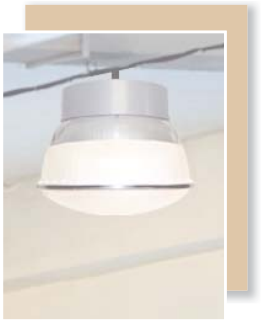
APS Guide

Energy-Efficient Lighting for Commercial Applications



Architectural Flood Lights Section

LURALINE LIGHTING

Introduction

Luraline Lighting is proud to introduce **APS**: **A Product Specifier's Guide to Energy-Efficient Lighting for Commercial Applications.** The guide features hundreds of lighting fixtures designed to meet today's demanding efficiency and performance standards, while offering the specifier a multitude of options for fixture styles, lamp types, wattages, efficacy and longevity.

About Us...

You can specify with confidence, knowing that Luraline Lighting has manufactured quality products in the USA since 1967. Our company headquarters in South Florida includes a 30,000-square-foot production facility with CAD equipment and full custom capabilities. Regardless of the size or scope of the project, we pride ourselves on customer service and an attention to detail that ensures a successful lighting installation.

Our Products...

In addition to the commercial fixtures in this guide, Luraline Lighting manufactures a full line of products for hospitality, contract, retail, restaurant, healthcare, educational, institutional and multi-family residential applications.

We offer an extensive selection of lighting fixtures suitable for exterior and interior installations. Fixtures are available in pendant, ceiling, sconce, wall and post-mount configurations, with a broad range of choices for lamping and diffusers, optional accessories, and colors, tones and finish textures.

Luraline Lighting combines energy-efficient lamping with durable construction and materials that maximize energy savings while minimizing repair and replacement costs. We utilize the latest in high-efficiency light sources, including electronically driven compact fluorescent, HID, LED and induction lamping.

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Our Products

Appendix

Lighting and the Environment

Luraline Lighting is proud to be part of the movement toward increased energy efficiency, which represents one of the lighting industry's most important contributions toward green design and the sustainable building movement.

Luraline has focused on producing energy-efficient, high-performance lighting fixtures for more than four decades. The company views its longtime commitment toward eco-efficiency as an integral part of providing the highest quality and value to its customers.

Continuing technical advances have resulted in lamping options that are more cost-effective and yet perform as well or better than older methods. While some of the new lamping sources may cost more initially, the resulting energy savings provide an excellent return on investment for new builds and remodels. In addition, the installation of longer-life lamps minimizes replacement costs as well as labor and operating expenses.

As Luraline continues to evolve along with the lighting industry, the company will keep pace with emerging technologies and materials in order to support both its environmental initiatives and to maximize the bottom-line costs savings for its clients.

Luraline Lighting is a proud member of organizations at the forefront of our industry's environmental initiatives:

NEMA Member

U.S. Green Building Council Member

Illuminating Engineering Society Sustaining Member

In consideration of the environment, this guide was printed with soy ink and in a reduced size to conserve paper.

Architectural Flood Lights

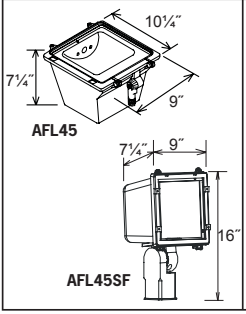
Luraline area, flood, and spot-flood fixtures are suitable for a range of outdoor commercial installations, including building facades, sign-illumination, increased security, or to highlight landscape features. Flood Lights are offered with energy-efficient EISA-compliant pulse-start metal halide, compact fluorescent, 100,000-hour induction, LED and high-pressure sodium lamping options. Fixtures are mounted with swivel knuckles, mounting brackets, stationary arms or adjustable 2-3/8" slip fitters, depending on model. Optional accessories include glare shield for Cutoff applications and post-top fitter for pole-mount or stake for in-ground installations.

Larger-sized PDF files, product cut-sheets and detailed photometric data available at ***www.luraline.com***.

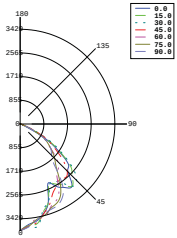
Medium Flood — AFL45

Housing: Die-cast aluminum housing and hinged top frame, textured architectural bronze powdercoat finish over a chromate conversion coating
Reflector: Aluminum reflector
Lens: Tempered glass lens
Socket: HID: Porcelain 4KV pulse rated medium base with nickel-plated screw shell
CF: Plug-in type, GX24Q-3/-4
Mounting: AFL45: Adjustable knuckle with angle indicators and ½″ NPT threads
AFL45SF: Adjustable slip fitter with angle indicators
Wattage: High Pressure Sodium: 35 to 150w
Metal Halide: 50 to 150w
Compact Fluorescent: 1 x 26 to 42w, 2 x 26 to 32w
Listings & Ratings: CSA Listed for wet locations

Dimensions



Photometrics



AFL45M150

See page A86 for Poles, Tenons and Accessories

Catalog #	Wattage	Voltage	Lamp	Ballast
AFL45H35R120**	35	120	HPS	R-NPF
AFL45H50R120**	50	120	HPS	R-NPF
AFL45H70R120**	70	120	HPS	R-NPF
AFL45H100R120**	100	120	HPS	R-NPF
AFL45H150R120**	150	120	HPS	R-NPF
AFL45H50D**	50	120/277	HPS	HX-HPF
AFL45H70Q**	70	Quad	HPS	HX-HPF
AFL45H100Q**	100	Quad	HPS	HX-HPF
AFL45H150Q**	150	Quad	HPS	HX-HPF
AFL45M50D**	50	120/277	MH	HX-HPF
AFL45M70Q**	70	Quad	MH	HX-HPF
AFL45M100Q**	100	Quad	MH	HX-HPF
AFL45M150Q**	150	Quad	MH	HX-HPF
AFL45F26E**	1 x 26	120-277	CF	Electronic
AFL45F32E**	1 x 32	120-277	CF	Electronic
AFL45F42E**	1 x 42	120-277	CF	Electronic
AFL45F52E**	2 x 26	120-277	CF	Electronic
AFL45F64E**	2 x 32	120-277	CF	Electronic

**Add SF to above catalog numbers for 2-3/8" slip fitter model

Options and Accessories

Catalog #	Description
FL45GS	Glare Shield, aluminum, black powdercoat finish
FL45LG	Clear polycarbonate vandal resistant guard
FL45WG	Wire Guard, stainless steel construction
FLPTF	Post top fitter, die cast aluminum, three ½″ coin plugs for 3" or 3-1 /2" post
FLSTK	Ground Stake, built-in wiring compartment with ½″ coin plugs
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)

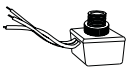

FL45GS
(shown mounted)


FL45LG


FL45WG


FLPTF


FLSTK


PC1 / PC2

Specifications subject to change without notice.

