Existing light along Foundry Lane

Existing light within upper parking lot

UNIVERSE
COLLECTION®

architectural area lighting

ARCHITECTURAL AREA LIGHTING

Fixtures can be pole, wall or pendant mounted.

HEAD

4 WINDOWS

SOLID RINGS

VERTICAL SLOTS

LUMINOUS ELEMENTS Optional elements to add visibility and interest to fixtures.

ANGLED

FLARED

HOODS Available in painted aluminum, natural copper or stainless steel.

HIGH PERFORMANCE
FULL CUTOFF REFLECTOR SYSTEM

OPAL ACRYLIC LENS

GLASS REFRACTOR

OPTICAL SYSTEMS

Illumination Effects

One of four modular, luminous elements can be specified to softly illuminate the shade and add visual interest to the overall design.

The opal lens model (OAL) is well suited for low mounting heights to softly illuminate general pedestrian areas.

WND 4 WINDOWS

VSL VERTICAL SLOTS

SR SOLID RINGS

LUM LUMINOUS RINGS

The luminous ring (LUM) comes standard with a diffused inner lens. An optional colored lens adds edge lit color to the rings when illuminated. Not available with UCS.

BL	BLUE
RD	RED
GN	GREEN

UCM LUM (BLUE) STR OAL SLA 4 PR4-4R10

UCM LUM STR OAL SLA 17 PR4-4R8

UCM

Medium Scale

The medium scaled model is designed for pedestrian areas, building perimeters, streetscapes, store fronts, or atriums

- Part of AAL's Designer SSL Series, featuring exclusive MicroEmitter technology
- Pole, wall, and pendant mounting
- Full cutoff reflector system in four distributions for specific illumination tasks
- Opal acrylic lens, Type 5 distribution for soft, general lighting, 100 watts max
- Glass refractor lens, Type 3 or 5 distribution for general lighting
- 50, 70,100, or 150 watt metal halide, including pulse start
- 50, 70, 100, or 150 watt high pressure sodium
- IL-55 and IL-85 induction lamp system

2-UCM LUM STR H5
SLA20C-2 PR4-4R14 BC5-4

DESIGNER SSL SERIES
FEATURING
MICROEMITTER™ TECHNOLOGY

UCM
MEDIUM SCALE

HOW TO ORDER

Start with the Universe Medium head.

1. Select a luminous element if desired
2. Select a hood style
3. Choose the optical assembly for your application
4. Select a lamp/ballast
5. Specify a standard or premium AAL color, RAL color, or custom color (sample color chip required at time of ordering)
6. Choose any desired hood finish
7. Choose any other options
8. Select mounting

UCM LUM SKB H3

UCM VSL STR

Ordering Examples

LUMINAIRE	LUMINOUS ELEMENT	LAMP HOOD	HOOD OPTICS	BALLAST	COLOR	FINISH	OPTIONS	ARM
UCM	LUM	BEL	T3	60LED-BW	BLK	COP	FLD	SLA20A
UCM	SR	ANG	GR5	50MH	MAL	-	-	WMA8
UCM	VSL	STR	H5	150PSMH	CTR	-	-	PM
UCM	WND	FLR	OAL	IL-85	AWT	STS	-	SLA17

Weight: 34 lbs. **EPA: 1.14** **IP RATING: 65**

1 Luminous Element

WND 4 WINDOWS

Cast frame with a diffused acrylic lens

8.75"/225mm diameter
4.17"/105mm high

SR SOLID RINGS

Cast rings with a diffused acrylic lens

12"/305mm diameter
4.4"/110mm high

VSL VERTICAL SLOTS

Cast frame with a diffused acrylic lens

8.75"/225mm diameter
4.17"/105mm high

LUM LUMINOUS RINGS

Edge lit acrylic rings
with a diffused inner acrylic lens

12"/305mm diameter
4.4"/110mm high

OPTIONAL
LUMINOUS RING COLORS

An internal lens can be added for color on the ring edges when illuminated.

