

Medium Scale  
Updated 11/2010

**DESIGNER**  
**SSL** SERIES  
FEATURING  
**MICROEMITTER™**  
TECHNOLOGY



**LifeShield™**  
Protection System

- Part of AAL's Designer SSL Series
- Featuring highly efficient, exclusive MicroEmitter™ reflector technology
  - 60 LED array (72 total input watts)
  - Two standard color temperatures: 3500K or 5100K
  - IES Type 2, 3, 4 or 5 distribution
- DLC approved (Types 3 and 5, 5100K)
- First decorative, modular system with precise LED aiming capabilities
- Field replaceable LED EmitterDeck™ upgrade kits for existing UCM-H (HID/CFL) models available
- Features exclusive LifeShield™ Protection System for extreme weather conditions (-30°C to 60°C)
- 0 - 10v dimming capabilities
- Surge protection included
- Powder coat finish in 13 standard colors with a polymer primer sealer



Nighttime rendering with UCM-T3 and UCM-T2

## Architectural Area Lighting

16555 East Gale Ave. | City of Industry | CA 91745  
P 626.968.5666 | F 626.369.2695 | www.aal.net  
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PATENTS PENDING



1. Luminaire	2. Luminous Element/Hood	3. Optics/LED	4. Color	5. Options	6. Mounting
UCM	LUM/STR	T3-60LED-BW	CRT	FTG	SLA-4

1. LUMINAIRE

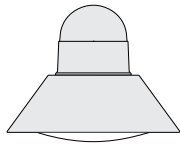
UCM Universe Medium

2. LUMINOUS ELEMENT AND HOOD

NO LUMINOUS ELEMENT (STANDARD)

ANG

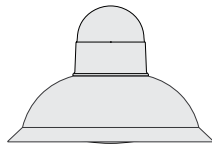
Angled Hood



HT: 14.7"/373mm  
DIA: 20"/508mm  
EPA: 0.60  
WT: 28.55 lbs

BEL

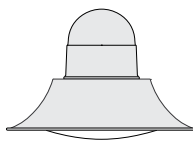
Bell Hood



HT: 15.8"/401mm  
DIA: 24"/610mm  
EPA: 0.73  
WT: 32 lbs

FLR

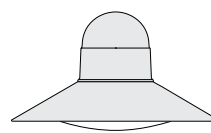
Flared Hood



HT: 14.5"/368mm  
DIA: 22"/559mm  
EPA: 0.53  
WT: 28.85 lbs

STR

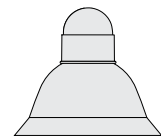
Straight Hood



HT: 14"/355mm  
DIA: 24"/610mm  
EPA: 0.59  
WT: 31.75 lbs

SKB

Skirted Bell Hood

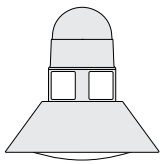


HT: 19.7"/500mm  
DIA: 24"/610mm  
EPA: 0.90  
WT: 32.10 lbs

4 LUMINOUS WINDOWS (ADDS 3W TO TOTAL INPUT WATTS)

WND-ANG

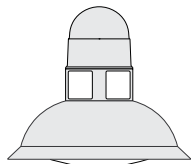
Angled Hood



HT: 20.5"/520mm  
DIA: 20"/508mm  
EPA: 0.72  
WT: 30.70 lbs

WND-BEL

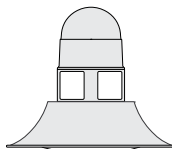
Bell Hood



HT: 21.4"/543mm  
DIA: 24"/610mm  
EPA: 0.85  
WT: 34.15 lbs

WND-FLR

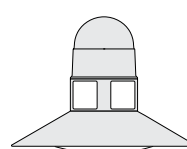
Flared Hood



HT: 19.8"/503mm  
DIA: 22"/559mm  
EPA: 0.65  
WT: 31 lbs

WND-STR

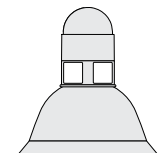
Straight Hood



HT: 19.8"/503mm  
DIA: 24"/610mm  
EPA: 0.71  
WT: 33.90 lbs

WND-SKB

Skirted Bell Hood



HT: 23.9"/607mm  
DIA: 24"/610mm  
EPA: 1.03  
WT: 34.25 lbs

SOLD TO

PO #

JOB NAME

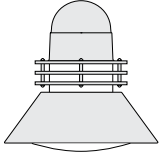
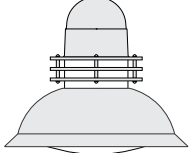
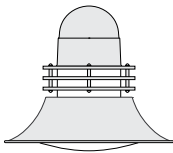
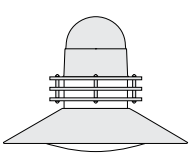
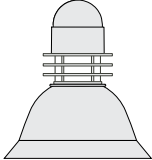
Approvals

