

# ColorStars®

## 2012

R5 Series



High-bay lamps  
with DMX dimming

HB-F-WHT-180-DMX



# List of Products - By Series

Product	Page	Product	Page
AMBY Series	4	R4 Series	5
AMBY-A19-WHT-120		R4-A19-WHT	
AMBY-A19-WHT-230		R4-E10/E11/E14/E17E26/E27-WHT	
AQUA Series	9	R4-GU10-WHT	
AQUA-RGB-15/30/60		R4-MR16-WHT	
AQUA-WHT-15/30/60		R4-DL6-WHT	
BOBBY	12	R4S Series	5
BOBBY-AR111X-RGB-40		R4-MR16-WHT	
CANDLE Series	6	R5 Series	4
CANDLE-E12/E14-WHT-110		R5-AR111X-WHT-120	
CANDLE-E12/E14-WHT-220		R5-AR111X-WHT-230	
COZY Series	12	R5-MR16-WHT	
COZY-A19-WHT-110 IP65		R5-PAR20-WHT-120	
COZY-A19-WHT-220 IP65		R5-PAR20-WHT-230	
EZSTAR Series	8	R5-PAR30-WHT-120	
EZSTAR15cm-WHT		R5-PAR30-WHT-230	
EZSTAR30cm-WHT		R5-PAR38-WHT-120	
EZSTAR15cm-WHT IP67		R5-PAR38-WHT-230	
EZSTAR30cm-WHT IP67		ROUND ROCK Series	9
EZSTAR10cm-RGB		RR-IG094-WHT-30	
EZSTAR30cm-RGB		RR-FLO94-WHT-30	
EZSTAR10cm-RGB IP67		RR-IG152-WHT-30	
EZSTAR30cm-RGB IP67		RR-FL152-WHT-30	
HIGH-BAY Series	7	RR-AQIG094-WHT-30	
HB-E39/E40-WHT-120		RR-AQFLO94-WHT-30	
HB-E39/E40-WHT-180		RR-AQIG152-WHT-30	
HB-E39/E40-WHT-120T		RRAQ-FL152-WHT-30	
HB-E39/E40-WHT-180T		STARSTRIP Series	8
HB-F-WHT-120-DMX		STARSTRIP-24-WHT	
HB-F-WHT-180-DMX		STARSTRIP-24-WHT IP67	
LOW-BAY Series	7	STARSTRIP-24-RGB	
LB-E39/E40-WHT-60		STARSTRIP-24-RGB IP67	
LB-E39/E40-WHT-90		T5	11
LB-E39/E40-WHT-60T		T5-24-WHT	
LB-E39/E40-WHT-90T		TRISTAR-T8 Series	11
LUXMAN Series	10	TRISTAR-T8-2-WHT	
LUXMAN-12		TRISTAR-T8-4-WHT	
LUXMAN-12 IP67		TB60 and TB600 (Ultra-thin) Series	11
LUXMAN-16 IP67		TB60-60-WHT	
LUXMAN-18		TB595-WHT	
LUXMAN-24 IP67		TB600-WHT	
LUXMAN-36		ZZ-BRITE Series	6
LUXMAN-36 IP67		ZZ-BRITE-215-WHT	
LUXMAN-SL Series	10	ZZ-BRITE-415-WHT	
LUXMAN-SL-3X4		ZZ-BRITE-RGB	
LUXMAN-SL-3x6			
LUXMAN-SL-6X4			
LUXMAN-SL-6x5			
LUXMAN-SL-6x6			
LUXMAN-SL-6x8			
LUXMAN-SL-6x10			

