





About Dialight Corporation

Front cover photos: A selection of products from our wide range including power drivers, single and full color lighting arrays and optics. Founded in 1938, Dialight Corporation is the worldwide leader in applied LED technology. With applications ranging from low power Panel Mount and Circuit Board Indicators, to high power Traffic, Obstruction, Beacon, Vehicle, and Rail, our experience with LED is unparalleled. With expertise in optical, thermal, mechanical and electrical design, as well as ISO 9001 certified manufacturing, Dialight has the technical & practical expertise to turn the dream of solid state lighting into reality.



OEM Module Guide

Issue 4.2008

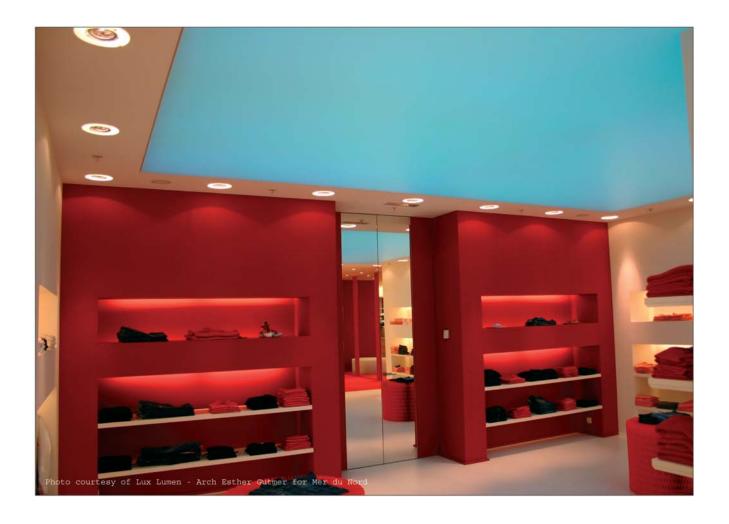
This guide is intended to give an overview of Dialight Lumidrives standard product offerings as of April 2008. If you have a requirement which is not covered by the standard products within this guide, please do not hesitate to contact us, as a large part of our business is built around getting companies to market with our innovative custom designed solutions.

Please contact us at info@dialight.com, or call us at 1-732-919-3119 to discuss your particular requirements and see how Dialight can best meet your needs.



Symbols and Definitions

Boxed Symbol	Explanation of the symbol
350 mA 	The minimum and maximum number of LEDs per channel that can be run at 350mA
700 mA	The minimum and maximum number of LEDs per channel that can be run at 700mA
•± 7-•	The minimum and maximum number of LEDs per channel that can be run at 1000mA
RGB DMX	Dimming (0-100%) is achieved via an on board DMX512 interface combined with PWM power control
RGB REMOTE	The driver is designed for use with RGB LEDs which can be controlled via a remote control
DIM	The driver has a 1-10V dimming facility
PHASE	Dimmable on Phase Cut Dimming
DIM	The LEDs can be dimmed via an external potentiometer
1 240V	The Lifesaver™ is a unique thermal feedback circuit which constantly monitors LED temperature ensuring reliability and protection
~	Input voltage range measured in V AC
12-24	Input voltage range measured in V DC
ta	The operating ambient temperature measured in degrees Celcius
tc	The max. permitted case temperature of the driver measured in degrees Celcius



Useful Information

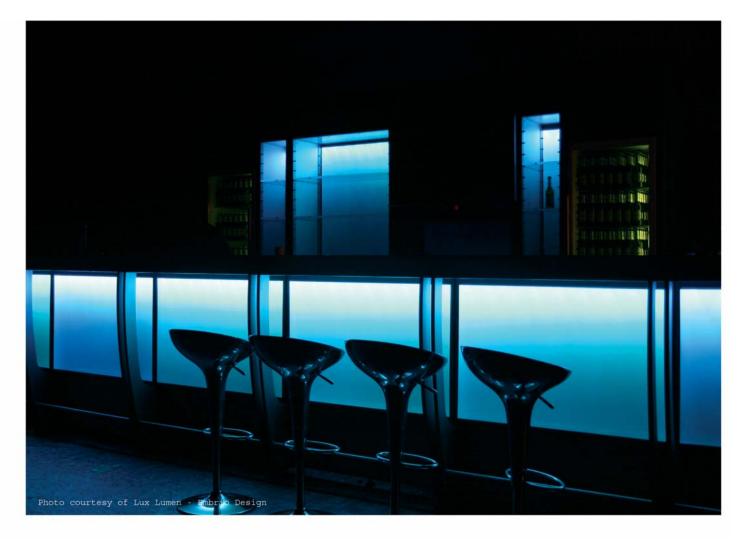
In January 2006 Lumidrives was acquired by Dialight PLC the world leader in applied LED technology. Moving forward the combined strengths of Dialight-Lumidrives means we are well positioned to drive the advancement of solid state lighting on a global basis, through product innovation, manufacturing excellence and dedicated customer support at a local level.

Dialight Lumidrives is a vertically integrated supplier providing system level modules in all technology areas required to create reliable LED lighing solutions.

Dialight Lumidrives has been providing leading edge technology for illumination applications since 2001. Our technology is working reliably in millions of applications worldwide.







Technology Trends

Dialight Lumidrives is committed to supplying customers with the best possible LED technology and associated value adding products. This technology driving our business is moving fast with month by month improvements in efficiency and power density. In this catalog, we only present products which are available to ship now, but in our development program we have many new products and concepts. To keep fully up to date with what innovation we can offer please visit our web site www.dialight.com and select "Solid State Lighting".

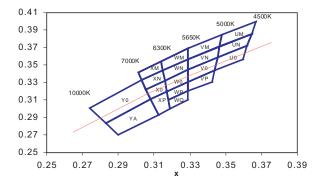
Dialight Lumidrives uses LEDs only from quality LED manufacturers who provide accurate data and reliability criteria. We select the LED on the basis of performance in a particular application e.g. flux, color performance, uniformity, thermal characteristics and cost. The type of LED used in a product may change to reflect the best total performance offered in the LED market.

Product Labeling and Binning

When LEDs are manufactured they are grouped or "binned" according to luminous flux, color (nm or CCT) and voltage. This means that when viewing LEDs from multiple bins, different colors or shades may be noticeable. This affects LEDs from all manufacturers and the industry is continuously researching and improving production methods to reduce variability.

During our normal production we select LEDs to minimize the effects of binning for our customers. Products produced by Lumidrives are uniquely labeled to identify the type and bin of LED used, should a replacement be required in the future.

The human eye is very susceptible to variations in white light, we recommend new users of white LEDs and users with large projects to contact us to discuss the details of the application. Dialight Lumidrives has extensive application expertise in projects with 100,000s of individual LEDs and has successfully managed LED selection in very demanding applications.

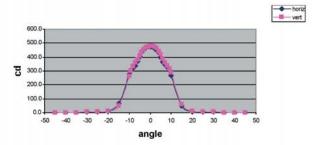


Photometrics

Dialight Lumidrives offers full photometric performance data for all standard light engines. Copies of this data are available upon request together with IES files for integration within lighting design programs.

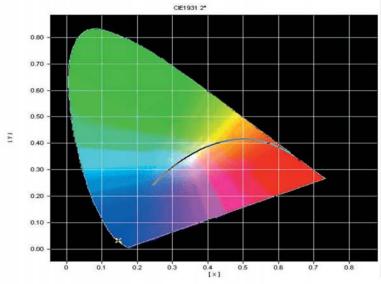
Part:	blue	no lens	Date:	
VAC:		mA	Distance:	

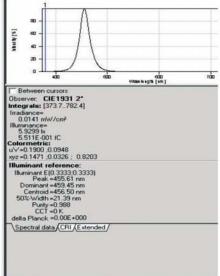
		thromaticity Dom wav Peak wav		ССТ	Flux
х		(nm)		(K)	lm
0.1471	0.0326	459.5	455.6	0	100.9



Data quoted for light output in our data sheets is based upon typical operating temperatures and conditions rather than manufacturer's junction temperature test conditions.