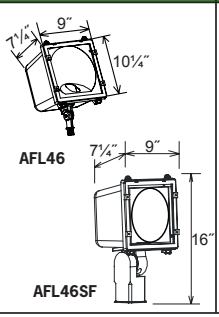
AFL46 — *Medium Spot Flood*

Housing: Die-cast aluminum housing and hinged top frame, textured architectural bronze powdercoat finish over a chromate conversion coating
Reflector: Aluminum spot reflector
Lens: Tempered glass lens
Socket: HID: Porcelain 4KV pulse rated medium base with nickel-plated screw shell
Mounting: AFL46: Adjustable knuckle with angle indicators and ½″ NPT threads
AFL46SF: Adjustable slip fitter with angle indicators
Wattage: High Pressure Sodium: 35 to 150w
Metal Halide: 50 to 150w
LED: 1 x 7.5w, 2 x 7.5w, 1 x 15w, 2 x 15w
Listings & Ratings: CSA Listed for wet locations

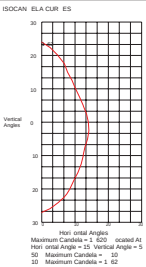
Catalog #	Wattage	Voltage	Lamp	Ballast
AFL46H35R120**	35	120	HPS	R-NPF
AFL46H50R120**	50	120	HPS	R-NPF
AFL46H70R120**	70	120	HPS	R-NPF
AFL46H100R120**	100	120	HPS	R-NPF
AFL46H150R120**	150	120	HPS	R-NPF
AFL46H50D**	50	120/277	HPS	HX-HPF
AFL46H70Q**	70	Quad	HPS	HX-HPF
AFL46H100Q**	100	Quad	HPS	HX-HPF
AFL46H150Q**	150	Quad	HPS	HX-HPF
AFL46M50D**	50	120/277	MH	HX-HPF
AFL46M70Q**	70	Quad	MH	HX-HPF
AFL46M100Q**	100	Quad	MH	HX-HPF
AFL46M150Q**	150	Quad	MH	HX-HPF
AFL46L1X7HQ**	1x 7.5	120-277	LED	Electronic
AFL46L2X7HQ**	2 x 7.5	120-277	LED	Electronic
AFL46L1X15Q**	1 x 15	120-277	LED	Electronic
AFL46L2X15Q**	2 x 15	120-277	LED	Electronic

**Add SF to above catalog numbers for 2-3/8" slip fitter model

Dimensions



Photometrics



AFL46M100

See page A86 for Poles, Tenons and Accessories

Options and Accessories

Catalog #	Description
FL45GS	Glare Shield, aluminum, black powdercoat finish
FL45LG	Clear polycarbonate vandal resistant guard
FL45WG	Wire Guard, stainless steel construction
FLPTF	Post top fitter, die cast aluminum, three ½″ coin plugs for 3″ or 3-1 /2″ post
FLSTK	Ground Stake, built-in wiring compartment with ½″ coin plugs
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)


FL45GS
(shown mounted)


FL45LG


FL45WG


FLPTF


FLSTK


PC1 / PC2

Specifications subject to change without notice.

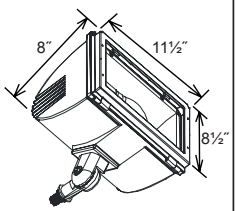
Round Back Flood — AFL61

AFL61

AFL61SF

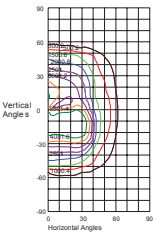
Housing: Die-cast aluminum housing and hinged top frame, textured architectural bronze powdercoat finish over a chromate conversion coating
Reflector: Aluminum reflector
Lens: Tempered flat clear glass lens
Socket: Porcelain 4KV pulse rated medium base with nickel-plated screw shell
Mounting: AFL61: Heavy duty adjustable knuckle with ½″ NPT threads
AFL61SF: adjustable die-cast slip fitter with angle indicators
Wattage: High Pressure Sodium: 35 to 150w
Metal Halide: 50 to 150w
LED: 1 x 7.5w, 2 x 7.5w, 3 x 7.5w, 1 x 15w, 2 x 15w
Listings & Ratings: CSA Listed for wet locations

Dimensions



AFL61

Photometrics



AFL61M175

See page A86 for Poles, Tenons and Accessories

Catalog #	Wattage	Voltage	Lamp	Ballast
AFL61H35R120**	35	120	HPS	R-NPF
AFL61H50R120**	50	120	HPS	R-NPF
AFL61H70R120**	70	120	HPS	R-NPF
AFL61H100R120**	100	120	HPS	R-NPF
AFL61H150R120**	150	120	HPS	R-NPF
AFL61H50D**	50	120/277	HPS	HX-HPF
AFL61H70Q**	70	Quad	HPS	HX-HPF
AFL61H100Q**	100	Quad	HPS	HX-HPF
AFL61M50D**	50	120/277	MH	HX-HPF
AFL61M70Q**	70	Quad	MH	HX-HPF
AFL61M100Q**	100	Quad	MH	HX-HPF
AFL61M150Q**	150	Quad	MH	HX-HPF
AFL61L1X7HQ**	1 x 7.5	120-277	LED	Electronic
AFL61L2X7HQ**	2 x 7.5	120-277	LED	Electronic
AFL61L3X7HQ**	3 x 7.5	120-277	LED	Electronic
AFL61L1X15Q**	1 x 15	120-277	LED	Electronic
AFL61L2X15Q**	2 x 15	120-277	LED	Electronic

**Add SF to above catalog numbers for 2-3/8" slip fitter model

Options and Accessories

Catalog #	Description
FL60GS	Glare Shield, aluminum, black powdercoat finish
FL60LG	Clear polycarbonate vandal resistant guard
FL60WG	Wire Guard, stainless steel construction
FLPTF	Post top fitter, die cast aluminum, three ½″ coin plugs for 3" or 3-1 /2" post
FLSTK	Ground Stake, built-in wiring compartment with ½″ coin plugs
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)

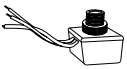
FL60GS
(shown mounted)

FL60LG
(shown mounted)

FL60WG
(shown mounted)

FLPTF

FLSTK



PC1 / PC2

Specifications subject to change without notice.

