## LED LIGHTING TECHNOLOGY Introduction

From LED's earliest years, Crystal Fountains has been at the forefront of exploring LED lighting technology for water features. LED lighting is an exciting new way of thinking about and installing a lighting system. At the heart of each LED (Light Emitting Diode) is a microprocessor that emits light when an electric current passes through it. Can be programmed individually, digital light shows can switch with incredible speed, variation and accuracy. With RGB color (Red, Green, Blue) you have a virtually unlimited palette of color to work with!

Other advantages of LED lighting:

- · Lower power requirements
- · High Efficiency/Produces Less Heat
- · Long life/Saves Maintenance Time and Costs
- · Limitless Design Flexibility with Color Intensity/Variety
- · Can individually control each LED lamp for limitless color sequencing potential

LED lighting technology requires a systems approach. Crystal Fountains can supply all the components you require and assist you with product selection, sequenced show programming or technical support. LED Lighting works as an integrated total networked lighting system and includes 3 elements:

- LED Light Fixture and/or Nozzle
- · Animation Panel with Power/Data supply keypad
- · Power/Data cable

LED LIGHTING TECHNOLOGY Types of LED Lights LED002 Series - Compact LED Light LED007 Series - Ultra Compact LED Light 144 LED020 Series - 120VAC/60W Low Profile White Underwater LED Light 145 LED052 Series - 12V/30W LED Color Changing Light 147 LED053 Series – 24VDC/30W LED Color Changing Light 149 LED054 Series - 24VDC/30W LED White Light - Wet and Dry LED055 Series - 12VDC/18W LED White Light 153 LEDo60 Series - 24VDC/60W LED Color Changing and White Light - Wet and Dry 155 LED160 Series - 12V/30W RGB or White LED Ring Light

LED190 Series – 12V/30W Niched RGB or White LED Playdeck Light











### **Types of LED Lights**

rystal Fountains manufactures a range of leading LED lighting products that can stand alone as lighting fixtures or have a combination of LED light and nozzle effect all in one unit. In this section we will show you our family of LED lights only.

Not all LED lights are created equally! Crystal Fountains manufactures a range of the brightest LED lighting products manufactured with perfect optical performance. We offer LED lighting:

- Safe 12VAC/DC and 24VDC
- Longer cable lengths between light and controller for easier installation
- Super compact to heavy duty with multiple mounting
- White to RGB color-changing fully addressable
- For fountains or playdecks



Basic LED System (LED Light, Choreoswitch, Power & Data Supply, Control Panel)

### LED002 Series - Compact LED Light - Wet and Dry

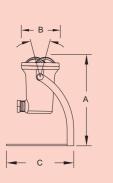
This attractive, compact LED light is available with either a warm or cool white LED or full RGB color LED. Its compact size allows close placement to any jet for maximum light usage or in tight surroundings. RGB provides limitless color sequencing potential. Light allows for gentle lighting of low effects and waterwalls as well as very good projection for high vertical nozzle effects. RGB (LEDEQMRF AND LEDEQMRS) lamps are fully programmable to suit your design needs and work in a systems approach with the LEDPS70 power supply and LEDQUE1 – I-player/DMX controller. Pre-programmed RGB lamps (EQS021A100) are also available that come standard with 24 programs and can work with optional handheld remote controller (EL RGBC 5W). Remote control can work with an unlimited number of lights to dim and change colors of individual lights. Available in different cable lengths and with many mounting configurations to suit your lighting needs from freestanding to niche mounted. Submersible IP68, CE Marking, cULus listed. Made of 316 stainless steel.

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.

\*Contact Crystal Fountains for detailed specifications, installation and operation details.













#### **DIMENSIONS**

Part No.	a dim. (mm)	b dim. (mm)	c dim. (mm)
LED002002	166	70	127

#### **How to Order**

CHOOSE LIGHT				
Mounting	Part No.			
Stand	LED002002			
CHOOS	E ADDITIONAL OPTIONS			
Options	Part. No.			

