DELTA & MINI TORRES

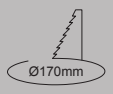
Recessed

Delta

Outer Dimension / Dış Ölçü

Cutout / Delik Ölçüsü

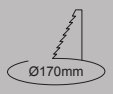
182mm



Outer Dimension / Dış Ölçü

Cutout / Delik Ölçüsü

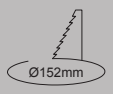
182mm



Outer Dimension / Dış Ölçü

Cutout / Delik Ölçüsü

164mm

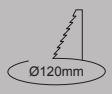


Mini Torres

Outer Dimension / Dış Ölçü

Cutout / Delik Ölçüsü

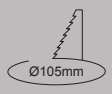
138mm



Outer Dimension / Dış Ölçü

Cutout / Delik Ölçüsü

120mm



DELTA has extraordinarily high light effectiveness. Efficient output up to 5500lm output. Various light distributions available to meet all lighting requirements in the retail sector. Practical ceiling clips enables easy installation on site.

Latest LED technology with highest lumen/watt integrated with high efficient miro silver reflector technology makes DELTA and MINI TORRES range efficient and enviroment friendly lighting solution.

DELTA FLUX option in this range offers even brighter lumen output up to 7000lm especially necessary for applications such as storefront, store entrance, high ceiling applications etc.

Honeycomb filter to reduce glare and colour filter to give different lighting effects can be integrated to the luminaire.

DELTA serisi mükemmel verimliliğe sahiptir. 5500lm ışık çıkışına varan verimli yapı. Farklı ışık dağılım çözümleri sayesinde perakende de gerekli olan tüm aydınlatma ihtiyaçlarını sağlar. Pratik yay sistemi ile sahada kolay montaj olanağı sağlar.

Son teknoloji yüksek lümen/watt değerlerine sahip COB Led ile beraber %90 verimliliğin üzerinde segmente Miro Silver reflektör birleşimi DELTA ve MINI TORRES serisini verimli aydınlatma aygıtı olmasını sağlar.

DELTA FLUX seçeneği 7000lm bulan daha da yüksek lümen çıkış olanağı sağlamaktadır. Vitrin, mağaza girişi, yüksek tavanlı mahallerin aydınlatılması gibi aplikasyonlarda tercih edilebilir.

Kamaşmayı azaltmak için bal peteği filtresi ve farklı aydınlatma efektleri sağlamak için renk filtresi aksesuar seçenekleri kullanılabilir.

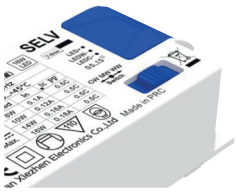
WC
BMW
BMW 3 Serisi

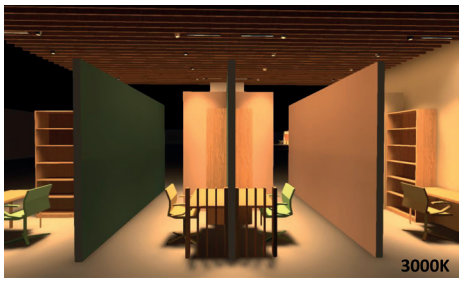
Delta & Mini Torres

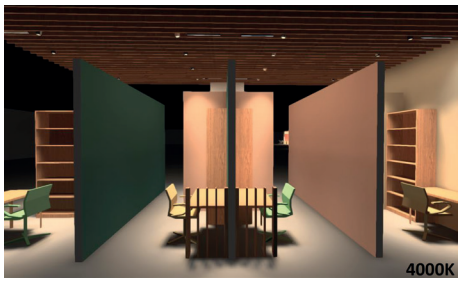
CCT Control with Switch / Switch ile Renk Ayarı

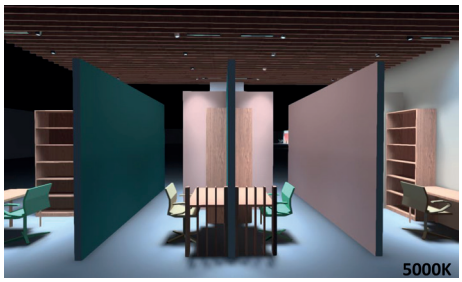
We are optionally able to control CCT of the Delta and Mini Torres Recessed range with switch available on the LED Driver with 3000K, 4000K and 5000K light output from same downlight.