BL BLUE

RD RED

GRN GREEN

2 Hood

ANG ANGLED HOOD

20"/508mm diameter
6.5"/165mm high

BEL BELL HOOD

24"/610mm diameter
8"/205mm high

FLR FLARED HOOD

22"/560mm diameter
6"/150mm high

STR STRAIGHT HOOD

24"/610mm diameter
4.5"/115mm high

SKB SKIRTED BELL HOOD

24"/610mm diameter
11.75"/300mm high

3 Optics

Horizontal Reflector

H2 IES Type 2 reflector
H3 IES Type 3 reflector
H4 IES Type 4 reflector
H5 IES Type 5 reflector

Reflector with cast door and standard sag glass lens

LED

T2 IES Type 2 distribution
T3 IES Type 3 distribution
T4 IES Type 4 distribution
T5 IES Type 5 distribution

Standard sag glass lens

Opal Acrylic Lens - OAL

8"/205mm diameter
9"/230mm high
Maximum 100 watts HID
Not available with LED

Glass Refractor

GR3 Type 3 Glass refractor
GR5 Type 5 Glass refractor

6.5"/165mm diameter
6"/150mm high
Not available with LED

4 Lamp/Ballast

60LED-WW
60 light emitting diode array (70 total luminaire input watts). Warm white (3500K). 120 thru 277 volt.

60LED-BW
60 light emitting diode array (70 total luminaire input watts). Bright white (5100K). 120 thru 277 volt.

PL57
57 watt compact fluorescent 120 thru 277 volt ballast. Use GE F57QBX lamp. -10°C minimum start temp.

50MH
50 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

70MH
70 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

70MHEB
70 watt electronic metal halide 120 thru 277 volt ballast. Use medium base, ED-17 lamp.

70MHT6
70 watt electronic metal halide 120/277/347 volt ballast. Use G12 base, T-6 ceramic lamp.

70MHT6EB
70 watt metal halide 120 thru 277 volt ballast. Use G12 base, T-6 ceramic lamp.

100MH
100 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

100MHEB
100 watt electronic metal halide 120 thru 277 volt ballast. Use medium base, ED-17 lamp.

150MHEB
150 watt electronic metal halide 120 thru 277 volt ballast. Use medium base, ED-17 lamp.

150PSMH
Pulse start 150 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp. **Not for OAL.**

150PSMHT6
Pulse start 150 watt metal halide 120/208/240/277 volt ballast. Use G12 base, T-6 ceramic lamp. **Not for OAL.**

150MHT6EB
150 watt electronic metal halide 120 thru 277 volt ballast. Use G12 base, T-6 ceramic lamp. **Not for OAL.**

175PSMH
Pulse start 175 watt metal halide 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.
For GR3/GR5 only.

50HPS
50 watt high pressure sodium 120/277 volt ballast. Use medium base, ED-17 lamp.

70HPS
70 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

100HPS
100 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.

150HPS
150 watt high pressure sodium 120/208/240/277 volt ballast. Use medium base, ED-17 lamp.
Not for OAL.

IL-55
55 watt induction lamp system with high frequency generator. Specify 120, 208, 240 or 277 volt ballast. -25°C start temp. **OAL only. Less luminous elements.**

IL-85
85 watt induction lamp system with high frequency generator. Specify 120, 208, 240 or 277 volt ballast. -25°C start temp. **OAL only. Less luminous elements.**

All ballasts and LED drivers are factory wired for 277 volts, unless specified. Lamps not included (except IL and LED options).
All applicable ballasts are EISA compliant.

5 Color

All standard and premium AAL colors available. For RAL and custom colors, please submit a four-digit RAL number or color chip for custom colors.

6 Hood Finishes

The natural copper and stainless steel hoods are unfinished to develop a patina over time. All hoods have the underside finished in high reflectance white.