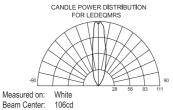
EL RGBC 5W

CHOOSE CABLE			
Cable Length	Part No.		
3 m.	ELCORD005M03		
6 m.	ELCORD005M06		

CHOOSE LAMP					
Color	Туре	Lamp	Part No.		
RGB	5W24VDC	Flood	LEDQMRF		
	5W24VDC	Spot	LEDQMRS		
	5W12VDC	Spot	EQS021A100*		
Warm White	3W12V (AC/DC)	Flood	EL002A102		
	3W12V (AC/DC)	Spot	EL002A101		
Cool White	3W12V (AC/DC)	Flood	EL002A104		
	3W12V (AC/DC)	Spot	EL002A103		
*EOS021A100 lamp is not UL listed					

Remote Control

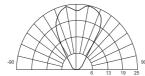
### LED002 Series - Compact LED Light - Wet and Dry



Beam Center: Multipliers:

0.34 Red, 0.47 Green, 0.21 Blue

CANDLE POWER DISTRIBUTION FOR LEDEQMRF



Measured on: White Beam Center: 25cd

Multipliers: 0.4 Red, 0.18 Green, 0.42 Blue

### ILLUMINANCE DISTRIBUTION 5W/24WATT LEDEQMRS LAMP

	0.3	1.3	1.4	2.3/	1.3	0.3	1.5'/0.5m
	3.2	14.0	15.1	/24.8	14.0	3.2	
	1.3	3.2	5.2	5.2	3.2	1.3	
	14.0	/34.4	<b>/</b> 56.0	<b>/</b> 56.0	/34.4	14.0	
	2.3	5.2	9.1	8.1	5.3	2.3	
	24.8	56.0	98.0	87.2	57.0	24.8	0'/0m
	1.4	5.3	8.2	9.1	5.3	1.4	070111
	15.1	<b>/</b> 57.0	88.3	98.0	57.0	15.1	
	1.3	3.3	5.4	5.4	3.3	1.3	
	14.0	35.5	58.1	58.1	35.5	14.0	
	0.3	1.3	1.4	2.4/	1.3	0.3	
	3.2	14.0	15.1	25.8	14.0	/ 3.2	1.5'/0.5m
1.5'/	0.5m		0'/	0m		1.5'/	0.5m

#### ILLUMINANCE DISTRIBUTION 5W/24WATT LEDEQMRF LAMP

011/241	OVV/Z+VV/() I EEDEQIVII (I E/(WI					
0.4	0.5	0.7/	0.9/	0.6	0.4	1.0'/0.3m
4.3	5.4	7.5	9.7	6.5	4.3	
0.6	1.0	1.2	1.1/	0.9	0.6	
6.5	10.8	12.9	11.8	9.7	6.5	
0.9	1.2	1.7	1.6	1.1/	0.9	
9.7	12.9	18.3	17.2	11.8	9.7	0'/0m
0.7	1.1	1.6	1.7/	1.2	0.7	070111
7.5	/11.8	17.2	18.3	12.9	7.5	
0.5	0.9	1.1	1.2/	1.0	0.5	
5.4	9.7	11.8	12.9	10.8	5.4	
0.4	0.5	0.7	0.9	0.6	0.4	
4.3	5.4	7.5	9.7	6.5	4.3	1.0'/0.3m
1.0'/0.3m		0'/	'0m		1.0'/	0.3m

Measured on: Distance from surface: Footcandles/Lux

All, reflectance 0 1/0.3m ( from bottom of grid with light at perpendicular to surface)



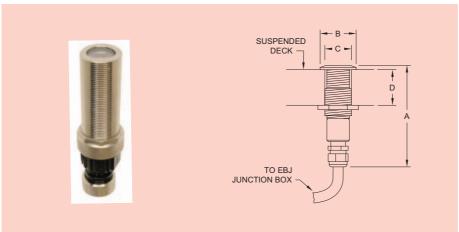




### LED007 - Ultra Compact 5 watt LED Light - 12V

The LEDoo7 is designed for situations where visibility of the light fixture needs to be de-emphasized and space near the nozzle is tight. The most compact 5 watt light on the market. Currently designed for suspended decks but can be used in multiple applications. Comes with spot light. Made of stainless steel and plastic.





#### DIMENSIONS

Part No.	a dim.	b dim.	c dim.	d dim.
LED007	127	51	39	51
LED008	127	51	39	51

#### **How to Order**

White (Non-Dimmable) Light

CHOOSE LIGHT			
Lighting	Mounting	Lamp	Part No.
RGB	Light with Slab Hanger	Spot	LED007
White	Light with Slab Hanger		LED008
CHOOSE CABLE			
Cable for	Cable Length		Part No.
RGB or White (Dimmable) Light	3 m.		EL CORDoo7Mo3
	6 m.		EL CORDoo7Mo6

3 m.

EL CORDoo7MWo3

EL CORDO07MW06

### LED020 Series - 120VAC/60W Low Profile White Underwater LED

### Light

The LED020 is a versatile LED underwater light ideal for lighting heavy water in fountains. Best operated at a minimum 51mm underwater, this white 120V LED light provides a low profile and substantial uplighting. Available in different cable lengths, lenses and with many mounting configurations to suit your lighting needs from free-standing to deep niche mounted. Also available with optional lens guard. cETLus and IP68 listed. Made of cast bronze.

