

**HALO**

# LED

Recessed Lighting  
in the 21st century



**HALO LED**

Saves Energy  
Saves Money

**COOPER** Lighting

## APPLICATIONS



### Sustainable Lighting for Hospitality

Halo LED luminaires are ideal for creating maintenance-free public spaces. Hotels, restaurants and night-time businesses will reduce expensive electric bills and maintenance costs by choosing the Halo LED downlight. Luminaires will last approximately eleven years based on twelve hours of use per day.



### Maintenance-Free for Healthcare

Cooper Lighting's LED's are ideal for creating low maintenance public spaces, patient rooms and recovery rooms. Energy efficient fixtures reduce energy consumption and LED's long life lowers maintenance costs. A warm white color temperature creates a familiar home-like environment.



### Comparable Task Lighting for Commercial Spaces

Focus on the importance of lighting. Halo LED luminaires provide light output comparable to traditional sources while saving energy and eliminating the inconvenience and distraction of frequent maintenance.



### Unique Benefits for Retailers

LED luminaires do not emit damaging ultraviolet or infrared wavelengths so garments and fabrics can be illuminated without color deterioration. An LED does not emit heat like traditional light sources reducing the load on air conditioning systems.



### Comfortable Illumination for the Home

Quality optical design provides light output and distribution comparable to an incandescent lamp source. Excellent cut-off, color quality and a warm white color temperature create an enjoyable illuminated environment. Full range dimming provides the ability to set different moods.

## **HALO LED FEATURES**

**Superior light quality**

**Consumes 75% less  
energy compared to  
65W BR30  
incandescent lamp**

**For use in new  
construction or existing  
applications**

**Uses less than  
15 watts**

**600 lumen output**

**Projected 50,000  
hour life**

**Warm color temperature  
(3000°K with CRI over 80)**

**Greater than 40 lumens  
per watt**

**Dimmable**

**Designed to last**

**Virtually maintenance free**

**Three year  
limited warranty**

# Features and Benefits of LED Lighting

## Revolutionary Lighting Technology

An LED (Light Emitting Diode) is composed of various semiconductor materials and when an electrical current passes through the diode, the recombination of positive and negative charges within the different compositions results in the emission of photons or light. LED's are also referred to as "Solid State lighting."

Environmental and legislative awareness continues to drive demand for energy efficient lighting solutions in residential and commercial applications. LED luminaires are high-efficiency alternatives to traditional light sources. Capitalize on the light quality, longevity and convenience benefits of solid state lighting.

## Reduces the Environmental Impact of Lighting

The supply of fossil fuels impacts lighting and all energy consuming products. Lighting fixtures constitute a large percentage of electric utility bills - as much as 40% in some commercial facilities. Lighting will need to change to meet higher mandated efficiency levels. Changes in the lighting industry are being driven by energy legislation that has been established to meet concerns of excessive consumption. The future of lighting is with high efficiency products that meet lower energy consumption levels.

## Saves Energy and Money

Changing one incandescent lamp to a HALO LED recessed downlight will save you hundreds of dollars over the life of the fixture. Changing multiple fixtures will significantly lower your electric bill and change how you view lighting. The Halo LED luminaire is more efficient than traditional light sources consuming 75% less energy than a 65 watt incandescent lamp.

## Increases Reliability

LED's are solid state devices that do not have filaments or glass components that could break. Due to LED's solid state principles the light source is not susceptible to vibration reducing the risk of premature failure. Over 70% of the initial light output is maintained after 50,000 hours of operation. The sustainability of the Halo LED fixture dramatically reduces maintenance and service costs over traditional sources. The Halo LED fixture can last five times longer than a fluorescent or fifty times longer than an incandescent source.

## Reduces Energy Cost

10 Fixtures operating for 50,000 hours at 10¢/Kwh

14W LED=\$700 (10 fixtures operating over 50,000 hrs.)



65W Incandescent=\$3,250 (10 fixtures operating over 50,000 hrs.)