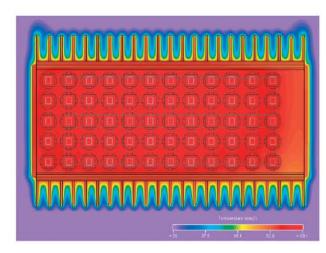
V Angle	cd	H Angle	
45		45	
40		40	
35		35	
30		30	
25		25	
20		20	
15		15	
10		10	
	420.5		
		0	
-2			
		-4	
-6			
-8		-8	
-10		-10	
-15		-15	
-20		-20	
-25		-25	
-30		-30	
-35		-35	
-40		-40	
-45	1.8	-45	



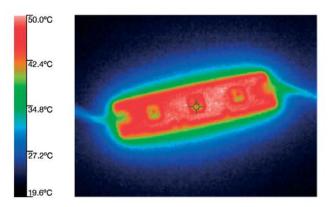


Thermal Management

Thermal management of LED products is critical to short term performance and longer term reliability. Generally most LED light engines contained in the catalog require additional heat sink components; the heat sink ultimately is the lighting fixuture in which they are fitted.



Dialight Lumidrives has experience in both retrofitting components to existing fixture designs, where possible, and advising customers on the optimum way to design new fixtures.



CAD Thermal Analysis of design prior to manufacture

Thermal analysis of assembled Light Engine

We select thermal management materials to achieve the best performance in the final application and combine this is many products with our unique lifesaver thermal protection and feedback.

Design and Integration

Dialight Lumidrives can support customers from the specification of an individual optic, driver or light engine through to integration of components into existing product lines or the design of new ranges to maximize the benefits of LED technology.

Where our range of standard solutions do not match the product requirements, we can offer custom designed solutions or derivatives in optics, drivers, light engines, or heat-sinks.



New Designs



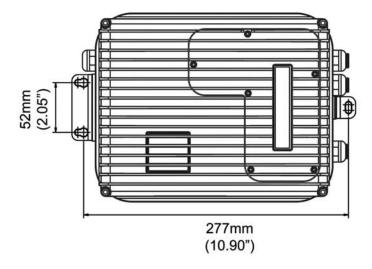
Exterior fixture using Lumidrives Color engine 36



Custom linear lighting solution



Colordriver® XP



The Colordriver XP is an IP67 rated, four-channel RGBA/RGBW led driver capable of driving up to 48 LEDs with total output power of up to 132W.

With 4 independent channels for wider color gamuts, the colordriver XP supports today's high power LED color mixing applications. Max output current per channel can be independently set at 350, 500, 700 or 1000ma allowing you to drive InGaN leds harder than AlInGaP. The Colordriver XP is DMX addressable and also comes with 38 pre-programmed shows. The unit accepts input voltage from 90-264VAC 50/60Hz and is rated for dry,

damp & wet environments.

Order codes: CDU-XP-DMX-CON-IP

Dimensions: L297mm x W198mm x

H82mm

Weight: 2.45kg



















ColordriverTM RFCC

Connection Conditions

1W LEDs per Master Unit	18
1W LEDs per Slave Unit	18
No. of Slaves per Master Unit	100
Max. Cable Length to LEDs	10m
Max. Cable Length between Drive Units	30m
Total Circuit Cable Length	1km

Colordriver RF Remote Control Specification

Battery Voltage/Type AAA alkaline cell >30,000 keypresses RF Frequency 433.92MHz

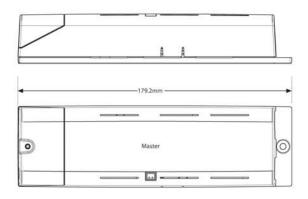
Modulation FM

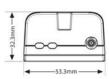
Dimensions L96.0mm x W47.0mm x H24.0mm

Operating Modes

Color Cycle Fixed Color On/Off

Two selectable memories





The Colordriver [™] RFCC is a three-channel RGB LED driver, which combines an intelligent power driver with an intuitive RF remote control. Both masters & slaves can drive up to 18 total 1W LEDs (3 channels X6). Up to 99 slaves can be added per master thus allowing control of up to 1800 LEDs with a single remote.

All Dialight Lumidrives Colordrivers come with the "Lifesaver™" system which (when used with "Lifesaver" equipped Dialight-Lumidrives Colorengines) monitors PCB temperature and automatically throttles back the drive current should the system overheat to ensure long LED lifetime.

Wall Mounted Control Unit

The control unit plugs directly into a slave module giving the same functions as a wireless remote. Additionally it can accept an input from a DMX control system. In this mode the front plate is disabled.

Order codes: RFCC Master:

RFCC Master: CDURF-3-35
RFCC Slave: CDUSL-3-35
RFCC Remote: CDURF-TX
SL Control: CDUSL-CU

Dimensions: L179mm x W53mm x

H32mm

Weight: 163g









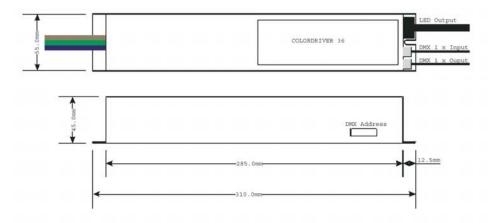








Colordriver[™] 36



The Colordriver $^{\text{TM}}$ 36 is a DMX controlled three-channel RGB LED driver, capable of driving up to a maximum of 36 LEDs.

All Dialight Lumidrives Colordrivers come with the "Lifesaver™" system which (when used with "Lifesaver" equipped Dialight-Lumidrives Colorengines) monitors PCB temperature and automatically throttles back the drive current should the system overheat to ensure long LED lifetime.

All connections to the driver are plug and socket for rapid installation.

Order codes: CDU-L-3-35-DMX

Dimensions: L310mm x W55mm x

H45mm

Weight: 1020g











PowerWhite Driver

The PowerWhite Driver is designed to run up to 45 LEDs at 350ma or 24 LEDs at 700ma from a 90-264Vac power supply. With up to 60W output power, built in thermal protection, no electrolytic capacitors, die-cast construction and IP67 rating, it is ideal for use in applications requiring high reliability, long life & rugged construction.

Order codes: PWD60-35-70

Dimensions: L191mm x W538mm x

H33mm

Weight: 670g







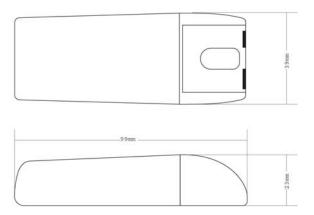








Microdriver 4



The Microdriver 4 is designed to drive up to 4 x 1W high powered LEDs at 350mA from a 110 - 240V AC power supply.

Order codes: MDU4-SC-35

Dimensions: L99mm x W39mm x

H23.5mm

Weight: 70g



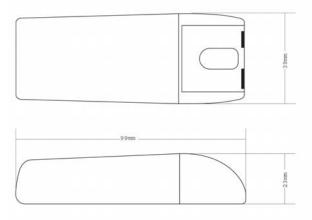








Microdriver 9



The MDU9-SC-35/70 is designed for driving 9 x 1W LEDs at 350mA or 4 x 3W LEDs at 700mA from a 110 - 240V AC supply.