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance.

\*Contact Crystal Fountains for detailed specifications, installation and operation details.





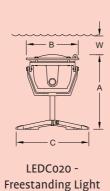


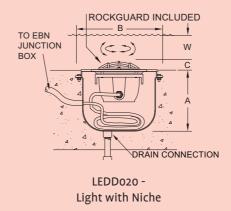














LEDS020 -Light with Slab Hanger

## LED020 Series - 120VAC/60W Low Profile White Underwater LED

## Light



#### **DIMENSIONS**

Part No.	a dim. (mm)	b dim. (mm)	c dim. (mm)	w dim. (mm)
LEDB020	159	185	223	51
LEDC020	185 or 407	185	254	51
LEDD020	204	293	51	51
LEDS020	140	261	223	51

#### **How to Order**

CHOOSE LIGHT				
Light Fi	xture	Part No.		
Series	Options			
LEDB	n/a	LEDB020		
	rockguard	LEDB020P		
LEDC	195 mm. high	LEDC020		
	400 mm. high	LEDC020L		
	195 mm. w/. rockguard	LEDC020P		
	400 mm. w/. rockguard	LEDC020LP		
LEDD	n/a	LEDD020		
	drain conn.	LEDD020D		
LEDS	n/a	LEDS020		

CHOOSE CABLE				
Cable Length	Thermal Cut-Off	Part No.		
3 m.	No	EL CORD 020A109		
	Yes	EL CORD 020T109		
6 m.	No	EL CORD 020A120		
	Yes	EL CORD 020T120		
9 m.	No	EL CORD 020A130		
	Yes	EL CORD 020T130		
12 m.	No	EL CORD 020A140		
	Yes	EL CORD 020T140		
Over 12 m.	Yes/No	Contact Factory		

EXAMPLE OF HOW TO ORDER					
Quantity	Product	Part No.			
1	407 mm. Freestanding light with rockguard	LEDC020LP			
1	3 m. Cable	ELCORD 020A109			

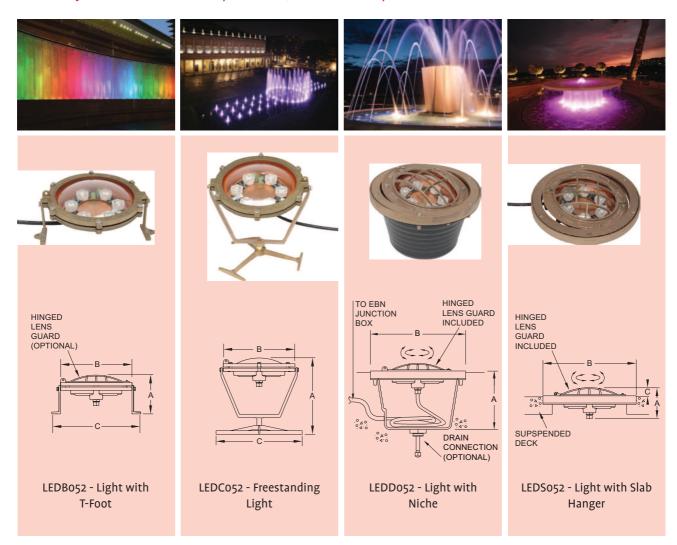
Note: Photometric Chart is available upon request.

### LED052 Series - 12V/30W LED Color Changing Light - Wet and Dry

General purpose 12VDC underwater, wet and dry location light fixture with RGB color-changing technology. Lots of flexibility to suit your application - available in 4 different mounting styles from freestanding to niche mounted. Also available in 2 different cable lengths and spot or flood lamp. Best used to light no higher than 6m. Works in a systems approach with many generic power supplies and DMX controllers\*. (See LED Accessories on pg 161). CE Marking and cULus listed to safety standards for use in traditional basin style fountains. (Not for swimming pool and spas). Cable to be ordered separately and pre-installed. Made of cast bronze, copper with stainless steel fasteners.

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.

\*Contact Crystal Fountains for detailed specifications, installation and operation details.