# List of Products - By Type

Product	Page	Product	Page
A19		LOW BAY	
AMBY-A19-WHT	4	LB-E39/E40-WHT-60	7
R4-A19-WHT	6	LB-E39/E40-WHT-90	7
		LB-E39/E40-WHT-60T	7
		LB-E39/E40-WHT-90T	7
AR111		LED CHANNEL LETTERS	
BOBBY-AR111X-RGB-40	12	ZZ-BRITE-215-WHT	6
R5-AR111X-WHT	9	ZZ-BRITE-415-WHT	6
		ZZ-BRITE-RGB	6
B22		LED MODULES	
AMBY-A19/B22-WHT-230	4	EZSTAR15cm-WHT	8
R4-A19-WHT	6	EZSTAR30cm-WHT	8
		EZSTAR15cm-WHT IP67	8
		EZSTAR30cm-WHT IP67	8
		EZSTAR10cm-RGB	8
		EZSTAR30cm-RGB	8
		EZSTAR10cm-RGB IP67	8
		EZSTAR30cm-RGB IP67	8
E10/E11/E14/E17/E26/E27		POOL - UNDERWATER - INGROUND	
R4-E10/E11/E14/E17/E26/E27-WHT	5	AQUA-RGB-15/30/60	9
		AQUA-WHT-15/30/60	9
		RR-IG094-WHT-30	9
		RR-FLO94-WHT-30	9
		RR-IG152-WHT-30	9
		RR-FL152-WHT-30	9
		RR-AQIG094-WHT-30	9
		RR-AQFLO94-WHT-30	9
		RR-AQIG152-WHT-30	9
		RRAQ-FL152-WHT-30	9
GU10		STREET LIGHTING	
R4-GU10-WHT	5	LUXMAN-SL-3X4	10
		LUXMAN-SL-3x6	10
		LUXMAN-SL-6X4	10
		LUXMAN-SL-6x5	10
		LUXMAN-SL-6x6	10
		LUXMAN-SL-6x8	10
		LUXMAN-SL-6x10	10
MR16		STRIP LIGHTING	
R4-MR16-WHT	5	STARSTRIP-24-WHT	8
R4S-MR16-WHT	5	STARSTRIP-24-WHT IP67	8
R5-MR16-WHT	4	STARSTRIP-24-RGB	8
R5-MR16-WHT-CREE	4	STARSTRIP-24-RGB IP67	8
PAR20 / PAR30 / PAR38		WALL WASHERS	
R5-PAR20-WHT-120	4	LUXMAN-12	10
R5-PAR20-WHT-230	4	LUXMAN-12 IP67	10
R5-PAR30-WHT-120	4	LUXMAN-16 IP67	10
R5-PAR30-WHT-230	4	LUXMAN-18	10
R5-PAR38-WHT-120	4	LUXMAN-24 IP67	10
R5-PAR38-WHT-230	4	LUXMAN-36	10
		LUXMAN-36 IP67	10
T5 / T8			
T5-24-WHT	11		
TRISTAR-T8-2-WHT	11		
TRISTAR-T8-4-WHT	11		
T-BAR 60x60 light panel			
TB60-60-WHT	11		
TB595-WHT	11		
TB600-WHT	11		
CANDELABRA			
CANDLE-E12/E14-WHT-110	6		
CANDLE-E12/E14-WHT-220	6		
DOWNLIGHTS			
R4-DL6-WHT	6		
HIGH-BAY			
HB-E39/E40-WHT-120	7		
HB-E39/E40-WHT-180	7		
HB-E39/E40-WHT-120T	7		
HB-E39/E40-WHT-180T	7		
HB-F-WHT-120-DMX	7		
HB-F-WHT-180-DMX	7		

# LED innovations for 2012

## Introducing ColorStars' R5 Series

*The most beautiful PAR lamps in the world!*

*NEW for 2012!*



R5-PAR38-WHT



R5-PAR30-WHT



R5-PAR20-WHT



R5-MR16-WHT

### R5 Series - 120V or 230V dimmable

Model	Input Voltage	Input Current	Power Consumption	No. High-Power CREE LEDs	Luminous Flux (lm)		Luminous Efficacy (lumens/watt)	CRI	Power Factor	Base	Beam Angles
					Daylight White (5000K ±200K)	Warm White (3000K ±200K)					
R5-AR111X-WHT-120/230	120V or 230V	<128mA or <67mA	< 14W ±10%	9	1,050 ±10%	910 ±10%	WHT-D: 75 lm/W	WHT-D: 70+	0.90	E26, E27	30° / 60°
R5-PAR20-WHT-120/230		<85mA or <45mA	< 10W ±10%	7	807 ±10%	571 ±10%					
R5-PAR30-WHT-120/230		<125mA or <67mA	< 14W ±10%	9	1,070 ±10%	742 ±10%	WHT-W: 65 lm/W	WHT-W: 80+			
R5-PAR38-WHT-120/230		<150mA or <86mA	< 17W ±10%	12	1,350 ±10%	950 ±10%					

### R5-MR16-WHT Series

Model	Input Voltage	Input Current	Power Consumption	Color Temperature	Luminous Flux (lm)	CRI	Base	Beam Angles
R5-MR16-WHT-D	12Vac	<500mA	< 6W	5200K ±10%	340 lm ±10%	70	GU5.3	15°, 30°, 60°
R5-MR16-WHT-W				3000K ±10%	300 lm ±10%	80		
R5-MR16-WHT-D-CREE				5200K ±10%	340 lm ±10%	70		
R5-MR16-WHT-W-CREE				3000K ±10%	300 lm ±10%	80		

The R5-MR16-WHT-15 lamps are non-dimmable.

*NEW for 2012!*



AMBY-A19-WHT

- 12W A19 lamp dimmable with TRIAC dimmers.
- Uniform light source.
- Patented optical design provides nearly 360° light distribution.
- Can replace a 60W incandescent lamp with up to 85% less power.
- Suitable for a wide range of lighting applications: hotels, offices, residences, restaurants, etc.

