

Tidal Spot 800 IP

High Powered Outdoor LED Profile Moving Light



User Manual

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Introduction and Setup

Unpacking and In the Box

Thank you for choosing our Tidal Spot 800 IP. For your own safety, please read this manual before installing or using the device. This manual covers the important information on installation and applications. Please install and operate the fixture with following instructions. Meanwhile, please keep this manual for future needs.

In the box you will receive:

- Tidal Spot 800 IP 1
- Omega Brackets 2
- 3 Pin DMX Cable 1
- RJ45 Ethercon Compatible Cable 1
- True1 Compatible Power Cable 1

Features

- 800w LED Moving Light Profile
- CMY Color Mixing
- 5°-45° Motorized Zoom
- 31,500 Lumens Output
- Rotating and Static Gobos
- 2 Independent Prisms
- 4 Shutter Framing System with Full Blackout on each shutter.
- High CRI 95 output with High-CRI Filter Inserted
- IP65 Outdoor Rated

Mounting and Operation

Clamp Mounting: The Tidal Spot 800 IP provides omega brackets which you can attach a clamp to for typical clamp mounting. Once the clamp is attached to the omega brackets, you can attach the omega brackets to the fixture via the 1/4 turn fasteners.

As an added safety measure be sure to attach at least one properly rated safety cable to the fixture using one of the handles.

Pan and Tilt Locks

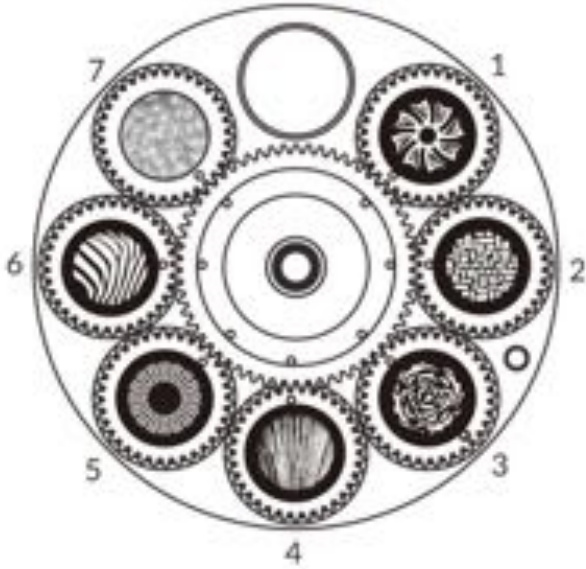
The Tidal Spot 800 IP features locks on both the pan and tilt movement for convenience while shipping, mounting, and servicing the fixture.

Use the levers on the arm and above the base to disengage or engage the locks. Do not operate the fixture with locks engaged.

Colors and Gobos

See the stock color and gobos package below:

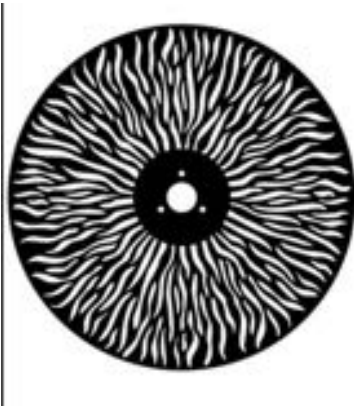
Rotating Gobos



Fixed Gobos



Animation Wheel



Color Wheel



Customer Support

WARRANTY POLICY

GAMMA LED Vision warrants its products for the periods set below from the date of purchase to be free of manufacturer and workmanship defects. Warranty does not cover normal wear and tear caused by force, negligence or misuse of products. GAMMA LED Vision is not responsible for any damages or injury caused by misuse or improper handling of the products and in accordance with instructions and specifications of manual.

Warranty terms are as follows:

LED Fixtures:

Indoor: 2 Years

Outdoor (IP 54 or higher): 1 Year

Lamp Fixtures: 1 year / excludes the lamp

LED Video Products:

Indoor: 2 Years

Outdoor (IP 54 or higher): 1 Year

Controllers: 2 years

Batteries: 6 months

All Trussing Related Products and Accessories: 1 Year

Please visit WWW.GAMMALEDVISION.COM for complete Limited Warranty terms and contact information.

Setup and Operation

Using the LCD Menu and Buttons

The LCD system includes Menu, Up, Down, and Enter buttons to the right of the LCD screen. Press “Menu” to enter the menu or to go back from a sub-menu. Use “Up”/“Down” to navigate through the choices, and use “Enter” to save your choices.

