



SERVICE AGREEMENT NO. 6764

Purchase and Installation of LED Lighting at CCIA

THIS **Purchase and Installation of LED Lighting at CCIA Agreement** ("Agreement") is entered into by and between the City of Corpus Christi, a Texas home-rule municipal corporation ("City") and Landmark Electric Company, LLC ("Contractor"), effective upon execution by the City Manager or the City Manager's designee ("City Manager").

WHEREAS, Contractor has bid to provide purchase and installation of LED lighting in response to Request for Bid/Proposal No. 6764 ("RFB/RFP"), which RFB/RFP includes the required scope of work and all specifications and which RFB/RFP and the Contractor's bid or proposal response, as applicable, are incorporated by reference in this Agreement as Exhibits 1 and 2, respectively, as if each were fully set out here in its entirety.

NOW, THEREFORE, City and Contractor agree as follows:

1. **Scope.** Contractor shall provide purchase and installation of LED lighting ("Services") in accordance with the attached Scope of Work, as shown in **Attachment A**, the content of which is incorporated by reference into this Agreement as if fully set out here in its entirety, and in accordance with Exhibit 2.

2. **Term.**

(A) The term of this Agreement is six months beginning on the date executed by the City. The parties may mutually renew the term of this Agreement for up to zero additional zero-month period(s) (each an "Option Term"), provided, the parties do so in writing prior to the expiration of the original term or the then-current Option Term.

(B) At the end of the term of this Agreement or the final Option Term, the Agreement may, at the request of the City prior to expiration of the term, or final Option Term if applicable, continue on a month-to-month basis for up to six months, with compensation based on the applicable pro rata monthly amount of the total amount stated in section 3 of this Agreement. The Contractor may opt out of this month-to-month term by providing advance notice to the City at least 30 days prior to the expiration of the then-current term or final Option Term. During the month-to-month term, either party may terminate the Agreement upon 30 days' advance written notice to the other party.

3. **Compensation and Payment.** This Agreement is for an amount not to exceed \$305,970.05, subject to approved amendments and changes. Payment will be

made for Services performed and accepted by the City within 30 days of completion, subject to receipt of an acceptable invoice. All pricing must be in accordance with the attached Quote/Bid/Pricing Schedule, as shown in **Attachment B**, the content of which is incorporated by reference into this Agreement as if fully set out here in its entirety. Invoices must be mailed to the following address, with a copy provided to the Contract Administrator:

City of Corpus Christi
Attn: Accounts Payable
P.O. Box 9277
Corpus Christi, Texas 78469-9277

- 4. Contract Administrator.** The Contract Administrator designated by the City is responsible for approval of all phases of performance and operations under this Agreement, including deductions for non-performance and authorizations for payment. The City's Contract Administrator for this Agreement is as follows:

Name: Victor Gonzalez
Department: Corpus Christi International Airport
Phone: 361-826-1788
Email: Victor@corpuschristitx.gov

5. Insurance; Bonds.

(A) Before performance can begin under this Agreement, the Contractor must deliver a certificate of insurance ("COI"), as proof of the required insurance coverages, to the City's Risk Manager and the Contract Administrator. Additionally, the COI must state that the City will be given at least 30 days' advance written notice of cancellation, material change in coverage, or intent not to renew any of the policies. The City must be named as an additional insured. The City Attorney must be given copies of all insurance policies within 10 days of the City Manager's written request. Insurance requirements are as stated in **Attachment C**, the content of which is incorporated by reference into this Agreement as if fully set out here in its entirety.

(B) In the event a payment bond, a performance bond, or both, are required of the Contractor to be provided to the City under this Agreement before performance can commence, the terms, conditions, and amounts required in the bonds and appropriate surety information are as included in the RFB/RFP or as may be added to Attachment C, and such content is incorporated here in this Agreement by reference as if each bond's terms, conditions, and amounts were fully set out here in its entirety.

- 6. Purchase Release Order.** For multiple-release purchases of Services to be provided by the Contractor over a period of time, the City may exercise its right to specify time, place, and quantity of Services to be delivered in the following

manner: any City department or division may send to Contractor a purchase release order signed by an authorized employee of the department or division. The purchase release order must refer to this Agreement, and Services will not be rendered until the Contractor receives the signed purchase release order.

- 7. Inspection and Acceptance.** Any Services that are provided but not accepted by the City must be corrected or re-worked immediately at no charge to the City. If immediate correction or re-working at no charge cannot be made by the Contractor, a replacement service may be procured by the City on the open market and any costs incurred, including additional costs over the item's bid/proposal price, must be paid by the Contractor within 30 days of receipt of the City's invoice.

8. Warranty.

(A) The Contractor warrants that all products supplied under this Agreement are new, quality items, fit for their intended purpose, and of good material and workmanship. The Contractor warrants that it has clear title to the products and that the products are free of liens or encumbrances.

(B) The specific warranty provisions applicable to this Agreement are stated in **Attachment D**, which is attached to this Agreement and incorporated by reference into this Agreement as if fully set out here in its entirety. Products and Services, if any, purchased under this Agreement shall be warranted by the Contractor or, if indicated in Attachment D by the manufacturer, for the period stated in Attachment D.

(C) Contractor warrants that all Services shall be performed in accordance with the standard of care used by similarly situated contractors performing the same type or kind of services.

- 9. Quality/Quantity Adjustments.** Any Service quantities indicated on Attachment B are estimates only and do not obligate the City to order or accept more than the City's actual requirements nor do the estimates restrict the City from ordering less than its actual needs during the term of the Agreement and including any Option Term. Substitutions and deviations from the City's product requirements or specifications are prohibited without the prior written approval of the Contract Administrator.

- 10. Non-Appropriation.** The continuation of this Agreement after the close of any fiscal year of the City, which fiscal year ends on September 30th annually, is subject to appropriations and budget approval specifically covering this Agreement as an expenditure in City's fiscal budget, and it is within the sole discretion of the City's City Council to determine whether or not to fund this Agreement. The City does not represent that a budget item for this Agreement will be adopted, as that

determination and decision is within the City Council's sole discretion when adopting each fiscal budget.

- 11. Independent Contractor.** Contractor shall perform the Services and work required by this Agreement as an independent contractor and shall furnish such Services in its own manner and method, and under no circumstances or conditions will any agent, servant, or employee of the Contractor be considered an employee of the City.
- 12. Subcontractors.** In performing the Services and work pursuant to this Agreement, Contractor may not enter into subcontracts or utilize the services of subcontractors.
- 13. Amendments and Change Orders.** This Agreement may be modified only by written amendment or change order signed by an authorized representative of each party. Change orders may be used to modify quantities as deemed necessary by the City. Any changes that alter the method, price, or schedule of Services and work by the Contractor must be allowable, allocable, within the scope of any applicable federal grant or cooperative agreement, and reasonable for the completion of the project scope for the Services.
- 14. Waiver.** No waiver by either party of any breach of any term or condition of this Agreement waives any subsequent breach of the same.
- 15. Taxes.** Reserved.
- 16. Notice.** Any notice required under this Agreement must be given by fax, hand delivery, or certified mail, postage prepaid, and is deemed received on the day faxed or hand-delivered or on the third day after postmark if sent by certified mail. Notice must be sent as follows:

IF TO CITY:

City of Corpus Christi
Attn: Victor Gonzalez, Senior Project Manager
Aviation Department
1000 International Dr., Corpus Christi, TX 78406
Phone: 361-826-1788
Fax: 361-826-4580

IF TO CONTRACTOR:

Landmark Electric Company, LLC
Attn: James Hernandez, Owner
Address: 4630 Larkspur Lane, Corpus Christi, TX 78416
Phone: 361-929-2122
Fax: N/A

17. CONTRACTOR SHALL FULLY INDEMNIFY, HOLD HARMLESS AND DEFEND THE CITY OF CORPUS CHRISTI AND ITS OFFICERS, EMPLOYEES AND AGENTS ("INDEMNITEES") FROM AND AGAINST ANY AND ALL LIABILITY, LOSS, CLAIMS, DEMANDS, SUITS, AND CAUSES OF ACTION OF WHATEVER NATURE, CHARACTER, OR DESCRIPTION ON ACCOUNT OF PERSONAL INJURIES, PROPERTY LOSS, OR DAMAGE, OR ANY OTHER KIND OF INJURY, LOSS, OR DAMAGE, INCLUDING ALL EXPENSES OF LITIGATION, COURT COSTS, ATTORNEYS' FEES AND EXPERT WITNESS FEES, WHICH ARISE OR ARE CLAIMED TO ARISE OUT OF OR IN CONNECTION WITH A BREACH OF THIS AGREEMENT OR THE PERFORMANCE OF THIS AGREEMENT BY THE CONTRACTOR OR RESULTS FROM THE NEGLIGENT ACT, OMISSION, OR FAULT OF THE CONTRACTOR OR ITS EMPLOYEES OR AGENTS. CONTRACTOR MUST, AT ITS OWN EXPENSE, INVESTIGATE ALL CLAIMS AND DEMANDS, ATTEND TO THEIR SETTLEMENT OR OTHER DISPOSITION, DEFEND ALL ACTIONS BASED THEREON WITH COUNSEL SATISFACTORY TO THE CITY ATTORNEY, AND PAY ALL CHARGES OF ATTORNEYS AND ALL OTHER COSTS AND EXPENSES OF ANY KIND ARISING OR RESULTING FROM ANY SAID LIABILITY, DAMAGE, LOSS, CLAIMS, DEMANDS, SUITS, OR ACTIONS. THE INDEMNIFICATION OBLIGATIONS OF CONTRACTOR UNDER THIS SECTION SHALL SURVIVE THE EXPIRATION OR EARLIER TERMINATION OF THIS AGREEMENT.

18. Termination.

(A) Termination for Cause. The City may terminate this Agreement for Contractor's failure to comply with any of the terms of this Agreement. The City must give the Contractor written notice of the breach and set out a reasonable opportunity to cure. If the Contractor has not cured within the cure period provided, the City may terminate this Agreement immediately thereafter.

(B) Termination for Convenience. Alternately, the City may terminate this Agreement for convenience upon 30 days' advance written notice to the Contractor. In the event of a termination for convenience, the Contractor shall be compensated for all Services performed prior to the date of termination, and the City shall have no further obligation to the Contractor.

19. Effect of Breach. In addition to the remedy of termination, if the Contractor violates or breaches any provision of the Agreement, the City may pursue any other claims or causes of action available under the law. No specific sanctions or penalties apply to this Agreement except those that are otherwise available under the law.

- 20. Limitation of Liability.** The City's maximum liability under this Agreement is limited to the total amount of compensation stated in section 3 of this Agreement. In no event shall the City be liable for incidental, consequential, or special damages.
- 21. Assignment.** No assignment of this Agreement by the Contractor, or of any right or interest contained herein, is effective unless the City Manager first gives written consent to such assignment. The performance of this Agreement by the Contractor is of the essence of this Agreement, and the City Manager's right to withhold consent to such assignment is within the sole discretion of the City Manager on any ground whatsoever.
- 22. Severability.** Each provision of this Agreement is considered to be severable and, if, for any reason, any provision or part of this Agreement is determined to be invalid and contrary to existing and applicable law, such invalidity shall not impair the operation of nor affect those portions of this Agreement that are valid, but this Agreement shall be construed and enforced in all respects as if the invalid or unenforceable provision or part had been omitted.
- 23. Order of Precedence.** In the event of any conflicts or inconsistencies between this Agreement, its attachments, and exhibits, such conflicts and inconsistencies will be resolved by reference to the documents in the following order of priority:
- A. this Agreement (excluding attachments and exhibits);
 - B. its attachments;
 - C. the bid solicitation document including any addenda (Exhibit 1); then,
 - D. the Contractor's bid response (Exhibit 2).
- 24. Certificate of Interested Parties.** Contractor agrees to comply with Texas Government Code Section 2252.908, as it may be amended, and to complete and file Form 1295 "Certificate of Interested Parties" as part of this Agreement.
- 25. Governing Law.** Contractor agrees to comply with all applicable federal, Texas, and City laws in the performance of this Agreement. The applicable law for any legal disputes arising out of this Agreement is the law of the State of Texas, and the forum for such disputes is the appropriate district or county court in Nueces County, Texas. In accordance with Chapter 2271, Texas Government Code, if this contract has a value of \$100,000 or more paid wholly or partly from public funds and the Contractor has 10 or more full-time employees, Contractor verifies that the Contractor does not boycott Israel and will not boycott Israel during the term of this Agreement. In accordance with Chapter 2274, Texas Government Code, Contractor verifies that the Contractor does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association and will not discriminate during the term of the Agreement against a firearm entity or fire trade association. In accordance with Chapter 2276, Texas Government Code, Contractor verifies that the Contractor does not boycott

energy companies and will not boycott energy companies during the term of this Agreement.