### AMBY-A19-WHT dimmable

Model	Input Voltage	Input Current	Power Consumption	Luminous Flux (lm)		Luminous Efficacy (lumens/watt)	CRI	Power Factor	Bases	Light Distribution
				Daylight White (5000K ±200K)	Warm White (3000K ±200K)					
AMBY-A19-WHT-120	120V	110mA	>12W±10%	800	660	WHT-D: 65 lm/W WHT-W: 53 lm/W	80+	WHT-D: 0.96 WHT-W: 0.98	B22, E26, E27	nearly 360°
AMBY-A19-WHT-230	230V	60mA	>12W±10%	800	660					

## Introducing ColorStars' 7W R4S-MR16-WHT

Model	R4S-MR16-WHT*
Power Supply Voltage (Typ)	12~18Vac/12~24Vdc
Power Supply Current	<700mA
Power Consumption	< 7W
Operating Life	Min. 70% lumen maintenance after 35,000 hours
Operation Temperature	-20~50° C
Storage Temperature	-40~60° C
Operation Humidity	10~90%
Dimensions: Length (mm)	38.0 mm
Dimensions: Diameter (mm)	49.5mm

\* R4S-MR16-WHT lamps are dimmable with linear AC transformers and some electronic transformers.



*NEW for 2012!*

*7-watt R4S-MR16-WHT lamps with up to 480 lumens.*

*Dimmable with linear AC transformers.*

Model	Lumen Output (lm)	CRI	Color Temperature	Beam Angle
R4S-MR16-WHT-D-30	480 lm ±10%	70	5500 ±200k	30°
R4S-MR16-WHT-W-30	400 lm ±10%		3000 ±200k	
R4S-MR16-WHT-D-45	480 lm ±10%		5500 ±200k	45°
R4S-MR16-WHT-W-45	400 lm ±10%		3000 ±200k	
R4S-MR16-WHT-D-30	410 lm ±10%	80	5500 ±200k	30°
R4S-MR16-WHT-W-30	340 lm ±10%		3000 ±200k	
R4S-MR16-WHT-D-45	410 lm ±10%		5500 ±200k	45°
R4S-MR16-WHT-W-45	340 lm ±10%		3000 ±200k	

## R4 Series

Model	Beam Angle	Lumen Output (lm)	Color Temperature
R4-XXX-WHT-D-85	85°	260 lm ±10%	5500 ±200k
R4-XXX-WHT-W-85		245 lm ±10%	3000 ±200k
R4-XXX-WHT-D-50	50°	260 lm ±10%	5500 ±200k
R4-XXX-WHT-W-50		245 lm ±10%	3000 ±200k
R4-XXX-WHT-D-L-55	55° (with lens)	245 lm ±10%	5500 ±200k
R4-XXX-WHT-W-L-55		235 lm ±10%	3000 ±200k
R4-XXX-WHT-D-45	45°	330 lm ±10%	5500 ±200k
R4-XXX-WHT-W-45		300 lm ±10%	2700 ±200k
R4-XXX-WHT-D-40	40° (with lens)	270 lm ±10%	5500 ±200k
R4-XXX-WHT-W-40		260 lm ±10%	3000 ±200k
R4-XXX-WHT-D-35	35°	310 lm ±10%	5500 ±200k
R4-XXX-WHT-W-35		260 lm ±10%	3000 ±200k
R4-XXX-WHT-D-30	30°	350 lm ±10%	5500 ±200k
R4-XXX-WHT-W-30		320 lm ±10%	2700 ±200k
R4-MR16-WHT-D-15*	15°	260 lm ±10%	5500 ±200k
R4-MR16-WHT-W-15*		245 lm ±10%	3000 ±200k

\* R4 Series lamps with a 15° beam angle are only produced with an MR16 GU5.3 base. There is a 1,000 pc minimum order quantity.

*6-watt MR16, GU10 and E27 lamps with up to 350 lumens.*



R4-MR16-WHT

*Dimmable with linear AC transformers!*



R4-GU10-WHT



R4-E27-WHT

Model	R4-MR16-WHT*	R4-GU10-WHT	R4-EXX-WHT**
Power Supply Voltage (Typ)	12~18Vac/12~24Vdc	100VAC~240VAC	
Power Supply Current	<500mA	<100mA	
Power Consumption	< 6W		
Operating Life	Min. 70% lumen maintenance after 35,000 hours		
Operation Temperature	-20~50° C		
Storage Temperature	-40~60° C		
Operation Humidity	10~90%		
Dimensions: Length (mm)	38.0 mm	46.2 mm	61.2 mm
Dimensions: Diameter (mm)	49.5mm		

\* R4-MR16-WHT lamps are dimmable with linear AC transformers and some electronic transformers.

