

ECO Series 9AAR-HO
Energy Efficient LED Lighting
Up to 175W Watt replacement

FEATURED HIGHLIGHTS

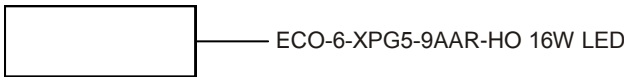
- *Unlimited application possibilities due to retrofitting
- *Saves up to 79% of energy consumption
- *100,000 hour lifespan 5yr. Manufacturers registered warranty
- *Return on Investment between 18 to 40 months.
- *Maintenance free
- *Green Product

ENVIRONMENTAL FEATURES

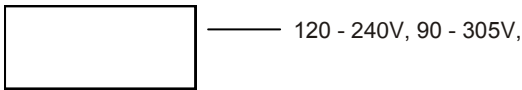
- *Contains no mercury or lead
- *Does not produce UV rays
- *Does not attract insects
- *Directional light means no light pollution

ELECTRICAL SPECIFICATIONS

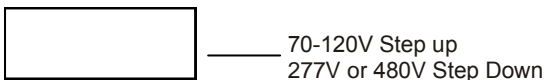
- *47 to 63 Hertz ac line power voltage from 90 VAC RMS to 277 VAC RMS
- *Available to 480 VAC
- *Nominal operating efficiency is 85% typical at 230 VAC and maximum load
- *Driver provides surge protection at 305 VAC
- *Power distributed to onboard drivers per six LED lights



Lamp Wattage



Voltage



Power Supply

Dimensions

Weight: 1 lb. (with power supply)
3" round x 1.375"

Issue Date: 4/22/11
Supersede Date: 4/22/11



SPECIFICATIONS

- **UL and CUL rated**
- **MADE IN THE U.S.A**

The ECO-9AAR-HO was specifically designed for spot and decorative lighting retrofits. Its superior heat management and compact design make it ideal, 10+ year retrofit no maintenance.

OUTPUT SPECIFICATIONS

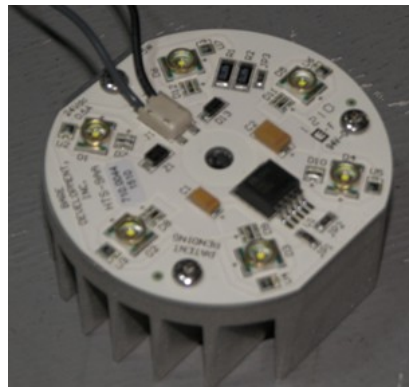
*Cree Inc XP-G Lamp	6
*Number of Lights	18 Watts
*Source power	74
*CRI	1566 at 100%
*Lumens	87 LM/W
*Efficacy	5823k
*Chromaticity: White Light	<60°C
*Junction Temperature	LM79 & LM80
*IESNA Tested	-30°C to 70°C
*Operating Range	90
*Nominal Lumens per watt	125°
*EMC: Complaint to 47 CFR, part 2, 15	
*Viewing angle	

ASSEMBLY

- *Metal Core Board
- *One piece aluminum heat sink dissipates heat
- *Vibration resistant
- *ASTM and NEMA Tested

APPLICATIONS

- *Decorative
- *Garages
- *Bollards
- *Spot Lighting



ECO Series 9AR-HO
Energy Efficient LED Lighting
175 to 250 Watt replacement

FEATURED HIGHLIGHTS

- *Unlimited application possibilities due to retrofiting
- *Saves up to 79% of energy consumption
- *100,000 hour lifespan 5yr. Manufacturers registered warranty
- *Return on Investment between 18 to 40 months.

ENVIRONMENTAL FEATURES

- *Contains no mercury or lead
- *Does not produce UV rays
- *Does not attract insects
- *Directional light means no light pollution

ELECTRICAL SPECIFICATIONS

- *47 to 63 Hertz ac line power voltage from 90 VAC RMS to 277 VAC RMS
- *Available to 480 VAC
- *Nominal operating efficiency is 85% typical at 230 VAC and maximum load
- *Driver provides surge protection at 305 VAC

SPECIFICATIONS

- **UL and CUL rated
- **MADE IN THE U.S.A

The ECO-9AR-HO was specifically designed for wall packs and decorative lighting retrofits. Its superior heat management and compact design make it ideal for retrofitting in existing fixtures, for 10+ years of maintenance free service.