- 26.** The applicable law for any legal disputes arising out of this Agreement is the law of the State of Texas, and the forum for such disputes is the appropriate district or county court in Nueces County, Texas.
- 27. Public Information Act Requirements.** This clause applies only to agreements that have a stated expenditure of at least \$1,000,000 or that result in the expenditure of at least \$1,000,000 by the City. The requirements of Subchapter J, Chapter 552, Government Code, may apply to this contract and the Contractor agrees that the contract can be terminated if the Contractor knowingly or intentionally fails to comply with a requirement of that subchapter.
- 28. Federal Funding Requirements.** This project is subject to requirements provided for the Federal Aviation Administration (FAA) and/or other federal agencies. A set of Federal Requirements has been attached as **Attachment E**, the content of which is incorporated by reference into this Agreement as if fully set out here in its entirety. The Contractor must comply with Attachment E while performing the Services. The Contractor will insert in any subcontracts all Federal Provisions/Requirements contained in the Agreement, such other clauses as the FAA, or its designee may by appropriate instructions require and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime Contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses.
- 29. Entire Agreement.** This Agreement constitutes the entire agreement between the parties concerning the subject matter of this Agreement and supersedes all prior negotiations, arrangements, agreements and understandings, either oral or written, between the parties.

[Signature Page Follows]

Landmark Electric Company, LLC

Signature: James Hernandez
James Hernandez (Nov 6, 2025 19:43:06 CST)

Printed Name: James Hernandez

Title: Owner and Master Electrician

Date: 11/06/2025

CITY OF CORPUS CHRISTI

Rachel Erben
Assistant Director of Contracts & Procurement

Date: _____

APPROVED AS TO LEGAL FORM:

Assistant City Attorney Date

Reviewed by:
Nora Vargas 11/06/2025
Nora Vargas (Nov 6, 2025 16:35:05 CST)
Purchasing Manager Date

- Attached and Incorporated by Reference:**
Attachment A: Scope of Work
Attachment B: Quote/Bid/Pricing Schedule
Attachment C: Insurance and Bond Requirements
Attachment D: Warranty Requirements
Attachment E: Federal Requirements

- Incorporated by Reference Only:**
Exhibit 1: RFB/RFP No. 6764
Exhibit 2: Contractor's Bid/Proposal Response

Section 4 - Scope of Work

General Requirements/Background Information:

- A. The Contractor shall provide replacement LED lighting fixtures at the Corpus Christi International Airport (CCIA) as outlined in this Scope of Work. Fixtures are pole-type luminaires requiring replacement of heads and assemblies up to the base of the pole. CCIA is located at 1000 International Drive, Corpus Christi, Texas 78406.
- B. The Contractor shall provide all labor, materials, necessary tools, expendable equipment, and all utility and transportation services necessary to perform and complete all work required in connection with the LED light fixture upgrades, in accordance with the plans and specifications.
- C. All replacement products must be new and shall comply with the provisions of Build America Buy America (BABA) Act.
- D. All products must meet the Design Light Consortium (DLC) and/or ENERGY STAR® rating per a directive from DOE, EECBG, to utilize proven energy conservation measures.
- E. Groups defined in Section 4.2 may be awarded to multiple Contractors.

Scope of Work:

A. Apron Lighting (AOA)

- 1. The Contractor shall provide replacement of various models/types of apron light fixtures and wall-mounted 550W LED area sources lighting/photocontrol sensors for the Apron Lighting.
- 2. The Contractor shall furnish all parts, labor, materials, and equipment necessary to replace existing lights with new LED pole-mounted fixtures that can provide a minimum range of foot-candle illumination along the CCIA Apron.
- 3. The Contractor shall verify and recommend an LED light fixture; a minimum of two to four-foot candle illumination without adding new poles. See **Exhibit A** for a product specification information example. The Contractor shall ensure that replacement is performed with products that are equivalent to and/or exceed ENERGY STAR-qualified and DLC-designated guidelines.
- 4. The Contractor shall provide products that earn the ENERGY STAR label and meet the ENERGY STAR specifications for energy efficiency and warranties.
- 5. The Contractor shall be responsible for traffic control in coordination with CCIA.

B. Hangar Lane (Public Street Lighting)

1. The Contractor shall replace various exterior street light fixture models/types from 400W—480V high-pressure sodium light fixtures to 150W—480V area (street) flood LED sources lighting/photocontrol sensors for Hangar Lane. See **Exhibit B** for a product specification information example. The Contractor shall ensure that replacement is performed with products that are equivalent to and/or exceed ENERGY STAR-qualified and DLC-designated guidelines.
2. The Contractor shall provide products that earn the ENERGY STAR label and meet the ENERGY STAR specifications for energy efficiency and warranties.
3. Fixtures are pole-type luminaires that require replacement of heads and assemblies up to the base of the pole.
4. The Contractor shall furnish all parts, labor, materials, and equipment necessary to replace existing lights with new LED pole-mounted fixtures that can provide a minimum of 2-4 foot-candle illumination along Hangar Lane.
5. The Contractor shall be responsible for traffic control.

C. International Drive (Public Street Lighting)

1. The Contractor shall replace various light fixture models/types with 400W – 480V area flood LED sources lighting/photocontrol sensors for the Street Lighting. See **Exhibit C** for a product specification information example. The Contractor shall ensure that replacement is performed with products that are equivalent to and/or exceed ENERGY STAR-qualified and DLC-designated guidelines.
2. The Contractor shall provide products that earn the ENERGY STAR label and meet the ENERGY STAR specifications for energy efficiency and warranties.
3. Fixtures are pole-type luminaires that require replacement of heads and assemblies up to the base of the pole.
4. The Contractor shall furnish all parts, labor, materials, and equipment necessary to replace existing lights with new LED pole-mounted fixtures that can provide a minimum of 2-4 foot-candle illumination along International Drive.
5. The Contractor shall be responsible for traffic control.

D. Covered Parking (Public Area)

1. The Contractor shall replace 40W area flood LED sources lighting for CCIA Public Covered Parking Lot. See **Exhibit D** for a product specification information example. The Contractor shall ensure that replacement is performed with products that are equivalent to and/or exceed ENERGY STAR-qualified and DLC-designated guidelines.

2. The Contractor shall provide products that earn the ENERGY STAR label and meet the ENERGY STAR specifications for energy efficiency and warranties.
3. Fixtures are mounted on a canopy structure. See **Exhibit D-1** for reference.
4. The Contractor shall furnish all parts, labor, materials, and equipment necessary to replace existing parking lot lights with new LED-mounted fixtures that can provide illumination under the Public Covered Parking Lot.
5. The Contractor shall be responsible for traffic control.

E. AARF Station

1. The Contractor shall replace various light fixture models and types. See **Exhibit E** for a product specification information example. The Contractor shall ensure that replacement is performed with products that are equivalent to and/or exceed ENERGY STAR-qualified and DLC-designated guidelines.
2. The Contractor shall provide products that earn the ENERGY STAR label and meet the ENERGY STAR specifications for energy efficiency and warranties.
3. Flight fixtures to be replaced include:
 - a. Building wall packs (i.e. wall wall-mounted)
 - b. Interior high bay and low bay lights
 - c. Interior ceiling mounted
4. No retrofit installations or systems will be considered for approval.

F. Terminal Canopy

1. The Contractor shall replace 60W-100W variable area UFO LED sources lighting for CCIA Terminal Canopy. See **Exhibit F** for a product specification information example. The Contractor shall ensure that replacement is performed with products that are equivalent to and/or exceed ENERGY STAR-qualified and DLC-designated guidelines.
2. The Contractor shall provide products that earn the ENERGY STAR label and meet the ENERGY STAR specifications for energy efficiency and warranties.
3. Light fixtures to be replaced include exterior hanging light fixtures.
4. No retrofit installations or systems will be considered for approval.
5. The Contractor shall be responsible for traffic control in coordination with CCIA.

Special Instructions:

- A. All work must be performed by the Contractor in accordance with the most recent National Electrical Code (NEC) in publication in Texas.

- B. For those lighting fixtures identified for replacement (i.e., one-for-one exchange), the Contractor shall rely on all lighting fixtures, as specified by CCIA, to meet or exceed the specifications in terms of technical capability.
- C. All electrical work must be completed by a licensed electrician.
- D. The Contractor shall remove and lawfully dispose of existing fixtures and associated parts such as junction boxes, line fuses, surge protection, wiring, lights, timers, photocell sensors, etc.
- E. The Contractor shall coordinate work activities and job hazards with Airport Representatives and barricade areas to prevent unauthorized entry to work areas.
- F. All work and staging must be thoroughly cleaned before the Contractor completes work at the site.
- G. The Contractor shall be responsible for marking the electric lines.

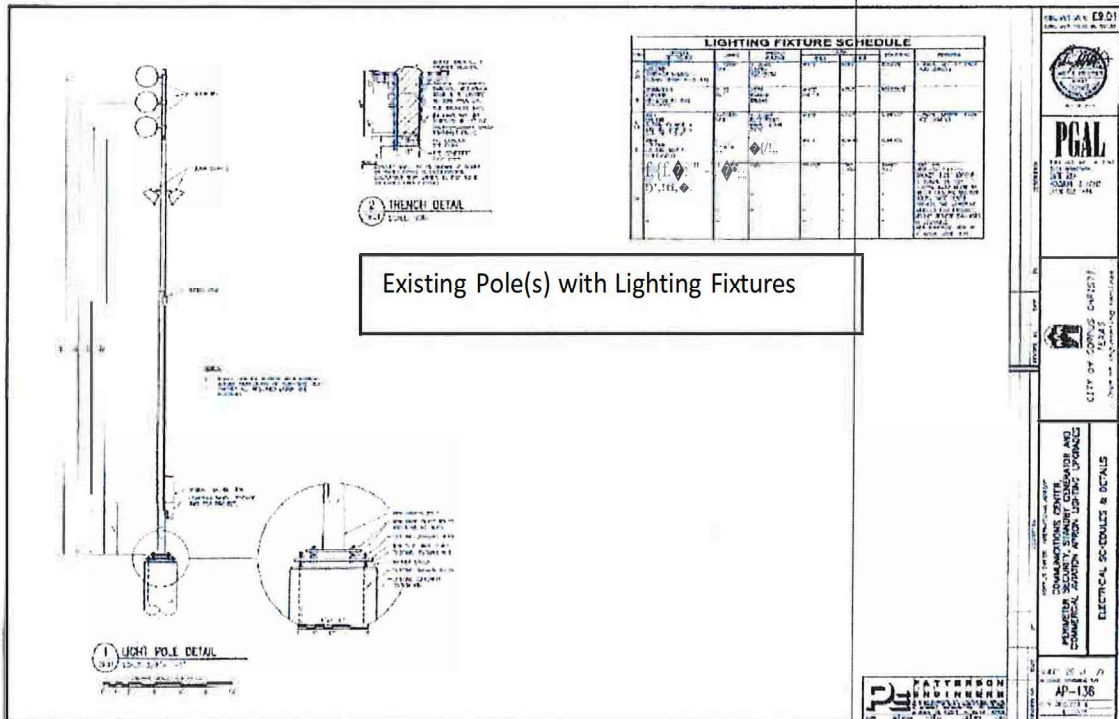
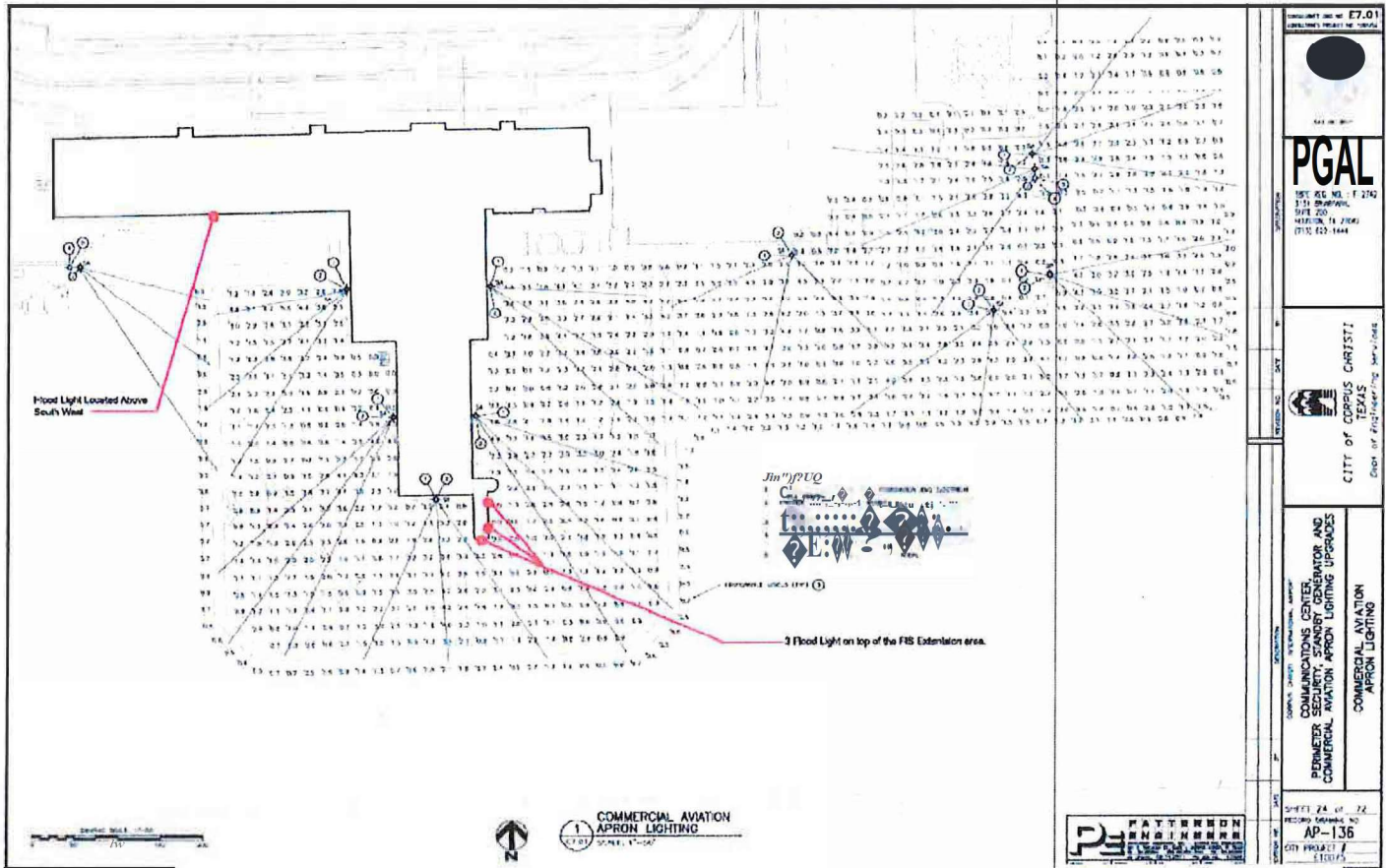
Work Site and Conditions:

- A. The Contractor shall coordinate the schedule with the Airport Representative.
 - 1. For Sections A, B, C, D, and F, working hours must be Monday through Friday, 7:00 am to 6:00 pm.
 - 2. For Section E, the working hours must be Monday through Friday, 7:00 am to 3:00 pm.
- B. Any unauthorized changes or services performed by the Contractor will be the responsibility of the Contractor.