## LED Life

Six hours use per day 50,000 Hour Life

LED = 22.8 years (50,000 hour life)



Incandescent= 0.46 years (published 1,000 hour life)



Fluorescent=5.5 years (published 12,000 hour life)



SUSTAINABLE AND ENERGY EFFICIENT

# LED Module

**ML706830 LED Module includes LED, Driver, Heat Sink, Torsion Springs and Edison Base Adapter**

## Quality of Light

The HALO LED luminaire provides light output and distribution comparable to a 65 watt BR30 incandescent lamp or an 18 watt compact fluorescent lamp. It provides excellent color rendering; a warm white color temperature, and produces over 600 productive beam lumens out of the luminaire. The superior optical design also yields good cutoff and low-glare. The Halo luminaire can be dimmed to 15% (nominal) with most standard AC incandescent analog dimmers and is capable of dimming to 5% (nominal) with select incandescent dimmers that have a low-end adjustment.

## Cutoff

The cutoff angle of a luminaire is the angle when the brightness of the source is no longer visible. This is the deciding factor for visual comfort in a lighting system. Deep cutoff optics are desirable in creating low brightness luminaires, allowing the eye to see more effectively. The Halo LED downlight provides a 50° cutoff and low-glare.

## Modular Design

Installation and replacement is simple. The product is contractor friendly and installs in the same manner as a lamp. The ML706830 is designed for use in the dedicated H750ICAT housing for new construction applications or for retrofit application with a screw-in Edison base adapter (included with module) for use in existing HALO or ALL-PRO H7 housings. The HALO LED Module is compatible with H7 AIRTITE, IC rated housings and is Title 24 compliant when used with the dedicated LED H750ICAT housing.

## Engineering and Construction

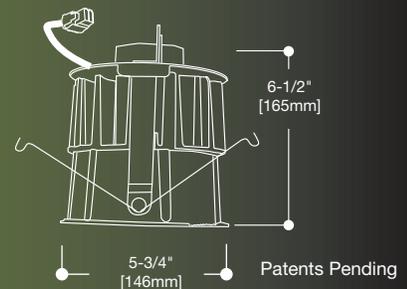
Durable die-cast aluminum construction conducts heat away from the LED keeping the junction temperatures below specified maximums even when installed in insulated ceiling environments. The LED module is controlled with a high efficiency driver with a power factor of  $>.90$  at an input power of 120V, 60 Hz.

## Features

- Comparable in light output and distribution to a 65 watt BR30 incandescent lamp or an 18 watt compact fluorescent luminaire while consuming less than 15 watts of electricity.
- Exceeds high efficacy requirements for California Title 24 2005 standard
- Can be dimmed to 15% (nominal) with most standard AC incandescent analog dimmers and is capable of dimming to 5% (nominal) with select incandescent dimmers that have a low-end adjustment.
- Excellent color rendering (80 nominal CRI) and warm white color temperature (3045K nominal).
- Does not emit damaging ultraviolet or infrared wavelengths that could damage fabrics and merchandise.
- Does not emit heat like traditional light sources.
- No mercury is present eliminating special recycling requirements.
- Patent pending optical design provides 50° cutoff and low glare.
- Product life is rated for 50,000 hours at 70% lumen maintenance (or approximately 20 years based on six hours of use per day).
- Compatible HALO and ALL-PRO housings include: H750ICAT, H7ICAT, H7ICATNB, H7ICT, H7ICTNB, H7RICAT, H7RT, H7T, H7TNB, EI700AT, EI700NB, EI700ATNB, EI700RAT, EI700, ET700, EI700R, ET700R.
- Multiple trim and reflector options including a wet location listed shower trim.
- High efficiency driver: power factor of  $>.90$  at an input power of 120V, 60Hz.
- Cooper Lighting provides a three year warranty on the Halo LED Module.