\*\*E10, E11, E14, E17, E26 and E27 bases available.

# R4 Series cont.

## R4-DL6-WHT Downlight Series

Model	R4-DL6-WHT
Input Voltage	100~240Vac
Input Current	<120mA
Power Consumption	< 12W±10%
Operating Life	Min. 70% lumen maintenance after 35,000 hours
Operation Temperature	-20~50° C
Storage Temperature	-40~60° C
Dimensions	67 (H) x Ø175mm
Installation Diameter	Ø150 mm
Suggested Height	3~4 meters (9~12 ft.)

R4-DL6-WHT



Dimmable models available with 0~100% dimming.

Model	Lumen Output (lm)	Efficacy	Color Temperature
R4-DL6-WHT-W	660 ±10% lm	50 lm/W	2700~3300k
R4-DL6-WHT-D	600 ±10% lm	55 lm/W	5500~7000k

## R4-A19-WHT

Model	R4-A19-WHT-9
Input Voltage	100~240Vac
Input Current	<90mA
Power Consumption	< 8W±10%
Operating Life	Min. 70% lumen maintenance after 35,000 hours
Operation Temperature	-20~50° C
Storage Temperature	-40~60° C
Dimensions	110 (H) x Ø60mm



R4-A19-WHT

Model	Lumen Output (lm)	Efficacy	Color Temperature
R4-A19-WHT-W	450 ±10% lm	56 lm/W	2600~3300k
R4-A19-WHT-D	500 ±10% lm	63 lm/W	5300~7000k

Dimmable models available with 0~100% dimming with TRIAC dimmers:  
 R4-A19-WHT-D-9-120/R4-A19-WHT-W-9-120 - 100~120Vac; <90mA  
 R4-A19-WHT-D-9-230/R4-A19-WHT-W-9-M2 - 220~240Vac; <45mA

# CANDLE Series

## CANDLE-E12-WHT / CANDLE-E14-WHT

Model	CANDLE-E12-WHT / CANDLE-E14-WHT
Input Voltage	100~135Vac / 200~245Vac
Input Current	<22mA
Power Consumption	< 2.5W
Operating Life	Min. 70% lumen maintenance after 35,000 hours
Operation Temperature	-20~50° C
Storage Temperature	-40~60° C
Dimensions	98 (H) x Ø36mm
Weight	31g



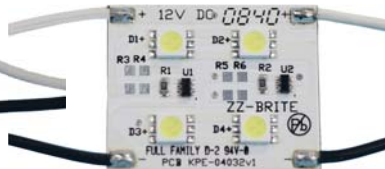
Model	Lumen Output (lm)	Color Temperature
CANDLE-E12-WHT-W-110	150 ±10% lm	2600~3300k
CANDLE-E12-WHT-D-110		5300~7000k
CANDLE-E14-WHT-W-110		2600~3300k
CANDLE-E14-WHT-D-110		5300~7000k
CANDLE-E14-WHT-W-220		2600~3300k
CANDLE-E14-WHT-D-220		5300~7000k

# ZZ-BRITE Series

Model	Operating Voltage	Power Consumption (per ft.)	LED Quantity/ PCB	LED Luminous Intensity (Typ) 1 LED	Color/Color Temperature	Beam Angle	Operating Life	Operation Temperature	Storage Temperature
ZZ-BRITE-215-WHT	12Vdc	1.2W	2 SMD LEDs	3600 mcd	Warm White: 3000K ~ 3500K Cool White 6000K ~ 6500K	120°	Min. 70% lumen maintenance after 35,000 hours.	-20° ~ 50° C	-20° ~ 80° C
ZZ-BRITE-415-WHT		2.2W	4 SMD LEDs						
ZZ-BRITE-RGB		1.7W	3 SMD LEDs						



ZZ-BRITE-215-WHT



ZZ-BRITE-415-WHT



ZZ-BRITE-RGB

# HIGH BAY Series

HIGH-BAY Series								
Model	Input Voltage	Input Current	Power Consumption	LED Chips	Lumen Output (lm)	Beam Angle	Socket Type	Weight (kg)
HB-E40-WHT-120	100~277 Vac (50~60Hz)	<1.2A ±10%	120W	CREE chips	9,500 ±10%	140°	E39, E40 Optional: ring with bare wires or Stand (F)	3.2
HB-E40-WHT-180		<1.8A ±10%	180W		14,200 ±10%			3.4
HB-E40-WHT-120T	305 Vac Max. Voltage	<1.2A ±10%	120W	Taiwan chips	8,500 ±10%	110°		3.2
HB-E40-WHT-180T		<1.8A ±10%	180W		12,800 ±10%			3.4