Delta ve Mini Torres Ankastre armatür serisinde ışık rengi LED trafonun üzerinde bulunan buton sayesinde 3000K, 4000K ve 5000K olarak ayarlanabilmektedir.









Beam Angles / Işık Açıları

12° - Super Spot

20° - Spot

30° - Medium

40° - Flood

60° - Wide Flood

We use Segmented Miro Silver technology in our Delta and Mini Torres recessed spotlights. Efficiency rating of LOR >93% provides high lumen output. Super Spot, Spot, Medium, Flood and Wide Flood options available with Miro-4, Miro-8 and Miro-20 surface.

Delta ve Mini Torres ankastre serimizde segmente Miro Silver teknolojisine sahip reflektörler kullanmaktayız. Kullandığımız reflektörlerin verimi LOR>93% seviyesinde olup armatür verimini en üst seviyeye çıkarmaktadır. Çok Dar, Dar, Orta, Geniş ve çok Geniş açı seçenekleri bulunmakta olup Miro-4, Miro-8 ve Miro-20 yüzey seçenekleri bulunmaktadır.

MacAdam

Avolux uses world's best LED suppliers to ensure colour consistency in its DELTA and MINI TORRES recessed spotlight range. We can provide up to MacAdam Step 3.

Avolux DELTA ve MİNİ TORRES ankastre serisi armatürlerinde en iyi marka LED komponentlerini kullanmakta olup olası ışık tonu farklılıkarının önüne geçmektedir. MacAdam Step 3 ışık bini tercih edilmektedir.

Delta & Mini Torres

Tunable White / Dinamik Beyaz

AVOLUX can apply Tunable White control to its DELTA and MINI TORRES recessed spotlight system. Via smart phone or bluetooth switch, individual control or grouping selections possible. Complex solutions can be eaily performed.

Avolux DELTA ve MİNİ TORRES ankastre serisi armatürlerinde dinamik beyaz ışık kontrolü seçeneği sunmaktadır. Akıllı telefon veya bluetooth anahtarlar ile ışık kontrolü sağlanabilir. Armatürler tek tek veya grup halinde kontrol edilerek yüksek adetli armatür içeren projeler dahil kolaylıkla sisteme adapte edilebilir.

Android & İOS

Xpress

Wireless DIM / Kablosuz DIM

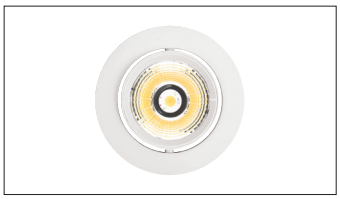
Avolux offers wireless DIM control on its DELTA and MINI TORRES recessed spotlight range that provides easy control and saves time on wiring during installation.

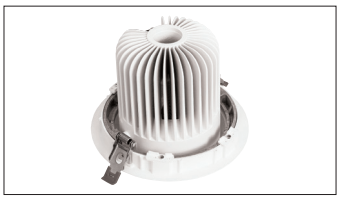
Avolux DELTA ve MİNİ TORRES ankastre serisi armatürlerinde kablosuz DIM seçeneği sunarak kolay kontrol olanağı sunar. Ürün montaj kurulum esnasında daha az kablolama ile zamandan tasarruf sağlar.