The menu options are as follows:

Main Menu Option	Sub Menu Option	Sub Menu 2 Option	Key Operation	
Address			Set the DMX Address	
Channel Mode			Choose the DMX Channel Mode	
Setting	Control Mode		Set whether the light is controlled by DMX, Art-Net, sACN or Test Mode	
	Art-Net to 512		Set whether you'd like DMX re-transmitted via the DMX out when the fixture is being controlled by Art-Net or sACN.	
	Status Setting	Signal Keep		“Yes” will hold the last DMX values when DMX signal is lost.
		Invert Pan		Invert the Pan
		Invert Tilt		Invert the Tilt
		Move Light		When “Yes”, the light will blackout when pan/tilt are moved and turn back on when stopped.
		Pan and Tilt		Disable pan/tilt
		Power Set		High/Low Power
	Dimmer Curve		Set the Dimmer Curve (Linear, Square, I-Shape, or S-Shape)	
	Dimmer Speed		Set the Dimmer Fade Speed (Fast or Smooth)	
	Dimmer		Set the PWM Frequency of the LED.	

Main Menu Option	Sub Menu Option	Sub Menu 2 Option	Key Operation	
	Frequency			
	Fan Mode		Set the fan mode. Note: lower fan modes may result in reduced output when the fixture heats up.	
	Display Setting	Screen Backlight		Set the backlight off time when inactive
		Invert Screen		Flip the screen for hanging fixtures
		Screen Lock		Turn on/off the screen lock
		Language		Set the language to English or Chinese
	Calibration		Each parameter of the light is listed and calibration may be performed if required. <i>Please do not touch this unless you are 100% sure of what you are doing 😊</i>	
Load Default		Loads the default settings for the fixture (Factory Reset)		
Network	Ethernet		Set the IP address, Subnet Mask (MS).	
	Universe		Set the Art-Net/sACN Universe. Note, this uses the Net and Sub-Universe format where the first (16) Universes are Net 0 and Sub-Uni is the universe number. Then universe 17 is Net 1, Sub-Uni 1, etc. See this article for more details: https://www.catslifemedia.com/artnetguide	
Manual			Each parameter of the light is listed and can be manually adjusted for testing or stand-alone operation.	
Reset			This menu includes multiple reset modes: Reset Effect, Reset Scan (Pan/Tilt), and Reset All.	

DMX Setup

DMX Basics

DMX512 stands for digital multiplex 512. This means that 512 channels are controlled digitally through 1 data cable.

A channel is a set of 255 steps that are assigned to control attributes in each light. This may be a color like red, green or blue, and intensity, strobe, pan/tilt or other attributes.

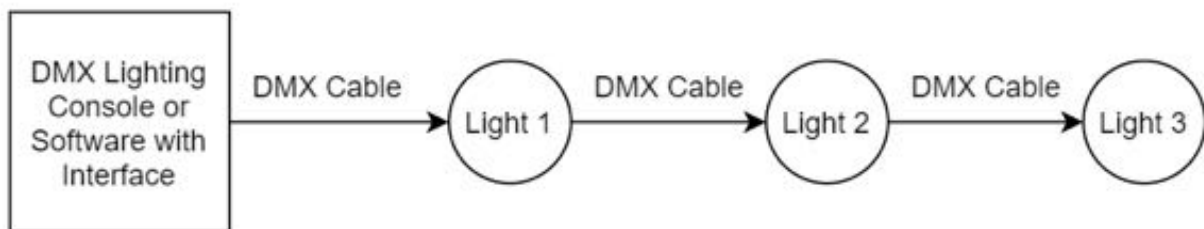
Multiple sets of 512 “universes” may be used. Only 1 universe will travel on a DMX cable, but through networked DMX (Art-Net or sACN E1.31), many universes can travel over a network.

DMX Wiring

DMX works by connecting 1 or multiple lights to the output of a DMX lighting console or software with a DMX interface.

DMX lights connect in what is called a “daisy-chain”. Your first DMX cable will plug its male DMX connector into the female DMX connector on your lighting console. The remaining female connector will then connect to the DMX input on your first light.

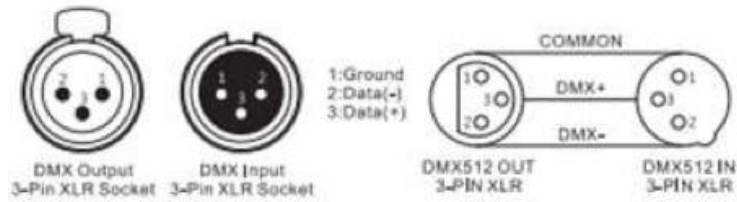
You may then connect your next fixture to the output of your first light, and continue the chain.