## Notes:

- Over temperature protection: Power shuts off at 105° C.
- Color Temperature: Daylight White: 5500 ±200K
- Operating Life: Minimum 70% lumen maintenance after 35,000 hours.
- Dimensions: Length - 360mm; Diameter - 300mm.
- Recommended installation height: 5~8 meters (15~24 ft.)
- Operating Temperature: ~20° ~ 50° C
- Storage Temperature: -40° ~ 60° C
- Operating Humidity: 10 ~ 90%



*NEW for 2012!*

*The iDimmer-DMX with the iDriver-DMX-150  
for DMX dimming of the HIGH BAY Series lamps*

iDimmer-DMX



# LOW BAY Series

LOW-BAY Series								
Model	Input Voltage	Input Current	Power Consumption	LED Chips	Lumen Output (lm)	Beam Angle	Socket Type	Weight (kg)
LB-E40-WHT-60	100~277 Vac (50~60Hz) 305 Vac Max. Voltage	600mA ±10%	60W	CREE chips	5,230 ±10%	140°	E39, E40	1.2
LB-E40-WHT-90		900mA ±10%	90W		7,850 ±10%			

## Notes:

- Over temperature protection: Power shuts off at 105° C.
- Color Temperature: 5500K ±200K
- Operating Life: Minimum 70% lumen maintenance after 35,000 hours.
- Dimensions: Length - 260mm; Diameter - 200mm.
- Recommended installation height: 3~8 meters (15~24 ft.)
- Operating Temperature: ~20° ~ 50° C
- Storage Temperature: -40° ~ 60° C
- Operating Humidity: 10 ~ 90%

LB-E40-WHT-90

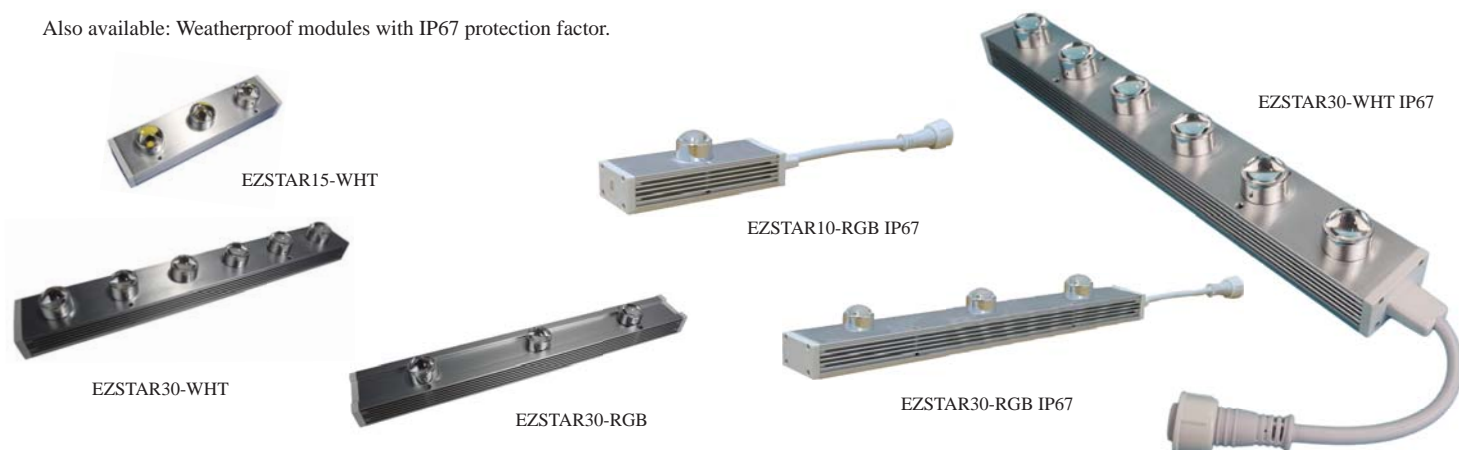


*New for 2012!*

# EZSTAR™ Series

Model	Power Supply Voltage	Power Supply Current	Power Consumption	Lumen Output (lm)	Operating Life	Length (mm)	Width (mm)	Height (mm)
EZSTAR15-WHT	12~18Vac	< 600mA	< 7.5W	WW: 380; WD: 420	Min. 70% lumen maintenance after 35,000 hours	150	40	20
EZSTAR30-WHT	13~22Vdc	< 1200mA	< 15W	WW: 760; WD: 840		300		
EZSTAR10-RGB	9~18Vac	< 600mA	< 6W			100		
EZSTAR30-RGB	9~22Vdc	< 1800mA	< 18W			300		

Also available: Weatherproof modules with IP67 protection factor.