Design / Dizayn

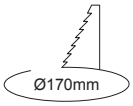
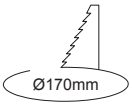
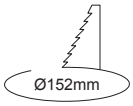
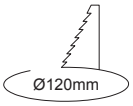
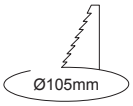
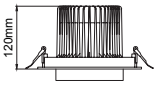
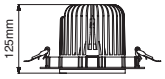
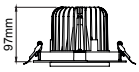
DELTA and MINI TORRES spot range is magnificent design for recessed applications. Thanks to its practical ceiling clips system, installation on site is easy.

Mükemmel teknik tasarıma sahip DELTA ve MİNİ TORRES armatür serisi, pratik montaj yayları sayesinde montajı kolaydır.





Delta & Mini Torres

Sizes and tech. specifications / Ölçü ve teknik bilgiler	Delta Flux	Delta	Delta Midi	Mini Torres	Mini Torres Fix
Outer Dimensions / Dıştan Dışa Ölçü	Visible trim Ø182mm Görünen Çerçeve Ölçüsü Ø182mm	Visible trim Ø182mm Görünen Çerçeve Ölçüsü Ø182mm	Visible trim Ø164mm Görünen Çerçeve Ölçüsü Ø164mm	Visible trim Ø138mm Görünen Çerçeve Ölçüsü Ø138mm	Visible trim Ø120mm Görünen Çerçeve Ölçüsü Ø120mm
Cutout Dimension / Delik Ölçüsü					
Height inside Ceiling / Armatür tavan içi derinlik					
Light source / Işık Kaynağı	COB LED 1x48W, 1x42W, 1x35W, 1x31W L80 B10=50,000h 2700K, 3000K, 3500K, 4000K, 5000K SDCM <3 CRI>80, CRI>90, CRI>98	COB LED 1x42W, 1x35W, 1x31W, 1x28W L80 B10=50,000h 2700K, 3000K, 3500K, 4000K, 5000K SDCM <3 CRI>80, CRI>90, CRI>98	COB LED 1x31W, 1x28W, 1x24W, 1x20W L80 B10=50,000h 2700K, 3000K, 3500K, 4000K, 5000K SDCM <3 CRI>80, CRI>90, CRI>98	COB LED 1x28W, 1x24W, 1x20W, 1x15W L80 B10=50,000h 2700K, 3000K, 3500K, 4000K, 5000K SDCM <3 CRI>80, CRI>90, CRI>98	COB LED 1x24W, 1x20W, 1x15W, 1x10W L80 B10=50,000h 2700K, 3000K, 3500K, 4000K, 5000K SDCM <3 CRI>80, CRI>90, CRI>98

EN

- Die-cast aluminium body.
- Mains voltege: 220-240V / 50-60Hz.
- Clever thermal design with passive heat dissipation.
- 30° rotation on vertical and 30° angle on horizontal axis with mechanical aiming lock.
- Clear safety glass.
- Classic dimming systems of DALI, 1-10V and Phase-Cut Dim options.
- High tech control systems of Tuneable White, Warm Dim and Wireless Dim options.
- Basic colours: White, Black, Gray, Dark Gray, RAL9010 and special color options.
- Available accesories are Honeycomb Filter and Colour Filter.
- Super Spot, Spot, Medium, Flood and Wide Flood beam angle options available with rotationally symmetric light distribution.
- Standart CRI>80, high CRI>90 and super high CRI>98 LED options available.
- Up to 144lm/W efficiency.
- High colour consistency: <3 SDCM
- Emergency kit system can be integrated.