#### DIMENSIONS

Part No.	a dim. (mm)	b dim. (mm)	c dim. (mm)
LEDB052	127	261	
LEDC052	280 to 407	280	248
LEDD052	229	331	
LEDS052	115	331	26

### LED052 Series - 12V/30W LED Color Changing Light - Wet and Dry

#### **How to Order**

CHOOSE CABLE	
Cable Length	Part No.
3 m.	ELCORDo50Mo3
6 m.	ELCORDo50M06

#### **CHOOSE ADDITIONAL OPTIONS**

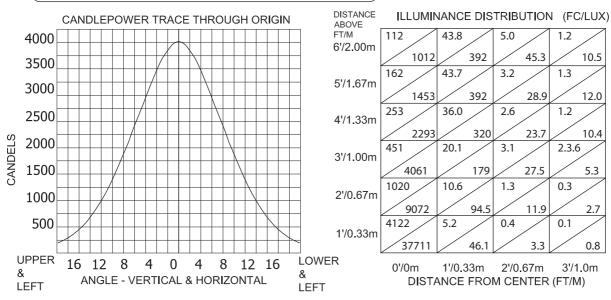
OPTIONS	PART NUMBER
Flood Optics	contact Crystal for details
Remote Control	EL RGBC 5W

CHOOSE LIGHT		
Light Fi	xture	Part No.
Series	Options	Part No.
LEDB	n/a	LEDB052
	rockguard	LEDB052P
LEDC	280 mm. high	LEDC052
	407 mm. high	LEDC052L
	280 mm. w/. rockguard	LEDC052P
	407 mm. w/. rockguard	LEDC052LP
LEDD	n/a	LEDD052
LEDS	n/a	LEDS052

EXAMPLE OF HOW TO ORDER			
Quantity	Product	Part No.	
1	Light with T-Foot	LEDB052	
1	6 m. Cable	ELCORD050M06	
6	Flood Optics	LED160C006F	

**RGB LED Light** 

Photometry Test is done in accordance with IES no. LM-35-1989



### LED053 Series - 24VDC / 30 W LED Color Changing Light - Wet and

### Dry

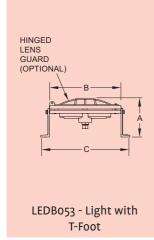
A general purpose 24VCD underwater, wet and dry location light fixture with RGB color changing technology. Lots of flexibility to meet your application – available in 4 different mounting styles from free standing to niche mounted. Also available in 2 different cable lengths and spot or flood lamp. Best used to light no higher than 6 m. Works in a systems approach with many generic power supplies and DMX controllers\*. (See LED Accessories on pg 161). CE Marking and cULus listed to safety standards for use in traditional basin style fountains. (Not for swimming pool and spas). Made of cast bronze, copper with stainless steel.

Not all LED products are created equally. Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also see Crystal Fountains power/data and controller products to create a complete LED system.





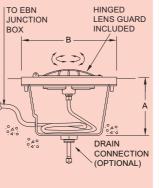






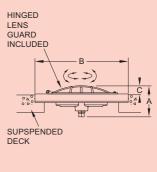






LEDD053 - Light with Niche





LEDS053 - Light with Slab Hanger

#### **DIMENSIONS**

Part No.	a dim. (mm)	b dim. (mm)	c dim. (mm)
LEDB053	127	261	
LEDC053	280 to 407	280	248
LEDD053	229	331	
LEDS053	115	331	26

### LED053 Series - 24VDC / 30 W LED Color Changing Light - Wet and

### Dry

#### **How to Order**

CHOOSE CABLE		
Cable Length	Part No.	
3 m.	EL CORD160M03	
6 m.	EL CORD160M06	

#### **CHOOSE ADDITIONAL OPTIONS**

OPTIONS	PART NUMBER
Flood Optics	contact Crystal for details

CHOOSE LIGHT		
Light Fixture		Part No.
Series	Options	
LEDB	n/a	LEDB053
	rockguard	LEDB053P
LEDC	280 mm. high	LEDC053
	407 mm. high	LEDC053L
	280 mm. w/. rockguard	LEDC053P
	407 mm. w/. rockguard	LEDC053LP
LEDD	n/a	LEDD053
	drain	LEDD053D
LEDS	n/a	LEDS053

#### Quantity Product Part Number Niched Light with LEDD053D Drain

EL CORD160M03

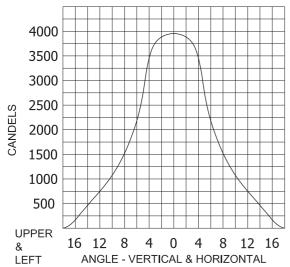
3 m. Cable

**EXAMPLE OF HOW TO ORDER** 

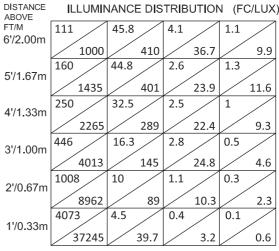
#### **RGB LED Light**

Photometry Test is done in accordance with IES no. LM-35-1989 & LM-79-08





**LOWER** LEFT



0'/0m 11/0.33m 2'/0.67m 31/1.0m DISTANCE FROM CENTER (FT/M)