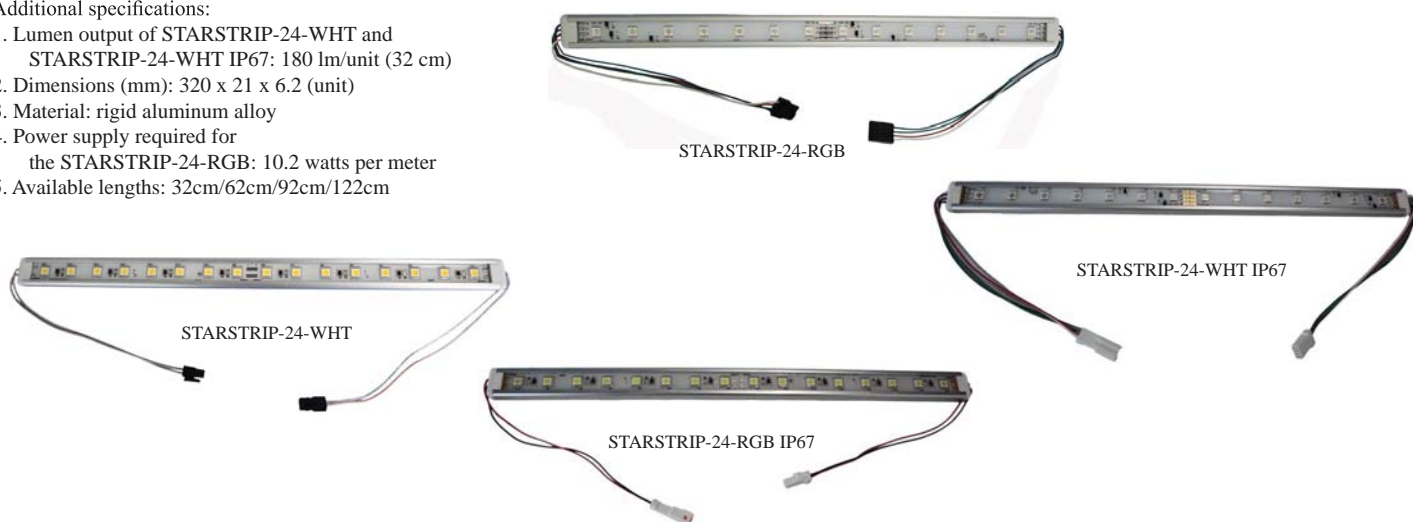


# STARSTRIP™ Series

STARSTRIP™ Series								
Model	LED Type	Input Voltage	Max. Watts/ Unit	LED Quantity/ Unit	LED Spacing (mm)	Beam Angle	Color/Color Temperature	Max. Length Connected Together
STARSTRIP-24-WHT	SMD single-color LED	24VDC	5W	16 LEDs	18.8	110°	Cool White (7000~9000K) Warm White (3300K)	20 meters
STARSTRIP-24-WHT IP67								
STARSTRIP-24-RGB	SMD RGB LED		3.4W	14 pcs	21.4	120°	Any color available with RGB color mixing	6 meters
STARSTRIP-24-RGB IP67								

Additional specifications:

1. Lumen output of STARSTRIP-24-WHT and STARSTRIP-24-WHT IP67: 180 lm/unit (32 cm)
2. Dimensions (mm): 320 x 21 x 6.2 (unit)
3. Material: rigid aluminum alloy
4. Power supply required for the STARSTRIP-24-RGB: 10.2 watts per meter
5. Available lengths: 32cm/62cm/92cm/122cm



# AQUA™ Series

Model	Voltage	Current	Power Consumption	Beam Angle	Pro-tection	Body	Diffuser	Finish	Dimensions	Weight	Connecting Cable Length
AQUA-RGB/WHT-60	24V	2.4A	60W	60°	IP68	Aluminum Alloy	Tempered, cold, heat-resistant glass	Black Powder Coating	90 (Dia) x 120 (H) mm	1,517 g	5-meters (15 ft.)
AQUA-RGB/WHT-30	12V		30W						63.5 (Dia) x 95 (H) mm	627 g	
AQUA-RGB/WHT-15	12V		1.2A						15W	50 (Dia) x 65 (H) mm	



AQUA™-WHT-15 AQUA™-WHT-30 AQUA™-WHT-60

Model	Luminous Output (lm)
AQUA-WHT-60	4,200~4,800 lm
AQUA-WHT-30	2,100~2,400 lm
AQUA-WHT-15	1,050~1,200 lm