TR

- Alüminyum enjeksiyon gövde.
- 220-240V / 50-60Hz enerji girişli.
- Pasif soğutma teknolojisine sahip akıllı soğutma tasarımı.
- Dikeyde 30°, yatayda 30° hareket kabiliyetine sahip mekanik kilitlemeli mafsal sistemi.
- Tamperli cam.
- Klasik DALI, 1-10V ve Faz DIM seçenekleri uygulanabilir.
- Yüksek teknoloji kontrol sistemleri olan Kablosuz DIM, Sıcak DIM ve Dinamik Beyaz uygulamaları yapılabilir.
- Standart renk seçenekleri: Beyaz, Siyah, Gri, Koyu Gri, RAL9010 yanında isteğe bağlı özel renk seçenekleri uygulanabilir.
- Balpeteği Filtresi ve Renk Filtresi aksesuar seçenekleri uygulanabilir.
- Çok Dar, Dar, Orta, Geniş ve Çok Geniş reflektör açı seçenekleri mevcuttur.
- Standart CRI>80, yüksek CRI>90 ve ekstra yüksek CRI>98 LED seçenekleri mevcuttur.
- 144lm/W'a varan verim.
- Yüksek renk uyumu: <3 SDCM
- Acil aydınlatma kit sistemi uygulanabilir.

Delta & Mini Torres

DIM Options / DIM seçenekleri

		Delta Flux	Delta	Delta Midi	Mini Torres	Mini Torres Flux
ON-OFF		•	•	•	•	•
PHASE CUT DIM / FAZ DİM	Ext.Code / Kod: .PH	•	•	•	•	•
1-10V DIM	Ext.Code / Kod: .VO	•	•	•	•	•
DALI DIM	Ext.Code / Kod: .DA	•	•	•	•	•
WIRELESS DIM / KABLOSUZ DİM	Ext.Code / Kod: .WD	•	•	•	•	•
WARM DIM / SICAK DİM	Ext.Code / Kod: .WM	•	•	•	•	•
TUNABLE WHITE / DİNAMİK BEYAZ	Ext.Code / Kod: .TW	•	•	•	•	•

Accessories / Aksesuarlar

		Delta Flux	Delta	Delta Midi	Mini Torres	Mini Torres Flux
Colour Filter / Renkli Filtre	Ext.Code / Kod: .CLF	•	•	•	•	•
Antiglare Screen / Kamaşma Önleyici	Ext.Code / Kod: .VKO					
Visor / Işık Siperi	Ext.Code / Kod: .VIS					
Honeycomb Filter / Petekli Filtre	Ext.Code / Kod: .VBP	•	•	•	•	•
Barn Door / Yönlendirici Flap	Ext.Code / Kod: .VFL					

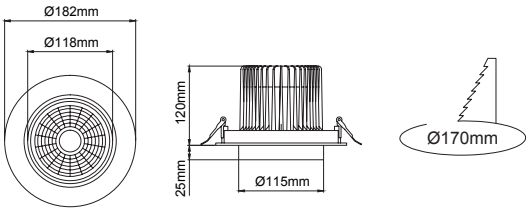
Delta Flux

LED A A+ A++ | 30° | 30° | SASO | CB | LVD | CE | EAC | IP 20 | kg 1.4 | CRI 80 | CRI 90 | CRI 98

5 / Product Color / Ürün Renk

WHITE = 01 | Ral 9010 = 02 | BLACK = 03 | GRAY = 04 | DARK GRAY = 05 | SPECIAL COLOR = 06

Technical Drawing / Teknik Çizim



Delta Flux / I01.MLR.16016

* Code example / Kod örneği:

I01.MLR.16016 . 48 . 827 . SS . 01

1 2 3 4 5

1- Product code / Armatür kodu
2- Power / Güç
3- CRI / Kelvin
4- Reflector angle / Reflektör açısı
5- Colour / Ürün renk