### LED054 Series - 24VDC/30W LED White Light - Wet and Dry

General purpose 24VDC White LED light is perfect for underwater use including wall washing, wall washing, and wet/dry locations. 18 LED's mounted in a smart PCB board creates Available in 5 different mounting styles from free-standing to niche mounted. Also available in 4 different cable lengths and spot or flood lamp. A dimmable white light version is also available. Works in a systems approach with the power supply and I-player/DMX controller\*. CE Marking and c-UL-us listed to safety standards for use in traditional basin style fountains. (Not for swimming pool and spas). Cable, lamp and rock guard to be ordered separately and pre-installed. Made of cast bronze, copper with stainless steel fasteners.

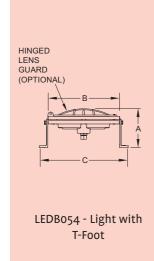
Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.

\*Contact Crystal Fountains for detailed specifications, installation and operation details.

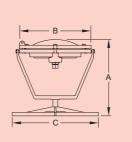






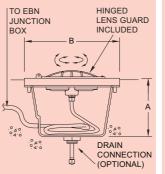






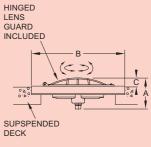
LEDC054 - Freestanding Light





LEDD054 - Light with Niche





LEDS054 - Light with Slab Hanger

### LED054 Series - 24VDC/30W LED White Light - Wet and Dry

#### **DIMENSIONS**

Part No.	a dim. (mm)	b dim. (mm)	c dim. (mm)
LEDB054	127	261	305
LEDC054	280 to 407	280	248
LEDD054	229	331	
LEDS054	115	331	26

#### **How to Order**

CHOOSE LIGHT		
Light Fi	xture	Part No.
Series	Options	
LEDB	n/a	LEDB054
	rockguard	LEDB054P
LEDC	280 mm. high	LEDC054
	407 mm. high	LEDC054L
	280 mm. w/. rockguard	LEDC054P
	407 mm. w/. rockguard	LEDC054LP
LEDD	n/a	LEDD054
	drain conn.	LEDD054D
LEDS	n/a	LEDS054

CHOOSE CABLE			
Cable For	Cable Length	Part No.	
White LED	3 m.	ELCORD005M03	
	6 m.	ELCORDoo5Mo6	
White LED Dimmable	3 m.	ELCORD160M03	
	6 m.	ELCORD160M06	

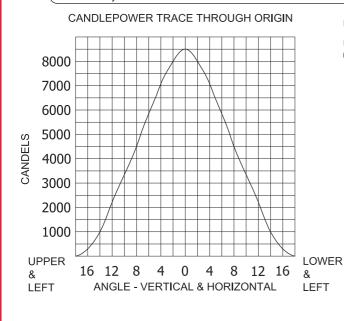
CHOOSE ADDITIONAL OPTIONS		
OPTIONS	PART NUMBER	
Flood Optics	Contact Crystal for details	

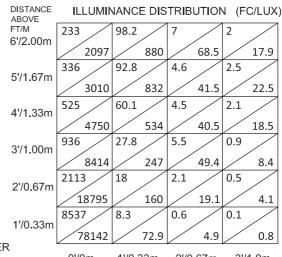
#### **EXAMPLE OF HOW TO ORDER**

Quantity	Product	Part No.
1	Light with Niche	LEDD054
1	6 m. DMX Dimmable Cable	FLCORD160M06

#### WHITE LED Light

Photometry Test is done in accordance with IES no. LM-35-1989 & LM-79-08





0'/0m 11/0.33m 2'/0.67m DISTANCE FROM CENTER (FT/M)

### LED055 Series - 12VDC/30W LED White Light - Wet and Dry

General purpose 12VDC underwater, wet and dry location light fixture with white LED technology. Lots of flexibility to suit your application - available in 4 different mounting styles from freestanding to niche mounted. Also available in 2 different cable lengths and spot or flood lamp. Best used to light no higher than 6m. Powered using standard 12V power supply. CE Marking and cULus listed to safety standards for use in traditional basin style fountains. (Not for swimming pool and spas). Cable to be ordered separately and pre-installed. With the use of an external DMX controller and proper cable option, lights can be dimmed or turned on/off individually to create animated light sequences. Made of cast bronze, copper with stainless steel fasteners.