Color Temperatures	
Warm White	3300K 100K
Daylight White	5500K 100K



AQUA™-RGB-15/30/60

AQUA-RGB Lamps	
Input wiring	R,G,B,V+

# ROUND ROCK™ Series

## ROUND ROCK Series - In-Ground, Flood and Underwater

Model	Type	Input Voltage	Power Consumption	Light Source	Luminous Efficacy Lumens/Watt	Recessed Opening	Dimensions	Weight	Accessory
RR-IG094-WHT-30	In-Ground	12VDC	3.6W	3 x 1W	WHT-D: 65 lm/W WHT-W: 55 lm/W	Ψ 120mm	Ψ107 x H 61mm	600 g	PC Mounting Sleeve
RR-FL094-WHT-30	Flood Light					Ψ94 x H 61mm	547 g	304# Stainless Steel Bracket	
RR-IG152-WHT-30	In-Ground	24VDC	12.6W	9 x 1W		Ψ 180mm	Ψ165 x H 62mm	1,535 g	PC Mounting Sleeve
RR-FL152-WHT-30	Flood Light					Ψ152 x H 62mm	1,402 g	304# Stainless Steel Bracket	
RR-AQIG094-WHT-30	Recessed Underwater	12VDC	3.6W	3 x 1W		Ψ 120mm	Ψ107 x H 61mm	1,034 g	PC Mounting Sleeve
RR-AQFL094-WHT-30	Underwater Flood Light					Ψ94 x H 61mm	982 g	304# Stainless Steel Bracket	
RR-AQIG152-WHT-30	Recessed Underwater	24VDC	12.6W	9 x 1W		Ψ 180mm	Ψ165 x H 62mm	2,367 g	PC Mounting Sleeve
RR-AQFL152-WHT-30	Underwater Flood Light					Ψ152 x H 62mm	2,241 g	304# Stainless Steel Bracket	

Additional specifications:

1. Protection: IP 68
2. Color Temperatures:  
Daylight White: 5500~6000K;  
Warm White: 2850~3050K
3. Beam Angle: 30°
4. CRI: Daylight White: >75; Warm White: >80
5. Material:  
In-ground and flood lights: Die-cast aluminum housing, powder-coated;  
Underwater lights: 304# Stainless Steel
6. Front Ring: 304# Stainless Steel
7. Glass: T=8mm tempered glass



**NEW for 2012!**

# LUXMAN™ Series

Model	Input Voltage	Input Current	Power Consumption	Lumen Output (lm)	Operating Life	Temperature	Environmental Temp.	Operating Temperature	Storage Temperature	Operating Humidity	Weight (kgs)	Dimensions (H x W x D) (cm)
LUXMAN™-12	100~240VAC (50~60Hz)	0.3A @ 110V 0.15A @ 220V	30W	1,680 lm	Min. 70% lumen maintenance after 35,000 hours	60°C	50°C	-20° ~ 50°C	-40° ~ 60°C	10~90%	2	13 x 36 x 4
LUXMAN™-12 IP67											3.6	28 x 20.8 x 8.6
LUXMAN™-16 IP67		0.4A @ 110V 0.167A @ 220V	40W	2,240 lm							5.7	28 x 44.5 x 15
LUXMAN™-24 IP67		0.6A @ 110V 0.3A @ 220V	60W	3,360 lm							5.5	36.5 x 36 x 8.3
LUXMAN™-36		0.83A @ 110V 0.42A @ 220V	90W	5,040 lm								
LUXMAN™-36 IP67												



LUXMAN-12



LUXMAN-18



LUXMAN-12 IP67



LUXMAN-16 IP67



LUXMAN-24 IP67



LUXMAN-36 IP67

# LUXMAN™ -SL Series

Model	Input Voltage	Input Current	Power Consumption	Lumen Output (lm)	Operating Life	Temperature	Operating Temperature	Storage Temperature	Operating Humidity	Weight (kgs)	Dimensions (L x W x H) (cm)	Suggested Installation Height (M)
LUXMAN™-SL-3x4	100~240VAC (50~60Hz)	< 300 mA	30W	1,680 lm	Min. 70% lumen maintenance after 35,000 hours	60°C	-20° ~ 50°C	-40° ~ 60°C	10~90%	4.3	23.3 x 32.7 x 11	3~5M
LUXMAN™-SL-3x6		< 450 mA	45W	2,520 lm						5.4	33.3 x 32.7 x 11	4~5M
LUXMAN™-SL-6x4		< 600mA	60W	3,360 lm						5.8	23.7 x 47.7 x 11	5~6M
LUXMAN™-SL-6x5		< 1.0A	100W	7,500 lm						7	27.5 x 47.7 x 11	8~9M
LUXMAN™-SL-6x6		< 1.2A	120W	9,000 lm						8	33.3 x 47.7 x 11	9~10M
LUXMAN™-SL-6x8		< 1.6A	160W	12,000 lm						9.4	43 x 47.6 x 11	10~11M
LUXMAN™-SL-6x10		< 2.0A	200W	15,000 lm						11	55.2 x 47.6 x 11	11~12M