Order codes: MDU9-SC-3570

Dimensions: L99mm x W39mm x

H23mm

Weight: 70g



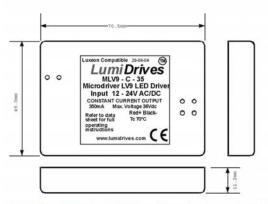








Microdriver LV9 & LV3







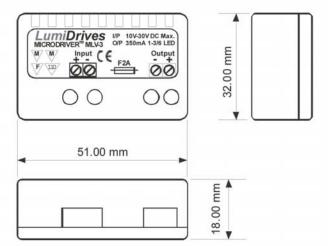












The Microdriver LV9 is a fully potted & dimmable unit ideal for driving high power LEDs from a range of low voltage power supplies between 12 to 24 volts. It will drive up to 9 x 1W LEDs at 350mA or 4 x 3W LEDs at 700mA.

For full output, the dimming link must be cut.

Order codes: MLV9-C-35

MLV9-C-70

Dimensions: L70.5mm x W49mm x

H11.2mm

Weight: 65g

The Microdriver LV3 is ideal for driving high power LEDs from a range of low voltage power supplies between 10 to 30 VDC. It will drive up to 3 x 1W LEDs at 350mA or 4 x 1W at 700mA.

Order codes: MLV3-C-35

MLV3-C-70

Dimensions: L51mm x W32mm x

H11.2mm

Weight: 18g







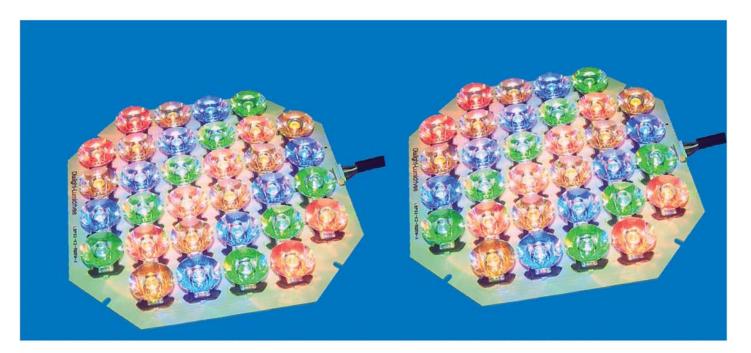








COMING SOON



K2 Lumispot Light Engines

Code 1	# of LEDs	Code 2					
		12		Red / Green / Royal Blue / Amber			
LSP	00	K2	RGBW	Red / Green / Royal Blue / Cool White			
32		www	All 4 channels Cool White				

LED output data in Lumens or mW							
Color	@ 350mA	@ 700mA	@ 1000mA				
Red	361m		n/a				
Green	361m	601m	801m				
Royal Blue	176mW	294mW	380mW				
Amber	361m	601m	n/a				
Cool White	361m		801m				

LSP12 - K2 - RGBA (example only)
Create your own order code by using the above table.

The Lumispot K2 light engines are clusters of 12 or 32 Luxeon® K2 LEDs in either RGBA, RGBW, or WWWW colors. Ideal for creating powerful beams of white or color changing light with wide gamuts, they come complete with thermal protection, input cables & 3 degree spot optics. Secondary optics can also be added to create wide, diffuse, or oval optical patterns.

Lumispot K2 12-up

Dimensions: L127mm x W100mm x

H15.5mm

Lumispot K2 32-up

Dimensions: L180mm x W180mm x

H15.5mm

Recommended sub-lenses:

OPAA-1-DF 6 degree diffused sub-lens
OPAA-1-WSL 12 degree wide sub-lens
OPAA-1-OSL 4x27 degree oval sub-lens

All angles are half divergence

Recommended driver:

CDU-XP-DMX-CON-IP Colordriver XP









(Exception (Exception



Color Engines

Со	de		Color	Opt		Lumens/mW
CE	3C		Red Green Blue	005 015 025 520 xxx	5° 15° 25° 5° x 20° none	105 126 528 mW
CE	6C		Red Green Blue	005 015 025 520 xxx	5° 15° 25° 5° x 20° none	210 252 1056 mW
CE	12C	R G B	Red Green Blue	005 015 025 520 xxx	5° 15° 25° 5° x 20° none	420 504 2112 mW
CE	18C		Red Green Blue	005 015 025 520 xxx	5° 15° 25° 5° x 20° none	630 756 3168 mW
CE	36C		Red Green Blue	005 015 025 520 xxx	5° 15° 25° 5° x 20° none	1260 1512 6336 mW
CE	12L	R G B	Red Green Blue	005 015 025 520 xxx	5° 15° 25° 5° x 20° none	420 504 2112 mW
CE	18L		Red Green Blue	005 015 025 520 xxx	5° 15° 25° 5° x 20° none	630 756 3168 mW



Note- All Color Engine models are typically sold as "XXX" versions with optic holder but no optic. F-form 005, 015, 025 or 520 optics can be purchased and installed seperately.

CE3C - RGB - XXX (example only)

Create your own order code by using the above table.











The Color Engine is an integrated Red, Green and Blue light engine, which enables the creation of dynamic color changing applications using LED technology. It is available in a choice of five circular and two linear modules and is complete with optics and optic holders. There are also four different beam angle options for the optics.

Noted models come with the "Lifesaver™" system which (when used with any Dialight-Lumidrives Colordriver) monitors PCB temperature and automatically throttles back the drive current should the system overheat to ensure long LED lifetime.

Color Engine 3C

A circular Color Engine complete with 1 each of Red, Green & Blue LUXEON® I LEDs.

Dimensions: L48mm diameter H15.5mm

Color Engine 6C

A circular Color Engine complete with 2 each of Red, Green & Blue LUXEON® I LEDs.

Dimensions: L69mm diameter H15.5mm

Color Engine 12C

A circular Color Engine complete with 4 each of Red, Green & Blue LUXEON® I LEDs.

Dimensions: L90mm diameter H15.5mm

Color Engine 18C

A circular Color Engine complete with 6 each of Red, Green & Blue LUXEON® I LEDs.

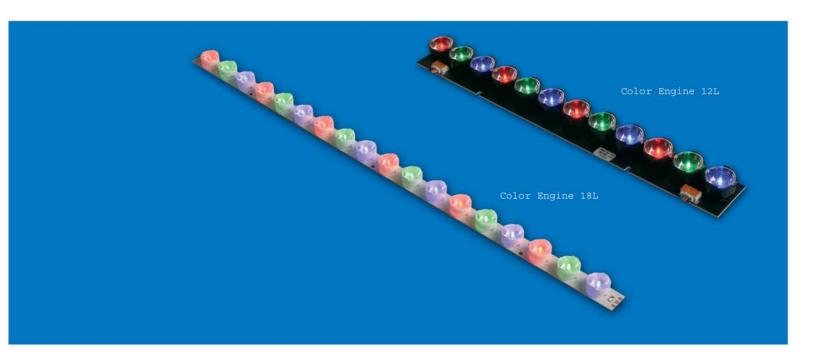
Dimensions: L110mm diameter H15.5mm

Color Engine 36C

A circular Color Engine complete with 12 each of Red, Green & Blue LUXEON® I LEDs.

Dimensions: L120mm diameter

H15.5mm



Color Engines cont.

Color Engine 12L

A linear Color Engine complete with 4 each of Red, Green & Blue LUXEON® I LEDs & CT4 Quick Connects for easy wiring & installation.

Dimensions: L290mm x W35mm x

H15.5mm

Color Engine 18L

A linear Color Engine complete with 6 each of Red, Green & Blue LUXEON® I LEDs & CT4 Quick Connects for easy wiring & installation.

Dimensions: L590mm x W22.5mm x

H15.5mm

Note- All Color Engine models are typically sold as "XXX" versions with optic holder but no optic. F-form 005, 015, 025 or 520 optics can be purchased and installed seperately.