OUTPUT SPECIFICATIONS

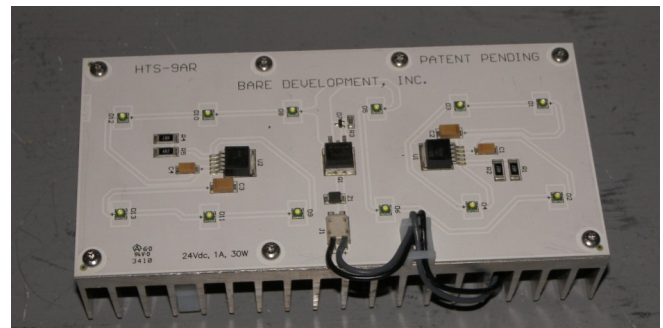
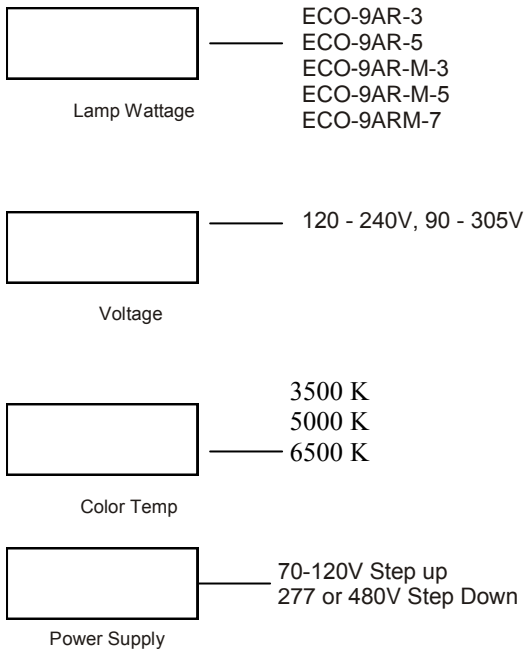
- *Cree High Output LEDs
- *Number of Lights **12**
- *Source power **34 Watts**
- *CRI **74**
- *Lumens **2958 at 100%**
- *Efficacy **87 LM/W**
- *Junction Temperature **<60°C**
- *IESNA Tested **LM79 & LM80**
- *Operating Range **-30°C to 70°C**
- *Nominal Lumens per watt **90**
- *EMC: Complaint to 47 CFR, part 2, 15
- *Viewing Angle **125°**

ASSEMBLY

- *Metal Core Board
- *One piece aluminum heat sink dissipates heat
- *Vibration resistant
- *ASTM and NEMA Tested

APPLICATIONS

- *Wall Packs
- *High Bay Fixtures
- *Parking Garages
- *Parking lots
- *Gas Station Canopies



Dimensions

Weight: 2 lbs. (with power supply)
7.25" x 3.38"

Issue Date: 5/20/11
 Supersede Date: 4/22/11



ECO Series 9R-HO

Energy Efficient LED Lighting

250 to 400 Watt replacement

FEATURED HIGHLIGHTS

- *Unlimited application possibilities due to retrofitting
- *Saves up to 79% of energy consumption
- *100,000 hour lifespan 5yr. Manufacturers registered warranty
- *Return on Investment between 18 to 40 months.

ENVIRONMENTAL FEATURES

- *Contains no mercury or lead
- *Does not produce UV rays
- *Does not attract insects
- *Directional light means no light pollution

ELECTRICAL SPECIFICATIONS

- *47 to 63 Hertz ac line power voltage from 90 VAC RMS to 277 VAC RMS
- *Available to 480 VAC
- *Nominal operating efficiency is 85% typical at 230 VAC and maximum load
- *Driver provides surge protection at 305 VAC
- *Power distributed to onboard drivers per six LED lights

SPECIFICATIONS

- **UL and CUL rated
- **MADE IN THE U.S.A

The ECO 9R-HO was specifically designed as a retrofit kit for existing wall packs, parking areas and roadway fixtures. Its superior heat management and compact design make it ideal, 10+ of maintenance free service in existing fixtures.

OUTPUT SPECIFICATIONS

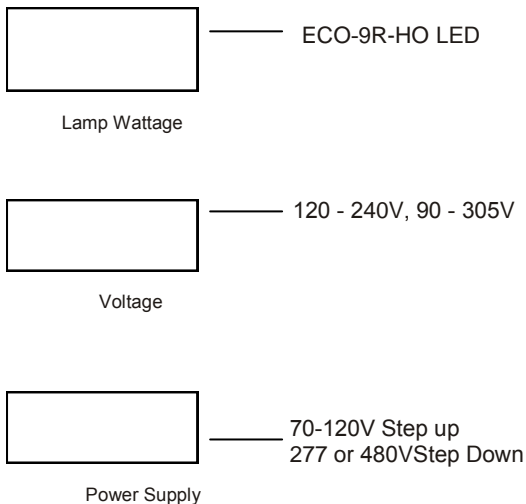
- *Cree Inc XP-G Lamp
- *Number of Lights **24**
- *Source power **68 Watts**
- *CRI **74**
- *Lumens **5916 at 100%**
- *Efficacy **87 LM/W**
- *Chromaticity: White Light **5823k**
- *Junction Temperature **<60°C**
- *IESNA Tested **LM79 & LM80**
- *Operating Range **-30°C to 70°C**
- *Nominal Lumens per watt **90**
- *EMC: Complaint to 47 CFR, part 2, 15
- *Viewing Angle **125°**

