



SWEETSPOT MDS

Modular Downlight System

- High efficiency COB engine
- Modular engine & trims
- 8W LED with various custom optics
- Perfect application vs. MR16 50W Halogens
- Over 650lm for 2900K
- LEDIM & TEDIM options
- Seven trims options as standard
- Reduced overall size for easy install
- Dustproof sealed tempered glass
- High performance cc driver



SWEETSPOT MDS

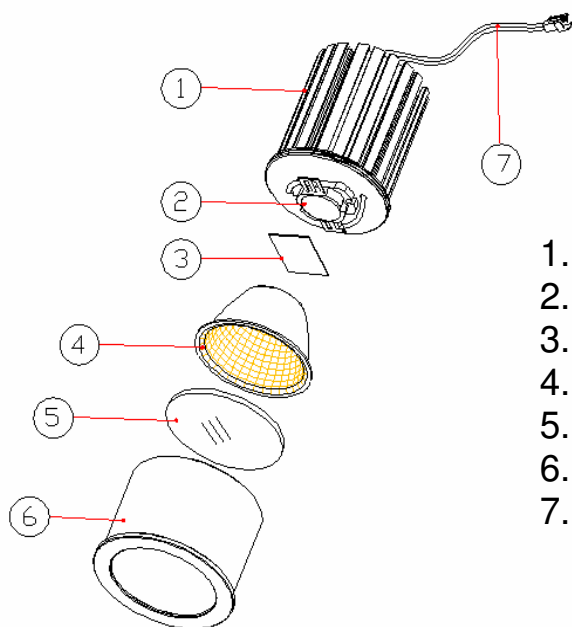
Modular Downlight System

Features:

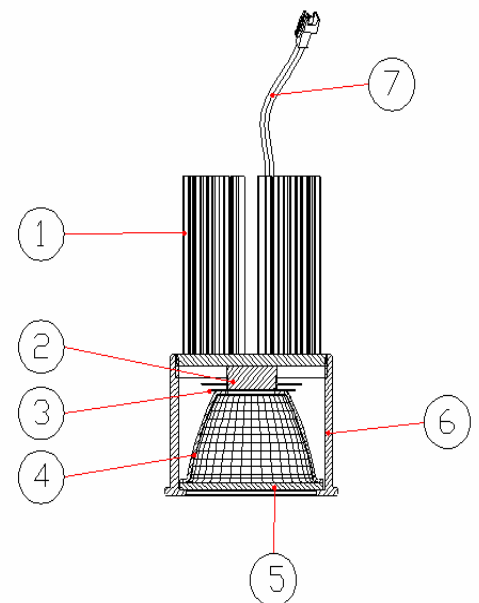
- Fully modular downlight system
- High performance light engine
- Innovative direct weld COB
- Choice of seven standard trims
- Perfect for applications where legacy MR16 50W Halogens are used
- Power saving 8W LED
- Custom designed optics replace standard MR16
- Safety glass front
- 25/45° beam angle
- Sealed assembly for protection against dust and contaminants
- 650 lumen typical for 2900k CCT
- Constant current drivers with full protection
- Very good PF & THD supply design
- Exceptional thermal performance

Options:

- LEDIM & TEDIM (Triac/SCR dimming)
- 0-10V dimming
- DALI dimming
- Trim finishes