AFL62 — *Round Back Spot Flood*

Housing: Die-cast aluminum housing and hinged top frame, textured architectural bronze powdercoat finish over a chromate conversion coating
Reflector: Aluminum spot reflector
Lens: Tempered flat clear glass lens
Socket: Porcelain 4KV pulse rated medium base with nickel-plated screw shell
Mounting: AFL62: Heavy duty adjustable knuckle with ½″ NPT threads
AFL62SF: adjustable die-cast slip fitter with angle indicators
Wattage: High Pressure Sodium: 35 to 150w
Metal Halide: 50 to 150w
Listings & Ratings: CSA Listed for wet locations

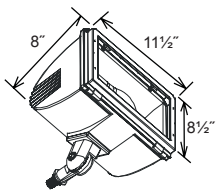
AFL62

AFL62SF

Catalog #	Wattage	Voltage	Lamp	Ballast
AFL62H35R120**	35	120	HPS	R-NPF
AFL62H50R120**	50	120	HPS	R-NPF
AFL62H70R120**	70	120	HPS	R-NPF
AFL62H100R120**	100	120	HPS	R-NPF
AFL62H150R120**	150	120	HPS	R-NPF
AFL62H50D**	50	120/277	HPS	HX-HPF
AFL62H70Q**	70	Quad	HPS	HX-HPF
AFL62H100Q**	100	Quad	HPS	HX-HPF
AFL62M50D**	50	120/277	MH	HX-HPF
AFL62M70Q**	70	Quad	MH	HX-HPF
AFL62M100Q**	100	Quad	MH	HX-HPF
AFL62M150Q**	150	Quad	MH	HX-HPF

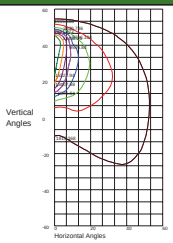
**Add SF to above catalog numbers for 2-3/8" slip fitter model

Dimensions



AFL62

Photometrics



AFL62M175

See page A86 for Poles, Tenons and Accessories

Options and Accessories

Catalog #	Description
FL60GS	Glare Shield, aluminum, black powdercoat finish
FL60LG	Clear polycarbonate vandal resistant guard
FL60WG	Wire Guard, stainless steel construction
FLPTF	Post top fitter, die cast aluminum, three ½″ coin plugs for 3" or 3-1 /2" post
FLSTK	Ground Stake, built-in wiring compartment with ½″ coin plugs
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)

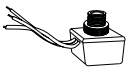
FL60GS
(shown mounted)

FL60LG
(shown mounted)

FL60WG
(shown mounted)

FLPTF

FLSTK



PC1 / PC2

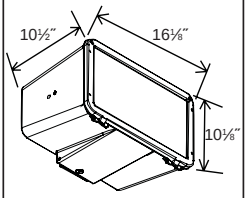
Specifications subject to change without notice.

Large Flood — AFL65

(shown with SY)

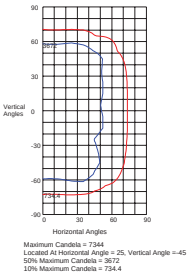
Housing: Die-cast aluminum housing and hinged front frame, externally accessible wiring compartment, textured architectural bronze powdercoat finish over a chromate conversion coating
Reflector: Aluminum reflector
Lens: Tempered flat clear glass lens
Socket: Porcelain 5KV pulse rated mogul base with nickel-plated screw shell
Mounting: Specify stamped steel small yoke (SY) or 2-3/8 slip fitter for pole or tenon mount
Wattage: High Pressure Sodium: 100 to 400w
Pulse-start / Metal Halide: 100 to 400w
LED:1 x 7.5, 2 x 7.5, 3 x 7.5
Listings & Ratings: CSA Listed for wet locations

Dimensions



AFL65

Photometrics



AFL65M400

Catalog #	Wattage	Voltage	Lamp	Ballast
AFL65H100QMG◊◊	100	Quad	HPS	HX-HPF
AFL65H150QMG◊◊	150	Quad	HPS	HX-HPF
AFL65H250Q◊◊	250	Quad	HPS	CWA
AFL65H400Q◊◊	400	Quad	HPS	CWA
AFL65M100QMG◊◊	100	Quad	MH	HX-HPF
AFL65M150QMG◊◊	150	Quad	MH	HX-HPF
AFL65P250Q◊◊	250	Quad	PS Ⓔ	CWA
AFL65P320Q◊◊	320	Quad	PS Ⓔ	CWA
AFL65P400Q◊◊	400	Quad	PS Ⓔ	CWA
AFL65L1X7HQ◊◊	1 x 7.5	120-277	LED	Electronic
AFL65L2X7HQ◊◊	2 x 7.5	120-277	LED	Electronic
AFL65L3X7HQ◊◊	3 x 7.5	120-277	LED	Electronic

Items marked with Ⓔ meet EISA regulations for 150-500 watt Metal Halide luminaires.

◊◊Specify Mounting: SF = 2-⅜" **Slip fitter mount,** SY = Bracket mount

SF

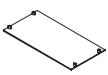
SY

See page A86 for Poles, Tenons and Accessories

Options and Accessories

Catalog #	Description
FL65GS	Glare Shield, aluminum, black powdercoat finish
FL65LG	Clear polycarbonate vandal resistant guard
FL65LY	Large yoke, stamped steel, textured bronze finish
FL65SWB	Swivel wall bracket, steel, bronze finish, includes mounting hardware
FL65WG	Wire Guard, stainless steel construction
FLPTM	Pole Tenon Mount, textured bronze, slips 2-3/8" O.D. poles/tenons
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)

FL65GS
(shown mounted)



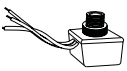
FL65LG

FL65LY
(shown mounted)

FL65SWB

FL65WG
(shown mounted)

FLPTM
(shown mounted)



PC1 / PC2

Specifications subject to change without notice.