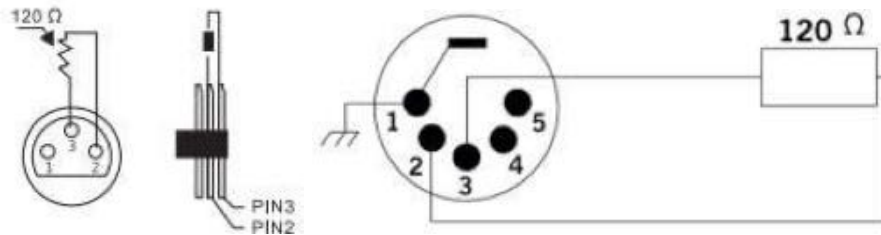
32 Fixture Rule – DMX only allows you to connect up to 32 fixtures in a single daisy chain for signal strength. Sometimes, depending on the fixtures and cable length, this number is less (or more).

DMX Cables can be 3-pin or 5-pin. These use the same type of data, and in the 5-pin only pins 1, 2, and 3 are used. The cable should be a 2 conductor, shielded cable of at least 110 ohms resistance. Microphone cable is not DMX cable.

Please refer to the diagram below:



For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise and reflections. The DMX terminator is simply an XLR plug with a 120 Ω resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below:



DMX Channel Mode Sheet:

Note: Only the 42 CH DMX mode has every parameter of the light available - the lesser channel modes contain only a selection of the capabilities of the Tidal Spot 800 IP.

23 CH	32S CH	32F CH	42 CH	Function	Channel Value	Description
1	1	1	1	Pan	0-255	Pan Control 0° to 540°
2	2	2	2	Pan Fine	0-255	Fine Control of Pan
3	3	3	3	Tilt	0-255	Tilt 0° to 540°
4	4	4	4	Tilt Fine	0-255	Fine Control of Tilt
5	5	5	5	Pan Tilt Speed	0-255	Fast to Slow
6	6	6	6	Cyan	0-255	Cyan Color Mixing
7	7	7	7	Magenta	0-255	Magenta Color Mixing
8	8	8	8	Yellow	0-255	Yellow Color Mixing
9	9	9	9	CTO	0-255	CTO - 2700k-7000k
10	10	10	10	<i>CRI -Note: The High CRI filter lives on the color wheel in the channel below and will take priority over the color wheel when inserted.</i>	0-127	High CRI Filter OUT
					128-255	High CRI Filter IN
11	11	11	11	Color Wheel	0-5	Open
					6-115	Linear Color Wheel
					116-120	Open
					121-130	Red
					131-140	Blue
					141-150	Yellow
					151-160	Green
					161-170	Cyan
					171-192	Open
193-223	Color Wheel Rotation, CCW					

23 CH	32S CH	32F CH	42 CH	Function	Channel Value	Description
					224	Stop
					225-255	Color Wheel Rotation, CW
12	12	12	12	Color Wheel Fine	0-255	Fine Control of the Color Wheel
	13		13	Gobo Wheel 1	0-7	Open
					8-20	Gobo 1
					21-33	Gobo 2
					34-46	Gobo 3
					47-59	Gobo 4
					60-72	Gobo 5
					73-85	Gobo 6
					86-98	Gobo 7
					99-111	Gobo 1 Shake - Slow to Fast
					112-124	Gobo 2 Shake - Slow to Fast
					125-137	Gobo 3 Shake - Slow to Fast
					138-150	Gobo 4 Shake - Slow to Fast
					151-163	Gobo 5 Shake - Slow to Fast
					164-176	Gobo 6 Shake - Slow to Fast
					177-189	Gobo 7 Shake - Slow to Fast
					190-221	CCW Gobo Cycle, Fast to Slow
					222-223	Open
					224-255	CW Gobo Cycle, Slow to Fast