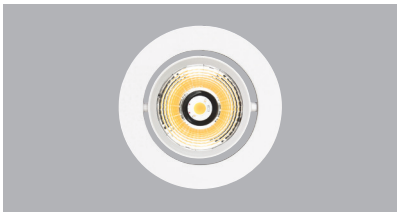
Power / Güç	CRI	Order Code / Sipariş Kodu	Kelvin	Lümen Tc=50° Lümen
48W	CRI>80	I01.MLR.16016 . (..) . (...) . (..) . (..)	2700K	5511
			3000K	5647
			3500K	5845
			4000K	6050
			5000K	6473
	CRI>90	I01.MLR.16016 . (..) . (...) . (..) . (..)	2700K	4958
			3000K	5082
			3500K	5200
			4000K	5444
			5000K	X
	CRI>98	I01.MLR.16016 . (..) . (...) . (..) . (..)	2700K	4229
			3000K	4382
			4000K	4688
	Meat / Et COB	I01.MLR.16016 . (..) . (...) . (..) . (..)	1800K	3362
	Food / Gıda COB	I01.MLR.16016 . (..) . (...) . (..) . (..)	2400K	3475
	FISH / Balık COB	I01.MLR.16016 . (..) . (...) . (..) . (..)	6600K	4595

(..) / Complete Code / Komple Kod

2	Watt - Driving Current / Watt - Sürüş Akımı	3	CRI / Kelvin			4	Reflector Angle / Reflektör Açısı	5	Product Color / Ürün Renk
48	48W - 1200mA	827	CRI>80 - 2700K	9827	CRI>98 - 2700K	SS	12° - Super Spot	01	white
42	42W - 1050mA	830	CRI>80 - 3000K	9830	CRI>98 - 3000K	SP	20° - Spot	02	ral 9010
35	35W - 900mA	835	CRI>80 - 3500K	9840	CRI>98 -4000K	ME	30° - Medium	03	black
31	31W - 800mA	840	CRI>80 - 4000K	MEAT	1800K	FL	40° - Flood	04	gray
		850	CRI>80 - 5000K	GOLD	2400K	WF	60° - Wide Flood	05	dark gray
		927	CRI>90 - 2700K	FISH	6600K			06	special color
		930	CRI>90 - 3000K						
		935	CRI>90 - 3500K						
		940	CRI>90 - 4000K						

See page 520 for Idt files. / Işık eğrileri için sayfa 520 bakınız.

Delta

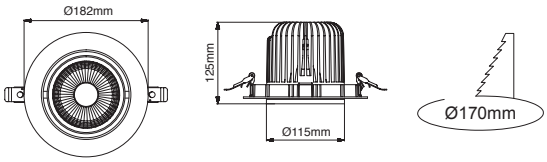


LED A A+ A++ | 30° 30° | SASO CB LVD CE EAC F IP20 | kg 1.3 | CRI 80 CRI 90 CRI 98

5 / Product Color / Ürün Renk

WHITE = 01 | Ral 9010 = 02 | BLACK = 03 | GRAY = 04 | DARK GRAY = 05 | SPECIAL COLOR = 06

Technical Drawing / Teknik Çizim



Delta / I01.MLR.16014

* Code example / Kod örneği:

I01.MLR.16014 . 42 . 827 . SS . 01

1 2 3 4 5

1- Product code / Armatür kodu
2- Power / Güç
3- CRI / Kelvin
4- Reflector angle / Reflektör açısı
5- Colour / Ürün renk

Power / Güç	CRI	Order Code / Sipariş Kodu	Kelvin	Lümen T_C=50° Lümen
42W	CRI>80	I01.MLR.16014 . (..) . (...) . (..) . (..)	2700K	4841
			3000K	4964
			3500K	5136
			4000K	5312
			5000K	5688
	CRI>90	I01.MLR.16014 . (..) . (...) . (..) . (..)	2700K	3723
			3000K	4357
			3500K	4467
			4000K	4622
			5000K	X
	CRI>98	I01.MLR.16014 . (..) . (...) . (..) . (..)	2700K	3909
			3000K	4041
			4000K	4320
	Meat / Et COB	I01.MLR.16014 . (..) . (...) . (..) . (..)	1800K	2918
	Food / Gıda COB	I01.MLR.16014 . (..) . (...) . (..) . (..)	2400K	3004
	FISH / Balık COB	I01.MLR.16014 . (..) . (...) . (..) . (..)	6600K	3965