AFL50 — *Small Area/Flood*

Housing: Die-cast aluminum housing and hinged top frame, ½″ coin plugs with O-rings for conduit and photocell, textured architectural bronze powdercoat finish over a chromate conversion coating.
Reflector: Aluminum smooth or dimpled reflector
Lens: Tempered flat clear glass lens
Socket: Porcelain 4KV pulse rated medium base socket with nickel-plated screw shell
Mounting: Mount with two-piece swivel bracket, adjustable slip fitter or 6″ extruded arm
Wattage: High Pressure Sodium: 35 to 150w
Metal Halide: 50 to 150w
LED: 2 x 15w, 3 x 15w
Listings & Ratings: CSA Listed for wet locations

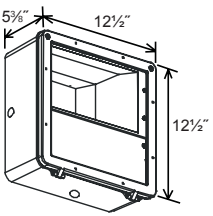
Catalog #	Wattage	Voltage	Lamp	Ballast
AFL50H35R120**	35	120	HPS	R-NPF
AFL50H50R120**	50	120	HPS	R-NPF
AFL50H70R120**	70	120	HPS	R- NPF
AFL50H100R120**	100	120	HPS	R- NPF
AFL50H150R120**	150	120	HPS	R- NPF
AFL50H50D**	50	120/277	HPS	HX-HPF
AFL50H70Q**	70	Quad	HPS	HX-HPF
AFL50H100Q**	100	Quad	HPS	HX-HPF
AFL50H150Q**	150	Quad	HPS	HX-HPF
AFL50M50D**	50	120/277	MH	HX-HPF
AFL50M70Q**	70	Quad	MH	HX-HPF
AFL50M100Q**	100	Quad	MH	HX-HPF
AFL50M150Q**	150	Quad	MH	HX-HPF
AFL50L2X15Q**	2 x 15	120-277	LED	Electronic
AFL50L3X15Q**	3 x 15	120-277	LED	Electronic

****Specify Mounting: BR = Bracket mount, SF = 2-⅜″ Slip fitter mount, ARM = 6″ Arm mount (add suffix "R" for round poles, "S" for Square)**

BR **SF** **ARM**

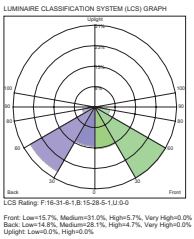
See page A86 for Poles, Tenons and Accessories

Dimensions



AFL50

Photometrics



AFL50M70

Options and Accessories

Catalog #	Description
FL50GS	Glare shield, aluminum, black powdercoat finish
FL50LG	Clear polycarbonate vandal resistant guard
FL50WG	Wire guard, stainless steel construction
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)

FL50GS

FL50LG

FL50WG

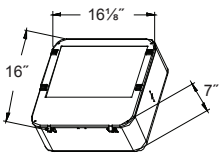
PC1 / PC2

Specifications subject to change without notice.

Medium Area/Flood — AFL70

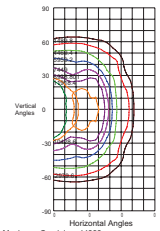
Housing: Die-cast aluminum housing and frame, ½″ coin plugs for conduit and photocell, textured architectural bronze powdercoat finish over a chromate conversion coating
Reflector: Aluminum reflector
Lens: Tempered flat clear glass lens
Socket: HID: Porcelain 5KV pulse rated mogul base with nickel-plated screw shell
Mounting: Mount with two-piece swivel bracket, adjustable slip fitter or 6″ extruded arm
Wattage: High Pressure Sodium: 100 to 400w
Pulse-start / Metal Halide: 100 to 400w
Induction: 80w
LED: 4 x 15w, 5 x 15w
Listings & Ratings: CSA Listed for wet locations

Dimensions



AFL70

Photometrics



Maximum Candela = 14898
Located At Horizontal Angle = 0, Vertical Angle = 0
50% Maximum Candela = 7449
10% Maximum Candela = 1489.8

AFL70P400

Catalog #	Wattage	Voltage	Lamp	Ballast
AFL70H100QMG**	100	Quad	HPS	HX-HPF
AFL70H150QMG**	150	Quad	HPS	HX-HPF
AFL70H250Q**	250	Quad	HPS	CWA
AFL70H400Q**	400	Quad	HPS	CWA
AFL70M100QMG**	100	Quad	MH	HX-HPF
AFL70M150QMG**	150	Quad	MH	HX-HPF
AFL70P250Q**	250	Quad	PS Ⓔ	CWA
AFL70P320Q**	320	Quad	PS Ⓔ	CWA
AFL70P400Q**	400	Quad	PS Ⓔ	CWA
AFL70SI80120**	80	120	IND	Electronic
AFL70SI80277**	80	277	IND	Electronic
AFL70L4X15Q**	4 x 15	120-277	LED	Electronic
AFL70L5X15Q**	5 x 15	120-277	LED	Electronic

Items marked with Ⓔ meet EISA regulations for 150-500 watt Metal Halide luminaires.

****Specify Mounting: BR = Bracket mount, SF = 2-⅜" Slip fitter mount, ARM = 6" Arm mount (add suffix "R" for round poles, "S" for Square)**


BR


SF


ARM

See page A86 for Poles, Tenons and Accessories

Options and Accessories

Catalog #	Description
FL70BF	Baffle, aluminum with black powdercoat finish
FL73GS	Glare Shield, aluminum, black powdercoat finish
FL73LG	Clear polycarbonate vandal resistant guard
FL73WG	Wire Guard, stainless steel construction
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)


FL70BF (shown mounted)


FL73GS (shown mounted)


FL73LG


FL73WG (shown mounted)


PC1 / PC2

Specifications subject to change without notice.

AFL90 — *Large Area/Flood*

Housing: Die-cast aluminum housing and hinged top frame, safety cable restraint, ½" coin plugs with O-rings for conduit and photocell, textured architectural bronze powdercoat finish over a chromate conversion coating
Reflector: Aluminum reflector
Lens: Tempered flat clear glass lens
Socket: Porcelain 5KV pulse rated mogul base with nickel-plated screw shell
Mounting: Mount with two-piece swivel bracket, adjustable slip fitter or 6" extruded arm
Wattage: High Pressure Sodium: 400 to 1000w
Pulse-start: 400 to 1000w
LED: 8 x 15w, 10 x 15w
Listings & Ratings: CSA Listed for wet locations


(shown with SF)

Catalog #	Wattage	Voltage	Lamp	Ballast
AFL90H400Q**	400	Quad	HPS	CWA
AFL90H1000Q**	1000	Quad	HPS	CWA
AFL90H1000480**	1000	480	HPS	CWA
AFL90P400Q**	400	Quad	PS Ⓔ	CWA
AFL90P750Q**	750	Quad	PS	CWA
AFL90P1000Q**	1000	Quad	PS	CWA
AFL90L8X15Q**	8 x 15	120-277	LED	Electronic
AFL90L10X15Q**	10 x 15	120-277	LED	Electronic

****Specify Mounting: BR = Bracket mount, SF = 2-⅜" Slip fitter mount, ARM = 6" Arm mount (add suffix "R" for round poles, "S" for Square)**

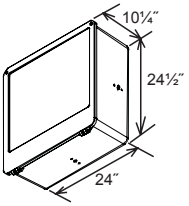

BR


SF


ARM

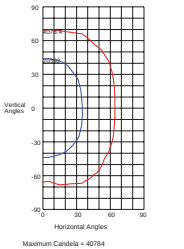
See page A86 for Poles, Tenons and Accessories

Dimensions



AFL90

Photometrics



AFL90M1000

Items marked with Ⓔ meet EISA regulations for 150-500 watt Metal Halide luminaires.