Powerwhite Modules

Code		Driver LED Color		Optic		
C1 LML6 LV			CW	Cool White		5 degree spot
		Requires constant current driver	Cool Willia		MD	15 degree medium
			NW	Neutral White	WD	
			ww	Warm White	FR	7 degree frosted spot
				All ang	lles are half divergence	

LED data								
Color	min output @ 350mA	min output @ 700mA	Median color temp					
Neutral White	70 LM	130 LM	3950k ("S" bins)					

Powerwhite modules represent the latest best innovation in LED light engines. Incorporating the best readily available flux Luxeon® REBEL LEDs, Powerwhite modules are truly lighting grade. Built in primary heatsinking, optics, thermal protection and available on-board constant current drivers along with quick connect cabling systems allow for a complete plug and play LED lighting solution.

LML6-C1 series

6 Rebel LEDs per module Requires constant current driver

Recommended driver:

PWD60-35-70 Powerwhite Driver

Can be driven at 350mA or 700mA

LML6-LV series

6 Rebel LEDs per module Comes with onboard 350mA constant current driver Input voltage 8-17VDC / 12-24VAC Power consumption 8.5W per module

Dimensions: L297mm x W38mm x

(both series) H15mm







LML6 - C1 - NW - SP (example only)
Create your own order code by using the above table.



Lumispot Light Engines

Code				Optics		Lumens/mW
LSP	1	R	Red	005	5°	35
LSP				015	15°	
LSP				025	25°	
LSP				520	5° x 20°	
LSP						
LSP				xxx	none	
LSP				005		
LSP				015	15°	
LSP				025	25°	
LSP				520	5° x 20°	
LSP						
LSP				xxx	none	
LSP				005		
LSP				015	15°	
LSP				025	25°	
LSP				520	5° x 20°	
LSP						
LSP	6	WW	Warm White	xxx	none	
LSP				005		
LSP				015	15°	
LSP				025	25°	
LSP				520	5° x 20°	
LSP						
LSP				xxx	none	

LSP9 - R - XXX (example only)
Create your own order code by using the above table.

Note- All Lumispot light engines are typically sold as "XXX" versions with optic holder but no optic. F-form 005, 015, 025 or 520 optics can be purchased and installed seperately.

The Lumispot Light Engines are available in a range of circular LED arrays complete with optics and white optic holders. They come in a choice of six different single color LEDs and four different beam angles.

Lumispot 1

A single LUXEON[®] I LED with optic and optic holder on PCB, which has 4 notches cut out of the profile to allow for rear cable entry without encroaching on the circumference of the PCB.

Dimensions: L21.5mm diameter

H15.5mm

<u>Lumispot 3</u>

A group of 3 LUXEON $^{\hbox{\scriptsize (B)}}$ I LEDs with optics and optic holders.

Dimensions: L48mm diameter

H15.5mm

Lumispot 6

A group of 6 LUXEON $^{\mbox{\scriptsize 8}}$ I LEDs with optics and optic holders.

Dimensions: L69mm diameter

H15.5mm

L23mm inner diameter

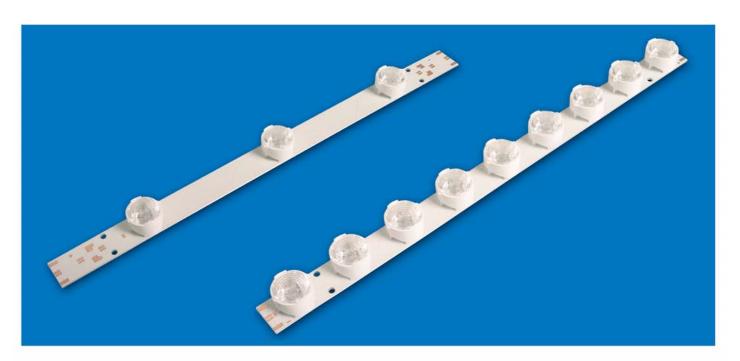
Lumispot 9

A group of 9 LUXEON $^{\scriptsize (8)}$ I LEDs with optics and optic holders.

Dimensions: L90mm diameter

H15.5mm





Lumiline Light Engines

Code	No. of LEDs	Color		Optics		Lumens/mW
LLN	3		Red	005	5°	105
LLN	3			015	15°	
LLN	3			025	25°	
LLN	3			520	5° x 20°	
LLN	3					
LLN	3		Warm White	xxx	none	
LLN	9		Red	005	5°	315
LLN	9			015	15°	
LLN	9			025	25°	
LLN	9			520	5° x 20°	
LLN	9					
LLN	9		Warm White	xxx	none	

LLN9 - R - XXX (example only)
Create your own order code by using the above table.

Note- All Lumiline light engines are typically sold as "XXX" versions with optic holder but no optic. F-form 005, 015, 025 or 520 optics can be purchased and installed seperately.

The Lumiline Light Engines are available in two linear module types complete with optics and white holders to match the white surface of the PCB. they come in a choice of six different single color LEDs and four different beam angles.

Modules with production dates of 5/2007 or later come with 12" lead wires.

Lumiline 3

A linear array of three LUXEON® I LEDs.

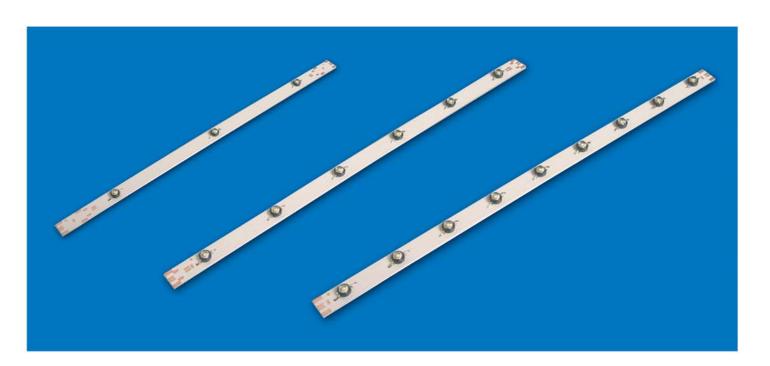
Dimensions: 324mm x 15.5mm

Lumiline 9

A linear array of nine LUXEON® I LEDs.

Dimensions: 324mm x 15.5mm





Lumilight Light Engines

Code	No. of LEDs	Color		Lumens/mW
LLT	3	R	Red	105
LLT	3			
LLT	6	R	Red	210
LLT	6			
LLT	9	R	Red	315
LLT	9			
LLT	9	WW		

LLT9 - R (example only)
Create your own order code by using the above table.

The Lumilight Light Engines are available in a range of three linear modules and come in a choice of six different single color LEDs. Each LED linear array will fit into a standard 15mm wide aluminium "U" channel and is designed to be attached to a heatsink structure with thermal adhesive or double-sided thermal tape. It offers a wide 120° viewing angle.

Modules with production dates of 5/2007 or later come with 12" lead wires.

Lumilight 3

A linear array with three LUXEON® I LEDs.

Dimensions: 324mm x 13.5mm

Lumilight 6

A linear array with six LUXEON® I LEDs.

Dimensions: 324mm x 13.5mm

Lumilight 9

A linear array with nine LUXEON® I LEDs.

Dimensions: 324mm x 13.5mm





LUXEON® K2 BASED HL16

HL16K Single Color Selection Guide with or without built in driver

Code	Driver		Color	Lumens/mW @ 350mA
		R	Red	105
	D = Onboard Driver			
HL16K	(blank) = Requires			
(Diatir	CC Driver			

HL16K - D - R (HL16 with driver in Red)
Create your own order code by using the above table.

