm		
Weight	: 50gr		

Technical Features / Teknik Özellikler

Operating Voltage.	: 120-275V AC 50/60Hz
Continuous Current(max)	: 5A
Vopen	: 10 KV
Opt. Temperature	: -40 ~ +70 C



AG Parafudr sistemleri özetle; yıldırım ve ani aşırı gerilim darbelerine karşı sistemlerimizi koruyan darbe koruma cihazlarıdır.

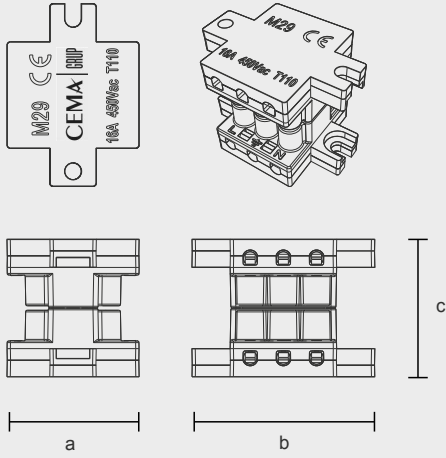
Parafudr henüz ülkemizde önemi yeterince kavranmasa da birçok tesis ve sistem için kritik önem taşır. Yıldırım ve aşırı gerilim kaynaklı birçok cihaz hasara uğramakta, binlerce lira hasar oluşmaktadır. Bunun önüne geçmek için risk görülen yerlerde mutlaka parafudr korumasını uygulamak sistemlerinizin zarar görmemesi ve buna bağlı maddi kayıpların yaşanmaması açısından önem taşımaktadır.

Dış yıldırımlık sistemleri yıldırım darbelerine karşı sadece fiziksel koruma yapar. Elektriksel koruma gerçekleştirmezler. Ag parafudrlar ise yıldırım darbelerine karşı koruma yaptığı gibi şebeke darbelerine karşı da koruma yaparlar.

LV Surge protection systems are the protecting devices that are protecting our electrical system from the lightning and peak voltages.

Surge protection is critical for many facilities and systems although its importance is not yet understood in our country. Many devices are damaged due to lightning and overvoltage, thousands of dollars of loss occurs. It is important to apply surge protection to the risky areas to prevent this damage to your systems and not to suffer any financial losses due to this.

External lightning systems provide only physical protection against lightning strikes. They do not protect electrically. LV surge protection systems are protecting against the lightning as well as the overvoltage impacts of the main line.



Dimensions / Ölçüler

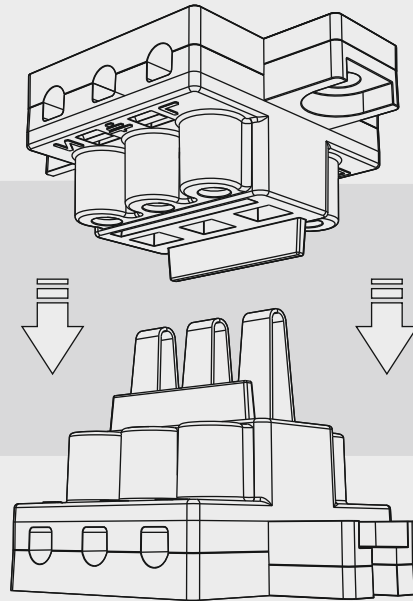
	a	b	c
Body dimensions	: 40 x 55 x 41.5mm		
Weight	: 50gr		

Technical Features / Teknik Özellikler

Rated Voltage.	: 450V
Rated Current	: 16A
Resistance to surface currents	: TK 175
Working temperature	: T120 C
Insulation class	: II
Connect the cabbies	: Screw clamps
Protection degree	: IP20



M29 DISCONNECTOR
DEVRE KESİCİ





E27

**İç ve Dış Mekan
İğneli Duy**

**Indoor and Outdoor
Lamp Socket With Pins**

**HIZLI MONTAJ • SU GEÇİRMEZ • KOLAY KURULUM
QUICK ASSEMBLY • WATERPROOF • EASY SETUP**

**Her türlü ortamda hızlı ve etkin bir aydınlatma çözümü sunar.
Offers a fast and effective lighting solution in any environment.**

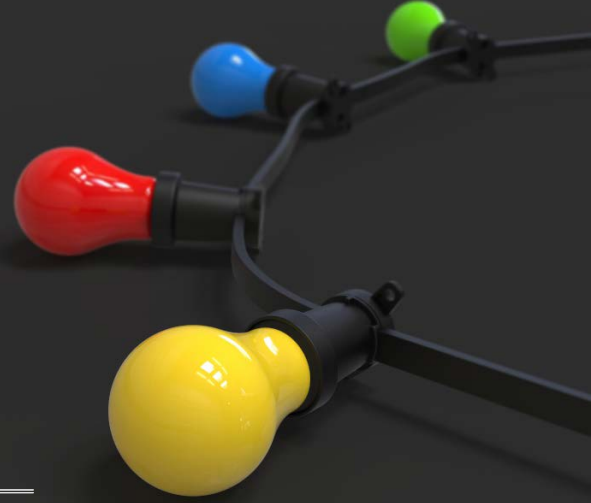
**NERELERDE KULLANILABİLİR?
WHERE CAN IT BE USED?**

**PARK • BAHÇE • KIR DÜĞÜNÜ • TAVUK ÇİFTLİĞİ • SERA • CAFE • VB.
PARK • GARDEN • PIRAIRIE WEDDING • CHICKEN FARM • GREEN HOUSE • CAFE • ETC.**

E27 İÇ ve DIŞ MEKAN / INDOOR and OUTDOOR
İĞNELİ DUY / LAMP SOCKET WITH PINS

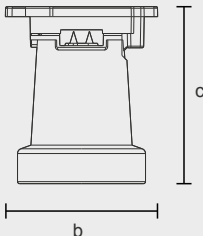
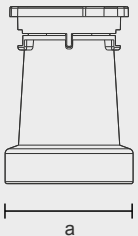
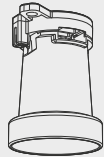
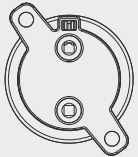
DİLEDİĞİNİZ GİBİ EKLEYİP ÇIKARTIN
SANİYELER İÇERİSİNDE YERLERİNİ DEĞİŞTİRİN

ADD OR REMOVE AS YOU WISH
RELOCATE WITHIN SECONDS



Dimensions / Ölçüler

	a	b	c
Body dimensions	: 52 x 38 x 52mm		
Pack dimensions	: 54 x 40 x 54mm		
Weight	: 20gr		





LED LUMINAIRES
OUTDOOR-INDOOR-INDUSTRIAL
MAIN CATALOGUE

www.cemagrup.com.tr



LIGHTING TECHNOLOGIES

CEMA GRUP ENERJİ SAN. VE TİC. A.Ş.

Kızılırmak Mah. Dumlupınar Blv. No: 3A 4/10 Next Level

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