23 CH	32S CH	32F CH	42 CH	Function	Channel Value	Description
	14		14	Gobo Rotate	0-127	Gobo Indexing
					128-190	CCW Rotation, Fast to Slow
					191-192	Stop
					193-255	CW Rotation, Slow to Fast
	15		15	Gobo Rotate Fine	0-255	Fine Control of Gobo Rotation
	16		16	Gobo Wheel 2	0-5	Open
					6-16	Gobo 1
					17-27	Gobo 2
					28-38	Gobo 3
					39-49	Gobo 4
					50-60	Gobo 5
					61-71	Gobo 6
					72-82	Gobo 7
					83-93	Gobo 8
					94-105	Gobo 1 Shake - Slow to Fast
					106-117	Gobo 2 Shake - Slow to Fast
					118-129	Gobo 3 Shake - Slow to Fast
					130-141	Gobo 4 Shake - Slow to Fast
					142-153	Gobo 5 Shake - Slow to Fast
					154-165	Gobo 6 Shake - Slow to Fast
					166-177	Gobo 7 Shake - Slow to Fast
					178-189	Gobo 8 Shake - Slow to Fast
					190-221	Gobo Cycle CCW - Fast to Slow
					222-223	Stop
					224-255	Gobo Cycle CW, Slow to Fast

23 CH	32S CH	32F CH	42 CH	Function	Channel Value	Description
	17		17	Animation Wheel	0-6	Open
					7-63	Animation Wheel Indexing
					64-126	CCW Rotation, Fast to Slow
					127-128	Stop
					129-191	CW Rotation, Slow to Fast
					192-255	Animation Wheel Ping-Pong, Slow to Fast
13	18	13	18	Iris	0-225	Iris Control, Large to Small
					226-235	Close/Snap Open, Slow to Fast
					236-245	Open/Snap Closed, Slow to Fast
					246-255	Open/Close, Slow to Fast
14	19	14	19	Iris Fine	0-255	Fine Control of Iris
	20		20	4 Facet Linear Prism	0-7	Open
					8-255	Linear Prism Inserted
	21		21	4 Facet Linear Prism Rotate	0-127	Index
					128-189	CCW Rotate, Fast to Slow
					190-193	Stop
					194-255	CW Rotate, Slow to Fast
	22		22	4 Facet Circular Prism	0-7	Open
					8-255	Circular Prism Inserted
	23		23	4 Facet Circular Prism Rotate	0-127	Index
					128-189	CCW Rotate, Fast to Slow
					190-193	Stop
					194-255	CW Rotate, Slow to Fast

23 CH	32S CH	32F CH	42 CH	Function	Channel Value	Description
15	24	15	24	Frost	0-127	Open
					128-255	Frost Inserted
16	25	16	25	Zoom	0-255	Zoom, 5° to 45°
17	26	17	26	Zoom Fine	0-255	Fine Control of Zoom
18	27	18	27	Focus	0-255	Focus Control
19	28	19	28	Focus Fine	0-255	Fine Control of Focus
20	29	20	29	Strobe	0-3	Closed
					4-99	Strobe, Slow to Fast
					100-149	Pulse, Slow to Fast
					150-199	Lightning Strobe, Slow to Fast
					200-249	Random Strobe
					250-255	Open
21	30	21	30	Intensity	0-255	Dimmer Control
22	31	22	31	Intensity Fine	0-255	Dimmer Control, Fine
		23	32	Shutter Rotate	0-255	Shutter Rotation
			33	Shutter Rotate Fine	0-255	Fine Control of Shutter Rotation
		24	34	Shutter 1 A	0-255	Shutter 1, Motor A
		25	35	Shutter 1 B	0-255	Shutter 1, Motor B
		26	36	Shutter 2 A	0-255	Shutter 2, Motor A
		27	37	Shutter 2 B	0-255	Shutter 2, Motor B
		28	38	Shutter 3 A	0-255	Shutter 3, Motor A
		29	39	Shutter 3 B	0-255	Shutter 3, Motor B
		30	40	Shutter 4 A	0-255	Shutter 4, Motor A
		31	41	Shutter 4 B	0-255	Shutter 4, Motor B
23	32	32	42	Control	0-5	No Function

23 CH	32S CH	32F CH	42 CH	Function	Channel Value	Description
					6-20	Pan Reverse On
					21-25	Pan Reverse Off
					26-30	Tilt Reverse On
					31-35	Tilt Reverse Off
					36-40	Blackout When Moving On
					41-45	Blackout When Moving Off
					46-50	No Function
					51-55	Fan Set to Auto
					56-60	Fan Set to High
					61-65	Fan Set to Silent
					66-70	Fan Set to Ultra-Silent
					71-75	Dimmer Curve Linear
					76-80	Dimmer Curve Square
					81-85	Dimmer Curve Inverse Square
					86-90	Dimmer Curve S
					91-95	PWM Frequency: 400Hz
					96-100	PWM Frequency: 1200Hz
					101-105	PWM Frequency: 2000Hz
					106-110	PWM Frequency: 4000Hz
					111-115	PWM Frequency: 6000Hz
					116-120	PWM Frequency: 8000Hz
					121-125	PWM Frequency: 16kHz
					126-130	PWM Frequency: 24kHz
					131-135	Backlight Time: On
					136-140	Backlight Time 15s