Options and Accessories

Catalog #	Description
CPSC	3' steel cable with clear vinyl coating, steel eye and loop ends
FL90BF	Baffle, aluminum with black powdercoat finish
FL90GS	Glare Shield, aluminum, black powdercoat finish
FL90LG	Clear polycarbonate vandal resistant guard
FL90WG	Wire Guard, stainless steel construction
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)

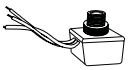

CPSC


FL90BF
(shown mounted)


FL90GS
(shown mounted)


FL90LG


FL90WG
(shown mounted)

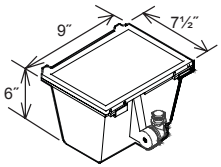

PC1 / PC2

Specifications subject to change without notice.

Small Flood — AFL31

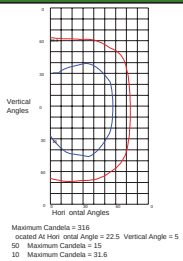
Housing: Die-cast aluminum housing and hinged lens frame, textured architectural bronze powdercoat finish over a chromate conversion coating
Reflector: Anodized aluminum reflector
Lens: Tempered glass lens
Socket: HID: Porcelain 4KV pulse rated medium base with nickel-plated screw shell
CF: Plug-in type, GX24Q-3/-4
Mounting: Adjustable knuckle with ½″ NPT threads
Wattage: High Pressure Sodium: 35 to 150w
Compact Fluorescent: 1 x 26 to 42w
LED: 1 x 7.5w, 2 x 7.5w
Listings & Ratings: CSA Listed for wet locations

Dimensions



AFL31

Photometrics



AFL31F42E

Catalog #	Wattage	Voltage	Lamp	Ballast
AFL31H35R120	35	120	HPS	R-NPF
AFL31H50R120	50	120	HPS	R-NPF
AFL31H70R120	70	120	HPS	R-NPF
AFL31H100R120	100	120	HPS	R-NPF
AFL31H150R120	150	120	HPS	R-NPF
AFL31F26E	1 x 26	120-277	CF	Electronic
AFL31F32E	1 x 32	120-277	CF	Electronic
AFL31F42E	1 x 42	120-277	CF	Electronic
AFL31L1X7HQ	1 x 7.5	120-277	LED	Electronic
AFL31L2X7HQ	2 x 7.5	120-277	LED	Electronic

Options and Accessories

Catalog #	Description
FL32GS	Glare Shield, aluminum, black powdercoat finish
FL32LG	Clear polycarbonate vandal resistant guard
FL32WG	Wire Guard, stainless steel construction
FLPTF	Post top fitter, die cast aluminum, three ½″ coin plugs for 3″ or 3-1 /2″ post
FLSTK	Ground Stake, built-in wiring compartment with ½″ coin plugs
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)

FL32GS

FL32LG
(shown mouted)

FL32WG
(shown mounted)

FLPTF

FLSTK

PC1 / PC2

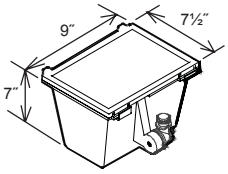
Specifications subject to change without notice.

AFL32 — *Deluxe Small Flood*

Housing: Die-cast aluminum housing and hinged lens frame, textured architectural bronze powdercoat finish over a chromate conversion coating
Reflector: Anodized aluminum reflector
Lens: Tempered glass lens
Socket: Porcelain 4KV pulse rated medium base with nickel-plated screw shell
Mounting: Adjustable knuckle with ½″ NPT threads
Wattage: High Pressure Sodium: 35 to 150w
Metal Halide: 50 to 100w
Listings & Ratings: CSA Listed for wet locations

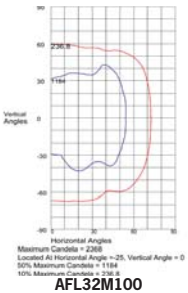
Catalog #	Wattage	Voltage	Lamp	Ballast
AFL32H35R120	35	120	HPS	R-NPF
AFL32H50R120	50	120	HPS	R-NPF
AFL32H70R120	70	120	HPS	R-NPF
AFL32H100R120	100	120	HPS	R-NPF
AFL32H150R120	150	120	HPS	R-NPF
AFL32H50D	50	120/277	HPS	HX-HPF
AFL32H70Q	70	Quad	HPS	HX-HPF
AFL32H100Q	100	Quad	HPS	HX-HPF
AFL32M50D	50	120/277	MH	HX-HPF
AFL32M70Q	70	Quad	MH	HX-HPF
AFL32M100Q	100	Quad	MH	HX-HPF

Dimensions



AFL32

Photometrics



AFL32M100

Options and Accessories

Catalog #	Description
FL32GS	Glare Shield, aluminum, black powdercoat finish
FL32LG	Clear polycarbonate vandal resistant guard
FL32WG	Wire Guard, stainless steel construction
FLPTF	Post top fitter, die cast aluminum, three ½″ coin plugs for 3″ or 3-1 /2″ post
FLSTK	Ground Stake, built-in wiring compartment with ½″ coin plugs
PC1	120V Photocell (Field Installed)
PC2	208-277V Photocell (Field Installed)

FL32GS

FL32LG
(shown mounted)

FL32WG
(shown mounted)

FLPTF

FLSTK

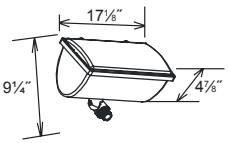
PC1 / PC2

Specifications subject to change without notice.

Non-Metallic Flood — AFL10

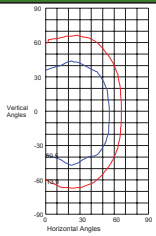
Housing: Black non-metallic housing with weatherproof gasket
Reflector: Aluminum reflector
Lens: Clear Polycarbonate lens
Socket: Plug-in type, GX23-2
Mounting: Adjustable knuckle with ½" NPT threads
Wattage: 1 x 13w or 2 x 13w compact fluorescent
Listings & Ratings: CSA Listed for wet locations

Dimensions



AFL10

Photometrics

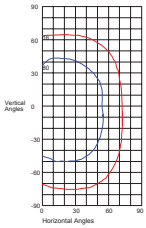


Maximum Candela = 139
Located At Horizontal Angle =-32.5, Vertical Angle =-10
50% Maximum Candela = 69.5
10% Maximum Candela = 13.9

AFL10F13

Catalog #	Wattage	Voltage	Lamp	Ballast
AFL10F13	1x13	120	CF	Magnetic
AFL10F26	2x13	120	CF	Magnetic

Photometrics



Maximum Candela = 160
Located At Horizontal Angle =-10, Vertical Angle = 10
50% Maximum Candela = 80
10% Maximum Candela = 16

AFL10F26

Options and Accessories	
Catalog #	**Description**
FLPTF	Post top fitter, die cast aluminum, three ½" coin plugs for 3" or 3-1 /2" post
FLSTK	Ground Stake, built-in wiring compartment with ½" coin plugs

FLPTF

FLSTK

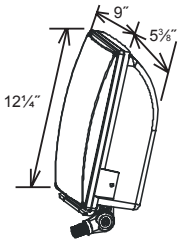
Specifications subject to change without notice.