Architectural Area Lighting

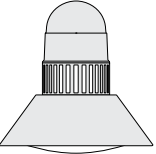
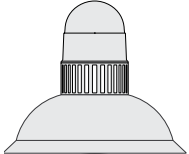
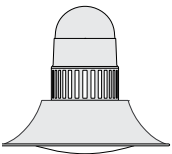
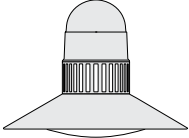
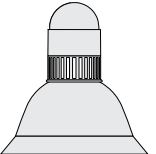
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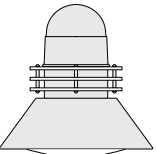
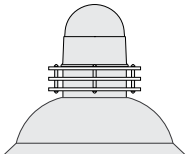
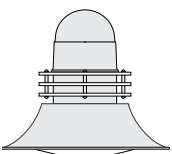
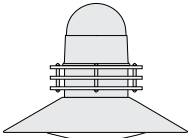
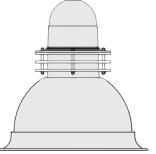
SOLID RINGS (ADDS 3W TO TOTAL INPUT WATTS)

<input type="checkbox"/> SR-ANG Angled Hood	<input type="checkbox"/> SR-BEL Bell Hood	<input type="checkbox"/> SR-FLR Flared Hood	<input type="checkbox"/> SR-STR Straight Hood	<input type="checkbox"/> SR-SKB Skirted Bell Hood
				
HT: 20.7"/526mm DIA: 20"/508mm EPA: 0.74 WT: 33.7 lbs	HT: 21.6"/549mm DIA: 24"/610mm EPA: 0.87 WT: 37.15 lbs	HT: 20.1"/510mm DIA: 22"/559mm EPA: 0.67 WT: 34 lbs	HT: 20"/508mm DIA: 24"/610mm EPA: 0.73 WT: 36.90 lbs	HT: 24.2"/615mm DIA: 24"/610mm EPA: 1.05 WT: 37.25 lbs

VERTICAL SLOTS (ADDS 3W TO TOTAL INPUT WATTS)

<input type="checkbox"/> VSL-ANG Angled Hood	<input type="checkbox"/> VSL-BEL Bell Hood	<input type="checkbox"/> VSL-FLR Flared Hood	<input type="checkbox"/> VSL-STR Straight Hood	<input type="checkbox"/> VSL-SKB Skirted Bell Hood
				
HT: 20.5"/521mm DIA: 20"/508mm EPA: 0.72 WT: 31.45 lbs	HT: 21.4"/543mm DIA: 24"/610mm EPA: 0.85 WT: 34.90 lbs	HT: 19.8"/503mm DIA: 22"/559mm EPA: 0.65 WT: 31.75 lbs	HT: 19.8"/503mm DIA: 24"/610mm EPA: 0.71 WT: 34.65 lbs	HT: 23.9"/607mm DIA: 24"/610mm EPA: 1.03 WT: 35 lbs

LUMINOUS RINGS (ADDS 3W TO TOTAL INPUT WATTS)

<input type="checkbox"/> LUM-ANG Angled Hood	<input type="checkbox"/> LUM-BEL Bell Hood	<input type="checkbox"/> LUM-FLR Flared Hood	<input type="checkbox"/> LUM-STR Straight Hood	<input type="checkbox"/> LUM-SKB Skirted Bell Hood
				
HT: 20.6"/523mm DIA: 20"/508mm EPA: 0.74 WT: 32.85 lbs	HT: 21.5"/546mm DIA: 24"/610mm EPA: 0.85 WT: 34.15 lbs	HT: 20"/508mm DIA: 22"/559mm EPA: 0.67 WT: 33.15 lbs	HT: 19.9"/505mm DIA: 24"/610mm EPA: 0.73 WT: 36.05 lbs	HT: 24.1"/612mm DIA: 24"/610mm EPA: 1.05 WT: 36.404 lbs

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UCM	LUM/STR	T3-60LED-BW	CRT	FTG	SLA-4

**3. OPTICS/LED CONFIGURATION**

- T2-60LED-WW IES Type 2 distribution. 60 light emitting diode array (72 watts). Class 1, 120 thru 277 volt. Warm white (3500K).