## HALO LED Module

**T24  
2005  
California Title 24  
Compliant**



## HALO LED Module, H750ICAT Housing and 494H06 Trim



**PERFORMS LIKE A TRADITIONAL DOWNLIGHT**

# Dedicated HALO LED Housings

## New Construction Housing H750ICAT

- 6" Aperture New Construction Housing
- For Use With Halo 6" LED Modules
- Meets high efficacy California Title 24 - 2005 standard
- For Use in Insulated Ceilings - May Be Covered with Insulation
- AIR-TITE™ to Meet Restricted Airflow Requirements per ASTM-E283
- UL Listed Connector for Easy Installation
- Input 120V Line Voltage
- UL/cUL Listed

## Compliance

The Halo LED fixture is designed to exceed the highest energy efficiency codes and standards in the industry. The HALO LED recessed luminaire exceeds high efficacy requirements for California Title 24 with energy savings in excess of 75% when compared to incandescent lamps.

## Product Standards

HALO LED H7 Collection is in compliance with UL/cUL requirements. Module is compatible with IC-rated HALO housings for direct contact with insulation. The dedicated LED new construction housing (H750ICAT) exceeds California's high efficiency Title-24 standards and meets Restricted Air Flow Standard ASTM-E283.



## Housing Features - Got Nail! Hanger Bars

The H750ICAT features the GOT NAIL!™ hanger bars with a preinstalled ready to use nail that easily penetrates regular lumber as well as engineered lumber, I-joists, and laminated veneer beams.

- The nail is regressed to prevent snagging and to ensure straight penetration.
- The right levelling flange on the hanger bar rests on the bottom of the joist and the housing can be held in position with one hand while the nails are hammered into the joist.

- Should it be necessary to reposition the housing, the bar hanger can be removed with a claw hammer without damaging the nail or the bar hanger.
- To accommodate tight joist spacing, the patented Pass-N-Thru™ feature allows tool-free shortening of bar hangers if necessary without having to remove them from the housing.



The H750ICAT features the GOT NAIL!™ hanger bars with a preinstalled ready to use nail that easily penetrates regular lumber as well as engineered lumber, I-joists, and laminated veneer beams. The nail is regressed to prevent snagging and to ensure straight penetration.

## Housing Features - Junction Box

The H750ICAT housing is provided with the Slide-N-Side III™ junction box wire traps.

- Wiring connections with non-metallic sheathed cable (NM) can be made outside the junction box first and then the NM cable can be slid into place in the wire trap.
- The H750ICAT housing is also equipped with Quick Connect wiring connectors.
- Simply trim the supply wires and push the wires into the connectors. No additional connectors or wire nuts are needed.

- In addition to the wire traps for type NM non metallic sheathed cable, Halo housings include several knock-outs for use with metallic cable or rigid conduit connectors.
- Slide-N-Side wire trap accommodates these popular sizes:

-U.S. #14/2, #14/3, #12/2, #12/3  
-Canada: #14/2, #14/3, #12/2



Make wiring connections outside the junction box (with easy access to feed wires and housing wires) then Slide the cable into the wire trap for a secure connection. The Slide-N-Side III™ accepts the most popular sizes of non-metallic sheathed cable

**EXCEEDS INDUSTRY ENERGY & SAFETY STANDARDS**

# New Construction and Retrofit Applications

## New Home or Existing Home?

Whether you are building a new home or if you have an existing house with Halo H7's already installed, you can start saving money and energy by switching to energy efficient LED lighting. For new construction, use the dedicated H750ICAT housing that is already wired to accept the

## New Construction



Title 24 Compliant dedicated LED H750ICAT Housing



LED Module



LED Trim

## Easy Installation in New Construction



1

Install H750ICAT in joists and make wiring connections.



2

Connect LED module with housing wiring.



3

Install LED Module with trim in H750ICAT housing.

## New Home or Existing Home ? ?

Halo LED module. For existing housings, the LED modules can be easily installed with the Edison Base Adapter (included with module) - no special tools or rewiring needed.