HL16K - R (code without built in driver)

HL16K - RGB (color changing option)

A new and innovative range of compact lighting modules utilizing LUXEON[®] K2 LEDs designed to retrofit to existing MR16 based products. The HL16 Series incorporate a newly developed triple lens which is available in a choice of beam angles by means of an interchangeable sub-lens system. See page 24 for sub-lens changes.

HL16KD and HL16K

The HL16K can be used with our standard range of drivers. The HL16KD can be connected directly to a 12 - 24V AC/DC source.

The Dialight Lumidrives HL16D comes with the "Lifesaver™" system which monitors PCB temperature and automatically throttles back the drive current should the system overheat to ensure long LED lifetime.

Dimensions:

Height: 35.5mm

Diameter of body: 46.5mm

Diameter of lens: 50mm

HL16K RGB

A compact light fitting equipped with RGB LEDs to provide a full color change facility.

Dimensions:

Height: 35.5mm

Diameter of body: 46.5mm

Diameter of lens: 50mm











HL16

HL16 Single Color Selection Guide with or without built in driver

Code	Driver		
	D = Onboard Driver		
HL16			
TLIO	(blank) = Requires		
	CC Driver		

HL16 - D - R (HL16 with driver in Red)
Create your own order code by using the above table.

HL16 - R (code without built in driver)

HL16 - RGB (color changing option)

A new and innovative range of compact lighting modules utilizing the latest best available high flux LEDs designed to retrofit to existing MR16 based products. The HL16 Series incorporate a newly developed triple lens which is available in a choice of beam angles by means of an interchangeable sub-lens system. See page 24 for sub-lens changes.

HL16D and HL16

The HL16 can be used with our standard range of drivers. The HL16D can be connected directly to a 12 - 24V AC/DC source.

The Dialight Lumidrives HL16D comes with the "Lifesaver™" system which monitors PCB temperature and automatically throttles back the drive current should the system overheat to ensure long LED lifetime.

Dimensions:

Height: 35.5mm

Diameter of body: 46.5mm

Diameter of lens: 50mm

HL16 RGE

A compact light fitting equipped with RGB LEDs to provide a full color change facility.

Dimensions:

Height: 35.5mm

Diameter of body: 46.5mm

Diameter of lens: 50mm









LUXEON® K2 BASED HL11

HL11K Single Color Selection Guide

Code			Lumens/mW
HL11K HL11K HL11K HL11K			

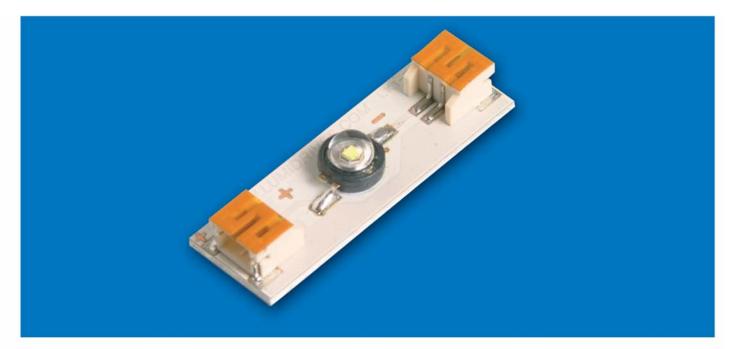
HL11K - R (example only)
Create your own order code by using the above table.

A new and innovative range of compact lighting modules utilizing LUXEON $^{\tiny 6}$ K2 LEDs designed to retrofit to existing MR11 based products.

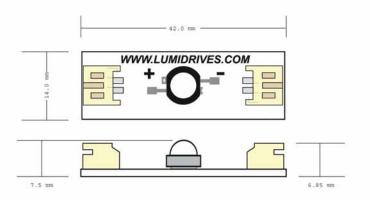
The HL11K's incorporate a newly developed spot base module lens, which is available in a choice of beam angles by means of an interchangeable sub-lens system. See page 24 for sub-lens details.







Single Color LinkLEDs



Co	ode	Color	
LK1	1		
LK1		Warm White	

LK1 - 1 - R (example only)
Create your own order code by using the above table.

The LinkLED™ modules form the basis of an interlinking single color system of LUXEON® I LEDs which is compact and easy to install. The LinkLED is equipped with a thermal adhesive backed PCB for direct assembly to metal surfaces and pre-assembled CT2 series connecting blocks. It offers a wide beam angle of 120°. Use CT2 "Quick Connect" cables to group LinkLEDs together in any shape or size you need.

Dimensions:

L42mm x W14mm x H6.85mm











K2 LinkLEDs

Part Number	Color	Optic	Dimensions (mm) (L x W x H)
LK2-RGB	Red / Green / Royal Blue		54 x 28 x 7.5
LK4-RGBA	Red / Green / Royal Blue / Amber		70 x 30 x 7.5
LK4-RGBW	Red / Green / Royal Blue / Cool White		70 x 30 x 7.5
LKK2-OP-RGB	Red / Green / Royal Blue		94 x 28 x 15.5
LKK2-OP-RGBA	Red / Green / Royal Blue / Amber		121 x 30 x 15.5
LKK2-OP-RGBW	Red / Green / Royal Blue / Cool White		121 x 30 x 15.5

LED output data in Lumens or mW			
Color	@ 350mA	@ 700mA	@ 1000mA
	361m	601m	
Green	361m	601m	801m
Amber	361m	601m	n/a
	361m	601m	801m

The Linkled K2 system of RGB, RGBA or RGBW LEDs are ideal for creating flexible sizes & shapes of color changing light. Available with or without 3 degree spot optics, all Linkled K2 are easily assembled with CT8 "quick connect" cables. Equipped with LUX-EON® K2 LEDs, Linkled K2 can be driven hard to achieve exceptional effects. Secondary optics can also be added to models with optics to create wide, diffuse, or oval optical patterns.

Recommended sub-lenses:

OPAA-1-DF 6 degree diffused sub-lens OPAA-1-WSL 12 degree wide sub-lens OPAA-1-OSL 4x27 degree oval sub-lens

All angles are half divergence

Recommended driver:

CDU-XP-DMX-CON-IP Colordriver XP



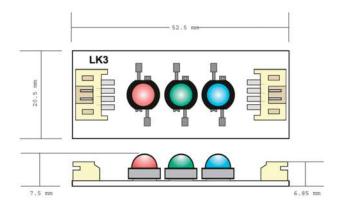




Amber)



RGB LinkLEDs



The RGB LinkLED™ high powered LED forms the basis of an interlinking Red, Green, Blue color system which is compact and easy to install. The LinkLED is equipped with a thermal adhesive backed PCB for direct assembly to metal surfaces and pre-assembled CT4 series connecting blocks. It offers a wide beam angle of 120°. Use CT4 "Quick Connect" cables to group LinkLEDs together in any shape or size you need.

Order code: LK-3-RGB

Dimensions: L52.5mm x W21mm x

H7.85mm

LinkLED RGB is also available with optics.

(Not pictured)

Order code: LKOP-RGB-XXX







Linking Cables & Blocks

RJ45 Cables & Blocks

RJ45 cables are used to transmit control signals between RFCC master & slave ColorDrivers and also to drive HL16RGB modules. Cables are available to convert the molex output from the ColorDriver to an RJ45 format, from the RJ45 format to the HL16RGB input, & from a DMX signal to RJ45.