1. Heatsink
2. COB LED
3. Custom filter
4. Polished reflector
5. Safety glass
6. Trim housing
7. Low voltage power lead



SWEETSPOT MDS

Modular Downlight System

Light Engine & Trims



MDS Light Engine

+



MDS Trim CS



CG



CD



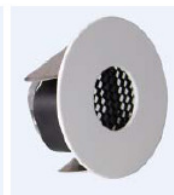
SD



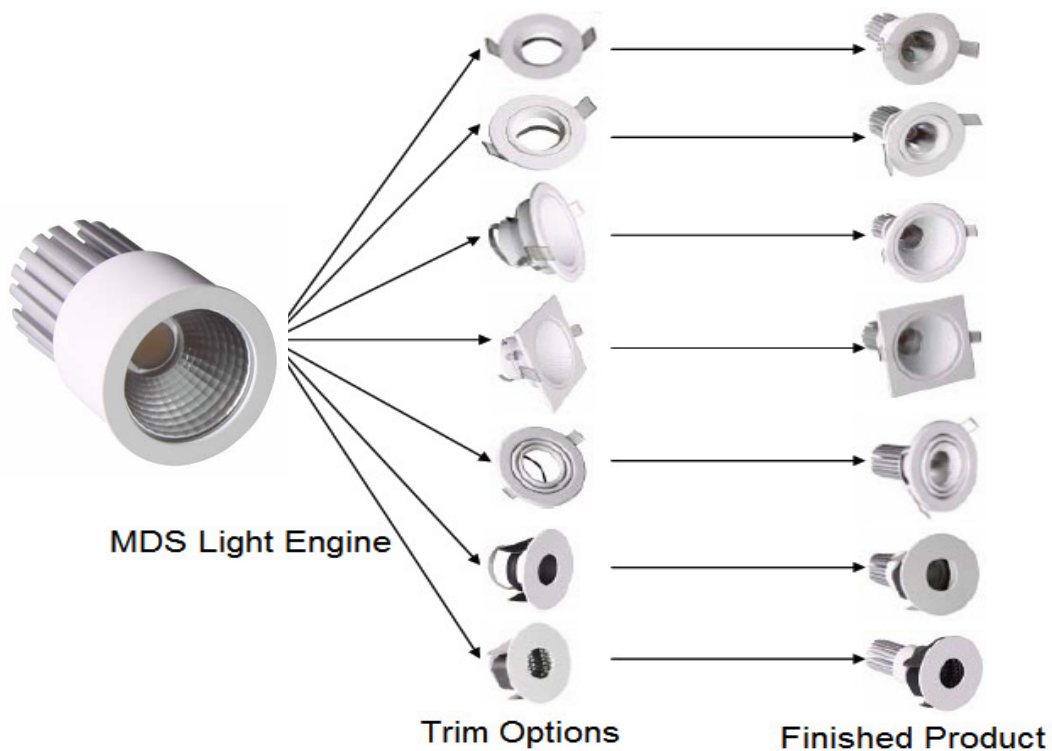
CP



CB



CC



SWEETSPOT MDS

Modular Downlight System

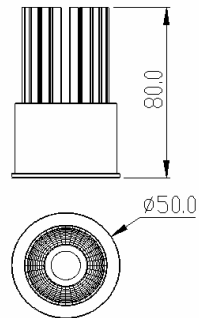
Specifications:

Parameter	Models						
	LR-MDS8WCS-xx	LR-MDS8WCG-xx	LR-MDS8WCD-xx	LR-MDS8WSD-xx	LR-MDS8WCP-xx	LR-MDS8WCB-xx	LR-MDS8WCC-xx
Trim type	CS Circular	CG Circular	CD Circular	SD Square	CP Circular	CB Circular	CC Circular
Wattage (W)	8.1	8.1	8.1	8.1	8.1	8.1	8.1
Input Current (A)	.30	.30	.30	.30	.30	.30	.30
LED engine voltage (constant current)	DC24-32V	DC24-32V	DC24-32V	DC24-32V	DC24-32V	DC24-32V	DC24-32V
Driver Input voltage (VAC)	90-240	90-240	90-240	90-240	90-240	90-240	90-240
Input freq. (Hz)	50-60	50-60	50-60	50-60	50-60	50-60	50-60
Power factor (PF)	>92	>92	>92	>92	>92	>92	>92
Distortion % (AC120V)	<17%	<17%	<17%	<17%	<17%	<17%	<17%
Exit hot lumen @ 30°C Ta for 2600K	650	650	650	650	650	650	650
CCT available 2300-7000K	YES	YES	YES	YES	YES	YES	YES
Color rendering (Ra) typ.	81	81	81	81	81	81	81
LED Life (L70) hrs @ Ta 30°C	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Light decay @ 6000hrs	3.2%	3.2%	3.2%	3.2%	3.2%	3.2%	3.2%
Operating temp °C	-30~+40	-30~+40	-30~+40	-30~+40	-30~+40	-30~+40	-30~+40
Driver protection overload	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Driver protection shorts	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Driver protection thermal	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Low EMI, RFI per FCC	Yes	Yes	Yes	Yes	Yes	Yes	Yes
LED Junction Temp. Tj @ Ta 30°C	<84°C	<84°C	<84°C	<84°C	<84°C	<84°C	<84°C
Housing Temperature @ Ta 30°C after 120min.	<51°C	<51°C	<51°C	<51°C	<51°C	<51°C	<51°C
Ext. driver temperature after 120min.	48°C	48°C	48°C	48°C	48°C	48°C	48°C
Innovative direct weld COB Pat pend.	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Dim options	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Beam angle	25/45°	25/45°	25/45°	25/45°	25/45°	25/45°	25/45°
Field serviceable external driver	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Cut-out Diameter Ø (mm/inch)	70/2.75	70/2.75	90/3.5	90/3.5	85/3.4	80/3.2	80/3.2
Weight net (~kg)	.55	.55	.55	.55	.55	.55	.55
Warranty*	5 YEARS	5 YEARS	5 YEARS	5 YEARS	5 YEARS	5 YEARS	5 YEARS