## Retrofit



Edison base Screw-in adapter (included with module)



LED Module



LED Trim

## Retrofit Made Simple



1

Remove trim (and socket plate if present) from existing Halo H7 housing.



2

Install Edison base adapter into recessed housing socket.



3

Plug Edison base cable connector onto LED module. Clip socket onto LED module bracket.



4

Install LED module with trim in existing housing.

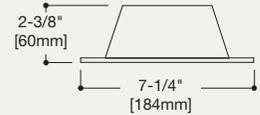
**INSTALLS IN A TRADITIONAL DOWNLIGHT**

# Trims



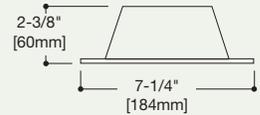
## 494P06 White Reflector and White Trim Ring

- Halo matte white finish
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



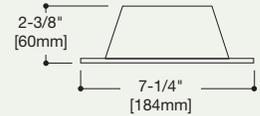
## 494SC06 Specular Reflector and White Trim Ring

- Halo matte white finish trim ring
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



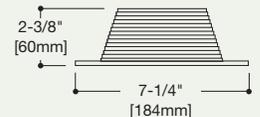
## 494H06 Haze Reflector and White Trim Ring

- Halo matte white finish trim ring
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



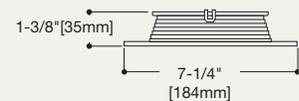
## 494WB06 White Baffle and White Trim Ring

- Halo matte white finish
- Die-Cast trim ring and aluminum baffle
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



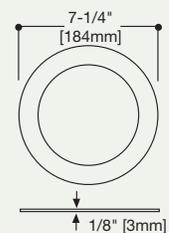
## 492PS06 Shower Trim and White Trim Ring

- White trim ring and baffle with regressed lens
- Wet location listed for use in showers and protected canopy applications
- Suggested for use:
  - over tubs and showers
  - eaves and soffits
- Aluminum reflector and die-cast trim ring
- Frosted glass regressed lens
- Trim Height of .160" at OD & .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



## TRM490WH Thin Profile Trim Ring (optional accessory)

- Die-cast trim ring
- Thin trim ring provides a more subtle ceiling appearance
- Purchase as accessory and discard ring supplied with trim
- Trim ring height of .120" at OD and .180" at ID



# Technical

LED photometric results may vary from testing data. To assist the lighting designer in using Halo LED in a lighting layout, the following photometric tables have both lab test data and normalized data to illustrate expected typical performance. The Halo LED design standard is to achieve 600 lumens at less than 15 watts. Typical photometric data is provided to illustrate expectation of typical performance.

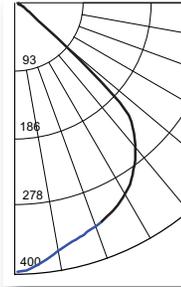
## Housing: H750ICAT, Module: ML706830, Trim: 494H06 Haze Reflector

Test	
Test No:	LTL13658
Spacing Criteria:	1.26
Unit LPW:	45.3
Typical	
Spacing Criteria:	1.22
Unit LPW:	42.5

CONE OF LIGHT (Test)		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter
5'5"	13	6'6"
7'0"	8	8'5"
8'0"	6	9'6"
9'0"	5	11'0"
10'0"	4	12'0"
CONE OF LIGHT (Typical)		
5'5"	12	6'6"
7'0"	8	8'5"
8'0"	6	9'6"
9'0"	5	11'0"
10'0"	4	12'0"

ZONAL LUMEN SUMMARY (Test)			
Zone	Lumens	%Lamp	%Fixt
0-30	294	N.A.	44.3
0-40	481	N.A.	72.6
0-60	654	N.A.	98.7
0-90	663	N.A.	100.0