CDL-M3M	3 meter Molex male to male
RJ45-XLRF	Female DMX to RJ45 converter
RJ45-XLRM	Male DMX to RJ45 converter
RJ45-MLXF	Male Molex to RJ45 female
RJ45-MLXM	Male Molex to RJ45 male
RJ45-CON-ASS	RJ45 to HL16RGB connector block
RJ45-C	Termination plug for last RJ45-CONN-ASSY block
RJ45-05	RJ45 to RJ45 cable, 0.5 meters
RJ45-2	RJ45 to RJ45 cable, 2.0 meters
RJ45-5	RJ45 to RJ45 cable, 5.0 meters

Powerwhite Linking Cables

LML6-CON-CAB	Entry cable, driver to 1st module
LML6-TER-CAB	End plug (required)
LML6-LV-CON-CAB	Entry cable, driver to 1st module (For LV modules)

LML6-LV-M2M-CAB Connection cable (module to module)

(For LV modules)

Molex Cables & Splitters

Molex cables are used to connect from the Dialight Lumidrives ColorDrivers to the various RGB Color engines & RGB Linkleds. A range of splitter blocks is available for driving multiple Color Engines from a single Color Driver.

CDL-M3M	3 meter Molex male to male
CDL-M3E	3 meter Molex male to wires for circular ColorEngines
CDJB3	3 way Molex splitter (female receptacles in & out)
CDJB7	7 way Molex splitter (female receptacles in & out)
CDJB-BL	End plug for Molex splitters

CT2 Linking Cables

CT2-E300

CT2-C

The CT2 linking cables are the interlink connection cables for the LumiDrives LinkLED™ range of LED lighting products & any other light engines equipped with CT2 "Quick Connects". These cables are pre-connected with a 2 way plug to match the socket used on the LinkLED™ The range includes both interconnecting cables and end connector.

2-way input lead

2-way common connector

CT2-100	2-way link lead 100 mm
CT2-200	2-way link lead 200 mm
CT2-1000	2-way link lead 1000 mm

CT4 Linking Cables

The CT4 linking cables are the interlink connection cables for the LumiDrives RGB LinkLED™ Linear ColorEngine ranges of LED lighting products. These cables are pre-connected with the 4 way plug to match the socket used on the LinkLED™. The range includes both interconnecting cables and end connector.

CT4-MLFM	4-way connection to Molex Male
CT4-MLFX	4-way connection to Molex Female
CT4-100	4-way link lead 100 mm
CT4-200	4-way link lead 200 mm
CT4-C	4-way common connector
CDL-M3M	8-way Molex – male to male

CT8 Linking Cables

CT8-1.25-100	8-way link lead 100mm
CT8-1.25-200	8-way link lead 200mm
СТ8-СК	8-way end connector
CT8-1.25-3E	8-way link lead to wire ends (3m)



LUXEON® REBEL Optics

LUXEON REBEL OPTICS RANGE

Dialight Lumidrives have created a line of optics designed to harness the power of the smallest available high power LED on the market, the LUXEON Rebel. Available as either 21mm TIR optics, or our incredibly small 11mm collimators, all rebel optics are designed for ease of use with auto-alignment features to ensure correct focal points and adhesive backing for easy installation.

TIR Optics Part Numbers

OPC1-1-SPOT	Spot Optic	
OPC1-1-MED	Medium Optic	
OPC1-1-WIDE	Wide Optic	
OPC1-1-OVAL	Oval Optic	8° x 25°
OPC1-1-SDIF	Frosted Spot Optic	

Half divergence angles

11mm Collimating reflectors Part Numbers

OPC1-1-COL-SP	Spot Optic	7°
OPC1-1-COL-WD	Wide Optic	13°

Half divergence angles



L₂ Optics Range

Contents

24 L2 Optics Introduction

25-26 Adhesived Backed & Triples

26 F-Form

27 Special Lenses

Dialight Lumidrives offers a comprehensive range of lenses which have been tailored to suit various LEDs and common lighting applications used across the globe. All the L₂Optics lenses are made from optical grade PMMA (acrylics) to ensure excellent optical properties, as well as long-term material stability and durability. Two distinctive lens ranges have been developed: the F-Form and OPT series.

F-Form

The F-Form range consists of 20mm lenses and holders that have been specifically designed for use with:

- LUXEON I STAR, III STAR, V STAR & LUXEON® K2
- Osram Golden & Platinum Dragon

The holders position themselves easily and accurately on top of the LED and can be simply fastened onto the PCB by using an appropriate adhesive.

OPT Range (pictured above)

The OPT range consists of a unique adhesive backed spot base module with a selection of sub-lenses providing different beam angles. The series is available not only in a single but also a triple lens module complete with a choice of two sub-lenses. The optics are tailor-made for specific use with the following LED families:

- CREE XLamp®
- LUXEON® K2
- Nichia
- Osram Golden Dragon

L₂ Optics OPT Series 1

Diffuser Sub Ler

L₂ Optics OPT Series 3



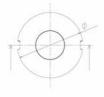
Oval Sub Lens



Base Spot Lens



Base Spot + Sub Lens





L₂Optics adhesive backed OPT Series 1 base lenses position easily and accurately over the LED. They are easy to fix onto the PCB using the integral self-adhesive pad.

The snap-lock-sub-lenses attach easily, are very secure and do not move or drop-out, once in place.

There are three different sub-lens illumination patterns available: spot, wide and oval.



Half divergence angles

OPK2-1-003	LUXEON Spot Base Module	3°
OPIO-1-011		
OPTX-1-006		
OPGD-1-002	Osram Golden Dragon Spot Base Module	2°
OPK2-3-006	LUXEON Series Triple Spot Base Module	6°
OPIO-3-011	Nichia Triple Spot Base Module	11°
OPIO-3-011 OPTX-3-008	Nichia Triple Spot Base Module Cree XLamp Triple Spot Base Module	11° 8°

Sub-Lenses*

OPAA-1-DF	Single Spot Diffuser Sub-Lens	
OPAA-1-WSL		
OPAA-1-OSL		
OPTL - 3 - WSL	Triple Wide Sub-Lens	12°
OPTL- 3 - MSL	Triple Micro Sub-Lens	Micro

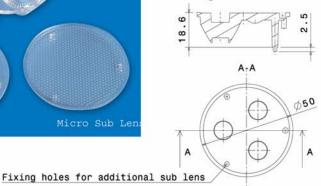
^{*} Angles listed for sub-lenses are based upon LUXEON emitters & base modules.





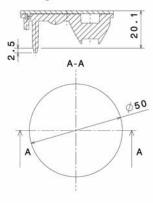
L₂Optics OPT Series 3 spot triple is fixed over the LEDs on the PCB using locating pegs.

Base Spot Lens



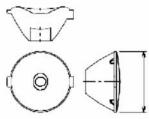
The snap-lock sub-lenses attach easily, using locating pegs into the base lens.

Base Spot + Sub Lens



F-Form Lenses





 $L_2 \mbox{Optics 20mm F-Form Series lenses,} \mbox{made from optical grade PMMA} (acrylics) with an optical efficiency of 85% minimum. When used with the appropriate lens holders (below), these are suitable for LUXEON I, III, V & LUXEON <math display="inline">\mbox{K2}$ and Osram Golden & Platinum Dragon.

