

## Benefits

- Provides spectacular color-changing effects
- Designed to withstand under water and harsh environment applications.
- Slim design allows for a variety of applications and custom solutions.
- Light weight design enables ease of installation
- True savings on lifetime light source in:
 

Energy costs	Power consumption
Labor costs	Light output
Fixture costs	Lifetime

XTR SP002  
Mar 2010  
710-000-222

## RGB Xtreme Tube

The Xtreme Tube is a RGB LED light engine encapsulated in a waterproof, impact and vibration resistant, polycarbonate tube filled with silicon resin. This unique enclosure provides ultimate protection for underwater, outdoor and other harsh environment applications.

### Features

#### Lumen Output<sup>1</sup>

RGB 75 (lm/ft)

#### Power Consumption<sup>2</sup>

RGB 4 (w/ft)

#### Efficacy<sup>2</sup>

RGB 18.7 (lm/w)

#### Controls

RGB DMX or Stream  
(no protocol converter required)  
each 6" section individually  
addressable and controllable

#### Rated Life

75,000 Hours  
70% Lumen Maintenance

#### Housing

Polycarbonate - Resin filled

#### Dimensions

1" Dia. x Various lengths

#### Beam Spread

100°

#### Operating Temperature

-40°C to +40°C

#### Voltage

24V DC

#### Warranty

3 Year Limited

#### Standards

Pending

#### Certification



#### Environment

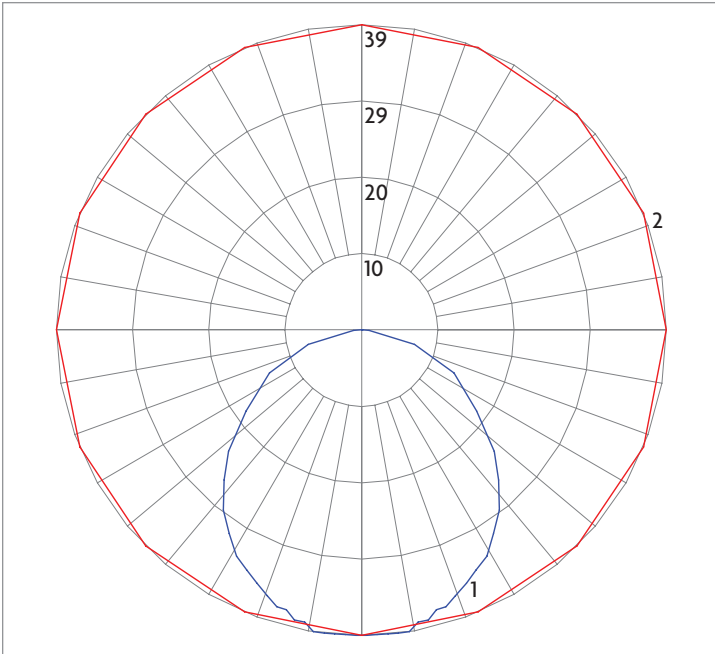
IP68 

1. Thermally stabilized fixture output after all thermal and optical losses, Based on length of pcb within the fixture

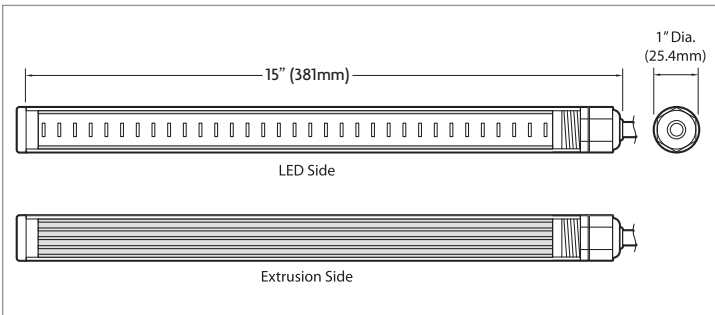
2. Does not include power supply losses.

# Xtreme Tube

15" RGB Illustrated



Maximum Candela = 39 Located At Horizontal Angle = 0, Vertical Angle = 0  
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
 # 2 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)



Dimensions shown in inches (mm). One foot tube is illustrated. Does not include cable length.