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- T2-60LED-BW IES Type 2 distribution. 60 light emitting diode array (72 watts). Class 1, 120 thru 277 volt. Bright white (5100K).

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- T3-60LED-WW IES Type 3 distribution. 60 light emitting diode array (72 watts). Class 1, 120 thru 277 volt. Warm white (3500K).

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- T3-60LED-BW IES Type 3 distribution. 60 light emitting diode array (72 watts). Class 1, 120 thru 277 volt. Bright white (5100K). 

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- T4-60LED-WW IES Type 4 distribution. 60 light emitting diode array (72 watts). Class 1, 120 thru 277 volt. Warm white (3500K).


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- T4-60LED-BW IES Type 4 distribution. 60 light emitting diode array (72 watts). Class 1, 120 thru 277 volt. Bright white (5100K).

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- T5-60LED-WW IES Type 5 distribution. 60 light emitting diode array (72 watts). Class 1, 120 thru 277 volt. Warm white (3500K).

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- T5-60LED-BW IES Type 5 distribution. 60 light emitting diode array (72 watts). Class 1, 120 thru 277 volt. Bright white (5100K).   
*350mA drive current.*

**LED EMITTER DECK UPGRADE KITS FOR UCM-H MODELS**

A field replaceable upgrade kit is available for existing UCM HID/CFL reflector models. The kit comes complete with drivers and 20 LED MicroEmitters (60 diodes/72 watts). Please contact your AAL Sales Representative for details.

- RK3505 Type 2, 60 diodes (72 watts). Class 1, 120 thru 277 volt. Warm white (3500K).

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- RK3506 Type 3, 60 diodes (72 watts). Class 1, 120 thru 277 volt. Warm white (3500K).

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- RK3507 Type 4, 60 diodes (72 watts). Class 1, 120 thru 277 volt. Warm white (3500K).

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- RK3508 Type 5, 60 diodes (72 watts). Class 1, 120 thru 277 volt. Warm white (3500K).

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- RK5105 Type 2, 60 diodes (72 watts). Class 1, 120 thru 277 volt. Bright white (5100K).

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- RK5106 Type 3, 60 diodes (72 watts). Class 1, 120 thru 277 volt. Bright white (5100K).

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- RK5107 Type 4, 60 diodes (72 watts). Class 1, 120 thru 277 volt. Bright white (5100K).

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- RK5108 Type 5, 60 diodes (72 watts). Class 1, 120 thru 277 volt. Bright white (5100K).  
*350mA drive current*

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1. Fixture	2. Luminous Element/Hood	3. Optics/LED	4. Color	5. Options	6. Mounting
UCM	LUM/STR	T3-60LED-BW	CRT	FTG	SLA-4

4. COLOR

<input type="checkbox"/> AWT	Arctic White	<input type="checkbox"/> MDG	Medium Grey
<input type="checkbox"/> BLK	Black	<input type="checkbox"/> ATG	Antique Green
<input type="checkbox"/> MTB	Matte Black	<input type="checkbox"/> LGY	Light Grey
<input type="checkbox"/> DGN	Dark Green	<input type="checkbox"/> SPP	Salt and Pepper (premium)
<input type="checkbox"/> DBZ	Dark Bronze	<input type="checkbox"/> SFM	Seafoam (premium)
<input type="checkbox"/> WRZ	Weathered Bronze	<input type="checkbox"/> WCP	Weathered Copper (premium)
<input type="checkbox"/> BRM	Metallic Bronze	<input type="checkbox"/> SHK	Shamrock (premium)
<input type="checkbox"/> VBL	Verde Blue	<input type="checkbox"/> RAL COLOR	Provide a RAL 4 digit color number
<input type="checkbox"/> CRT	Corten	<input type="checkbox"/> CUSTOM COLOR	Please provide a color chip for matching
<input type="checkbox"/> MAL	Matte Aluminum		

5. OPTIONS - HOOD

<input type="checkbox"/> COP	Copper hood. Underside finished in high reflectance white.
<input type="checkbox"/> STS	Stainless steel hood. Underside finished in high reflectance white. The natural copper hood is unfinished to develop a patina over time.