AEP10 — *Non-Metallic Flood II*

Housing: Black vandal resistant polycarbonate housing
Reflector: Specular aluminum reflector
Lens: Clear polycarbonate hinged lens with frosted lower area
Socket: HID: Porcelain 4KV pulse rated medium base with nickel-plated screw shell
CF: Plug-in type: GX24Q-4
Mounting: Adjustable knuckle with ½″ NPT threads
Wattage: High Pressure Sodium: 70w
Compact Fluorescent: 2 x 42w
Listings & Ratings: CSA Listed for wet locations

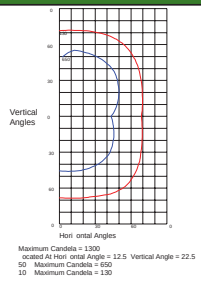
Catalog #	Wattage	Voltage	Lamp	Ballast
AEP10H70R120	70	120	HPS	Magnetic
AEP10F84E	2 x 42	120-277	CF	Electronic

Dimensions



AEP10

Photometrics



AEP10F84E

Options and Accessories

Catalog #	Description
FLPTF	Post top fitter, die cast aluminum, three ½″ coin plugs for 3″ or 3-1 /2″ post
FLSTK	Ground Stake, built-in wiring compartment with ½″ coin plugs

FLPTF

FLSTK

Specifications subject to change without notice.

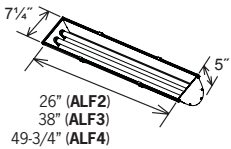
T5 Fluorescent Flood/Wall Mount — ALF

Bracket Mount (ALF - RB)

Knuckle Mount (ALF - RK)

Housing: Heavy duty extruded die-cast aluminum housing with die-cast end caps and stainless steel lens clips, choice of anodized housing or powdercoat finish with chromate conversion process for durability, integral ballast
Reflector: Anodized aluminum reflector
Lens: Clear flat glass lens
Socket: T5 fluorescent socket
Mounting: Mount on ½″ NPT adjustable knuckle (26″ and 38″ models only) or adjustable brackets with angle indicators for wall mounting
Wattage: T5: 1 x 24w, 2 x 24w, 1 x 39w, 2 x 39w, 1 x 54w, 2 x 54w
Listings & Ratings: CSA Listed for wet locations

Dimensions



Catalog #	Wattage	Voltage	Lamp	Ballast
Bracket Mount Models:				
ALF2RB5124 **	1 x 24	120-277	T5	Electronic
ALF2RB5224 **	2 x 24	120-277	T5	Electronic
ALF3RB5139 **	1 x 39	120-277	T5	Electronic
ALF3RB5239 **	2 x 39	120-277	T5	Electronic
ALF4RB5154 **	1 x 54	120-277	T5	Electronic
ALF4RB5254 **	2 x 54	120-277	T5	Electronic
Knuckle Mount Models:				
ALF2RK5124 **	1 x 24	120-277	T5	Electronic
ALF2RK5224 **	2 x 24	120-277	T5	Electronic
ALF3RK5139 **	1 x 39	120-277	T5	Electronic
ALF3RK5239 **	2 x 39	120-277	T5	Electronic

**Specify color: Z= Bronze, W=White, B=Black

Specifications subject to change without notice.

ASL — *T5 Fluorescent Sign Lights*

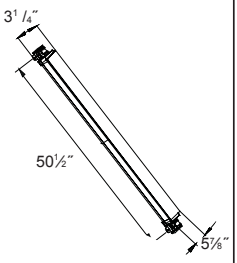
Housing: Heavy duty extruded aluminum body, cast aluminum end plates, splice boxes and caps, white powdercoat finish on inside and outside
Lens: Acrylic lens
Socket: T5 fluorescent sockets
Mounting: Mount on conduit (not included)
Wattage: ASL14T5: 1 x 54w
ASL24T5: 2 x 54w (lamps side by side)
ASL28T5: 2 x 54w (lamps end to end)
ASL48T5: 4 x 28w
Ratings: CSA Listed for wet locations

ASL14/28

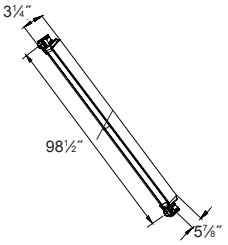
ASL24/48

Catalog #	Wattage	Voltage	Lamp	Ballast
ASL14T5	1 x 54	120-277	T5HO	Electronic
ASL24T5	2 x 54	120-277	T5HO	Electronic
ASL28T5	2 x 54	120-277	T5HO	Electronic
ASL48T5	4 x 28	120-277	T5	Electronic
Lamps not included				

Dimensions

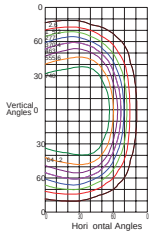


ASL14, ASL24



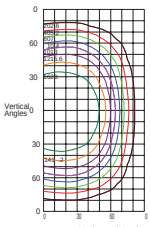
ASL28, ASL48

Photometrics



Maximum Candela = 26 ocated At
Hori ontal Angle = 25.5 Vertical Angle = 0
50 Maximum Candela = 463
10 Maximum Candela = 2.6

ASL14T5



Maximum Candela = 2026 ocated At
Hori ontal Angle = 13 Vertical Angle = 0
50 Maximum Candela = 1013
10 Maximum Candela = 202.6

ASL24T5

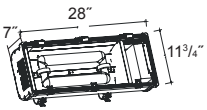
Specifications subject to change without notice.