ZONAL LUMEN SUMMARY (Typical)			
Zone	Lumens	%Lamp	%Fixt
0-30	275.92	N.A.	44.3
0-40	452.06	N.A.	72.6
0-60	614.73	N.A.	98.7
0-90	622.57	N.A.	100.0



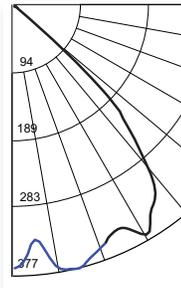
## Housing: H750ICAT, Module: ML706830, Trim: 494SC06 Specular Reflector

Test	
Test No:	LTL13659
Spacing Criteria:	1.47
Unit LPW:	46.8
Typical	
Spacing Criteria:	1.42
Unit LPW:	44.0

CONE OF LIGHT (Test)		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter
5'5"	13	7'6"
7'0"	8	10'0"
8'0"	6	11'6"
9'0"	5	12'6"
10'0"	4	14'0"
CONE OF LIGHT (Typical)		
5'5"	12	7'6"
7'0"	7	10'0"
8'0"	6	11'0"
9'0"	5	12'6"
10'0"	4	14'0"

ZONAL LUMEN SUMMARY (Test)			
Zone	Lumens	%Lamp	%Fixt
0-30	323	N.A.	46.34
0-40	548	N.A.	78.70
0-60	695	N.A.	99.78
0-90	697	N.A.	100.0

ZONAL LUMEN SUMMARY (Typical)			
Zone	Lumens	%Lamp	%Fixt
0-30	303.08	N.A.	46.4
0-40	515.14	N.A.	78.7
0-60	653.44	N.A.	99.8
0-90	654.72	N.A.	100.0



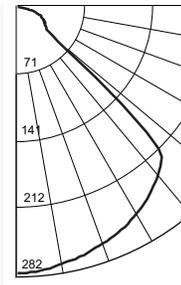
## Housing: H750ICAT, Module: ML706830, Trim: 494WB06 White Baffle

Test	
Test No:	LTL13657
Spacing Criteria:	1.40
Unit LPW:	43.3
Typical	
Spacing Criteria:	1.36
Unit LPW:	40.7

CONE OF LIGHT (Test)		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter
5'5"	10	7'6"
7'0"	6	9'6"
8'0"	5	10'6"
9'0"	4	12'0"
10'0"	3	13'6"
CONE OF LIGHT (Typical)		
5'5"	9	7'6"
7'0"	6	9'6"
8'0"	4	10'6"
9'0"	3	12'0"
10'0"	3	13'6"

ZONAL LUMEN SUMMARY (Test)			
Zone	Lumens	%Lamp	%Fixt
0-30	240	N.A.	37.10
0-40	405	N.A.	62.48
0-60	589	N.A.	90.98
0-90	648	N.A.	100.00

ZONAL LUMEN SUMMARY (Typical)			
Zone	Lumens	%Lamp	%Fixt
0-30	226.06	N.A.	37.1
0-40	380.73	N.A.	62.5
0-60	553.85	N.A.	90.9
0-90	609.06	N.A.	100.0



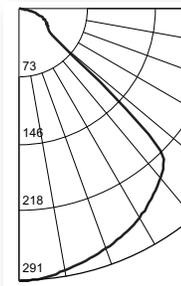
## Housing: H750ICAT, Module: ML706830, Trim: 494P06 White Reflector

Test	
Test No:	LTL13656
Spacing Criteria:	1.38
Unit LPW:	44.5
Typical	
Spacing Criteria:	1.34
Unit LPW:	41.8

CONE OF LIGHT (Test)		
Distance to Illuminated Plane	Initial Nadir Foot Candles	Beam Diameter
5'5"	10	7'0"
7'0"	6	9'0"
8'0"	5	10'6"
9'0"	4	12'0"
10'0"	3	13'0"
CONE OF LIGHT (Typical)		
5'5"	10	7'0"
7'0"	6	9'0"
8'0"	5	10'6"
9'0"	4	12'0"
10'0"	3	13'0"