STS
Stainless steel

COP
Natural Copper

7 Options

QRS
Restrike controller and T-4 mini-can socket. Not required with electronic ballast. (Lamp wattage not to exceed ballast wattage). Horizontal reflectors only. **Not available with LED.**

QL
Socket for T-4 mini-can lamp, field wired to a separate circuit. (Lamp wattage not to exceed ballast wattage). Horizontal reflectors only. **Not available with LED.**

347
120/240/347 volt ballast for HID lamp/ballast. 347 volt only for 50 watt MH and 50 watt HPS. **Not available with LED.**

SLC
Internal sleeve to block light from the lens when a Luminous Element is chosen.

HSS
House side shield, factory installed.
Not available with Type 5 or LED.

FTG
Flat glass lens instead of standard sag glass. **Reflector and LED models only.**

FLD
Lightly diffused finish on flat glass lens.
Reflector models only. Not available with LED.

RCK
Rock guard painted black, attached to door frame. **Not for PMR.**

8 Mounting

PM
Post top yoke mount for use with the OAL or GR3/5 optics. Slips over a 4"/100mm pole. Secured with 6 stainless steel set screws.

PMR
Post top yoke mount for use with reflector and LED optics. Slips over a 4"/100mm pole. Secured with 6 stainless steel set screws.

PMS
Pendant mount with 48"/1220 mm and canopy with swivel. Stem and canopy painted to match the fixture.

Specifications

UCM and UCL

HOUSING

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

Reflector and UCM LED models–Shall consist of a 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 tool-less, captive fasteners for relamping. The tempered glass lens is held in the door frame with a molded silicone gasket. For UCM standard lens is sag. For UCL standard lens is flat.

Opal acrylic lens (OAL)–The UCM and UCL shall consist of a molded opal acrylic lens and an aluminum frame. Three captive fasteners shall be loosened to turn and remove the lens for relamping. Not available with LED.

Glass Refractor (GR3 and GR5)–*UCM only*. A borosilicate glass refractor lens with a Type 3 or Type 5 distribution shall be attached to an aluminum frame. Three captive fasteners shall be loosened to turn and remove the lens for relamping. Not available with LED.

OPTICAL ASSEMBLY FOR REFLECTORS

The reflector module shall be composed of faceted, semi specular anodized aluminum panels rigidly attached in a die-cast aluminum tray. The reflector shall have tool-less removal and retained by four pressure clips. The reflector tray shall be rotatable on 90° centers for orienting the light distribution. The reflectors shall meet ANSI-IES standards for full cutoff reflector systems.

MICROEMITTER ASSEMBLY FOR UCM LED

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. No fasteners are placed on the reflective surface. The entire assembly fastens to the housing as a one-piece module and features wiring quick-connects for easy installation. Standard color temperatures are 3500K and 5100K. Other color temperatures available. Please contact factory. MicroEmitters are individually field replaceable.

FULL CUTOFF

The UCM and UCL reflector models, less luminous element, are classified as full cutoff, meaning there is zero light emitted at 90° horizontal or above.

ELECTRICAL

The ballast shall be mounted on a prewired tray with a quick disconnect plug and removed by turning two captive latches. HID ballasts are high power factor, rated for -30°C starting. Electronic ballasts for the UCM (70 or 150 watts) are sound rated A. Sockets are medium base (UCM), G12 for use with T6 lamp (UCM), or mogul base (UCL), pulse rated porcelain. Compact fluorescent sockets for a 26, 32, 42 watt lamp are 4 pin, GX24q-4, with an electronic ballast, -18°C starting. High output fluorescent lamps shall be powered by electronic ballast and shall be rated for a minimum starting temperature of -10ºC. Ballasts are wired at the factory for 277 volts, unless specified.

For UCM LED, all electrical components are mounted directly to the driver tray for maximum heat dissipation. 120 thru 277 volt. The LED constant current driver operates at 350mA.

UPGRADE KITS

Field replaceable upgrade kits are available for UCM-H reflector models only. An entire EmitterDeck assembly, including drivers and 20 LED MicroEmitters (60 diodes), is provided. See installation instructions for complete details.