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Specifications subject to change.

## Luminance Data (cd/sq.m)

Angle In Degrees	Average 0°	Average 45°	Average 90°
45°	2637	1843	1574
55°	2374	1460	1060
65°	2304	1066	739
75°	1983	799	552
85°	762	738	285

## Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixt
0-30	20.99	N.A.	27.7
0-40	32.44	N.A.	42.8
0-60	54.55	N.A.	72
0-90	74.95	N.A.	99
90-120	0.79	N.A.	1
90-130	0.79	N.A.	1
90-150	0.79	N.A.	1
90-180	0.79	N.A.	1
0-180	75.73	N.A.	100.0

## RGB XtremeTube Length Calculator

Input Type	Factor	Output Type	Factor
CAB	0"	END	-0.25"
LKC	0"	THR	1.75"
HKP	-0.5"	HWR	0"
HKC	-0.5"	HQC	0"

	<b>Example:</b> XTR-RGB-27-5CAB-END
Step 1. Take base length	Step 1. 27" base length
Step 2. Add input factor & output factor	Step 2. +0 (CAB) -0.25 (END)
Step 3. Add to base to get actual fixture length	Step 3. 27" + 0" - 0.25" = 26.75" actual fixture length

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# RGB Xtreme Tube

## Ordering Information

Example: XTR RGB 51 SSM 5CAB OTHR DMX S

Product	Color Source	Fixture Length <sup>1</sup>	Mounting	Input (output) Connector	Length & Type (Example 2CAB)	Output (output) Connector	Length & Type (Example 4HWE)	Control Type	Tube Type
XTR	RGB	15 15"	SSM Stainless Clip	1 1FT	CAB HD waterproof cable w/wire ends	1 1FT	THR Through tube w/ HD waterproof output connector*	DMX DMX	M Master
(Xtreme Tube)	(Red/Green/Blue)	27 27"		2 2FT	LKC HD cable w/waterproof quick connector	2 2FT	HWE HD cable w/ wire ends	STR Stream	S Slave
		39 39"		3 3FT	HKP Hookup wire (light duty)	3 3FT	HWR Hookup wire (light duty)		
		51 51"		4 4FT	HKC Hookup wire w/light duty quick connector	4 4FT	HQC Hookup wire w/light duty quick connector		
		Custom <sup>2</sup>		↓		↓	END End tube		
				25 25FT		25 25FT			

\*Cable length 0

<sup>1</sup>Approximate length. See table on previous page for details.

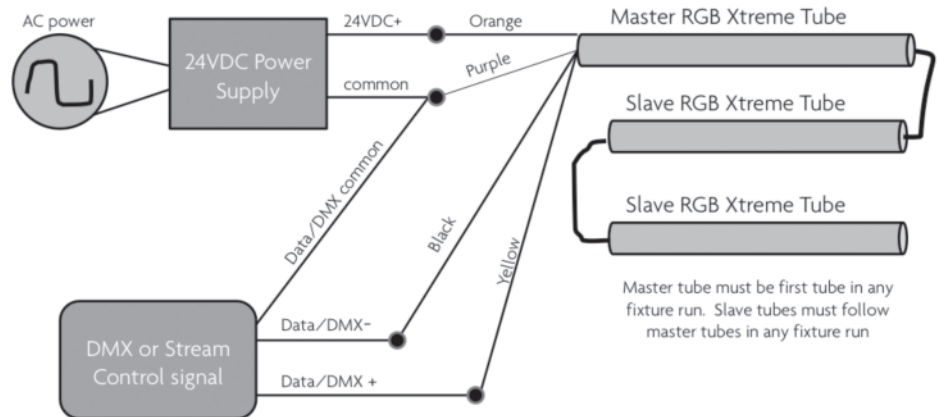
<sup>2</sup>Consult factory for details.

### Accessories

PSU 96W 24V 90-277 VAC Input - 96W 24V Power Supply\*

\*Drives maximum of 22 linear feet of RGB Xtreme tube.

### RGB Xtreme Tube Wiring Diagram



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