Contractor Quality Control and Superintendence:

The Contractor shall ensure that the product and services meet quality standards and are acceptable to the City's Contract Administrator to assure that the requirements of the Contract are provided as specified. The Contractor shall also provide supervision of the work to ensure it complies with the contract requirements.

EXHIBIT A





ProSite LED Floodlight F2U7FB8NDENVGN



Project Information		
Part Number	F2U7FB8NDENVGN	
Project		
Fixture Type		Date

Specifications	

Certifications & Ratings

- 10 year warranty
- UL 1598/A
- CSA C22.2 No 250.0
- NOM

Mechanical Information

Fixture weight:	54 lbs (24kg)
Shipping weight:	62 lbs (28kg)
Mounting:	Angled Swivel Bracket 316 SS
Power cord:	No Cord

Variable Dimming

Variable Dimming Control: 0-10V / DALI

Electrical Specifications

Total system power consumption:	484W
Operating temperature:	-40°F to +131°F (-40°C to +55°C)
THD:	< 20%
Transient protection:	6KV/3KA combination wave, as per IEEE C62.41, line-line and line-ground. Optional: 10KV/5kA for non-hazardous models
Power factor:	> 0.9
Operating voltage:	120-277 VAC/120-250 VDC 10kV Surge

Construction

Housing:	A360 Die-cast aluminum
Finish:	Superior epoxy and polyester dual coat finish
Lens:	Integrated PC Lens + Glass Lens Cover
Color:	Gray

Photometric Information

CCT:	Cool White 5000K
CRI:	70

All values typical unless otherwise stated (tolerance +/- 10%)

ProSite LED Floodlight F2U7FB8NDENVGN

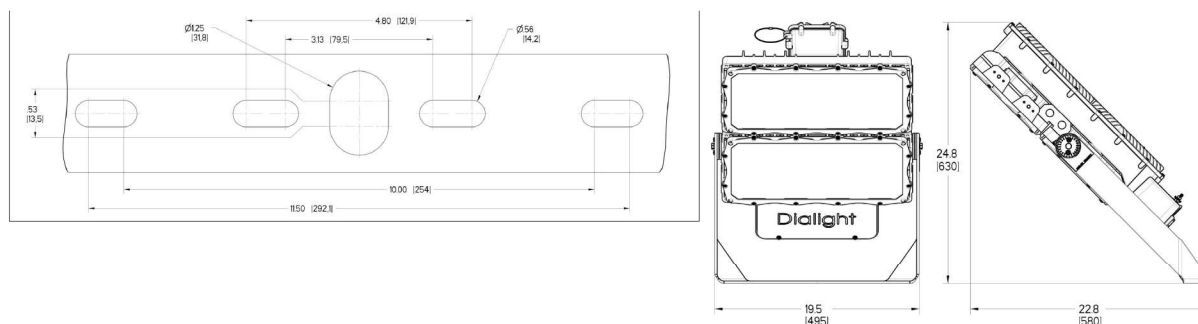


Ordering Information

ProSite LED Floodlight - 120-277 VAC/120-250 VDC 10kV Surge								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Mounting Options	Power Cable
F2U7FB8NDENVGN	60,100	484	125	Cool White 5000K - 70 CRI	Integrated PC Lens + Glass Lens Cover	Asymmetric	Angled Bracket	No Cord

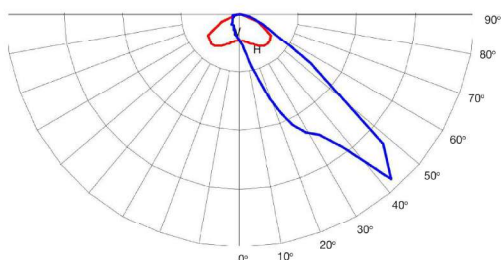
All values typical unless otherwise stated (tolerance +/- 10%)

Dimensional Drawings



Dimensions in inches (mm)

Beam Distribution



Please reference spec sheet at www.dialight.com for additional dimensional drawings and replacement parts.

Need help? Tech help line: (732) 919-3119 Email: info@dialight.com Website: www.dialight.com

ProSite LED Floodlight F2UN4B8NDENVGN



Project Information		
Part Number	F2UN4B8NDENVGN	
Project		
Fixture Type		Date

Specifications	

Certifications & Ratings

- 10 year warranty
- UL 1598/A
- CSA C22.2 No 250.0
- NOM

Mechanical Information

Fixture weight:	47 lbs (21kg)
Shipping weight:	55 lbs (25kg)
Mounting:	Angled Swivel Bracket 316 SS
Power cord:	No Cord

Variable Dimming

Variable Dimming Control: 0-10V / DALI

Electrical Specifications

Total system power consumption:	484W
Operating temperature:	-40°F to +131°F (-40°C to +55°C)
THD:	< 20%
Transient protection:	6KV/3KA combination wave, as per IEEE C62.41, line-line and line-ground. Optional: 10KV/5kA for non-hazardous models
Power factor:	> 0.9
Operating voltage:	120-277 VAC/120-250 VDC 10kV Surge

Construction

Housing:	A360 Die-cast aluminum
Finish:	Superior epoxy and polyester dual coat finish
Lens:	Integrated PC Lens
Color:	Gray

Photometric Information

CCT:	Cool White 5000K
CRI:	70

All values typical unless otherwise stated (tolerance +/- 10%)

ProSite LED Floodlight F2UN4B8NDENVGN

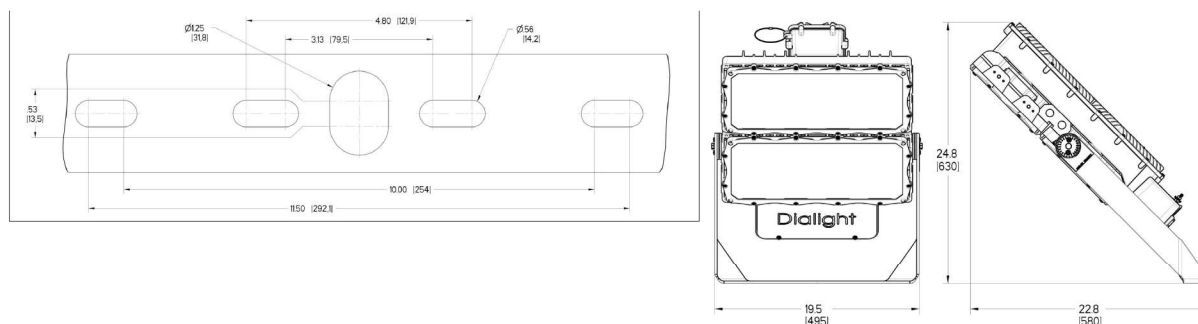


Ordering Information

ProSite LED Floodlight - 120-277 VAC/120-250 VDC 10kV Surge								
Part Number	Lumens	Wattage	lm/W	CCT	Lens	Beam Distribution	Mounting Options	Power Cable
F2UN4B8NDENVGN	65,000	484	135	Cool White 5000K - 70 CRI	Integrated PC Lens	NEMA 4 (Medium 55°)	Angled Bracket	No Cord

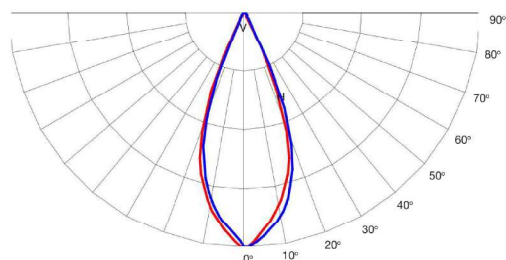
All values typical unless otherwise stated (tolerance +/- 10%)

Dimensional Drawings



Dimensions in inches (mm)

Beam Distribution



Please reference spec sheet at www.dialight.com for additional dimensional drawings and replacement parts.

Need help? Tech help line: (732) 919-3119 Email: info@dialight.com Website: www.dialight.com

Accessories



F1NVISOR

- F1 visor NEMA optics



F2NVISOR

- F2 visor NEMA optics



F2AVISOR

- F2 visor asymmetric optics
- Not suitable for asymmetric wide optic



H6XCAB72

- 72" stainless steel safety rope
- Kit includes: (1) cable

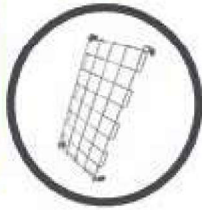
H6XCAB60

- 60" stainless steel safety rope
- Kit includes: (1) cable



F1SPIKES F2SPIKES

- Bird spikes



FLWG

- Wire guard
- Kit includes (1) assembly

Brackets and adapters require the tenon pole toppler (FLX-1TPT-20DB/LG) to mount floodlight. Tenon pole toppler sold separately.
F1 models require 1 cable per unit. F2 models require 2 cables per unit.

PROJECT NAME: _____

CAT. #: _____

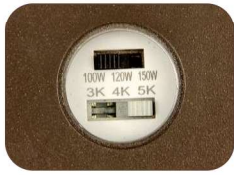
NOTES: _____

FIXTURE SCHEDULE: _____

AE Switch Area Light



Toolless housing access

Switchable Wattage/
CCT/Distribution

150W with Slipfitter

150W with Arm

Product Description

The AE Switch Area Light offers tremendous selectability and controls capabilities. Besides CCT and Wattage choices, it expands its versatility to include changing distributions between Types III, IV and V! It covers wattages ranging from 75W-300W in either 120-277V or 277-480V using two low EPA housings. It also offers a variety of mounting options along with visor accessories. All of this is available with robust surge protection and Maxlite's proven quality bringing you great value in a competitive Value Series package.

Features

- 27 performance options just a switch away!
 - Distribution Types III, IV or V
 - CCT selectable between 3000/4000/5000K
 - Wattage selectable
- c-Max and/or twist lock receptacle control options
- Universal 120-277V standard, High Voltage 277-480V option
- Robust surge protection - 6kV + 10kA standard with 20kA option
- Toolless housing access for easier maintenance
- Variety of mountings - Arm, Slipfitter and Trunnion
- ANSI 3G vibration rated
- TAA compliance available - contact Maxlite for details

Model Selection

FAMILY	WATTAGE	VOLTAGE	DISTRIBUTION	-	CCT	FINISH	MOUNTING*	CONTROL OPTIONS (FACTORY INSTALLED)	SURGE
AE = Slim Area	100 = 75/85/100W	U = 120-277V H = 277-480V	MC = Choice between Types III, IV or V	-	WCS = CCT/Wattage Selectable (3/4/5K)	B = Bronze Contact Maxlite for additional finishes. W	STANDARD K = Upper half knuckle attached with 6' SO cord Order lower half flexible arm or slipfitter (2 3/8" OD) separately - see Mounting Guide & Accessories Chart FACTORY INSTALLED OPTIONS** A = Straight Arm T = Trunnion 2 = Flexible Arm and Slipfitter included * Arms fit both square and round poles - see Installation Manual ** For Field Installed Options - see Mounting Guide & Accessories chart	CR = Controls ready for c-Max Controls RPC = 3-pin twist lock receptacle (CR remains functional) PR7 = 7-pin twist lock receptacle (CR disconnected)	Blank = 6kV + 10kA Surge Protection (Standard) S = 20kA Surge Protection Factory Installed
	150 = 100/125/150W								
	200 = 150/175/200W								
	300 = 200/250/300W								

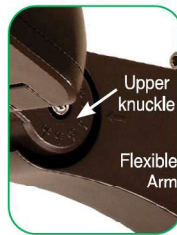
Mounting Guide

Flexible Arm or Slipfitter (attach to Upper Knuckle)

Upper Knuckle "K"

Slipfitter

Flexible Arm



Upper Knuckle is attached to the fixture and includes 6' SO cord. It is the mounting point for Flexible Arm & Slipfitter which are ordered separately.

K Upper knuckle (attached, standard)

AE-KLH Slipfitter (lower half of knuckle, ordered separately)

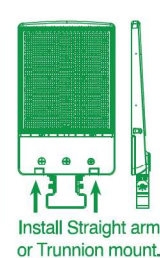
AE-FLH Flexible Arm (lower half of knuckle, ordered separately)

Field installed options

Upper Knuckle "K"



Remove factory installed upper knuckle "K".