INSTALLATION & 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. The post top (PM) version shall slip over a 4”/100mm pole or tenon, and secured with six stainless steel set screws.

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

The fixture shall be listed with ETL and U.L. for outdoor, wet location use, UL1598 and Canadian CSA Std. C22.2 no. 250. IP=65.

EISA COMPLIANCE

AAL is committed to complying with U.S. EISA requirements. All applicable products manufactured for sale in the United States after January 1, 2009, meet EISA requirements

WARRANTY

Fixture is warranted for three years, except UCM LED, which carries a 5 year warranty. Ballast components carry the ballast manufacturer’s limited warranty. 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 any misapplication or misuse of said Product(s), or installation in hazardous or corrosive environments. Contact AAL for complete warranty language, exceptions, and limitations.

WALL MOUNTED ARMS

Wall mounted arms complement the pole mounted arms and are designed for both the UCM and UCL fixtures. The fixtures attach to the arms with the same 3 point mounting system. All arms are prewired with quick connectors for easy installation. Hardware for attaching to the wall surface is by others. The back plate mounting holes are .438"/11mm diameter. Use a minimum of 5/16-18 stainless steel fasteners. Seal the back plate to the wall surface with an appropriate silicone caulk.

WMA 8 Backplate is 12"/305mm x 6"/150mm
WT: 10 lbs.

WMA 11 Backplate is 26"/660mm x 6"/150mm
WT: 10 lbs.

WMA 12 Backplate is 12"/305mm x 6"/150mm
WT: 12 lbs.

WMA 16 Backplate is 44"/112 0mm x 6"/150mm
WT: 22 lbs.

All arms are unitized, one-piece assemblies, prewired at the factory for easy, trouble-free installation.

SLA 4 Slips over 4"/100mm O.D. pole.
WT: 14 lbs. EPA: 1.39

SLA 3 Bolts to 4"/100mm O.D. pole
WT: 8 lbs. EPA: .77

SLA 4-2 Twin arms, slips over 4"/100mm O.D. pole.
WT: 26 lbs. EPA: 2.10

SLA 7 Slips over 4"/100mm O.D. pole.
WT: 9 lbs. EPA: 1.34
***SLA 7(5)** Slips over 5"/127mm O.D. pole.
WT: 11 lbs. EPA: 1.73

SLA 7-2 Twin arms, slips over 4"/100mm O.D. pole.
WT: 16 lbs. EPA: 2.34
***SLA 7(5)-2** Twin arms, slips over 5"/127mm O.D. pole.
WT: 18 lbs. EPA: 2.60

AAL poles feature American made heat strengthened A356 aluminum castings and 6061 T-6 aluminum extrusions. The hand holes on the four and five inch poles are reinforced for maximum strength to withstand loads from luminaires, arms and banners.
The load values are based on the AASHTO wind load standards. The wind speeds are based on 3 second gust speeds (MPH).

WARNING: Fixture must be grounded in accordance with local codes or the National Electric Code. Failure to do so may result in serious personal injury.

CAUTION: Poles should never be erected without the luminaire installed. Warranty is voided if the pole is erected without the luminaire.

Decorative poles are found on page 48-49

NOTE: Adequate drainage must be provided in concrete foundation or in the grout.

3” Round Aluminum Pole for UCS only

CATALOG NO.				WIND SPEED							
BASE	POLE-WALL	WT	OAH	85	90	100	110	120	130	140	150
PR3	3R8-125	15	8’/2.4m	11.9	10.5	8.3	6.7	5.5	4.5	3.7	3.1
PR3	3R10-125	18	10’/3.1m	8.9	7.8	6.1	4.8	3.8	3.1	2.5	2.0

Bolt circle: 7"/180mm
Base diameter: 9"/230mm Bolts .75" X 24 in (19mm X 610mm)
Bolt projection: 3.50"/89mm