Lens - Part Numbers

Half divergence angles

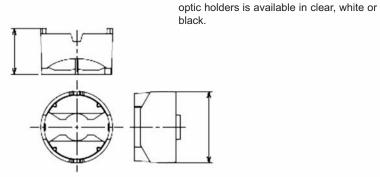
OP-005	20mm Series Spot Optic	
OP-015	20mm Series Medium Optic	
OP-025	20mm Series Wide Optic	
0P-520	20mm Series Oval Optic	

There are different holders for Osram Golden & Platinum Dragons and various LUXEON emitters and stars. Each of these

Lens Holders







Optics - Part Numbers

OH-ES1-CL OH-ES1-WH OH-ES1-BK	Optic Holder - LUXEON I, III, V or Star 1W Optic Holder - LUXEON I, III, V or Star 1W Optic Holder - LUXEON I, III, V or Star 1W	
OH-S35-CL OH-S35-WH OH-S35-BK	Optic Holder - LUXEON Star III or V Optic Holder - LUXEON Star III or V Optic Holder - LUXEON Star III or V	Clear White Black
OH-K2-CL OH-K2-WH OH-K2-BK	Optic Holder - LUXEON K2 Emitter Optic Holder - LUXEON K2 Emitter Optic Holder - LUXEON K2 Emitter	Clear White Black
OH-GD-CL OH-GD-WH OH-GD-BK	Optic Holder - Osram Golden Dragon Optic Holder - Osram Golden Dragon Optic Holder - Osram Golden Dragon	Clear White Black
OH-PD-CL OH-PD-WH OH-PD-BK	Optic Holder - Platinum Dragon Optic Holder - Platinum Dragon Optic Holder - Platinum Dragon	Clear White Black

Special Lenses



The flare lens has been designed for use with all Emitters. The illumination pattern is horizontally very wide, but vertically extremely narrow - $\pm 10^{\circ}$ x 80°

Flare Lens

OP-FL Flare Lens 10° x 80°

Examples of other Special Lenses



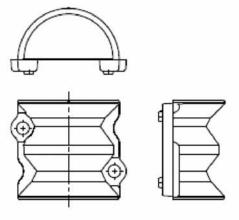


3-Cell Optic

Side Emitting Lens



7-Cell Optic



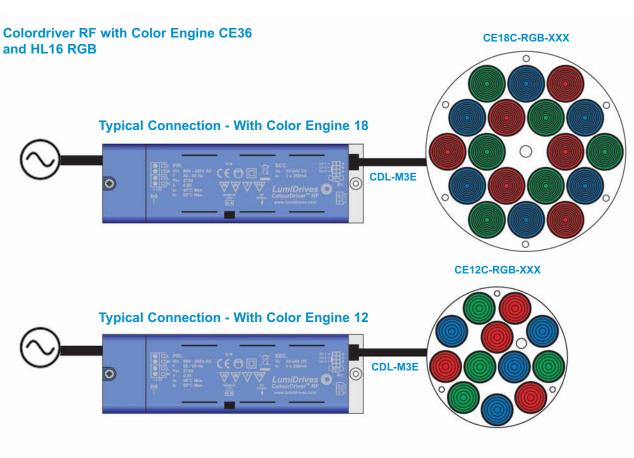
Dialight Lumidrives is happy to design special customized lenses to meet your specific needs. Please contact us for a quotation.

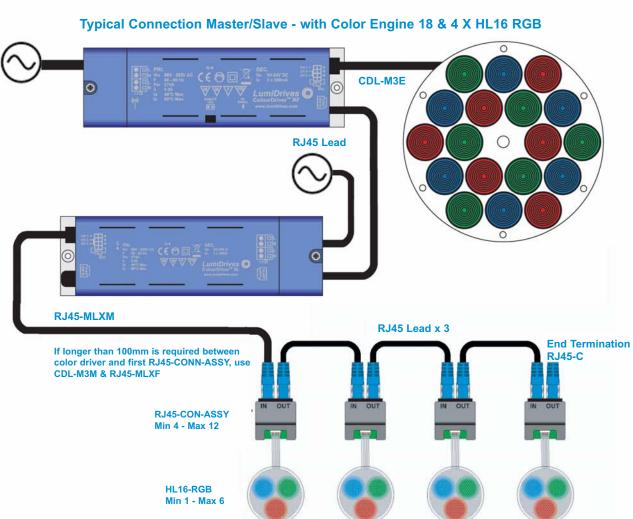


Wiring Diagrams

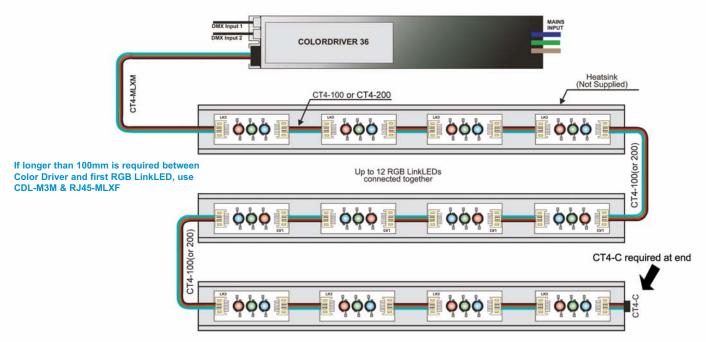
Contents

36	Colordriver RFCC with Colorengine Circular and HL16RGB
37	Colordriver 36 with RGB LinkLEDs - or with multiple Colorengine Circular
38	Microdriver 9SC with Lumilights
38	Colordriver RFCC installation diagrams
39	Microdriver 9SC with Lumilines
40	Microdriver 9SC with Lumispots
41	LinkLEDs

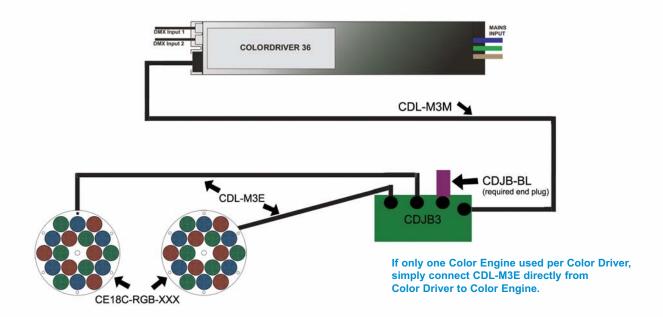




Colordriver 36 with RGB LinkLEDs[™] or with multiple Color Engine Circular

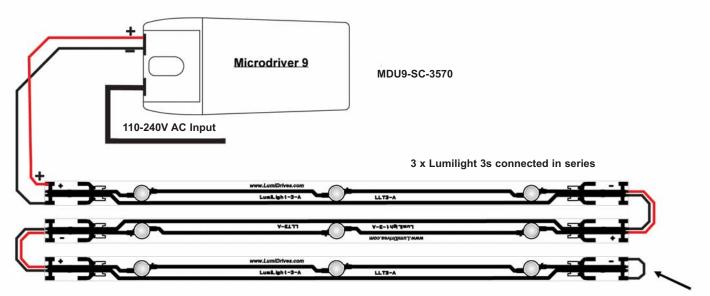


LinkLED-RGB Typical Connection



Microdriver 9SC with Lumilights

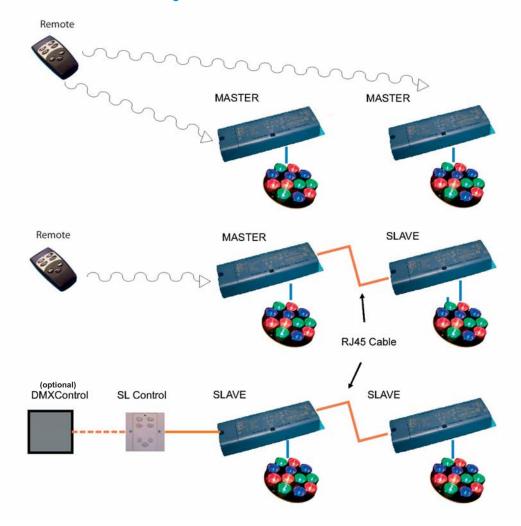
Lumilight 3 - Typical Connection



Recommended minimum wire gauge = AWG 24

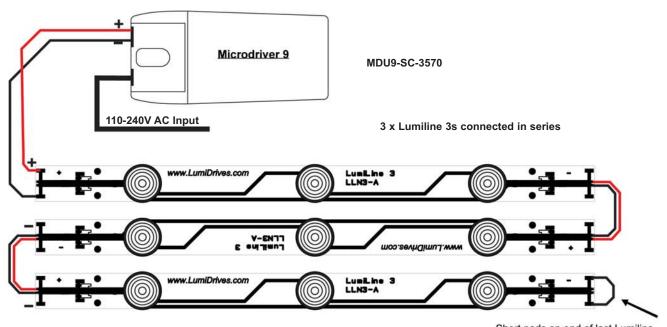
Short pads on end of last Lumilight with wire or solder. (Required)