(..) / Complete Code / Komple Kod

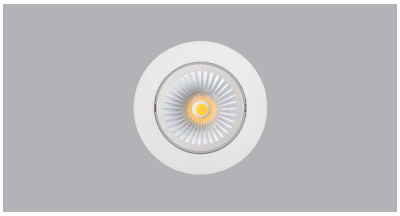
2	Watt - Driving Current / Watt - Sürüş Akımı	3	CRI / Kelvin		
42	42W - 1050mA	827	CRI>80 - 2700K	9827	CRI>98 - 2700K
35	35W - 900mA	830	CRI>80 - 3000K	9830	CRI>98 - 3000K
31	31W - 800mA	835	CRI>80 - 3500K	9840	CRI>98 -4000K
28	28W - 700mA	840	CRI>80 - 4000K	MEAT	1800K
		850	CRI>80 - 5000K	GOLD	2400K
		927	CRI>90 - 2700K	FISH	6600K
		930	CRI>90 - 3000K		
		935	CRI>90 - 3500K		
		940	CRI>90 - 4000K		

4	Reflector Angle / Reflektör Açısı
SS	12° - Super Spot
SP	20° - Spot
ME	30° - Medium
FL	40° - Flood
WF	60° - Wide Flood

See page 520 for Idt files. / Işık eğrileri için sayfa 520 bakınız.

5	Product Color / Ürün Renk
01	white
02	ral 9010
03	black
04	gray
05	dark gray
06	special color

Delta Midi

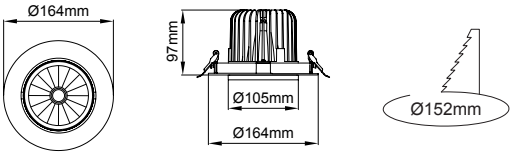


LED A A+ A++ 30° 30° SASO CB LVD CE EAC F IP 20 kg 1 CRI 80 CRI 90 CRI 98

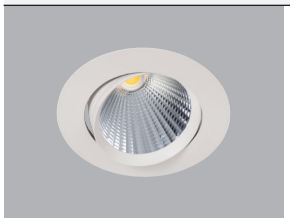
5 / Product Color / Ürün Renk

WHITE = 01 | Ral 9010 = 02 | BLACK = 03 | GRAY = 04 | DARK GRAY = 05 | SPECIAL COLOR = 06

Technical Drawing / Teknik Çizim



Delta Midi / I01.MLR.16018



* Code example / Kod örneği:

I01.MLR.16018 . 31 . 827 . SP . 01

1 2 3 4 5

1- Product code / Armatür kodu
2- Power / Güç
3- CRI / Kelvin
4- Reflector angle / Reflektör açısı
5- Colour / Ürün renk

Power / Güç	CRI	Order Code / Sipariş Kodu	Kelvin	Lümen T_C=50° Lümen
31W	CRI>80	I01.MLR.16018 . (..) . (...) . (..) . (..)	2700K	3759
			3000K	3911
			3500K	4048
			4000K	4190
			5000K	4483
	CRI>90	I01.MLR.16018 . (..) . (...) . (..) . (..)	2700K	3383
			3000K	3467
			3500K	3589
			4000K	3715
			5000K	X
	CRI>98	I01.MLR.16018 . (..) . (...) . (..) . (..)	2700K	2680
			3000K	2795
			4000K	2990
	Meat / Et COB	I01.MLR.16018 . (..) . (...) . (..) . (..)	1800K	2164
	Food / Gıda COB	I01.MLR.16018 . (..) . (...) . (..) . (..)	2400K	2227
	FISH / Balık COB	I01.MLR.16018 . (..) . (...) . (..) . (..)	6600K	2945