23 CH	32S CH	32F CH	42 CH	Function	Channel Value	Description
					141-145	Backlight Time 30s
					146-150	Backlight Time 60s
					151-155	Dimmer Speed Smooth
					156-160	Dimmer Speed Fast
					161-165	Reset Pan/Tilt
					166-170	Reset Effects
					171-175	Reset All
					176-180	DMX Loss: Hold
					181-185	DMX Loss: Go to Zero
					186-255	No Function

Maintenance

Routine Maintenance

Fan Cleaning

Periodically do a visual inspection of the fans. If they are dirty, power off the unit and use a small electronics vacuum to clean the fans out. Do not use a can of CO2 or an Air Compressor. These will simply blow the dust into the unit and may leave other residue.

Front Lens Cleaning

The front lens should be cleaned so that light output is maintained.

With the light powered off, use a moist, lint-free cloth. Never use alcohol or solvents to clean the fixture.

Never spray any cleaners on the fixture.

Troubleshooting Problems

The following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The unit does not work:

- Check that the unit is plugged in to a working power connector.
- Press the menu button to confirm that the unit is powered on. If the screen does not light up, the unit has no power.

B. Not Responding to the DMX Controller

- Check DMX cables to verify that they are plugged in and functional.
- Check the DMX address and mode – does it match the address and mode patched in the lighting console or software?
- Plug the light directly into the DMX controller with a cable that you know is good. Unplug all other lights – does it work?
- Try to use another DMX controller.

Technical Specifications

- LIGHT SOURCE
 - Light Source: 800W LED Engine
 - Total Lumen Output of engine: 52,500 lumens
 - Color Temperature Output of Fixture:7,000K
 - Life Expectancy:20,000 hours
- ELECTRICAL AND CONNECTORS
 - Rated Input Voltage: AC 100-240V~ 50/60 Hz
 - Total Power Consumption: 970W
 - Power Factor: ≥0.97
 - Input Current: 4.5A @ 220V
 - LED Lifespan: ≥20,000 hours
 - Power In/Out:Waterproof power connector in/out Data In/Out:3-pin or 5-pin waterproof XLR, RJ45 connector
- OPTICAL SYSTEM
 - Beam Angle: 5°–45°
 - Light Source: Single 800W LED
 - Luminous Flux: 31,500Lm
- CONTROL
 - 4 touch button control panel
 - Display:LCD display
 - Protocols: DMX512,RDM,Art-Net,sACN
 - Control Channels:42CH/32S CH/32F CH/23CH
- PATTERN SYSTEM

- Rotating Gobo Wheel: 7 patterns + 1 open, quick-swappable (Ø20mm outer / Ø15mm inner, 1.1mm thickness)
- Static Gobo Wheel: 8 patterns + 1 open Animation Wheel:1 slot,continuous bidirectional rotation PRISM 4-facet prism + 4-line prism, combinable with simultaneous rotation
- Shutter/Cutting System: 4 independent blades for fast and smooth cuts Individual control of blade direction and angle, full blackout capable per blade Full module rotation: ±60°
- **COLORS**
 - Color Temperature: 7000K
 - CRI: Ra72 (High-Brightness Mode) / Ra95(High-CRI Mode)
 - Color Wheel: 5 colors + CRI filter +1open
 - CMY + CTO Mixing: CTO 2700K–7000K
 - PAN&TILT Pan: 540°, Tilt: 260°, 8/16-bit precision
- **EFFECTS**
 - High-Speed Electronic Strobe: 1–25 Hz
 - LED Refresh Rate: 400 Hz–24kHz
 - Frost: Medium diffusion
 - Iris Range: 2.2–45°
- **PHYSICAL INFORMATION**
 - Dimensions: 358×240×692 mm
 - Weight: 66.14lbs (Integrated hook)
 - IP Rating: IP65
- RDM UID: 073A2095C41B