ASSEMBLY

- *Metal Core Board
- *One piece aluminum heat sink dissipates heat
- *Vibration resistant
- *ASTM and NEMA Tested

APPLICATIONS

- *Roadway Lighting
- *High Bay Fixtures
- *Parking lots/Parking Garages
- *Gas Station Canopies



Dimensions

Weight: 6 lbs. (with power supply)
7.25" x 7.25"

Issue Date: 4/22/11
Supersede Date: 4/22/11



ECO Series 8R-HO
Energy Efficient LED Lighting
400 to 750 Watt replacement

FEATURED HIGHLIGHTS

- *Unlimited application possibilities due to retrofitting
- *Saves up to 79% of energy consumption
- *100,000 hour lifespan 5yr. Manufacturers registered warranty
- *Return on Investment between 18 to 40 months.

ENVIRONMENTAL FEATURES

- *Contains no mercury or lead
- *Does not produce UV rays
- *Does not attract insects
- *Directional light means no light pollution

ELECTRICAL SPECIFICATIONS

- *47 to 63 Hertz ac line power voltage from 90 VAC RMS to 277 VAC RMS
- *Available to 480 VAC
- *Nominal operating efficiency is 85% typical at 230 VAC and maximum load
- *Driver provides surge protection at 305 VAC
- *Power distributed to onboard drivers per six LED lights

SPECIFICATIONS

- **UL and CUL rated
- **MADE IN THE U.S.A

The ECO 8R-HO was specifically designed for the service station and parking lot industry. Its superior heat management and compact design make it ideal for retrofitting existing fixtures commonly found in these environments.

OUTPUT SPECIFICATIONS

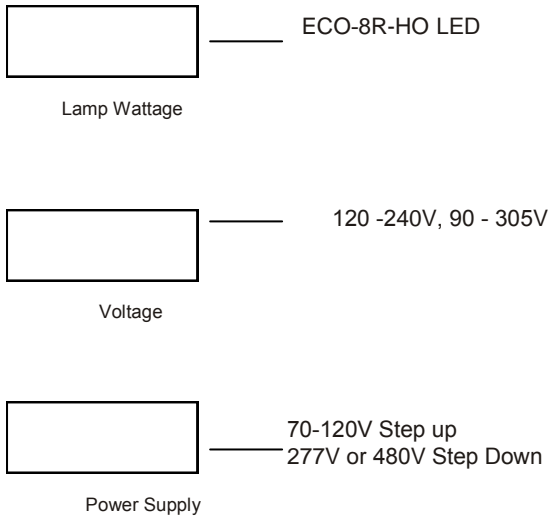
- *Cree Inc XM-L Lamp
- *Number of Lights **36**
- *Source power **98 Watts**
- *CRI **74**
- *Lumens **8526 at 100%**
- *Efficacy **87 LM/W**
- *Chromaticity: White Light **5823k**
- *Junction Temperature **<60°C**
- *IESNA Tested **LM79 & LM80**
- *Operating Range **-30°C to 70°C**
- *Nominal Lumens per watt **90**

ASSEMBLY

- *Metal Core Board
- *One piece aluminum heat sink dissipates heat
- *Vibration resistant
- *ASTM and NEMA Tested

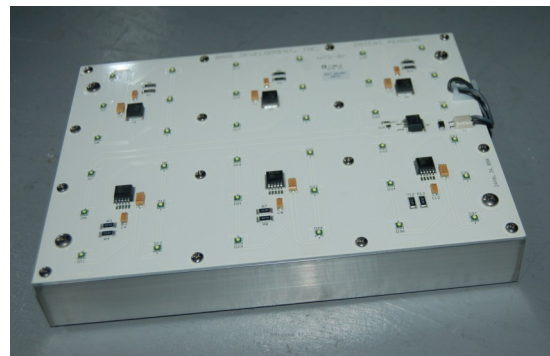
APPLICATIONS

- *Roadway Lighting
- *High Bay Fixtures
- *Parking Garages
- *Parking lots
- *Gas Station Canopies



Dimensions

Weight: 6 lbs. (with power supply)
7.25" x 10"



ECO Series 2x8R-HO

Energy Efficient LED Lighting

750-1000 Watt replacement

FEATURED HIGHLIGHTS

- *Unlimited application possibilities due to retrofitting
- *Saves up to 79% of energy consumption
- *100,000 hour lifespan 5yr. Manufacturers registered warranty
- *Return on Investment between 18 to 40 months.