(..) / Complete Code / Komple Kod

2	Watt - Driving Current / Watt - Sürüş Akımı
31	31W - 800mA
28	28W - 700mA
24	24W - 600mA
20	20W - 500mA

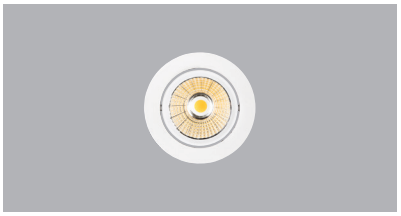
3	CRI / Kelvin		
827	CRI>80 - 2700K	9827	CRI>98 - 2700K
830	CRI>80 - 3000K	9830	CRI>98 - 3000K
835	CRI>80 - 3500K	9840	CRI>98 -4000K
840	CRI>80 - 4000K	MEAT	1800K
850	CRI>80 - 5000K	GOLD	2400K
927	CRI>90 - 2700K	FISH	6600K
930	CRI>90 - 3000K		
935	CRI>90 - 3500K		
940	CRI>90 - 4000K		

4	Reflector Angle / Reflektör Açısı
SP	20° - Spot
ME	35° - Medium
WF	50° - Wide Flood

See page 522 for Idt files. / Işık eğrileri için sayfa 522 bakınız.

5	Product Color / Ürün Renk
01	white
02	ral 9010
03	black
04	gray
05	dark gray
06	special color

Mini Torres

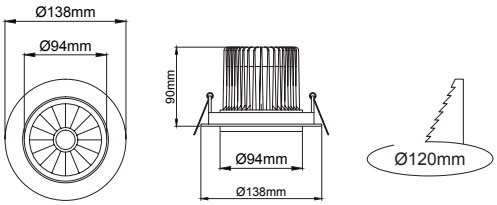


LED A A+ A++ | 20° 20° | SASO CB LVD CE EAC F IP20 | kg 0.7 | CRI 80 CRI 90 CRI 98

5 / Product Color / Ürün Renk

WHITE = 01 | Ral 9010 = 02 | BLACK = 03 | GRAY = 04 | DARK GRAY = 05 | SPECIAL COLOR = 06

Technical Drawing / Teknik Çizim



Mini Torres / I01.MLR.17010

* Code example / Kod örneği:

I01.MLR.17010 . 28 . 827 . SP . 01

1 2 3 4 5

1- Product code / Armatür kodu
2- Power / Güç
3- CRI / Kelvin
4- Reflector angle / Reflektör açısı
5- Colour / Ürün renk

Power / Güç	CRI	Order Code / Sipariş Kodu	Kelvin	Lümen T_C=50° Lümen
28W	CRI>80	I01.MLR.17010 . (..) . (...) . (..) . (..)	2700K	3405
			3000K	3556
			3500K	3596
			4000K	3735
			5000K	3993
	CRI>90	I01.MLR.17010 . (..) . (...) . (..) . (..)	2700K	2756
			3000K	3044
			3500K	3125
			4000K	3160
			5000K	X
	CRI>98	I01.MLR.17010 . (..) . (...) . (..) . (..)	2700K	2459
			3000K	2564
			4000K	2743
	Meat / Et COB	I01.MLR.17010 . (..) . (...) . (..) . (..)	1800K	2052
	Food / Gıda COB	I01.MLR.17010 . (..) . (...) . (..) . (..)	2400K	2113
	FISH / Balık COB	I01.MLR.17010 . (..) . (...) . (..) . (..)	6600K	2905

(..) / Complete Code / Komple Kod

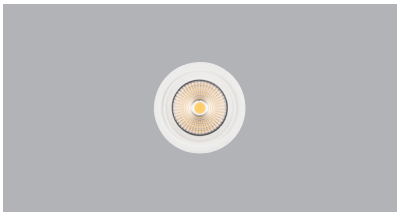
2	Watt - Driving Current / Watt - Sürüş Akımı	3	CRI / Kelvin		
28	28W - 700mA	827	CRI>80 - 2700K	9827	CRI>98 - 2700K
24	24W - 600mA	830	CRI>80 - 3000K	9830	CRI>98 - 3000K
20	20W - 500mA	835	CRI>80 - 3500K	9840	CRI>98 -4000K
15	15W - 350mA	840	CRI>80 - 4000K	MEAT	1800K
		850	CRI>80 - 5000K	GOLD	2400K
		927	CRI>90 - 2700K	FISH	6600K
		930	CRI>90 - 3000K		
		935	CRI>90 - 3500K		
		940	CRI>90 - 4000K		