ZONAL LUMEN SUMMARY (Test)			
Zone	Lumens	%Lamp	%Fixt
0-30	246	N.A.	37.11
0-40	412	N.A.	62.31
0-60	601	N.A.	90.81
0-90	662	N.A.	100.00

ZONAL LUMEN SUMMARY (Typical)			
Zone	Lumens	%Lamp	%Fixt
0-30	230.76	N.A.	37.1
0-40	387.42	N.A.	62.3
0-60	564.64	N.A.	90.8
0-90	621.73	N.A.	100.0



### Specification Sheets

Individual specification sheets are available from your HALO representative or at [www.cooperlighting.com](http://www.cooperlighting.com). Sheets contain detailed line drawings, critical dimensions, construction features and photometric information. Photometric tests provided are based upon IC, Airtight housing testing by a third party certified testing facility. Photometric information may vary slightly between fixtures. Information published regarding performance represents the nominal performance of production units.

### HALO

### Warranty

Cooper Lighting provides a three-year warranty on the HALO H750ICAT housing, HALO LED Module and HALO LED trims against defects in workmanship.

Many HALO features are protected by U.S. and foreign patents, and we will aggressively pursue any infringement. We reserve the right to change material, design or dimensions without notice.

Cooper Lighting is a participating member and significant contributor in industry associations to assure that our lighting and control systems adhere to the highest performance and efficiency standards.



The US Environmental Protection Agency's ENERGY STAR program is designed to identify and promote energy efficient products and buildings. Cooper Lighting is proud to have hundreds of qualified products including many of our Halo recessed downlights.  
[www.energystar.gov](http://www.energystar.gov)



Cooper Lighting supports state codes enforcing more stringent and environmentally protective standards such as California Energy Commission's Title 24 Energy Efficiency standards for Residential and Nonresidential Buildings.  
[www.energy.ca.gov/title24](http://www.energy.ca.gov/title24)



Cooper Lighting's full cutoff luminaires limit the detrimental effects of sky glow, otherwise referred to as light pollution, and typically comply with most local and state adopted lighting ordinances.



Cooper Lighting is a proud participating member of the IESNA, Illuminating Engineering Society of North America.  
[www.iesna.org](http://www.iesna.org)



ASHRAE/IESNA 90.1 standard is generally regarded as the definitive source of guidelines for achieving energy efficiency requiring certain watts per square foot (w/ft<sup>2</sup>) depending on the application.  
[www.ashrae.org](http://www.ashrae.org)



International Energy Conservation Code (IECC) establishes energy-related heating, cooling, water heating, electrical and lighting system standards for residential, multi-family, and commercial buildings.  
[www.iccsafe.org](http://www.iccsafe.org)



As a U.S. Green Building Council member, Cooper Lighting supports their mission to promote buildings that are environmentally responsible, profitable and healthy places to live and work.  
[www.usgbc.org](http://www.usgbc.org)



The American Lighting Association is a trade association representing the lighting industry. Members include lighting and ceiling fan manufacturers, retail showrooms, sales representatives and professional residential lighting designers.  
[www.americanlightingassoc.com/](http://www.americanlightingassoc.com/)



The LIRC works to enhance communication between professional lighting designers and manufacturers of lighting equipment and together to work to improve products, services business practices, and lighting design education.  
<http://www.iald.org>



The mission of the National Association of Homebuilders is to enhance the climate for housing and the building industry. Cooper Lighting is a proud participating member of the NAHB.  
[www.nahb.org](http://www.nahb.org)



As the first major lighting manufacturer to partner with the Clinton Climate Initiative (CCI), Cooper Lighting is working with the C40 Large Cities Climate Leadership Group (C40) to accelerate efforts to reduce greenhouse gas emissions and serve as models for other cities.  
<http://c40cities.org/>  
[www.clintonfoundation.org/cf-pgm-ccihome.htm](http://www.clintonfoundation.org/cf-pgm-ccihome.htm)

### 3 YEAR PRODUCT WARRANTY

Cooper Lighting (The Company) warrants the HALO ML706830 LED Module, HALO H750ICAT housing and HALO LED trims against defects in material or workmanship for a period of three years from date of original purchase, and agrees to repair or, at the company's option, replace a defective product without charge for either replacement parts or labor during such time. This does not include labor to remove or install fixtures.