ENVIRONMENTAL FEATURES

- *Contains no mercury or lead
- *Does not produce UV rays
- *Does not attract insects
- *Directional light means no light pollution

ELECTRICAL SPECIFICATIONS

- *47 to 63 Hertz ac line power voltage from 90 VAC RMS to 277 VAC RMS
- *Available to 480 VAC
- *Nominal operating efficiency is 85% typical at 230 VAC and maximum load
- *Driver provides surge protection at 305 VAC
- *Power distributed to onboard drivers per six LED lights

SPECIFICATIONS

- **UL and CUL rated
- **MADE IN THE U.S.A

The ECO 10R-HO was specifically designed for car dealerships, parking lots and street lighting. Its superior heat management and compact design make it ideal for retrofitting existing fixtures commonly found in these environments.

OUTPUT SPECIFICATIONS

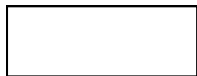
- *Cree High Output LEDs
- *Number of Lights 72
- *Source power 196 Watts
- *CRI 71
- *Lumens 17,052 at 100%
- *Efficacy 87 LM/W
- *Chromaticity: White Light 5823k
- *Junction Temperature <60°C
- *IESNA Tested LM79 & LM80
- *Operating Range -30°C to 70°C
- *Nominal Lumens per watt 90
- *EMC: Complaint to 47 CFR, part 2, 15
- *Viewing Angle 125°

ASSEMBLY

- *Metal Core Board
- *One piece aluminum heat sink dissipates heat
- *Vibration resistant
- *ASTM and NEMA Tested

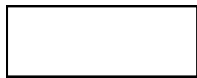
APPLICATIONS

- *Roadway Lighting
- *High Bay Fixtures
- *Parking Garages
- *Parking lots
- *Gas Station Canopies



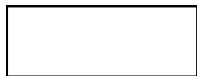
ECO-2x8R-HO-3
ECO-2x8R-HO-5
ECO-2x8R-HO-7

Lamp Wattage



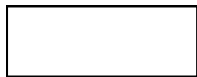
120 -240V, 90 - 305V

Voltage



3500 K
5000 K
6500 K

Color Temp



70-120V Step up
277V or 480V Step Down

Power Supply

Dimensions

Weight: 10 lbs. (with power supply)

10" X 7.25" X 1.50"

Issue Date: 5/20/11

Supersede Date: 4/22/11

Preliminary specification sheet



ECO Series 4x9R

Energy Efficient LED Lighting

1000 Watt Replacement

FEATURED HIGHLIGHTS

- *Unlimited application possibilities due to retrofitting
- *Saves up to 79% of energy consumption
- *100,000 hour lifespan 5yr. Manufacturers registered warranty
- *Return on Investment between 18 to 40 months.

ENVIRONMENTAL FEATURES

- *Contains no mercury or lead
- *Does not produce UV rays
- *Does not attract insects
- *Directional light means no light pollution

ELECTRICAL SPECIFICATIONS

- *47 to 63 Hertz ac line power voltage from 90 VAC RMS to 277 VAC RMS
- *Available to 480 VAC
- *Nominal operating efficiency is 85% typical at 230 VAC and maximum load
- *Driver provides surge protection at 305 VAC
- *Power distributed to onboard drivers per six LED lights

SPECIFICATIONS

- **UL and CUL rated
- **MADE IN THE U.S.A

The ECO 4x9R-HO was specifically designed for car dealerships, parking lots and street lighting. Its superior heat management and compact design make it ideal for retrofitting existing fixtures commonly found in these environments.

OUTPUT SPECIFICATIONS

- *Cree High Output LEDs 96
- *Number of Lights 74
- *Source power 257 Watts
- *CRI 74
- *Lumens 22,359 at 100%
- *Efficacy 87 LM/W
- *Chromaticity: White Light 5823k
- *Junction Temperature <60°C
- *IESNA Tested LM79 & LM80
- *Operating Range -30°C to 70°C
- *Nominal Lumens per watt 90
- *EMC: Complaint to 47 CFR, part 2, 15
- *Viewing Angle 125°

ASSEMBLY

- *Metal Core Board
- *One piece aluminum heat sink dissipates heat
- *Vibration resistant
- *ASTM and NEMA Tested

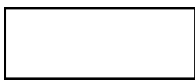
APPLICATIONS

- *Roadway Lighting
- *High Mast Fixtures
- *Building Uplighting
- *Parking lots
- *Sports Lighting



ECO-4x9R-R-3
ECO-4x9R-R-5
ECO-4x9R-R-7

Lamp Wattage



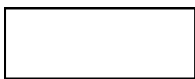
120 -240, 90 - 305,

Voltage



3500 K
5000 K
6500 K

Color Temp



70-120V Step up
277 or 480V Step Down

Power Supply

Dimensions

Weight: 10 lbs. (with power supply)

22" Dia. X 1.50"

Issue Date: 5/20/11

Supersede Date: 4/22/11