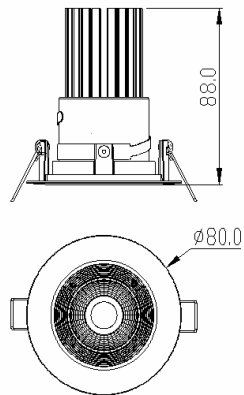
*As per LEDRays Inc. warranty statement. Specifications subject to change without notice.
xx denotes the color temperature shortened to 2 digits Ex: LR-MDS8WCD-29 is an 8W MDS with a CD trim & a color temp. of 2900K

SWEETSPOT MDS

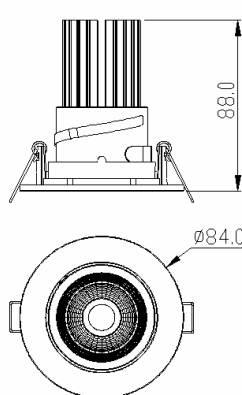
Modular Downlight System



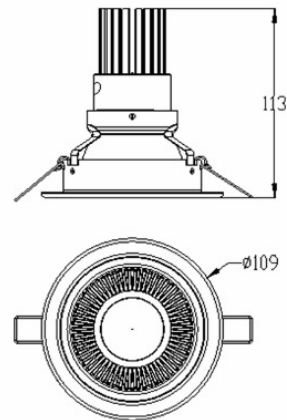
MDS Light Engine LR-MDS8W



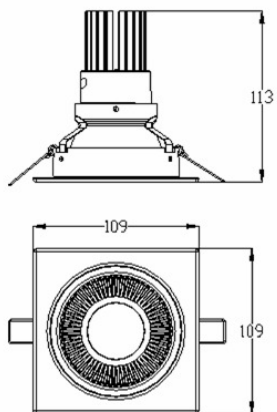
MDS Trim CS



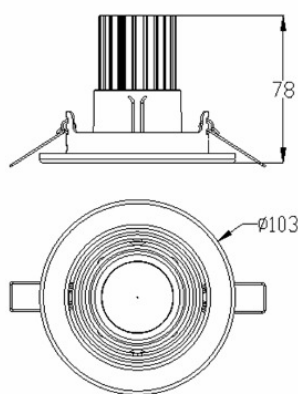
CG



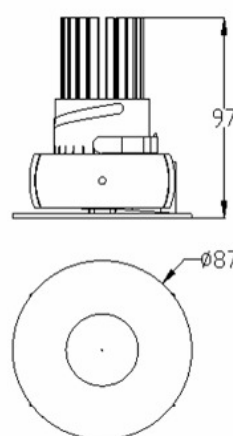
CD



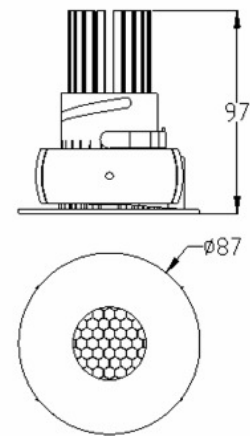
SD



CP



CB



CC