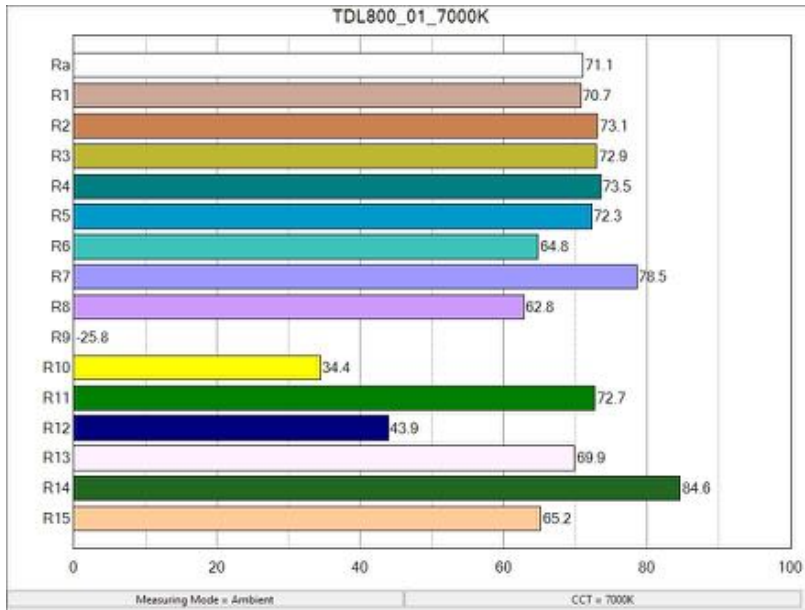
Photometrics

Full White

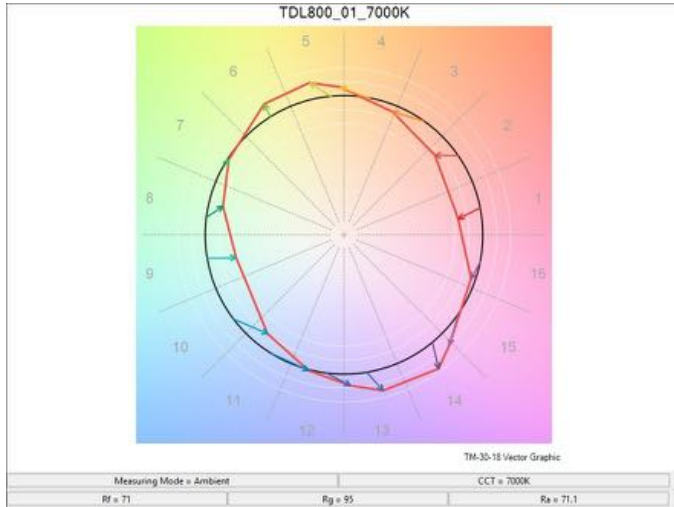
Distance in Ft	FC at Full - 5° (Narrow Zoom)	FC at Full - 25° (Zoom Center)	FC at Full - 45° (Wide Zoom)
5	52794	6506	1486
10	23794	2506	518
15	9393	1007	286
25	5486	376	77
50	1371	94	19
100	342	23.5	4.5

Color Quality

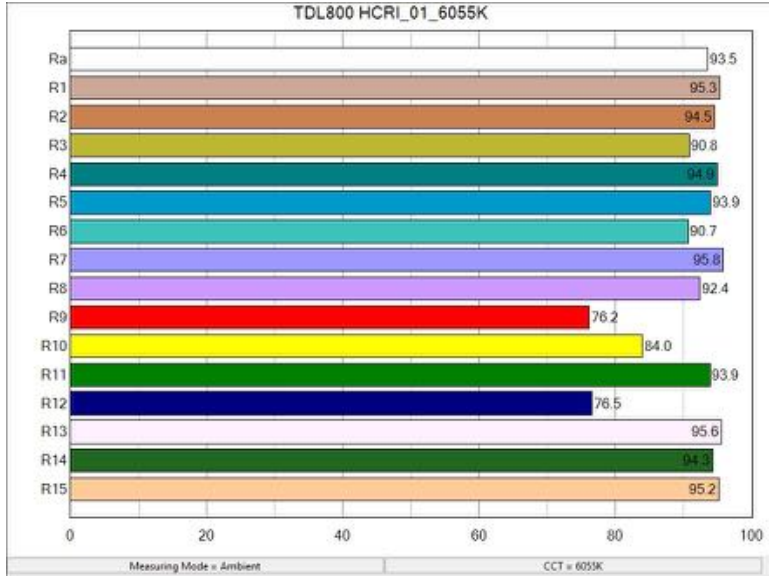
CRI - Full White



TM30 - Full White



CRI - With High CRI Filter Inserted



TM30 - With High CRI Filter Inserted