Colordriver RFCC Installation Diagrams



Microdriver 9SC with Lumilines

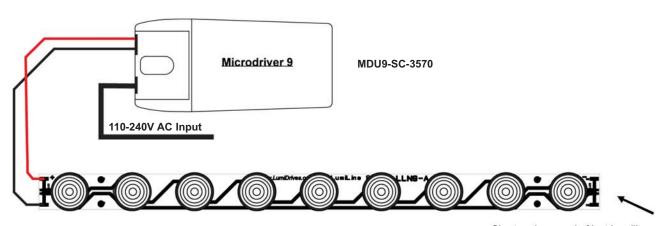
Lumiline 3 - Typical Connection



Recommended minimum wire gauge = AWG 24

Short pads on end of last Lumiline (Required)

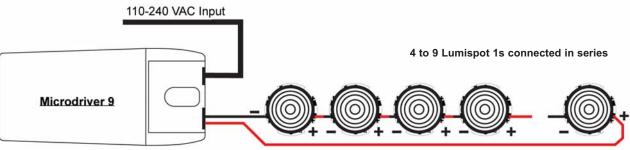
Lumiline 9 - Typical Connection



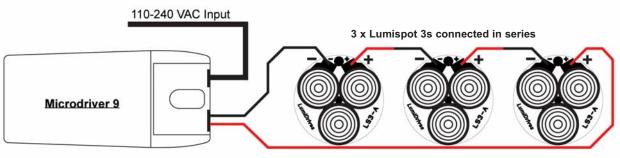
Short pads on end of last Lumiline (Required)

Microdriver 9SC with Lumispots

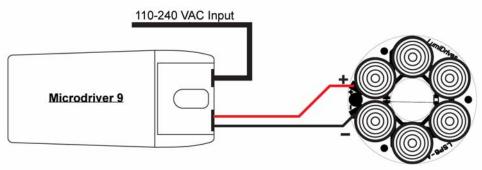
Lumispot 1 - Typical Connection



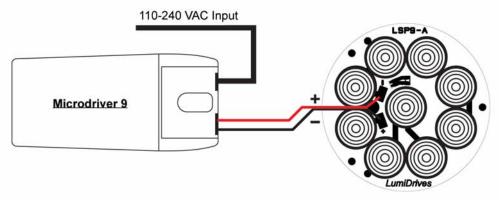
Lumispot 3 - Typical Connection

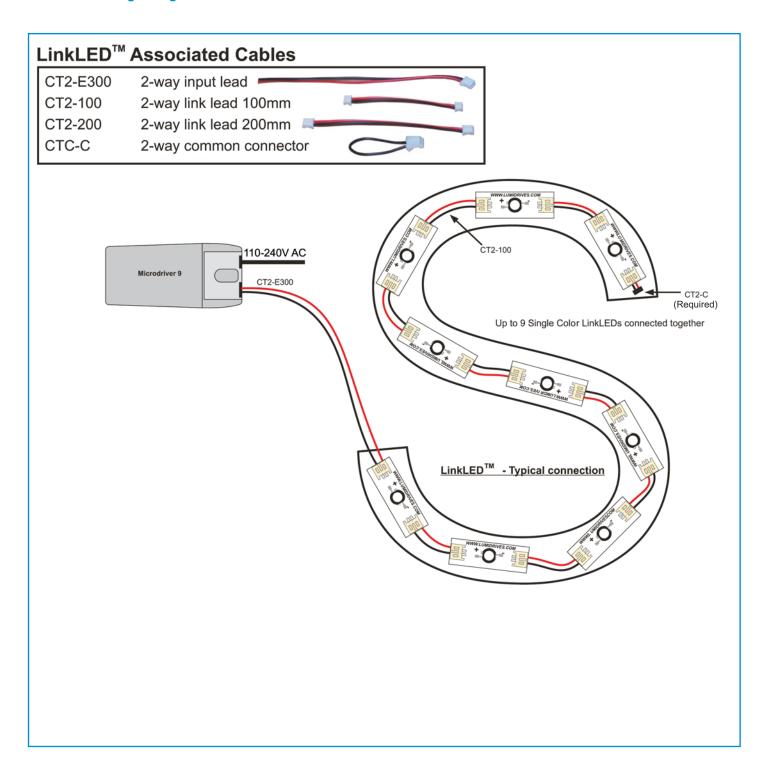


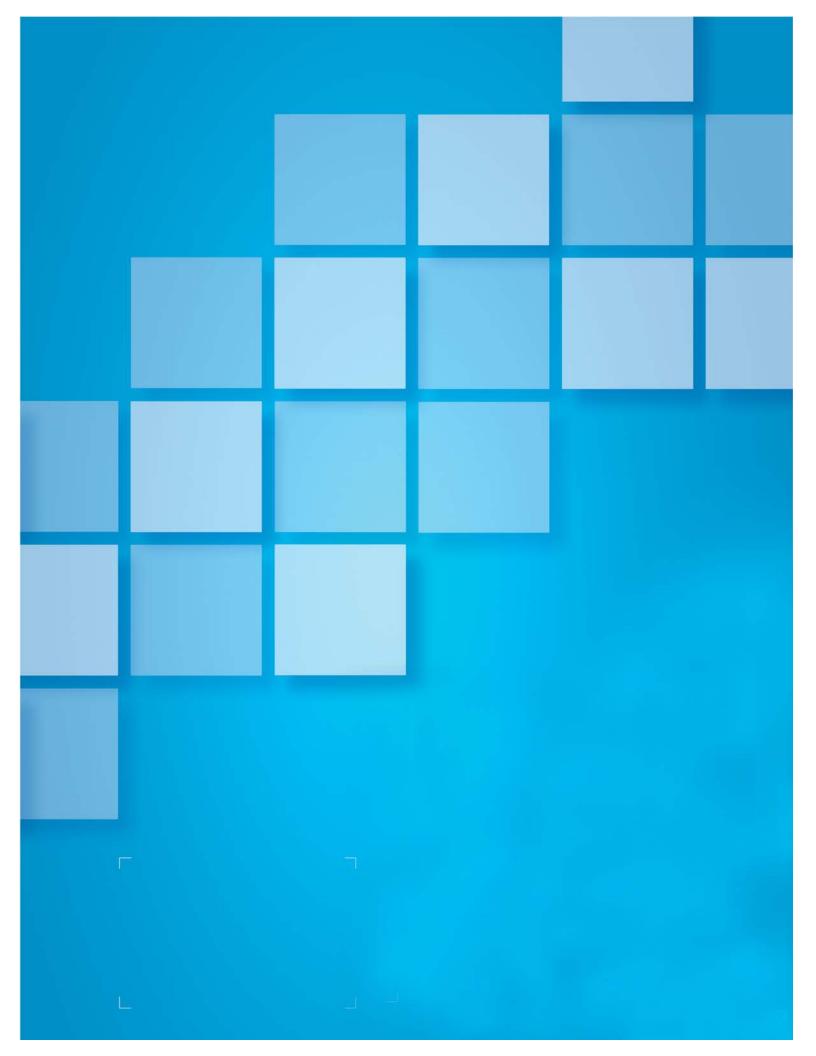
Lumispot 6 - Typical Connection



Lumispot 9 - Typical Connection







AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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