Induction Tunnel Light — ATN51

ATN51

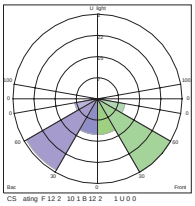
Housing: Extruded aluminum housing & die cast end plates, textured architectural bronze powdercoat finish over chromate conversion coating
Reflector: Specular aluminum reflector
Lens: Tempered clear flat glass lens with clips
Mounting: Mount on pipe, wall or ceiling with adjustable brackets (BR), or pole mount with 2-3/8" slip fitter (SF)
Wattage: Induction: 150 or 200w
Listings & Ratings: CSA Listed for wet locations

Dimensions



ATN51

Photometrics



CS ating F 12 2 10 1 B 12 2 1 U 0 0

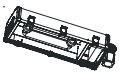
Front ow=12.2 Medium=2 .1 High= .6 Ver High=0.4
Bac ow=12.2 Medium=2 .2 High=7. Ver High=0.3
U light ow=0.0 High=0.0

ATN51I150

Catalog #	Wattage	Voltage	Lamp	Ballast
ATN51I150120◊◊	150	120	IND	Electronic
ATN51I150277◊◊	150	277	IND	Electronic
ATN51I200120◊◊	200	120	IND	Electronic
ATN51I200277◊◊	200	277	IND	Electronic

◊◊Specify Mounting: BR = Bracket mount, SF = 2-⅜" Slip fitter mount

BR
(shown mounted)



SF
(shown mounted)

Specifications subject to change without notice.

About High Performance Lighting

Lighting plays a critical role in the ever-evolving standards and practices of Green Building and Sustainable Design. Increased environmental awareness in the public and private sectors, coupled with developments in technology, has impacted the criteria for lighting specifications.

The focus is on “High-Performance Lighting,” or lighting that is both efficient and effective. Lighting fixtures are a key component of a total lighting solution, which incorporates energy-efficient light sources, then uses them to their best advantage by maximizing delivered lumens while reducing Light Pollution. The goal is to achieve lighting objectives while reducing energy and maintenance costs, and with an added emphasis on value and long-term environmental benefits.

The “High-Performance Lighting” design process is inclusive of the entire building project, its purposes and functions, and the needs of the people involved. The specifier should consider the number and type of fixtures, and the use of such features as enhanced reflectors and optics, and sensors and lighting control systems. Many installations benefit from the use of Cutoff lighting fixtures that allow the user to further direct and adjust light levels and distribution patterns.

The choice of light source for a high-performance lighting installation depends on a number of factors including lumen maintenance, color stability, and rated average lamp life, as well as environmental concerns such as energy efficiency and low mercury content.

This catalog features a wide range of high-performance, energy-efficient lighting, including a wide selection of Cutoff fixtures that comply with current Green Building Standards.

Light Source Comparisons

(sorted by lumen output)

Light Source	Lamp Wattage	Lumen Output	Lamp Life	Lumens Per Watt (Efficacy)
LED (1 x 15w)	15	700	50000	46
Incandescent (A)	60	890	1000	15
Compact Fluorescent	13	900	12000	69
Halogen (A-Hal)	50	965	3000	19
LED (2 x 7.5w)	15	1000	50000	66
Incandescent (A)	75	1220	750	16
Compact Fluorescent	18	1250	12000	69
Halogen (A-Hal)	75	1315	3000	18
LED (3 x 7.5w)	22.5	1500	50000	66
Incandescent (A)	100	1600	750	16
Halogen (A-Hal)	100	1800	3000	18
Compact Fluorescent	26	1800	16000	69
Compact Fluorescent	32	2400	16000	75
Incandescent (A)	150	2740	750	18
LED (4 x 15w)	60	2800	50000	46
Induction	40	2800	100000	70
Compact Fluorescent	42	3200	16000	76
LED (5 x 15w)	75	3500	50000	46
Incandescent (A)	200	3850	750	19
Pulse-start Metal Halide	50	4100	16000	82
Compact Fluorescent	57	4300	16000	75

Light Source Comparisons

(sorted by lumen output)

Light Source	Lamp Wattage	Lumen Output	Lamp Life	Lumens Per Watt (Efficacy)
LED (8 x 15w)	120	5600	50000	46
Incandescent (A)	300	5860	750	20
Pulse-start Metal Halide	70	6200	16000	89
Induction	80	6400	100000	80
Pulse-start Metal Halide	100	9500	16000	95
Induction	120	9600	100000	80
Induction	150	12000	100000	80
Pulse-start Metal Halide	150	14000	16000	93
Pulse-start Metal Halide	175	16000	15000	91
T5HO (4 x 54w)	216	17800	25000	82
Induction	200	18000	100000	90
Pulse-start Metal Halide	250	23750	15000	95
T5HO (6 x 54w)	324	26700	25000	82
Pulse-start Metal Halide	320	30000	20000	94
Pulse-start Metal Halide	400	42600	20000	107
Pulse-start Metal Halide	750	82000	16000	110
Pulse-start Metal Halide	1000	120000	15000	120

Metal Halide Lighting

Metal Halide provides the whitest light and best color rendering of the High Intensity Discharge (HID) lamping category, and metal halide pulse-start technology, which has virtually replaced conventional probe-starts, has even greater benefits. Pulse-start metal halide lamps provide increased efficiency and longer lamp life, thereby lowering both replacement and lifetime operating costs. Higher initial light levels and an up to 40 percent improvement in maintained light over time means lighting requirements are fulfilled with fewer total fixtures. Additional pluses include faster warm-up and re-strike times, better cold weather starts, and a wide range of available pulse-start lamps and ballasts from 20 to 1,000 watts.

Luraline Pulse-Start products between 150 and 500 watts comply with the Energy Independence and Security Act (EISA) of 2007.

Please consider the environment, when selecting light sources:

Instead of Probe Start	Use Pulse-Start Metal Halide	Energy Savings	Lumen Output	Lamp Life
175 Watt	150 Watt	15%	122%	150%
250 Watt	175 Watt	30%	85%	150%
250 Watt	250 Watt	0%	120%	150%
400 Watt	320 Watt	20%	80%	120%
400 Watt	400 Watt	0%	118%	120%

Instead of Probe Start	Use F54T5HO Fluorescent	Energy Savings	Lumen Output	Lamp Life
250 Watt	4x54 Watt	15%	88%	200%
400 Watt	6x54 Watt	18%	75%	125%

Fluorescent Lighting

Fluorescent fixtures are designed to meet illumination requirements while significantly lowering operating costs and complying with mandated energy usage standards. Fluorescent lamps last up to 20 times longer and are up to six times more efficient than traditional incandescent bulbs. Upgrading from incandescent to compact fluorescent saves up to 79 percent in energy costs without any sacrifice in quality or color rendering. Most fluorescent lamps are also available with low mercury content.

Because they can be used in traditional light-bulb sockets, compact fluorescent lamps are the preferred choice for retrofits of existing incandescent fixtures. However, please note that fixtures utilizing dedicated fluorescent sockets, ballasts and lamps are preferred whenever possible due to greater efficiency and longevity than their screw-in or GU-24 based compact fluorescent counterparts.