Install Straight arm or Trunnion mount.

AE-SAB Straight Arm (field installed)

MAE-TSB Trunnion (field installed)

For Factory installed options, see Mounting in Model Selection matrix



5-year standard warranty (further details available at www.maxlite.com/warranties)

AE Switch Area Light

DLC Chart

Primary Use Designation: Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Universal Models

MODEL #	DLC PRODUCT ID
AE100U[MC,IR]-WCS[ALL OPTIONS]	S-NIRGY3
AE150U[MC,IR]-WCS[ALL OPTIONS]	S-BXDJ7Q
AE200U[MC,IR]-WCS[ALL OPTIONS]	S-QK1ZGD
AE300U[MC,IR]-WCS[ALL OPTIONS]	S-9PSMD0

High Voltage Models

MODEL #	DLC PRODUCT ID
AE100H[MC,IR]-WCS[ALL OPTIONS]	S-MVN60V
AE150H[MC,IR]-WCS[ALL OPTIONS]	S-6SNRKR
AE200H[MC,IR]-WCS[ALL OPTIONS]	S-JVSXLX
AE300H[MC,IR]-WCS[ALL OPTIONS]	S-2H7WRV

Accessories (Sold Separately)

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
112467	AE-SHIELD-SM	AE CHANGEABLE OPTICS FRONT/BACK SHIELD <150W, EPA=0.47	
112468	AE-SHIELD-LG	AE CHANGEABLE OPTICS FRONT/BACK SHIELD >150W, EPA=0.64	
112465	AE-VISOR-SM	AE CHANGEABLE OPTICS SIDE VISOR <150W, EPA=0.65	
112466	AE-VISOR-LG	AE CHANGEABLE OPTICS SIDE VISOR >150W, EPA=0.84	
111983	AE-FLH	LOWER KNUCKLE ARM ATTACHES TO UPPER HALF OF THE KNUCKLE (K) ON THE FIXTURE	
111984	AE-KLH	LOWER KNUCKLE SLIPFITTER ATTACHES TO UPPER HALF OF THE KNUCKLE (K) ON THE FIXTURE	
111217	AE-SAB	STRAIGHT ARM FOR AE SERIES, BRONZE (REMOVE UPPER KNUCKLE TO INSTALL, SEE MOUNTING GUIDE ABOVE)	
112461	MAE-TSB	TRUNNION SWIVEL FOR AE SERIES, BRONZE (REMOVE UPPER KNUCKLE TO INSTALL, SEE MOUNTING GUIDE ABOVE)	
105038	PCTL-UNV	TWIST-LOCK ELECTRONIC PHOTOCONTROL 120/208/240/277V (USED WITH RPC OR PR7 OPTION, NOT C-MAX)	
105866	PCTL-HV	TWIST-LOCK ELECTRONIC PHOTOCONTROL 480V (USED WITH RPC OR PR7 OPTION, NOT C-MAX)	
96268	MLRTLPCRSP	SHORTING CAP FOR NEMA TWIST LOCK PHOTOCELL RECEPTACLE (3, 5 OR 7 PIN)	
c-Max Basic			
105567	CN-REMOTE	C-MAX REMOTE CONTROL, AT LEAST 1 PER PROJECT TO PROGRAM MOTION SENSOR (RPC OR PR7)	
105569	CN-RDPCB†	C-MAX PHOTOCELL NODE ROUND, BRONZE, IP66, USED WITH CONTROLS READY FIXTURES	
105566	CN-RDMSB†*	C-MAX CONTROL NODE ROUND, PIR MOTION SENSOR/PHOTOCELL, BRONZE, IP66, USED WITH CONTROLS READY FIXTURES	
c-Max Network**			
105897	NN-RDB	NETWORK NODE ROUND, BRONZE	
111459	NN-RDMPBXR	NETWORK NODE ROUND, PIR MOTION SENSOR, PHOTOCELL, BLACK, EXTENDED (XR) RANGE	
106391	NN-RDW	NETWORK NODE ROUND, WHITE	

† Requires 1.5M Allen wrench

* Requires at least 1 remote control (CN-REMOTE) per project to program

** Requires c-Max App

AE Switch Area Light

Specifications

	AE100	AE150	AE200	AE300
Nominal Wattage & Distribution Type	Selectable 100/85/75W Type III, IV or V distribution	Selectable 150/125/100W Type III, IV or V	Selectable 200/175/150W Type III, IV or V	Selectable 300/250/200W Type III, IV or V
Type III (Default setting) Lumens Range (lm) (Lumens depend on CCT setting)	100W* 15,790 - 16,390 lm	150W* 21,640 - 22,810 lm	200W* 28,970 - 30,090 lm	300W* 43,220 - 45,670 lm
	85W 12,750 - 13,650 lm	125W 18,120 - 20,750 lm	175W 25,550 - 28,090 lm	250W 37,000 - 40,660 lm
	75W 10,950 - 11,770 lm	100W 15,790 - 16,390 lm	150W 21,640 - 22,810 lm	200W 28,970 - 30,090 lm
TYPE III BUG rating (3K/4K/5K)	B3, U0, G3	B3, U0, G3	B4, U0, G4	B4, U0, G4
Type IV Lumens Range (lm) (Lumens depend on CCT setting)	100W* 15,930 - 16,550 lm	150W* 21,970 - 23,030 lm	200W* 28,800 - 29,860 lm	300W* 43,680 - 45,030 lm
	85W 12,750 - 13,650 lm	125W 18,120 - 20,750 lm	175W 25,550 - 28,090 lm	250W 37,000 - 40,660 lm
	75W 10,950 - 11,770 lm	100W 15,930 - 16,550 lm	150W 21,970 - 23,030 lm	200W 28,800 - 29,860 lm
TYPE IV BUG rating (3K/4K/5K)	B3, U0, G3	B4, U0, G4	B4, U0, G4	B5, U0, G5
Type V Lumens Range (lm) (Lumens depend on CCT setting)	100W* 15,260 - 15,900 lm	150W* 21,360 - 23,030 lm	200W* 28,850 - 30,020 lm	300W* 43,700 - 45,000 lm
	85W 12,750 - 13,650 lm	125W 18,120 - 20,750 lm	175W 25,550 - 28,090 lm	250W 37,000 - 40,660 lm
	75W 10,950 - 11,770 lm	100W 15,260 - 15,900 lm	150W 21,360 - 23,030 lm	200W 28,850 - 30,020 lm
TYPE V BUG rating (3K/4K/5K)	3K: B4, U0, G3	3K: B4, U0, G4	3K: B4, U0, G4	3K: B5, U0, G5
Efficacy (lm/w)	146 - 168	145 - 166	146 - 161	146 - 163
EPA (sq ft) - w/ Slipfitter** 0° Horizontal / 90° Vertical	0° = 0.4343988	0° = 0.4343988	0° = 0.4849236	0° = 0.4849236
	90° = 1.699908	90° = 1.699908	90° = 2.676216	90° = 2.676216
EPA (sq ft) - w/ Adjustable Arm** 0° Horizontal / 30° Vertical	0° = 0.5203704	0° = 0.5203704	0° = 0.573006	0° = 0.573006
	30° = 0.8542836	30° = 0.8542836	30° = 1.431732	30° = 1.431732
CRI	>80			
Color Temperature (K)	3000K/4000K/5000K Selectable (Default CCT: 5000K)			

* Default power setting

**See Accessories section description for Shield and Visor EPA values



AE Switch Area Light

Specifications

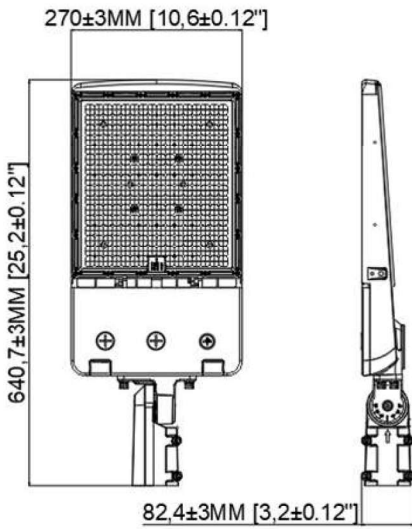
	AE100	AE150	AE200	AE300
Voltage	120-277V, 277-480V option			
Dimming	0-10V, compatible with c-Max Controls, 3pin or 7pin twist lock NEMA receptacle option			
Surge Protection	6kV integral to driver + 10kA stand alone standard, 20kA option			
Lumen Maintenance (L70) hrs	100,000+ Hours			
Housing	Die Cast Aluminum with corrosion resistant polyester powder coat			
Lens	Polycarbonate			
Mounting	Standard upper half knuckle with 6' SO cord attached - Order lower half Flexible Arm (AE-FLH) or Slipfitter (AE-KLH - 2 3/8" OD) separately - see Accessories Chart & Mounting Guide Additional choices for factory install - Straight Arm (A), Trunnion (T) or both Flexible Arm and Slipfitter in same carton (2) - See Accessories Chart & Mounting Guide for field installable mountings <i>NOTE: Arms fit both square and round poles, see Installation Manual</i>			
Weight w/ Slipfitter	10.09 lbs	10.09 lbs	13.91 lbs	13.91 lbs
Weight w/ Arm	10.38 lbs	10.38 lbs	14.17 lbs	14.17 lbs
Weight w/ Trunnion	12.86 lbs	12.86 lbs	17.91 lbs	17.91 lbs
Operating Temperature	-40°C/40°F - 50°C/122°F (based on outdoor dusk to dawn operation in non-hazardous applications)			
Listings	UL, FCC, RoHS, DLC, ANSI 3G, TAA Available			
DLC	Premium - Outdoor Pole/Arm-Mounted Area and Roadway Luminaires			
Environmental	IP65, Wet Location			
Warranty	5 Years (see Maxlite warranty page for details)			

AE Switch Area Light

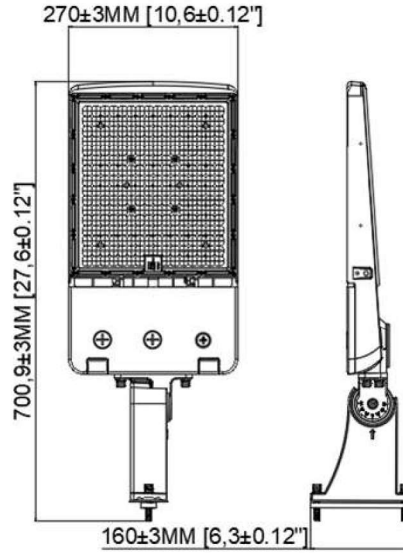
DIMENSIONS

100W & 150W

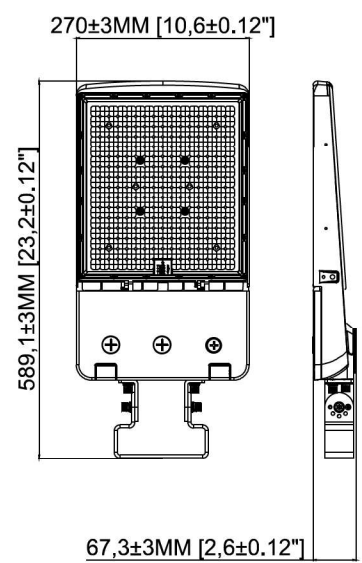
Slipfitter



Arm

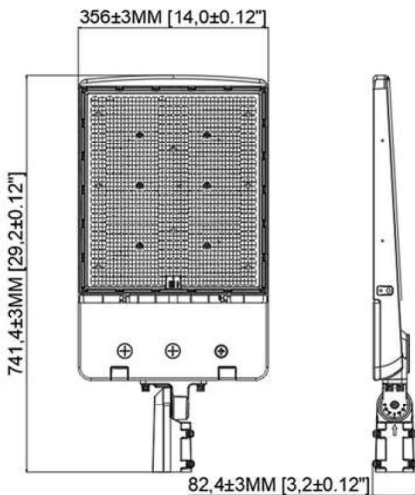


Trunnion

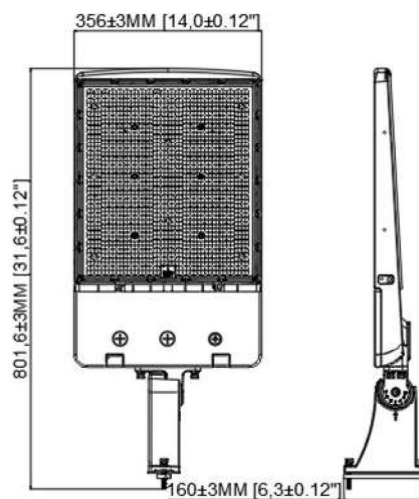


200W & 300W

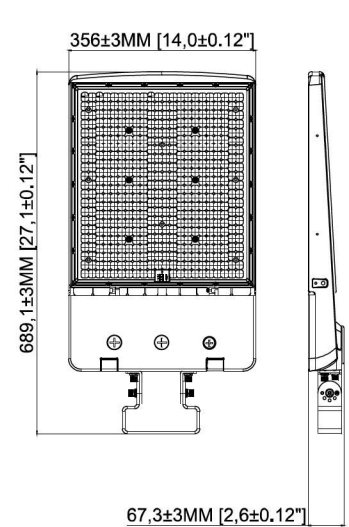
Slipfitter



Arm



Trunnion



AE Switch Area Light

PHOTOMETRICS

ISOFOOTCANDLE:

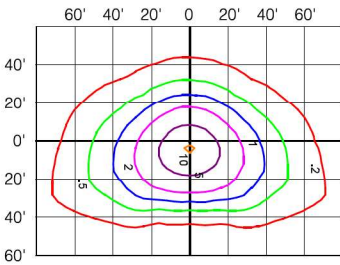
- Each gridline represents one mounting height.
- For mounting heights other than noted multiply FC by the below factor.

$$\text{Factor} = \frac{(\text{Chart's Mtg. Height})^2}{(\text{Actual Mtg. Height})^2}$$

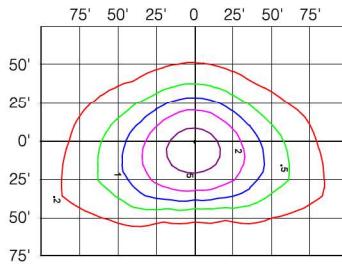
LEGEND

0.2 fc	0.5 fc	1.0 fc
2.0 fc	5.0 fc	10.0 fc

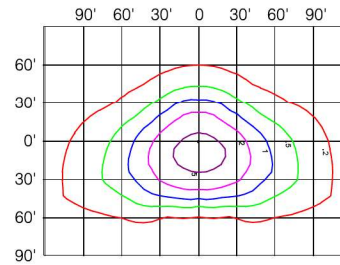
AE100
TYPE III @ 20 FT



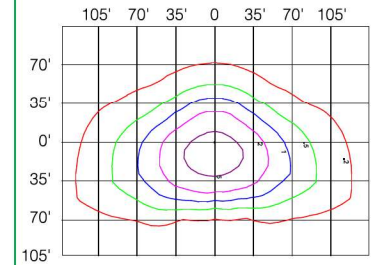
AE150
TYPE III @ 25 FT



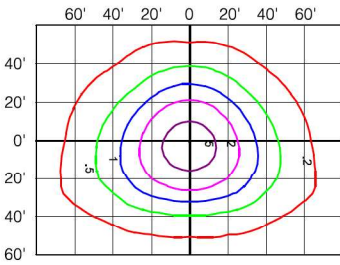
AE200
TYPE III @ 30 FT



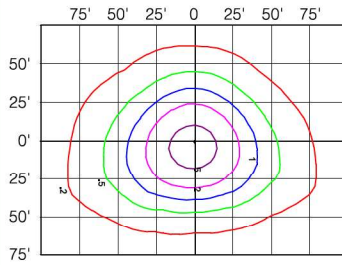
AE300
TYPE III @ 35 FT



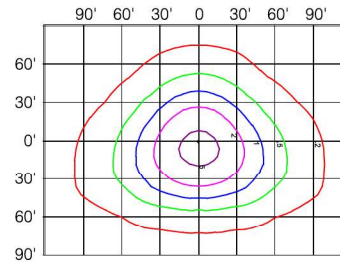
AE100
TYPE IV @ 20 FT



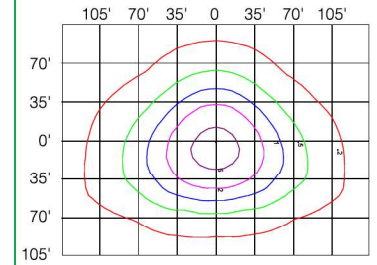
AE150
TYPE IV @ 25 FT



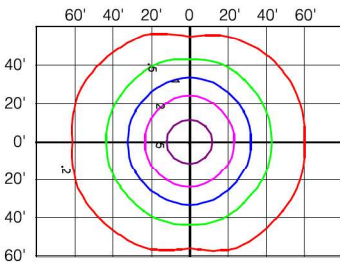
AE200
TYPE IV @ 30 FT



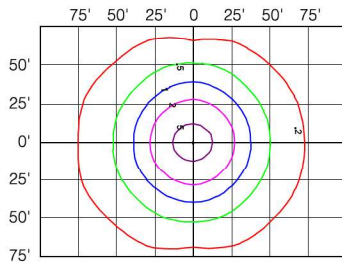
AE300
TYPE IV @ 35 FT



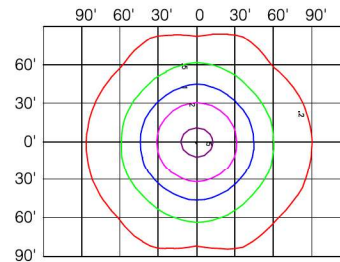
AE100
TYPE V @ 20 FT



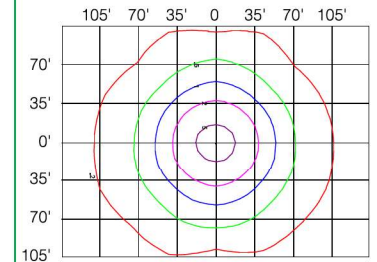
AE150
TYPE V @ 25 FT



AE200
TYPE V @ 30 FT



AE300
TYPE V @ 35 FT



PROJECT NAME: _____ CAT. #: _____
 NOTES: _____ FIXTURE SCHEDULE: _____

Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet



MSF20



MSF35



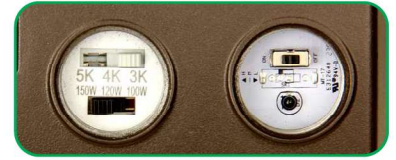
MSF60



MSF80



Adjustable Beam Angle



Wattage/CCT & PC Switches

Product Description:

The MaxLite Slim Flood Light family delivers high performance in a small and price-effective package. All versions are available for a variety of mounting applications - 1/2" threaded knuckle, yoke and slipfitter. All models are CCT and Wattage selectable and include an integral photocell. Best of all, the beam angles are adjustable between Narrow, Medium and Wide allowing the customer to customize for their application.

Construction:

- Die cast aluminum housing with corrosion resistant powder coat paint
- Tempered glass lens

Controls:

- Includes photocell with on/off switch
- 4' staged 0-10V dimming leads

Installation:

- All models have adjustable beam angles between Narrow, Medium and Wide
- Includes both 1/2" threaded knuckle and yoke mount. Use TR2.37BZ for slipfitter applications
- 4' SO cord

Listings:

- UL listed for Wet Locations, Outdoor

Ordering Information

FAMILY	WATTAGE	VOLTAGE	BEAM	-	CCT	FINISH	MOUNTING	CONTROLS
MSF= Slim Flood	20= 20W (Selectable 10/15/20W) 35= 35W (Selectable 10/25/35W) 45= 45W (Dedicated Wattage) 60= (Selectable 45/50/60W) 80= (Selectable 55/70/80W)	U= 120-277V 	A=Adjustable between Narrow/ Medium/ Wide 		CS= CCT Selectable (3/4/5K), dedicated 45W only WCS= CCT (3/4/5K) /Wattage Selectable 	B= Bronze W	KTY= Knuckle 1/2" Threaded and Yoke both included in carton, (use TR2.37BZ for Slipfitter applications) 	PC= 120-277V Photocell



5-year standard warranty (further details available at www.maxlite.com/warranties) Product may be eligible for a warranty extension to 10 years, for an additional fee. Contact MaxLite for details.



Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

Stocked Items

ORDER CODE	MODEL NUMBER	DLC PRODUCT ID#	DLC CATEGORY	WATTAGE	CCT
111747	MSF20UA-WCSBKTYPC	S-RLZY60	Outdoor Luminaires - Architectural Flood and Spot Luminaires	20.5W	3/4/5K
111757	MSF35UA-WCSBKTYPC	S-H2C5GY		35W	
111758	MSF45UA-CSBKTYPC	S-4WFSWJ		46.9W	
111752	MSF60UA-WCSBKTYPC	S-3F25W3		62.5W	
111755	MSF80UA-WCSBKTYPC	S-JLZYL5		78.8W	

Wattage Selectable Lumen Chart

MSF20	10W= 1,270 - 1,630	15W= 1,910 - 2,440	20W= 2,610 - 2,890
MSF35	15W= 1,910 - 2,440	25W= 3,240 - 4,010	35W= 4,540 - 5,250
MSF60	45W= 6,220 - 7,300	50W= 6,200 - 7,800	60W= 7,770 - 8,970
MSF80	55W= 7,530 - 9,010	70W= 9,590 - 11,470	80W= 11,710 - 12,460

Accessories

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
111817	MSF-20WVISOR	HALF VISOR FOR MSF20	
111818	MSF-35WVISOR	HALF VISOR FOR MSF35	
111819	MSF-60WVISOR	HALF VISOR FOR MSF45 and MSF60	
111820	MSF-80WVISOR	HALF VISOR FOR MSF80	
101679	TR2.37BZ	TENON REDUCER CONVERTS 1/2" KNUCKLE THREADED MOUNT (KT) TO 2 3/8" SLIPFITTER KNUCKLE (SK) MOUNT, BRONZE	
104352	GROUNDSTAKE	21" BLACK PVC GROUND STAKE WITH BRONZE DIE CAST CAP, GROUND STABILIZERS BARS AND HARDWARE TO MOUNT TO MOUNT JUNCTION BOX, WHICH ALLOWS ADDING AN EXTERNAL PHOTOCELL	
104350	JBOXB-4TH	JUNCTION BOX WITH 4 1/2" CONDUIT HOLES TOP COVER. PROVIDES MOUNTING FOR FLAT SURFACES AND ADDING EXTERNAL PC (PC-120277EXT)	
105551	MTGCOVER	DIE CAST ALUMINUM MOUNTING COVER WITH 3X1/2" THREADED CONDUIT HOLES, BRONZE	

Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

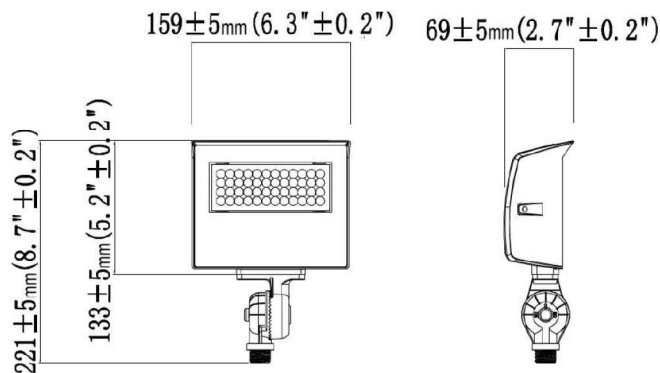
Specifications

Specifications	10/15/20W	15/25/35W	45W	45/50/60W	55/70/80W
Power Consumption (W)	Selectable 10/15/20W	Selectable 15/25/35W	45W	Selectable 45/50/60W	Selectable 55/70/80W
Lumens (lm) Highest Wattage*	2,610 - 2,890	4,540 - 5,250	6,220 - 7,300	7,770 -8,970	11,710 - 12,460
Efficacy (lm/w)	127 - 143	130 - 161	133 - 163	124 - 156	137 - 155
CRI	80				
Color Temperature (K)	Selectable between 3/4/5K				
Beam Angle	Adjustable between Narrow, Medium and Wide (55°, 75° and 90°)				
Voltage	120-277V				
Surge Protection	2.5kV		6kV		
Lumen Maintenance (L70) hrs	100K +				
Controls	0-10V dimming leads staged and integral photocell with on/off switch				
Housing	Die cast aluminum housing with corrosion resistant polyester powder coat				
Lens	Tempered Glass				
Mounting	1/2" threaded knuckle and yoke included (order TR2.37BZ for slipfitter applications)				
EPA (H=Horizontal, V=Vertical)	0.13H, 0.3V ft²	0.15H, 0.34V ft²	0.22H, 0.5V ft²		0.34H, 0.65V ft²
Operating Temperature	-40°C (-40°F) - 40°C (104°F)				
Weight	2.25lbs (0.96kg)	2.75lbs (1.2kg)	3.75lbs (1.7kg)		5.1lbs (2.3kg)
Listings	UL, FCC, ANSI 3G Vibration, IP65				
DLC	5.1 Premium				
Warranty	5 years				

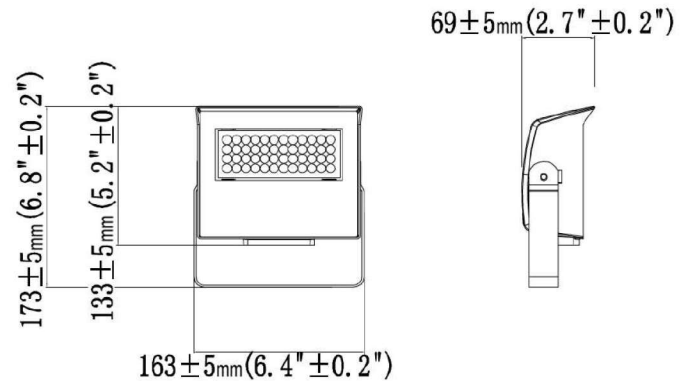
* See Wattage Selectable Lumen Chart for additional lumen settings