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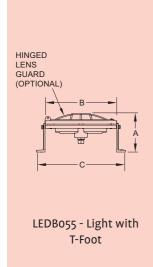
\*Contact Crystal Fountains for detailed specifications, installation and operation details.



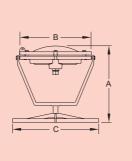






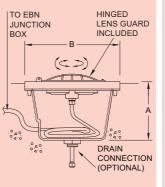






LEDC055 -Freestanding Light





LEDD055 - Light with Niche





LEDS055 - Light with Slab Hanger

#### DIMENSIONS

Part No.	a dim. (mm)	b dim. (mm)	c dim. (mm)
LEDB055	127	261	
LEDC055	280 to 407	280	248
LEDD055	229	331	
LEDS055	115	331	26

### LED055 Series - 12VDC/30W LED White Light - Wet and Dry

#### **How to Order**

CHOOSE LIGHT			
Light Fixture		Part No.	
Series	Options		
LEDB	n/a	LEDB055	
	rockguard	LEDB055P	
LEDC	280 mm. high	LEDC055	
	407 mm. high	LEDC055L	
	280 mm. w/. rockguard	LEDC055P	
	407 mm. w/. rockguard	LEDC055LP	
LEDD	n/a	LEDD055	
	drain conn.	LEDD055D	
LEDS	n/a	LEDS055	

CHOOSE CABLE			
Cable For	Cable Length	Part No.	
White LED	3 m.	ELCORD005M03	
	6 m.	ELCORD005M06	
White LED Dim-	3 m.	ELCORD160M03	
mable	6 m.	ELCORD160M06	

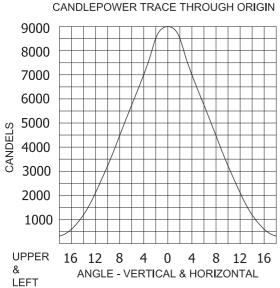
EXAMPLE OF HOW TO ORDER				
Quantity	Product Part No.			
1	Light with Niche	LEDD055		
1	6 m. DMX Dimmable Cable	ELCORD160M06		
6	Flood Optics	LED160C006F		

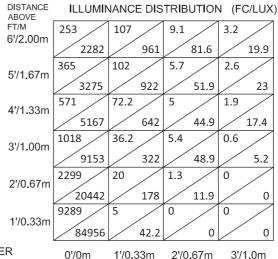
#### **CHOOSE ADDITIONAL OPTIONS**

OPTIONS	PART NUMBER
Flood Optics	contact Crystal for details

WHITE LED Light

Photometry Test is done in accordance with IES no. LM-35-1989





LOWER **LEFT** 

11/0.33m 2'/0.67m 31/1.0m DISTANCE FROM CENTER (FT/M)

### LED060 Series - 24VDC/60W LED Color Changing and White Light -

### Wet and Dry

The LEDo60 Series 24V LED light is a general purpose combination pure white and RGB color-changing LED light. A total of 60 watts of power is available by combining the 30 watts of white and 30 watts of RGB to produce powerful illumination capabilities. This general-purpose underwater light is suitable for wet locations and provides good wall washing or up-lighting. The light works in a systems approach with many generic power supplies and I-player/DMX controllers\*. The LEDo6o Series light output is clear and bright at 6500 Kelvin. Available in 4 different mounting options from free standing to slab hanger. Also available with lens guards and 2 cable lengths. cETLus and IP68 listed. Made of cast bronze.

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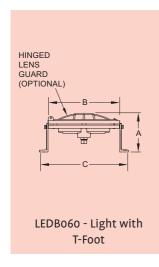


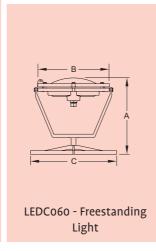


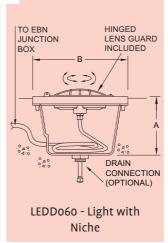


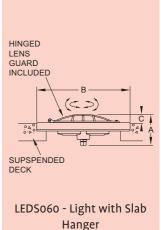












## LED060 Series - 24VDC/60W LED Color Changing and White Light -Wet and Dry

#### DIMENSIONS

Part No.	a dim. (mm)	b dim. (mm)	c dim. (mm)
LEDB060	127	261	305
LEDC060	280 to 407	280	248
LEDD060	229	331	
LEDS060	115	331	26

#### **How to Order**

CHOOSE LIGHT				
Light Fixture	ght Fixture			
Series	Options			
LEDB	n/a	LEDB060		
	rockguard	LEDB060P		
LEDC	280 mm. high	LEDC060		
	407 mm. high	LEDC060L		
	280 mm. w/. rock- guard	LEDCo6oP		
	407 mm. w/. rock- guard	LEDC060LP		
LEDD	n/a	LEDD060		
	drain conn.	LEDD060D		
LEDS	n/a	LEDS060		