Please consider the environment, when selecting light sources:

Instead of Incandescent	Use Compact Fluorescent	Energy Savings	Lumen Output	Lamp Life
60 Watt	13 Watt	73%	100%	1200%
75 Watt	13 Watt	79%	74%	1600%
75 Watt	18 Watt	72%	102%	1600%
100 Watt	26 Watt	69%	112%	1600%
150 Watt	32 Watt	75%	89%	2133%
150 Watt	42 Watt	69%	118%	2133%
200 Watt	42 Watt	77%	84%	2133%
200 Watt	57 Watt	69%	113%	2133%

Instead of Halogen Par	Use Compact Fluorescent	Energy Savings	Lumen Output	Lamp Life
50 Watt	13 Watt	68%	169%	400%
75 Watt	13 Watt	79%	90%	400%
75 Watt	18 Watt	72%	125%	400%
90 Watt	18 Watt	77%	110%	600%
120 Watt	26 Watt	74%	97%	640%

LED Lighting

For state-of-the-art, long-life, mercury-free fixtures, specify LED lamping. As technology advances and costs continue to drop, LEDs are evolving into a mainstream light source, whose ever-increasing life cycles and light output make them an intelligent choice for a variety of commercial applications.

The latest LEDs boast up to 100,000-hour life cycles plus efficacy of 100 lumens per watt and higher, thereby using significantly less energy than other light sources to produce a comparable amount of light, while dramatically lowering maintenance and operating costs. Low UV radiation and heat levels prolong fixture and component life even further, making LEDs one of the best options for UV-sensitive applications. LED lamps are also mercury-free and thus more environmentally sound than traditional HID and fluorescent.

Please consider the environment, when selecting light sources:

Instead of	Use LED	Energy Savings	Lumen Output	Lamp Life
75 Watt Incand	15 Watt	80%	95%	8000%
100 Watt Incand	22.5 Watt	77.5%	88%	10600%
200 Watt Incand	75 Watt	25%	206%	10600%
70 Watt MH Par	75 Watt	0%	95%	640%

Induction Lighting

Comparable to the newest energy-saving light sources, micro-electronically controlled electromagnetic induction lamps boast a rated average life of 100,000 hours, and high-lumen output that renders them virtually maintenance free. High-lumen maintenance rates an impressive 95 percent after 2,000 hours and 85 percent after 6,000 hours. High-frequency electronic ballasts, coupled with high system efficiency, reduce energy costs by up to 75 percent compared to HID, and up to 95 percent compared to incandescent. System efficiency of high-frequency electronic ballasts is 50 percent greater than magnetic ballasts. Additional benefits of induction lighting include excellent color rendition (CRI of 80+), instant on/off, starting temperatures as low as -35 degrees Celsius, and almost zero mercury content.

When long life is the top priority, specify induction lamping. Its extreme longevity makes it ideal for hard-to-reach areas such as street lights, warehouses, gymnasiums, and other high-height applications.

Please consider the environment, when selecting light sources:

Instead of	Use Induction	Energy Savings	Lumen Output	Lamp Life
150 Watt Incand	40 Watt	67%	102%	13300%
300 Watt Incand	80 Watt	67%	109%	13300%
100 Watt MH Par	80 Watt	20%	118%	800%
150 Watt MH Par	120 Watt	20%	105%	666%
175 Watt PSMH	150 Watt	15%	94%	870%
250 Watt PSMH	200 Watt	20%	90%	833%

Lighting Organizations and Resources

Illuminating Engineering Society (IESNA)

IESNA is the industry's premier lighting community dedicated to promoting the art and science of quality lighting to its members, allied professional organizations, and the public. The IESNA Lighting Handbook is the heart of a comprehensive library of technical standards and guides, which serves as benchmarks for residential and commercial building and energy code legislation.

http://www.ies.org

International Dark-Sky Association (IDA)

The IDA seeks to preserve dark skies worldwide for the benefit of society by promoting outdoor lighting standards that minimize light pollution, light trespass, and glare. IESNA has assisted IDA in its mission by establishing classifications for outdoor fixtures, measured by the amount of light wasted into the night sky: The percentage of lamp lumens released into the sky ranges from zero percent for Full-Cutoff rated fixtures, to 2.5 percent for Cutoff, 5 percent for Semi-Cutoff, and unrestricted lumens with Non-Cutoff rated fixtures. However, in addition to the IES classification, factors such as security, maintenance, energy efficiency, the spacing and number of fixtures, and the area's ground reflectance must also be considered when specifying the ideal Dark-Sky Friendly lighting fixture for an outdoor installation.

http://www.darksky.org

National Electrical Manufacturers Association (NEMA)

The electrical manufacturing industry's trade association provides a forum for the development of technical and performance standards; advocacy of industry policies on legislative and regulatory matters in state and federal legislatures and executive agencies; and collection, analysis, and dissemination of market data. NEMA played a key role in the development, passage and implementation of The Energy Independence and Security Act (EISA) and is continually involved in proposed legislation on environmental standards for the electrical industry.

http://www.nema.org

U.S. Green Building Council (USGBC)

USGBC is dedicated to expanding green building practices and education and its **LEED®** (Leadership in Energy and Environmental Design) Green Building Rating System™ for developing high-performance, sustainable buildings. LEED addresses all building types and emphasizes state-of-the-art strategies in five areas: sustainable site development, water savings, energy efficiency, materials and resources selection, and indoor environmental quality. **LEED-EB®** for Existing Buildings offers certification for built structures through implementation of various energy performance methods.

http://www.usgbc.org

Energy Star

America's most widely recognized energy efficiency program was created by the US Department of Energy and the Environmental Protection Agency in order to save money and reduce environmental impact through energy-efficient products and practices. Qualified lighting fixtures include those with fluorescent and LED light sources. Energy Star ratings also contribute toward certification of **LEED-EB®** projects for Existing Buildings, with **LEED®** credits awarded for raising the Energy Star rating of a built structure through implementation of various energy performance methods.

http://www.energystar.gov

Additional Resources

Today's rapidly developing construction technologies require near-constant code updates, including the National Electric Code, which standardizes various aspects of electrical construction; the energy standards established and jointly sponsored by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers and the Illuminating Engineering Society of America, popularly known as ASHRAE/IESNA 90.1; and the new Green Building standards being adopted by local and regional governments across the US. This catalog features lighting fixtures and guidelines to assist you in the specification of compliant lighting products.

Numerical Product Index

Numerical Product Index

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