Product Dimensions

MSF20/15/10W



Threaded Knuckle

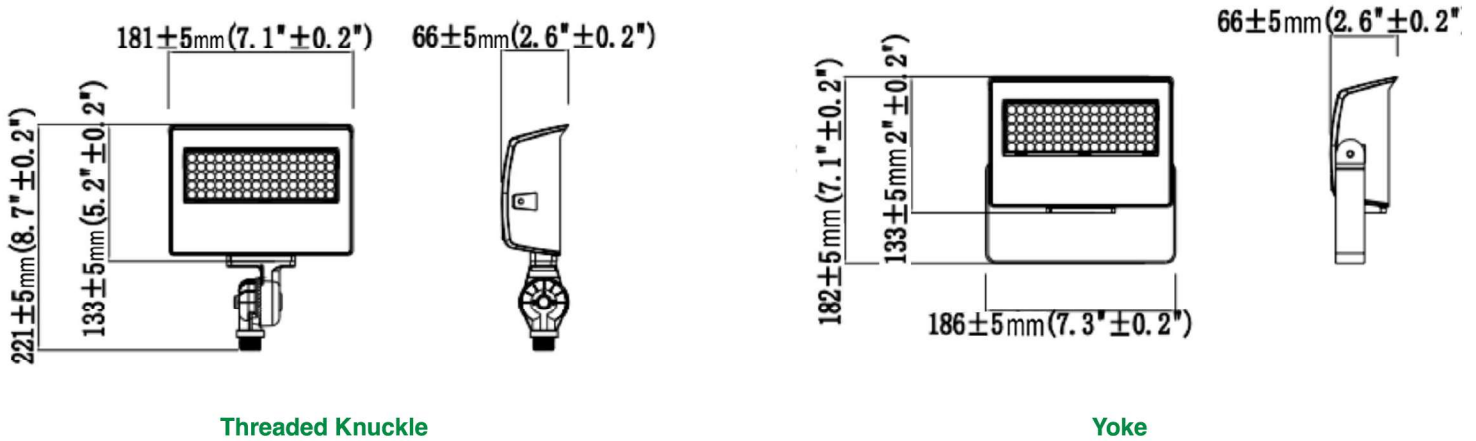


Yoke

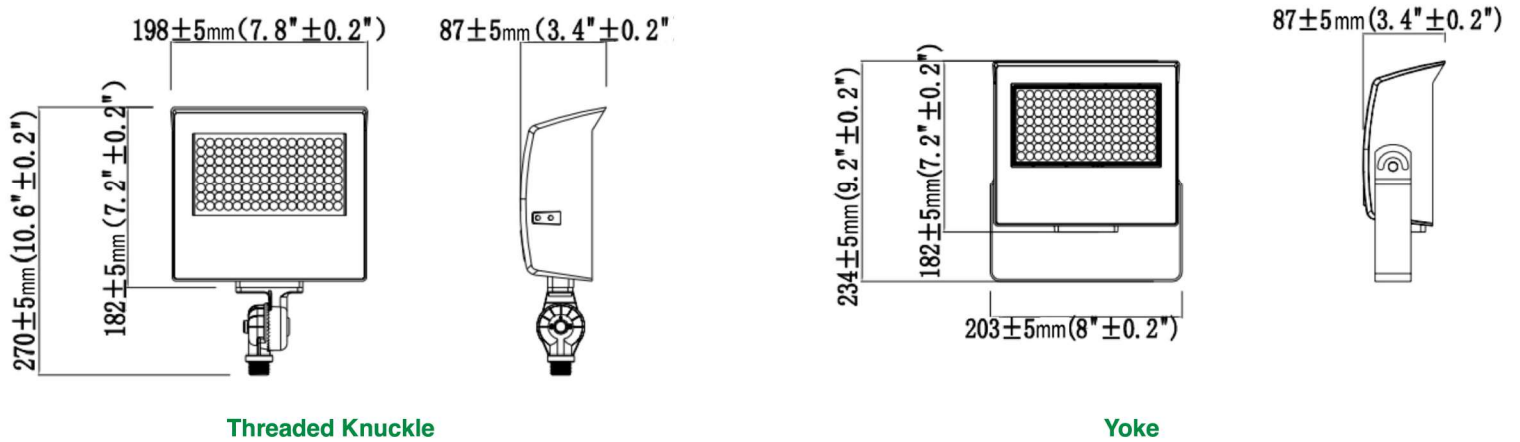
Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions on separate sheet

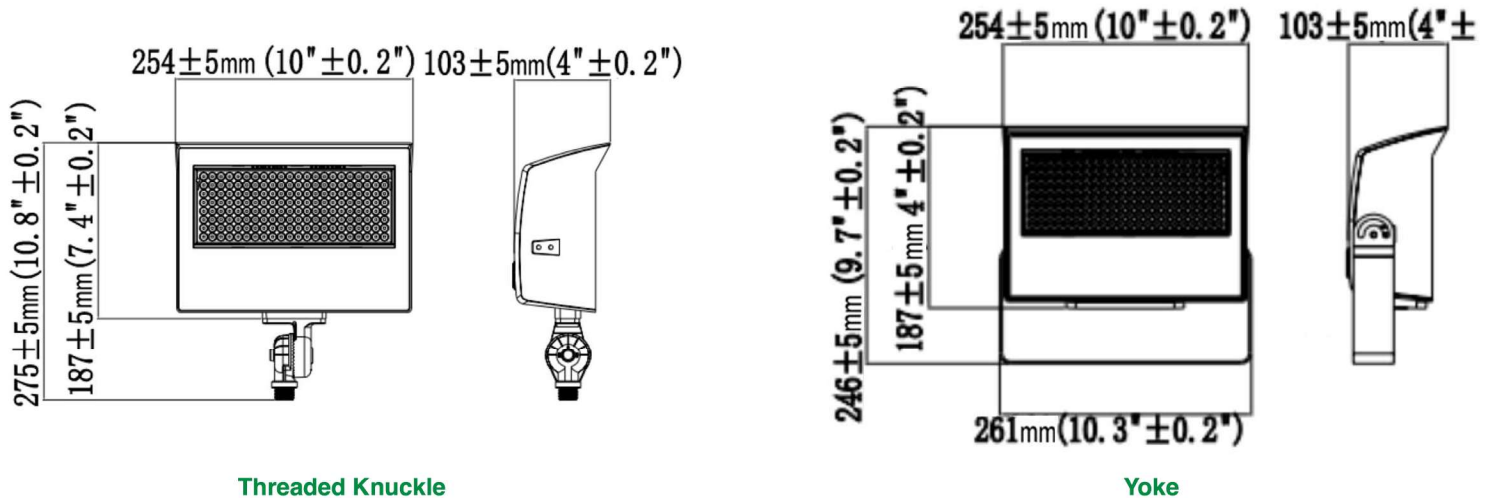
MSF35/25/15W



MSF60/50/45W



MSF80/70/55W



Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

Dimensions

LEGEND

- 0.5 fc
- 1 fc
- 2 fc
- 5 fc

ISOFOOTCANDLE:

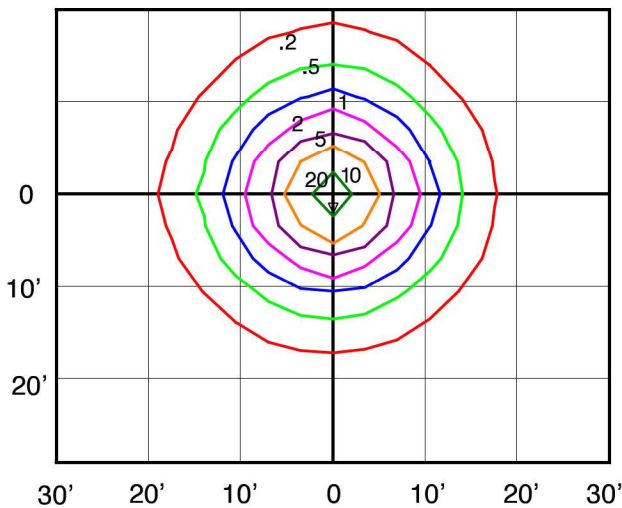
Each gridline represents one mounting height.

For mounting heights other than noted multiply FC by the below factor.

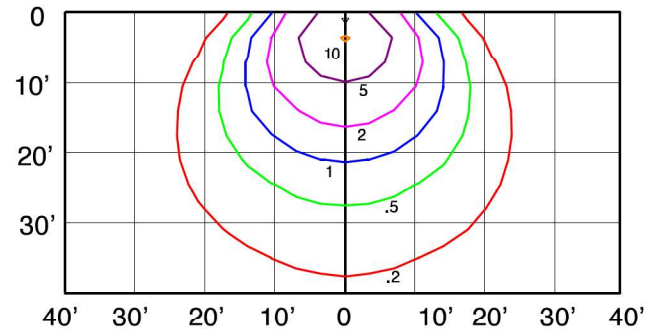
$$\text{Factor} = \frac{(\text{Chart's Mtg Height})^2}{(\text{Actual Mtg Height})^2}$$

Layouts based on 3000K. Results are 3-5% more for 4000/5000K.
Consult IES file for more precise calculations.

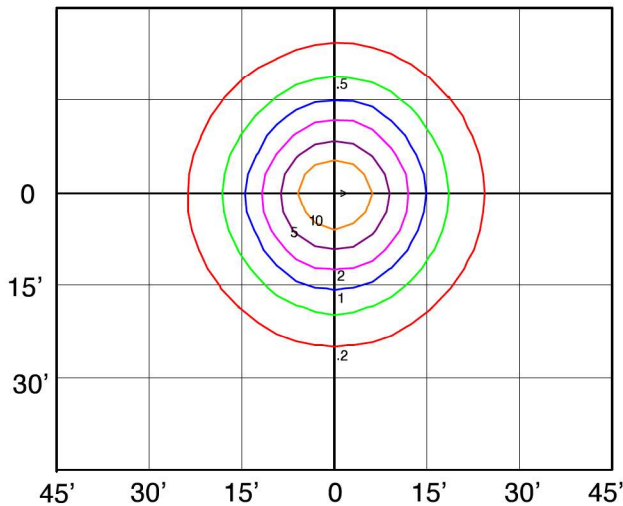
MSF20W Narrow 10' setback



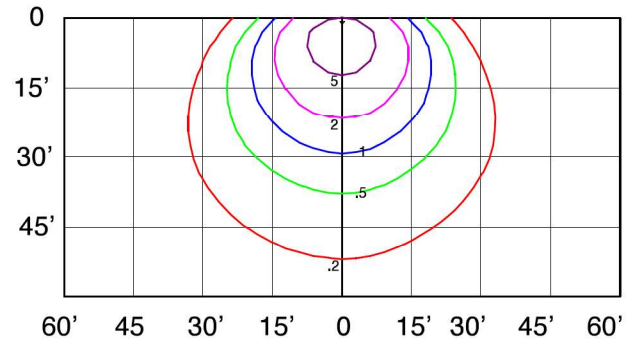
MSF20 Wide 10' setback 45 tilt



MSF35 Narrow 15' setback



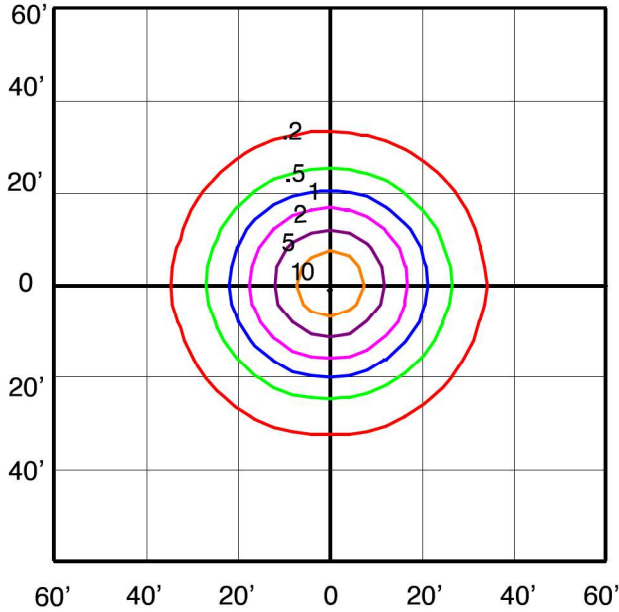
MSF35 Wide 15' setback 45 tilt



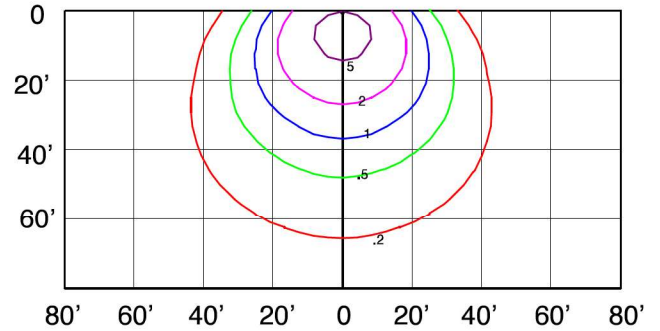
Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