CHOOSE CABLE		
Cable Length	Part No.	
3 m.	EL CORDo6oMo3	
6 m.	EL CORDo6oMo6	

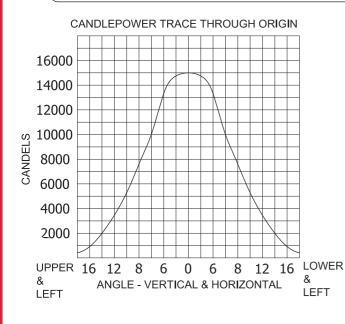
### **CHOOSE ADDITIONAL OPTIONS** OPTIONS

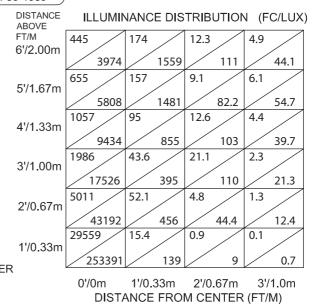
Flood Optics Contact Crystal for details

EXAMPLE OF HOW TO ORDER			
Quantity	Product	Part No.	
1	Light with Niche	LEDD060	
_	C BLAY Bi	FLCORDaccattac	

#### **RGBW LED Light**

Photometry Test is done in accordance with IES no. LM-35-1989





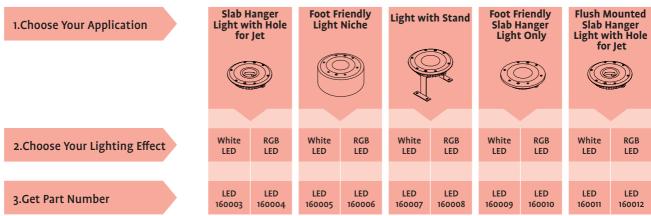
### LED160 Series - 12V/30W RGB or White LED Ring Light - Wet and Dry

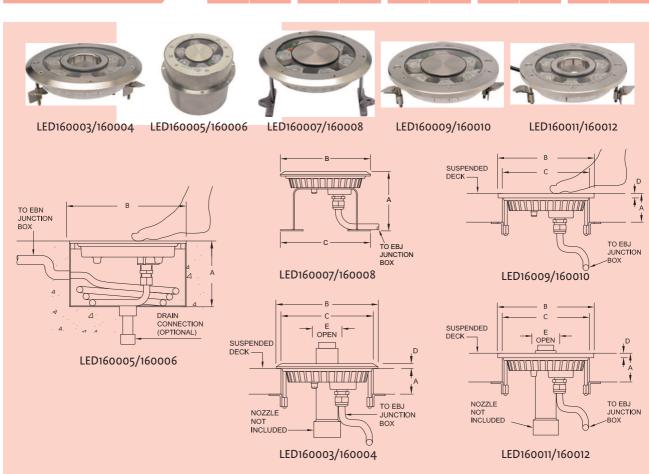
The LED160 series 12V LED light is one of our series of circular LED lights. With a center hole of 58mm diameter you can accommodate many Crystal Fountains nozzles and light the water 360°! This general-purpose underwater light is suitable for wet or dry locations and provides good wall washing or up-lighting. RGB works in a systems approach with many generic power supplies and I-player/DMX controllers\*. (See LED Accessories on pg 161). White light powered using standard 12V power supply. The LED 160 Series light output is clear and bright. Available with multiple mounting options: T-Foot stand, footfriendly (flush-mounted), niched to slab hanger. Also available in spot or flood lamps and a variety of cable lengths. With the use of an external DMX controller and proper cable option, lights can be dimmed or turned on/off individually to create animated light sequences. Made of 316 stainless steel.

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.

\*Contact Crystal Fountains for detailed specifications, installation and operation details.