This warranty is extended only to the original purchaser of the product. A purchaser's receipt or other proof of date of original purchase acceptable to the Company is required before warranty performance shall be rendered.

This warranty only covers product failure due to defects in materials or workmanship which occurs in normal use. It does not cover the failure of product caused by accident, misuse, abuse, lack of reasonable care, alteration, or faulty installation, subjecting the product to any but the specified electrical service or any other failure not resulting from defects in materials or workmanship. Damage to the product caused by separately purchased, non-Company supplied components and corrosion or discoloration of components are not covered by this warranty.

There are no express warranties except as described above.

THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL IMPLIED WARRANTIES, IF ANY, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THIS EXPRESS WARRANTY. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

No other warranty, written or verbal, is authorized by the Company. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

To obtain warranty service, please write to Cooper Lighting, 1121 Highway 74 South, Peachtree City Georgia 30269. Enclose product model number and problems you are experiencing, along with address and telephone number. You will then be contacted with a solution or a Return Goods Authorization number and full instructions for returning the product. All returned products must be accompanied by a Return Goods Authorization Number issued by the Company and must be returned freight prepaid. Any product received without a Return Goods Authorization Number from the Company will be refused.

Cooper Lighting is not responsible for merchandise damaged in transit. Repaired or replaced products shall be subject to the terms of this warranty and are inspected when packed. Evident or concealed damage that is made in transit should be reported at once to the carrier making the delivery and a claim filed with them.

**Cooper Lighting**  
1121 Highway 74 South  
Peachtree City, Georgia  
30269

P: 770-486-4800  
F: 770-486-4801

[www.cooperlighting.com](http://www.cooperlighting.com)

**International Sales USA**  
Cooper Lighting  
1121 Highway 74 South  
Peachtree City, Georgia  
30269

P: 770-486-4800  
F: 770-486-4801

**Canadian Facilities**  
Cooper Lighting  
5925 McLaughlin Road  
Mississauga, Ontario L5R 1B8

P: 905-507-4000  
F: 905-568-7049

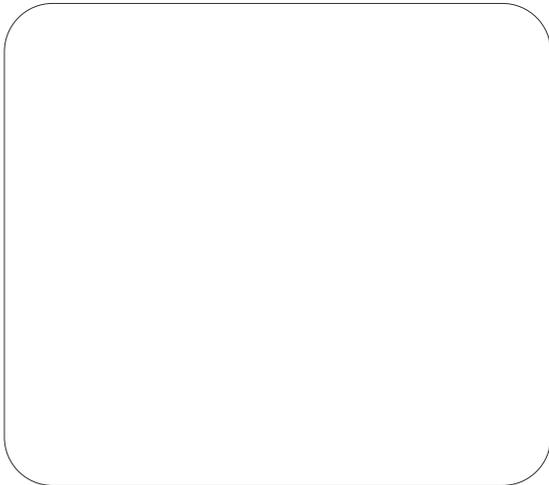
The Cooper Lighting Family

**Halo** - Includes LED recessed downlighting  
Metalux  
Lumark  
Sure-Lites - Sure Lites includes a number of LED equipped Exit signs  
Neo-Ray  
Corelite  
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Iris  
Shaper  
Lumière - includes LED step lights, perimeter lights and pathway light  
Invue  
McGraw-Edison  
io - A complete line of innovative LED products for architectural applications  
Fail-Safe  
MWS  
DLS  
RSA - Specialty LED lighting for commercial and institutional applications  
Ametrix

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