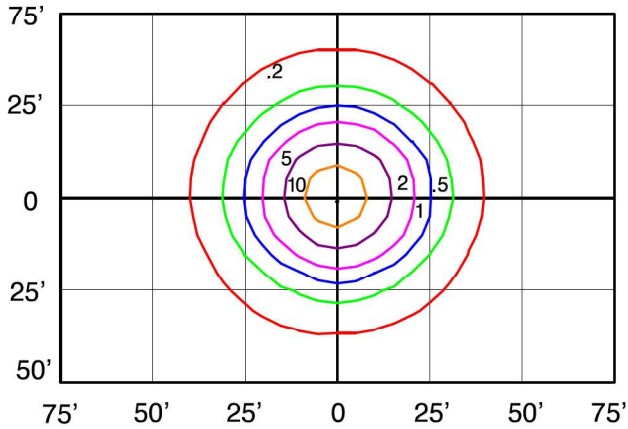
MSF60 Narrow 20' setback



MSF60 Wide 20' setback 45 tilt



MSF80 Narrow 25' setback



MSF80 Wide 25' setback 45 tilt

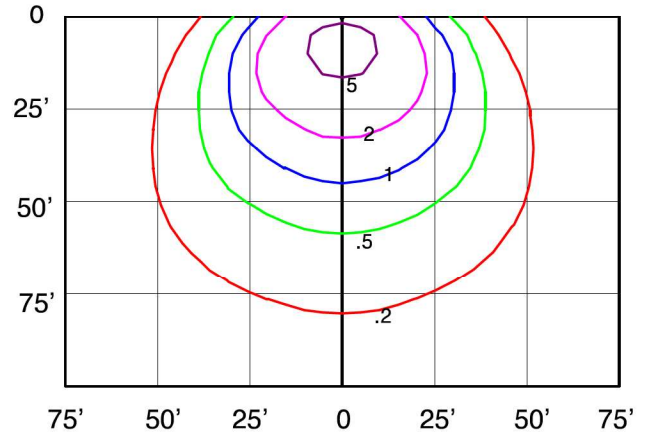


EXHIBIT B

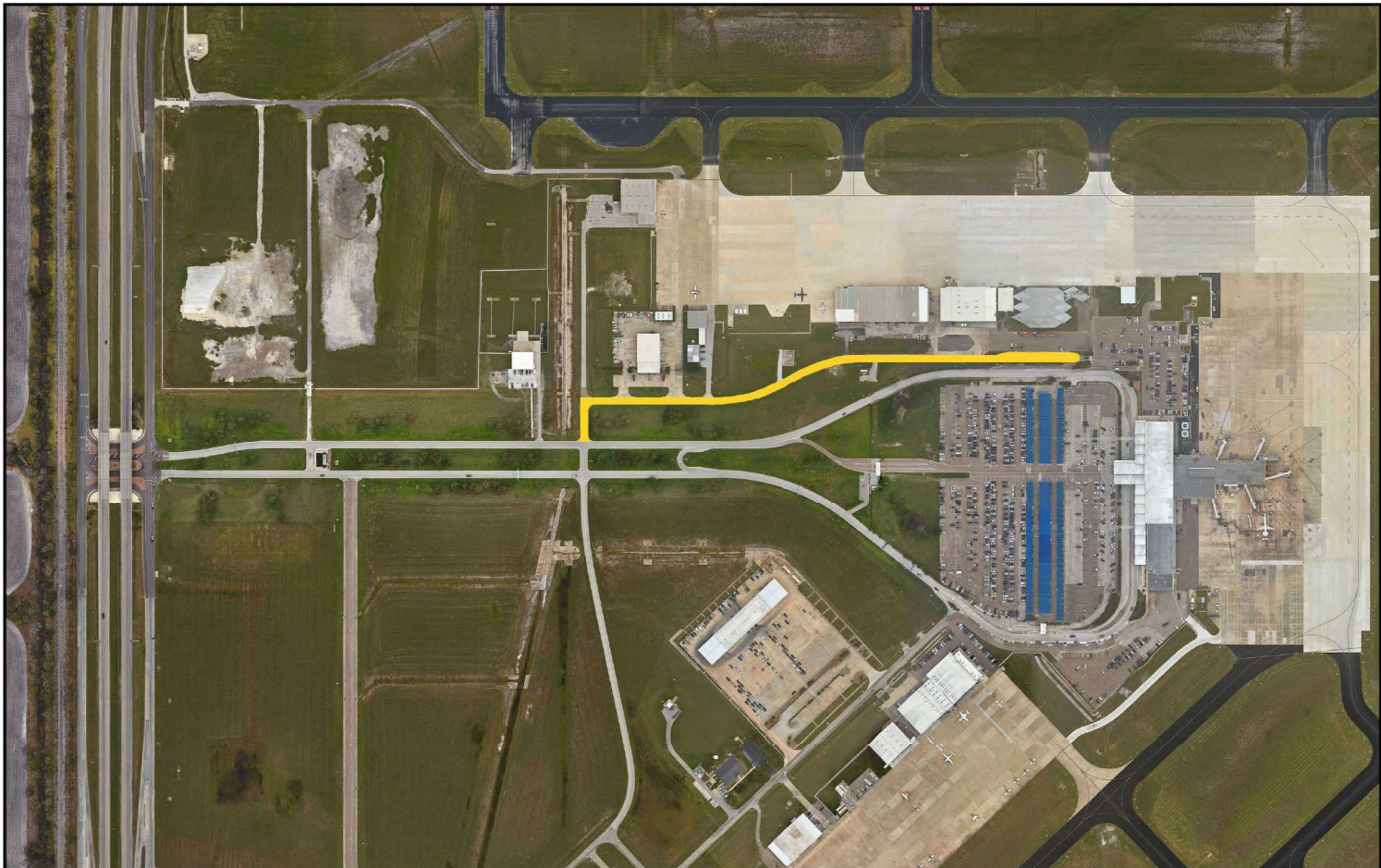


EXHIBIT
HANGAR LANE LIGHTING
Hangar Lane

Not to Scale

Sheet No. 1 of 1

Prepared by:	Randy Schumann
Approved by:	Victor Gonzelaz
Date:	04/03/2025



PROJECT NAME: _____

CAT. #: _____

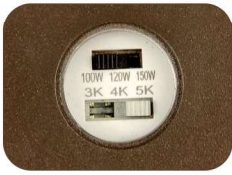
NOTES: _____

FIXTURE SCHEDULE: _____

AE Switch Area Light



Toolless housing access

Switchable Wattage/
CCT/Distribution

150W with Slipfitter

150W with Arm

Product Description

The AE Switch Area Light offers tremendous selectability and controls capabilities. Besides CCT and Wattage choices, it expands its versatility to include changing distributions between Types III, IV and V! It covers wattages ranging from 75W-300W in either 120-277V or 277-480V using two low EPA housings. It also offers a variety of mounting options along with visor accessories. All of this is available with robust surge protection and Maxlite's proven quality bringing you great value in a competitive Value Series package.

Features

- 27 performance options just a switch away!
 - Distribution Types III, IV or V
 - CCT selectable between 3000/4000/5000K
 - Wattage selectable
- c-Max and/or twist lock receptacle control options
- Universal 120-277V standard, High Voltage 277-480V option
- Robust surge protection - 6kV + 10kA standard with 20kA option
- Toolless housing access for easier maintenance
- Variety of mountings - Arm, Slipfitter and Trunnion
- ANSI 3G vibration rated
- TAA compliance available - contact Maxlite for details

Model Selection

FAMILY	WATTAGE	VOLTAGE	DISTRIBUTION	-	CCT	FINISH	MOUNTING*	CONTROL OPTIONS (FACTORY INSTALLED)	SURGE
AE = Slim Area	100 = 75/85/100W	U = 120-277V H = 277-480V	MC = Choice between Types III, IV or V	-	WCS = CCT/Wattage Selectable (3/4/5K)	B = Bronze Contact Maxlite for additional finishes. W	STANDARD K = Upper half knuckle attached with 6' SO cord Order lower half flexible arm or slipfitter (2 3/8" OD) separately - see Mounting Guide & Accessories Chart FACTORY INSTALLED OPTIONS** A = Straight Arm T = Trunnion 2 = Flexible Arm and Slipfitter included * Arms fit both square and round poles - see Installation Manual ** For Field Installed Options - see Mounting Guide & Accessories chart	CR = Controls ready for c-Max Controls RPC = 3-pin twist lock receptacle (CR remains functional) PR7 = 7-pin twist lock receptacle (CR disconnected)	Blank = 6kV + 10kA Surge Protection (Standard) S = 20kA Surge Protection Factory Installed
	150 = 100/125/150W								
	200 = 150/175/200W								
	300 = 200/250/300W								

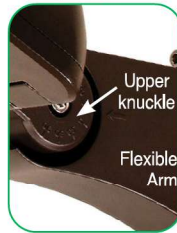
Mounting Guide

Flexible Arm or Slipfitter (attach to Upper Knuckle)

Upper Knuckle "K"

Slipfitter

Flexible Arm



Upper Knuckle is attached to the fixture and includes 6' SO cord. It is the mounting point for Flexible Arm & Slipfitter which are ordered separately.

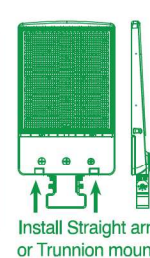
K Upper knuckle (attached, standard)

AE-KLH Slipfitter (lower half of knuckle, ordered separately)

AE-FLH Flexible Arm (lower half of knuckle, ordered separately)

Field installed options

Upper Knuckle "K"



AE-SAB Straight Arm (field installed)

MAE-TSB Trunnion (field installed)

Remove factory installed upper knuckle "K".
Install Straight arm or Trunnion mount.

For Factory installed options, see Mounting in Model Selection matrix



5-year standard warranty (further details available at www.maxlite.com/warranties)

AE Switch Area Light

DLC Chart

Primary Use Designation: Outdoor Pole/Arm-Mounted Area and Roadway Luminaires

Universal Models

MODEL #	DLC PRODUCT ID
AE100U[MC,IR]-WCS[ALL OPTIONS]	S-NIRGY3
AE150U[MC,IR]-WCS[ALL OPTIONS]	S-BXDJ7Q
AE200U[MC,IR]-WCS[ALL OPTIONS]	S-QK1ZGD
AE300U[MC,IR]-WCS[ALL OPTIONS]	S-9PSMD0

High Voltage Models

MODEL #	DLC PRODUCT ID
AE100H[MC,IR]-WCS[ALL OPTIONS]	S-MVN60V
AE150H[MC,IR]-WCS[ALL OPTIONS]	S-6SNRKR
AE200H[MC,IR]-WCS[ALL OPTIONS]	S-JVSXLX
AE300H[MC,IR]-WCS[ALL OPTIONS]	S-2H7WRV

Accessories (Sold Separately)

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
112467	AE-SHIELD-SM	AE CHANGEABLE OPTICS FRONT/BACK SHIELD <150W, EPA=0.47	
112468	AE-SHIELD-LG	AE CHANGEABLE OPTICS FRONT/BACK SHIELD >150W, EPA=0.64	
112465	AE-VISOR-SM	AE CHANGEABLE OPTICS SIDE VISOR <150W, EPA=0.65	
112466	AE-VISOR-LG	AE CHANGEABLE OPTICS SIDE VISOR >150W, EPA=0.84	
111983	AE-FLH	LOWER KNUCKLE ARM ATTACHES TO UPPER HALF OF THE KNUCKLE (K) ON THE FIXTURE	
111984	AE-KLH	LOWER KNUCKLE SLIPFITTER ATTACHES TO UPPER HALF OF THE KNUCKLE (K) ON THE FIXTURE	
111217	AE-SAB	STRAIGHT ARM FOR AE SERIES, BRONZE (REMOVE UPPER KNUCKLE TO INSTALL, SEE MOUNTING GUIDE ABOVE)	
112461	MAE-TSB	TRUNNION SWIVEL FOR AE SERIES, BRONZE (REMOVE UPPER KNUCKLE TO INSTALL, SEE MOUNTING GUIDE ABOVE)	
105038	PCTL-UNV	TWIST-LOCK ELECTRONIC PHOTOCONTROL 120/208/240/277V (USED WITH RPC OR PR7 OPTION, NOT C-MAX)	
105866	PCTL-HV	TWIST-LOCK ELECTRONIC PHOTOCONTROL 480V (USED WITH RPC OR PR7 OPTION, NOT C-MAX)	
96268	MLRTLPCRSP	SHORTING CAP FOR NEMA TWIST LOCK PHOTOCELL RECEPTACLE (3, 5 OR 7 PIN)	
c-Max Basic			
105567	CN-REMOTE	C-MAX REMOTE CONTROL, AT LEAST 1 PER PROJECT TO PROGRAM MOTION SENSOR (RPC OR PR7)	
105569	CN-RDPCB†	C-MAX PHOTOCELL NODE ROUND, BRONZE, IP66, USED WITH CONTROLS READY FIXTURES	
105566	CN-RDMSB†*	C-MAX CONTROL NODE ROUND, PIR MOTION SENSOR/PHOTOCELL, BRONZE, IP66, USED WITH CONTROLS READY FIXTURES	
c-Max Network**			
105897	NN-RDB	NETWORK NODE ROUND, BRONZE	
111459	NN-RDMPBXR	NETWORK NODE ROUND, PIR MOTION SENSOR, PHOTOCELL, BLACK, EXTENDED (XR) RANGE	
106391	NN-RDW	NETWORK NODE ROUND, WHITE	