OPTIONS - EXTERNAL

<input type="checkbox"/> FTG	Flat glass lens instead of standard sag glass
<input type="checkbox"/> RCK	Rock guard painted black, attached to door frame
<input type="checkbox"/> SLC	Internal sleeve to block light from lens when a Luminous Element is chosen

OPTIONS - LUMINOUS ELEMENT (LUM only)

Optional inner lens adds color to the ring edges when illuminated.

<input type="checkbox"/> BL	Blue acrylic inner lens
<input type="checkbox"/> RD	Red acrylic inner lens
<input type="checkbox"/> GRN	Green acrylic inner lens

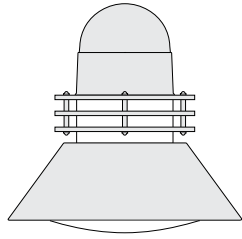
6. MOUNTING

Standard is arm mount. Please visit [www.aal.net](http://www.aal.net) for a complete listing of decorative arms.

<input type="checkbox"/> PMS	Pendant mount with 48"/1220mm stem and canopy with swivel. Stem and canopy painted white.
<input type="checkbox"/> PMR	Post top yoke mount. Slips over a 4"/100mm pole

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## Specifications



### HOUSING

The fixture ballast housing shall be one-piece die-cast aluminum. The luminous rings shall be clear acrylic with an internal lens. The lens shall be lightly diffused acrylic, sealed to the housing and shade with molded silicone gaskets. The hood and spacers shall be heavy gauge spun aluminum with hemmed edges for added rigidity. All internal and external hardware shall be stainless steel.

The fixture shall consist of die cast aluminum door frame and ring assembly. The hood ring assembly shall be fully sealed with a molded silicone gasket. The door frame shall be hinged to the ring and opened with two captive fasteners for relamping. The tempered sag glass lens is held in the door frame with a molded silicone gasket.

### UPGRADE KITS

Field replaceable upgrade kits are available for UCM-H models. An EmitterDeck mounting assembly, including driver and 20 LED MicroEmitters (60 diodes/72 watts), is provided.

### ELECTRICAL

120 thru 277 volt. All electrical components are mounted directly to the driver tray for maximum heat dissipation. Class 1 electrical classification. 0 - 10v dimming capabilities. LifeShield™ Protection System included for extreme temperature locations (-30°C to 60°C). 120/277 volt Universal with 9mA maximum input current and 1mA maximum drive current. Input power 0.5 watt for 120 volt and 1.25 watt for 277 volt. The onboard surge protector shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave. The surge protector shall have a clamping voltage of 320V and surge rating of 372J. The case shall be a high-temperature, flame resistant plastic enclosure. LED constant current driver operates at 350mA.

### MICROEMITTER™ REFLECTOR

Precision injection molded, highly specular reflectors are positioned to achieve directional control toward desired task. Secondary reflectors with a concave, specular medium hammertone finish are used to redirect light downward. The entire assembly fastens to the housing as a one-piece module and features wiring quick-connects for easy installation. Standard color temperatures for Nichia LEDs, NS6L183 and NS6W183, are 3500K and 5100K. Rated luminous efficacy is  $\geq 40$  lm/W, with rated light output of  $\geq 2864$  for 5100K LED, standard mount. MicroEmitters are field replaceable.

### MOUNTING

The fixture shall be attached to the arm assembly with three stainless steel bolts. The connection shall be sealed with a silicone compression gasket.

### FINISH

Fixture finish consists of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish. The finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

### CERTIFICATION

Listed with ETL for outdoor, wet location use. Conforms to UL1598 and Canadian CSA Std. C22.2 no.250 standard. IP65.

### WARRANTY **5** YEAR WARRANTY

Universe LED, including housing, LEDs and electrical components, is warranted for five years. Any unauthorized return, repair, replacement or modification of the Product(s) shall void this warranty. This warranty applies only to the use of the Product(s) as intended by AAL and does not cover poles, arms, mounting, or any misapplication or misuse of said Product(s), or installation in hazardous or corrosive environments. Contact AAL for complete warranty language, exceptions, and limitations.

*AAL reserves the right to change product specifications without notice.*



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