4	Reflector Angle / Reflektör Açısı
SP	20° - Spot
ME	30° - Medium
FL	40° - Flood
WF	60° - Wide Flood

See page 523 for Idt files. / Işık eğrileri için sayfa 523 bakınız.

5	Product Color / Ürün Renk
01	white
02	ral 9010
03	black
04	gray
05	dark gray
06	special color

Mini Torres Fix

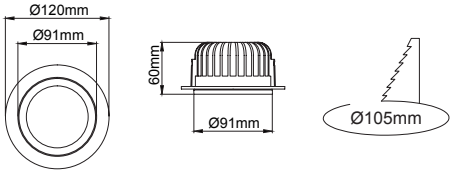


LED A A+ A++ 0° 0° SASO CB LVD CE EAC F IP 20 kg 0.5 CRI 80 CRI 90 CRI 98

5 / Product Color / Ürün Renk

WHITE = 01 | Ral 9010 = 02 | BLACK = 03 | GRAY = 04 | DARK GRAY = 05 | SPECIAL COLOR = 06

Technical Drawing / Teknik Çizim



Mini Torres Fix / I01.MLR.17020

* Code example / Kod örneği:

I01.MLR.17020 . 24 . 827 . SP . 01

1 2 3 4 5

1- Product code / Armatür kodu
2- Power / Güç
3- CRI / Kelvin
4- Reflector angle / Reflektör açısı
5- Colour / Ürün renk

Power / Güç	CRI	Order Code / Sipariş Kodu	Kelvin	Lümen Tc=50° Lümen
24W	CRI>80	I01.MLR.17020 . (..) . (...) . (..) . (..)	2700K	2500
			3000K	2562
			3500K	2652
			4000K	2744
			5000K	2909
	CRI>90	I01.MLR.17020 . (..) . (...) . (..) . (..)	2700K	2250
			3000K	2306
			3500K	2386
			4000K	2469
			5000K	X
	CRI>98	I01.MLR.17020 . (..) . (...) . (..) . (..)	2700K	1729
			3000K	1790
			4000K	1879
	Meat / Et COB	I01.MLR.17020 . (..) . (...) . (..) . (..)	1800K	X
	Food / Gıda COB	I01.MLR.17020 . (..) . (...) . (..) . (..)	2400K	X
	FISH / Balık COB	I01.MLR.17020 . (..) . (...) . (..) . (..)	6600K	X

(..) / Complete Code / Komple Kod

2	Watt - Driving Current / Watt - Sürüş Akımı	3	CRI / Kelvin		
24	24W - 600mA	827	CRI>80 - 2700K	9827	CRI>98 - 2700K
20	20W - 500mA	830	CRI>80 - 3000K	9830	CRI>98 - 3000K
15	15W - 350mA	835	CRI>80 - 3500K	9840	CRI>98 -4000K
10	10W - 250mA	840	CRI>80 - 4000K		
		850	CRI>80 - 5000K		
		927	CRI>90 - 2700K		
		930	CRI>90 - 3000K		
		935	CRI>90 - 3500K		
		940	CRI>90 - 4000K		

4	Reflector Angle / Reflektör Açısı
SP	20° - Spot
ME	30° - Medium
FL	40° - Flood

See page 523 for Idt files. / Işık eğrileri için sayfa 523 bakınız.

5	Product Color / Ürün Renk
01	white
02	ral 9010
03	black
04	gray
05	dark gray
06	special color

BMW