4” Round Aluminum Pole

CATALOG NO.				WIND SPEED							
BASE	POLE-WALL	WT	OAH	85	90	100	110	120	130	140	150
PR4	4R10-125	25	10’/3.1m	19.4	17.1	13.5	10.8	8.9	7.4	6.3	5.5
PR4	4R12-125	29	12’/3.7m	15.3	13.4	10.5	8.3	6.7	5.6	4.7	4.0
PR4	4R14-125	33	14’/4.3m	12.3	10.7	8.2	6.3	5.0	4.1	3.4	2.9
PR4	4R16-125	36	16’/4.9m	10.0	8.6	6.4	4.8	3.6	2.9	2.4	2.0
PR4	4R10-226	39	10’/3.1m	23.8	21.0	16.7	13.5	11.1	9.3	8.0	6.9
PR4	4R12-226	47	12’/3.7m	19.2	16.9	13.3	10.6	8.6	7.2	6.1	5.3
PR4	4R14-226	52	14’/4.3m	15.9	13.9	10.8	8.4	6.8	5.6	4.7	4.0
PR4	4R16-226	58	16’/4.9m	12.4	12.3	9.4	7.3	5.7	4.7	4.0	3.3
PR4	4R18-226	64	18’/5.5m	11.7	10.0	7.5	5.6	4.3	3.5	2.9	2.4
PR4	4R20-226	70	20’/6.1m	9.5	8.1	5.9	4.2	3.1	2.4	1.9	1.6

Bolt circle: 7"/180mm
Base diameter: 9"/230mm Bolts .75" X 24 in (19mm X 610mm)
Bolt projection: 3.75"/95mm

5” Round Aluminum Pole

CATALOG NO.				WIND SPEED							
BASE	POLE-WALL	WT	OAH	85	90	100	110	120	130	140	150
PR5	5R14-188	67	14’/4.3m	32.3	28.5	22.7	18.6	15.5	13.1	11.2	9.6
PR5	5R16-188	74	16’/4.9m	27.3	23.9	19.0	15.5	12.8	10.8	9.2	7.9
PR5	5R18-188	81	18’/5.5m	22.8	19.8	15.6	12.7	10.5	8.8	7.4	6.4
PR5	5R20-188	87	20’/6.1m	18.9	16.4	12.8	10.3	8.5	7.0	5.9	5.0
PR5	5R22-188	93	22’/6.8m	15.8	13.5	10.4	8.3	6.8	5.6	4.7	3.9
PR5	5R24-188	99	24’/7.4m	13.1	11.1	8.4	6.6	5.3	4.3	3.6	3.0
PR5	5R25-188	102	25’/7.7m	11.9	10.0	7.5	5.9	4.7	3.8	3.1	2.5
PR5	5R14-250	82	14’/4.3m	35.7	31.5	25.2	20.6	17.2	14.5	12.4	10.7
PR5	5R16-250	91	16’/4.9m	30.5	26.8	21.3	17.4	14.5	12.2	10.4	9.0
PR5	5R18-250	99	18’/5.5m	25.8	22.5	17.8	14.5	12.0	10.1	8.6	7.3
PR5	5R20-250	108	20’/6.2m	21.8	18.9	14.8	12.0	9.9	8.3	7.0	6.0
PR5	5R22-250	117	22’/6.8m	18.5	15.9	12.4	9.9	8.1	6.7	5.7	4.8
PR5	5R24-250	126	24’/7.4m	15.7	13.4	10.3	8.2	6.6	5.5	4.5	3.8
PR5	5R25-250	131	25’/7.7m	14.5	12.3	9.3	7.4	6.0	4.9	4.0	3.4

Bolt circle: 10"/255mm
Base diameter: 12.5"/320mm
Bolts: .75" X 24" (19mm X 610mm) Bolt projection: 4.75"/120mm

UNIVERSE
COLLECTION®

architectural arealighting

NEW LED

HUBBELL
HUBBELL LIGHTING, INC.

For more information on any of AAL's LED products, please visit us at
www.aal.net/aal/univ110.html

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