LUXMAN-SL-3x4



LUXMAN-SL-3x6



LUXMAN-SL-6x4

Standard 2.5-Watt LEDs

**NEW for 2012!**  
**Brighter LEDs**  
**3-Watt LEDs**  
 with lumen output of  
 75 lumens per watt



LUXMAN-SL-6x5



LUXMAN-SL-6x6



LUXMAN-SL-6x8



LUXMAN-SL-6x10

# T5

T5					
Model	Input Voltage	Power Supply Current	Power Consumption	LED Quantity/Unit	Dimensions (LxWxH) (mm)
T5-24-WHT	24Vdc	< 360mA	8.4W	21 LEDs x 0.4W	580 x 17.5 x 40



T5-24-WHT  
Diffusion tube available

Additional specifications:

1. Color temperatures: Daylight White: 5000~5600K; Warm White: 3000~3300K
2. Operating life: Minimum 70% lumen maintenance after 35,000 hours.

# TRISTAR-T8-WHT Series

PARAMETERS	TRISTAR-T8-2-WHT	TRISTAR-T8-4-WHT
Power Supply Voltage	100~240 Vac	
Power Supply Current	< 120 mA	< 240 mA
Power Consumption	12W	24W
Length (mm):	580	1200
Diameter (mm):	30	30

Model	Color Temperature	Lumen Output
TRISTAR-T8-2-WHT-D	Daylight White: 5300~6500K	800 lm
TRISTAR-T8-4-WHT-D		1,800 lm
TRISTAR-T8-2-WHT-W	Warm White: 2600~3300K	650 lm
TRISTAR-T8-4-WHT-W		1,500 lm

1. Operating life: Minimum of 70% lumen maintenance after 35,000 hours.
2. Remove the starter and install the TRISTAR-T8.
3. Do not use with electronic ballasts.



# TB60 and TB600 (Ultra-thin) Series

TB60 and TB600 (Ultra-Thin) Series								
Model	Input Voltage	Power Consumption	LED Quantity/Unit	LED Luminous Intensity (Typ)	Color/Color Temperature	Operating Life	Operation Temperature	Dimensions (LxWxH) (mm)
TB60-60-WHT	100~240VAC (50~60Hz)	60W	280 SMD LEDs x 0.2W	WW: 2700 lm WC: 3300 lm	Warm White: 3000K ~ 3500K Cool White: 6000K ~ 6500K	Minimum 70% lumen maintenance after 35,000 hours.	-20° ~ 50° C	600 x 600 x 80
TB595-WHT		40W	Uniform light source. No hot spot. No stacking shadow.	WW: 2550 lm WC: 2900 lm	Warm White: 3500K Cool White: 5500K			595 x 595 x 10.3
TB600-WHT								598 x 598 x 10.3

NOTES:

1. Protection factor: Indoor use only
2. Material: Aluminum alloy
3. TB595/TB600 Series: CRI80



TB60-60-WHT



Diffusion panel

TB60-60-WHT-V

Dimmable models available with IR remote controller and rotary dial dimmer. The dimmable model can serve as a master and standard models can serve as slaves.



TB600-WHT

# BOBBY™ -AR111-RGB-40

Model	BOBBY-AR111-RGB-40		
Electrical:			
Part	Red	Green	Blue
Operating Current	350mA	350mA	350mA
Operating Voltage @ 350mA	12~18V DC	18.6~24V DC	18.6~24V DC
Power Consumption (max)	6.3W	8.4W	8.4W
Dominant Wavelength	620~630nm	525~535nm	455~465nm
Luminous Flux Typical	210 lm	330 lm	90 lm
Operating Life	Minimum 70% lumen maintenance after 35,000 hours		
Environment Specifications:			
Operating Temperature	-20° ~ 45° C		
Storage Temperature	-20° ~ 80° C		
Housing Material	Aluminum Alloy		
Dimensions	Ø111 x 38.6 mm		

*24W AR111 RGB LED spot light.*

*CCD350-DMX-24 constant current driver required. Beam angle: 40°*



BOBBY-AR111-RGB-40

# COZY™ -A19-WHT IP65 Series

COZY-A19-WHT IP65											
Model	Input Voltage	Input Current	Power Consumption	Luminous Flux (lm)		Luminous Efficacy (lumens/watt)	CRI	Power Factor	Base	Light Distribution	
				Daylight White (5000K ±300K)	Warm White (3000K ±200K)						
COZY-A19-WHT-120	120V	50mA	5W±10%	322	290	WHT-D: 64 lm/W WHT-W: 58 lm/W	80+	WHT-D: 0.92 WHT-W: 0.94	E27	Nearly 360°	
COZY-A19-WHT-230	230V	20mA	5W±10%	322	290						



COZY-A19-WHT IP65

*NEW for 2012!*

- 5W A19 lamp with weatherproof base
- Uniform light source.
- Patented optical design provides nearly 360° light distribution.
- Suitable for outdoor lighting applications.

## ColorStars®

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