#### Which Ring Light Do I Need?



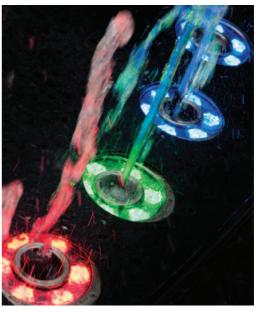


## LED160 Series - 12V/30W RGB or White LED Ring Light - Wet and Dry









#### **DIMENSIONS**

Part No.	a dim. (mm)	b dim. (mm)	c dim. (mm)	d dim. (mm)
LED160003	77	204	185	10
LED160004	77	204	185	10
LED160005	180	235		
LED160006	180	235		
LED160007	153	204	153	10
LED160008	153	204	153	10
LED160009	77	204	185	10
LED160010	77	204	185	10
LED160011	77	204	185	10
LED160012	77	204	185	10

### **How to Order**

CHOOSE LIGHT			
Lighting	Mounting	Lamp	Part No.
White	Slab Hanger Light with Hole	Spot	LED160003
	Foot Friendly Niched Light	Spot	LED160005
	Light with Stand	Spot	LED160007
	Foot Friendly Slab Hanger Light Only	Spot	LED160009
	Flush Mounted Slab hanger Light With Hole	Spot	LED160011
RGB	Light with Slab Hanger	Spot	LED160004
	Foot Friendly Niched Light	Spot	LED160006
	Light with Stand	Spot	LED160008
	Foot Friendly Slab Hanger	Spot	LED160010
	Flush Mounted Slab Hanger Light With Hole	Spot	LED160012

## LED160 Series - 12V/30W RGB or White LED Ring Light - Wet and Dry

CHOOSE CABLE			
Cable For	Cable Length	Part No.	
White LED	3 m.	ELCORD005M03	
	6 m.	ELCORD005M06	
White LED DMX Dim-	3 m.	ELCORD160M03	
mable	6 m.	ELCORD160M06	
RGB LED	3 m.	ELCORD160M03	
	6 m.	ELCORD160M06	

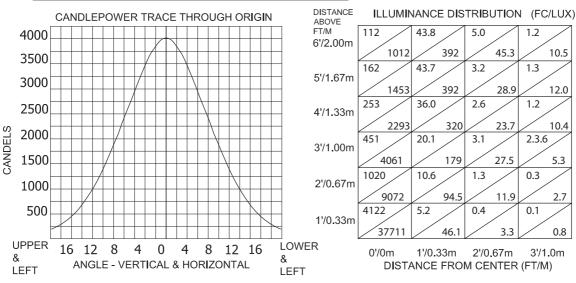
EXAMPLE OF HOW TO ORDER		
Quantity	Product	Part No.
1	RGB LED Slab Hanger Light	LED160004
1	3 m. RGB Cable	ELCORD160M03
6	Flood Optics	LED160C006F

#### **CHOOSE ADDITIONAL OPTIONS**

Options	Part No.
Flood Optics	LED160C006F

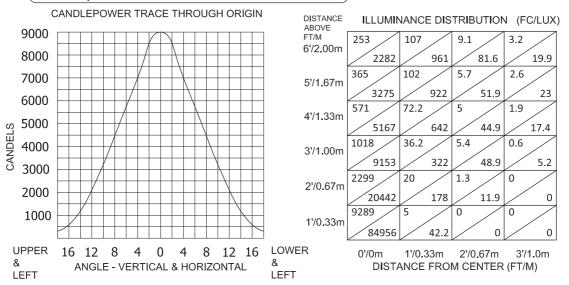
**RGB LED Light** 

Photometry Test is done in accordance with IES no. LM-35-1989



WHITE LED Light

Photometry Test is done in accordance with IES no. LM-35-1989



## LED190 Series - 12V/30W Niched RGB or White LED Playdeck Light

The LED190 Series 12V LED light is perfect for any playdeck water feature. Its pedestrian-friendly clear acrylic faceplate provides a dramatic up-light to many water features and is a perfect companion to Crystal Fountains Dynamite Blast™ nozzle. RGB works in a systems approach with many generic power supplies and I-player/DMX controllers\*. (See LED Accessories on pg 161). White light powered using standard 12V power supply. Good for wet or dry locations and internally adjustable by up to 20° for different applications. The LED 190 Series light output is clear and bright. Made of stainless steel, copper, bronze and acrylic.

Not all LEDs are created equally! Crystal Fountains LED products produce a high intensity light and deliver perfect optical performance. Also, see Crystal Fountains power/data and controller products to create a complete LED system.

\*Contact Crystal Fountains for detailed specifications, installation and operation details.





# Which Foot-Friendly Dry Deck Light Niche Do I Need?

1.Choose Your Lighting Effect
2.Get Part Number

White LED	RGB LED
LED190001	LED190002

#### DIMENSIONS

Part No.	a dim. (mm)	b dim. (mm)	c dim. (mm)
LED190001	458	401	350
LED190002	458	401	350

#### **How to Order**

#### **Choose Additional Options**

Options	Part No.
Flood Optics	LED160C006F

CHOOSE LIGHT		
Lighting	Lamp	Part No.
White LED	Spot	LED190001
RGB LED	Spot	LED190002