† Requires 1.5M Allen wrench

* Requires at least 1 remote control (CN-REMOTE) per project to program

** Requires c-Max App

AE Switch Area Light

Specifications

	AE100	AE150	AE200	AE300
Nominal Wattage & Distribution Type	Selectable 100/85/75W Type III, IV or V distribution	Selectable 150/125/100W Type III, IV or V	Selectable 200/175/150W Type III, IV or V	Selectable 300/250/200W Type III, IV or V
Type III (Default setting) Lumens Range (lm) (Lumens depend on CCT setting)	100W* 15,790 - 16,390 lm	150W* 21,640 - 22,810 lm	200W* 28,970 - 30,090 lm	300W* 43,220 - 45,670 lm
	85W 12,750 - 13,650 lm	125W 18,120 - 20,750 lm	175W 25,550 - 28,090 lm	250W 37,000 - 40,660 lm
	75W 10,950 - 11,770 lm	100W 15,790 - 16,390 lm	150W 21,640 - 22,810 lm	200W 28,970 - 30,090 lm
TYPE III BUG rating (3K/4K/5K)	B3, U0, G3	B3, U0, G3	B4, U0, G4	B4, U0, G4
Type IV Lumens Range (lm) (Lumens depend on CCT setting)	100W* 15,930 - 16,550 lm	150W* 21,970 - 23,030 lm	200W* 28,800 - 29,860 lm	300W* 43,680 - 45,030 lm
	85W 12,750 - 13,650 lm	125W 18,120 - 20,750 lm	175W 25,550 - 28,090 lm	250W 37,000 - 40,660 lm
	75W 10,950 - 11,770 lm	100W 15,930 - 16,550 lm	150W 21,970 - 23,030 lm	200W 28,800 - 29,860 lm
TYPE IV BUG rating (3K/4K/5K)	B3, U0, G3	B4, U0, G4	B4, U0, G4	B5, U0, G5
Type V Lumens Range (lm) (Lumens depend on CCT setting)	100W* 15,260 - 15,900 lm	150W* 21,360 - 23,030 lm	200W* 28,850 - 30,020 lm	300W* 43,700 - 45,000 lm
	85W 12,750 - 13,650 lm	125W 18,120 - 20,750 lm	175W 25,550 - 28,090 lm	250W 37,000 - 40,660 lm
	75W 10,950 - 11,770 lm	100W 15,260 - 15,900 lm	150W 21,360 - 23,030 lm	200W 28,850 - 30,020 lm
TYPE V BUG rating (3K/4K/5K)	3K: B4, U0, G3	3K: B4, U0, G4	3K: B4, U0, G4	3K: B5, U0, G5
Efficacy (lm/w)	146 - 168	145 - 166	146 - 161	146 - 163
EPA (sq ft) - w/ Slipfitter** 0° Horizontal / 90° Vertical	0° = 0.4343988	0° = 0.4343988	0° = 0.4849236	0° = 0.4849236
	90° = 1.699908	90° = 1.699908	90° = 2.676216	90° = 2.676216
EPA (sq ft) - w/ Adjustable Arm** 0° Horizontal / 30° Vertical	0° = 0.5203704	0° = 0.5203704	0° = 0.573006	0° = 0.573006
	30° = 0.8542836	30° = 0.8542836	30° = 1.431732	30° = 1.431732
CRI	>80			
Color Temperature (K)	3000K/4000K/5000K Selectable (Default CCT: 5000K)			

* Default power setting

**See Accessories section description for Shield and Visor EPA values



AE Switch Area Light

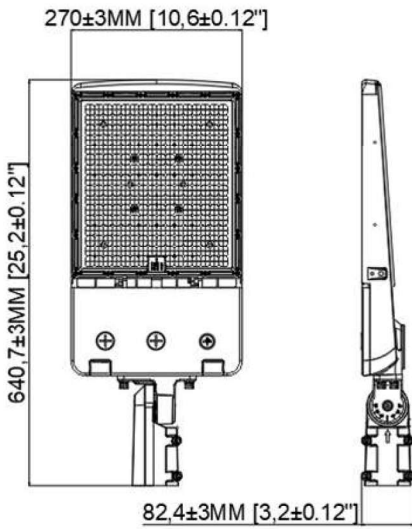
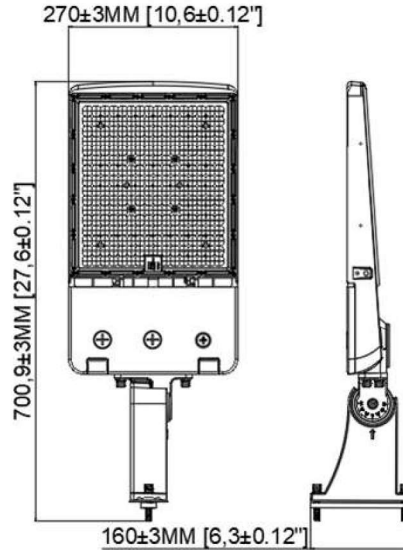
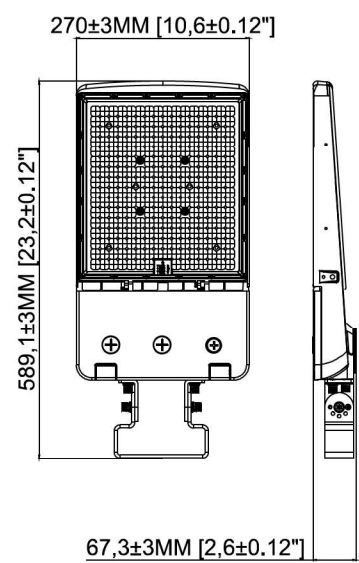
Specifications

	AE100	AE150	AE200	AE300
Voltage	120-277V, 277-480V option			
Dimming	0-10V, compatible with c-Max Controls, 3pin or 7pin twist lock NEMA receptacle option			
Surge Protection	6kV integral to driver + 10kA stand alone standard, 20kA option			
Lumen Maintenance (L70) hrs	100,000+ Hours			
Housing	Die Cast Aluminum with corrosion resistant polyester powder coat			
Lens	Polycarbonate			
Mounting	Standard upper half knuckle with 6' SO cord attached - Order lower half Flexible Arm (AE-FLH) or Slipfitter (AE-KLH - 2 3/8" OD) separately - see Accessories Chart & Mounting Guide Additional choices for factory install - Straight Arm (A), Trunnion (T) or both Flexible Arm and Slipfitter in same carton (2) - See Accessories Chart & Mounting Guide for field installable mountings <i>NOTE: Arms fit both square and round poles, see Installation Manual</i>			
Weight w/ Slipfitter	10.09 lbs	10.09 lbs	13.91 lbs	13.91 lbs
Weight w/ Arm	10.38 lbs	10.38 lbs	14.17 lbs	14.17 lbs
Weight w/ Trunnion	12.86 lbs	12.86 lbs	17.91 lbs	17.91 lbs
Operating Temperature	-40°C/40°F - 50°C/122°F (based on outdoor dusk to dawn operation in non-hazardous applications)			
Listings	UL, FCC, RoHS, DLC, ANSI 3G, TAA Available			
DLC	Premium - Outdoor Pole/Arm-Mounted Area and Roadway Luminaires			
Environmental	IP65, Wet Location			
Warranty	5 Years (see Maxlite warranty page for details)			

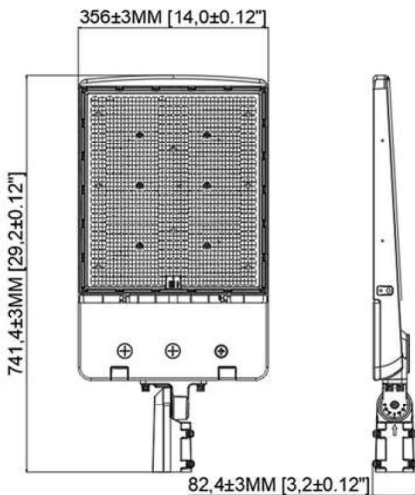
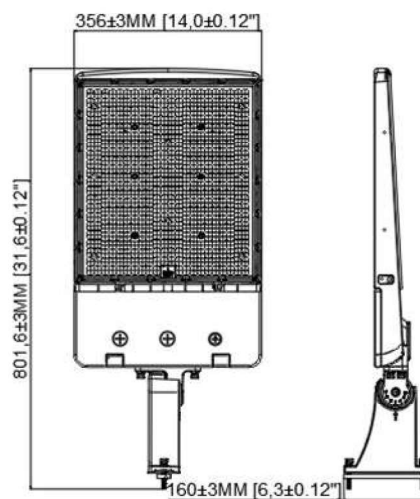
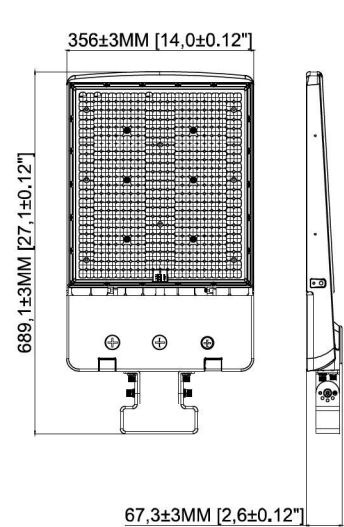
AE Switch Area Light

DIMENSIONS

100W & 150W

Slipfitter**Arm****Trunnion**

200W & 300W

Slipfitter**Arm****Trunnion**

AE Switch Area Light

PHOTOMETRICS

ISOFOOTCANDLE:

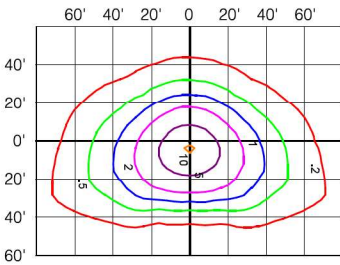
- Each gridline represents one mounting height.
- For mounting heights other than noted multiply FC by the below factor.

$$\text{Factor} = \frac{(\text{Chart's Mtg. Height})^2}{(\text{Actual Mtg. Height})^2}$$

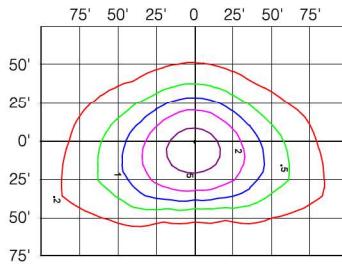
LEGEND



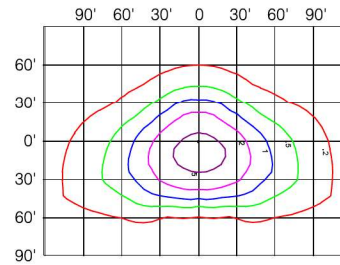
AE100
TYPE III @ 20 FT



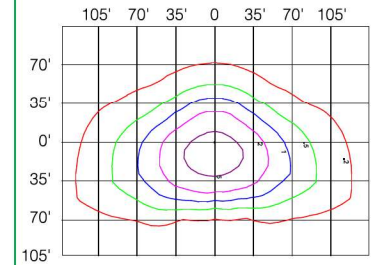
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TYPE III @ 25 FT



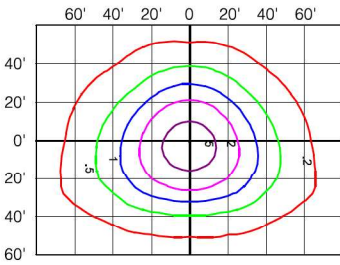
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TYPE III @ 30 FT



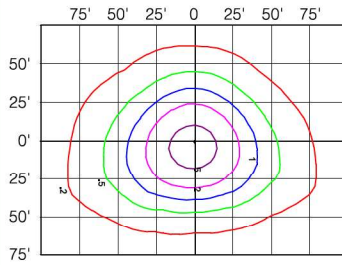
AE300
TYPE III @ 35 FT



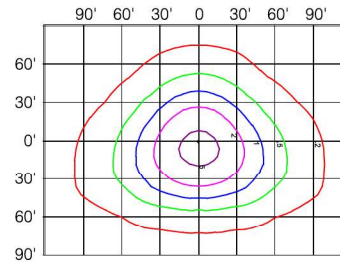
AE100
TYPE IV @ 20 FT



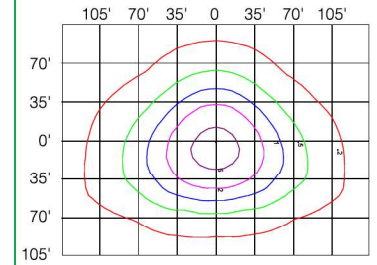
AE150
TYPE IV @ 25 FT



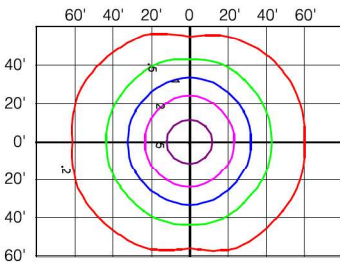
AE200
TYPE IV @ 30 FT



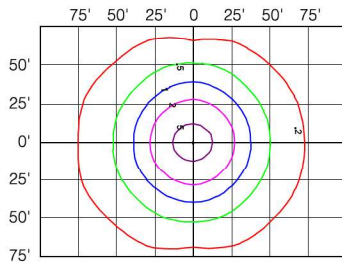
AE300
TYPE IV @ 35 FT



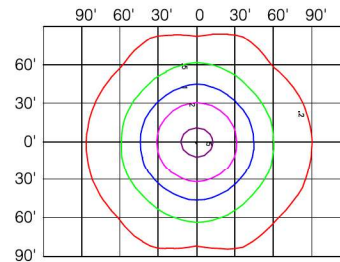
AE100
TYPE V @ 20 FT



AE150
TYPE V @ 25 FT



AE200
TYPE V @ 30 FT



AE300
TYPE V @ 35 FT

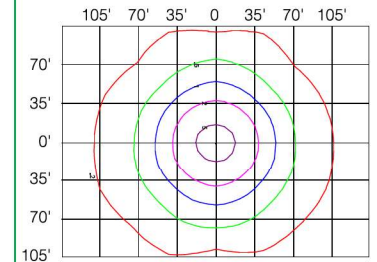
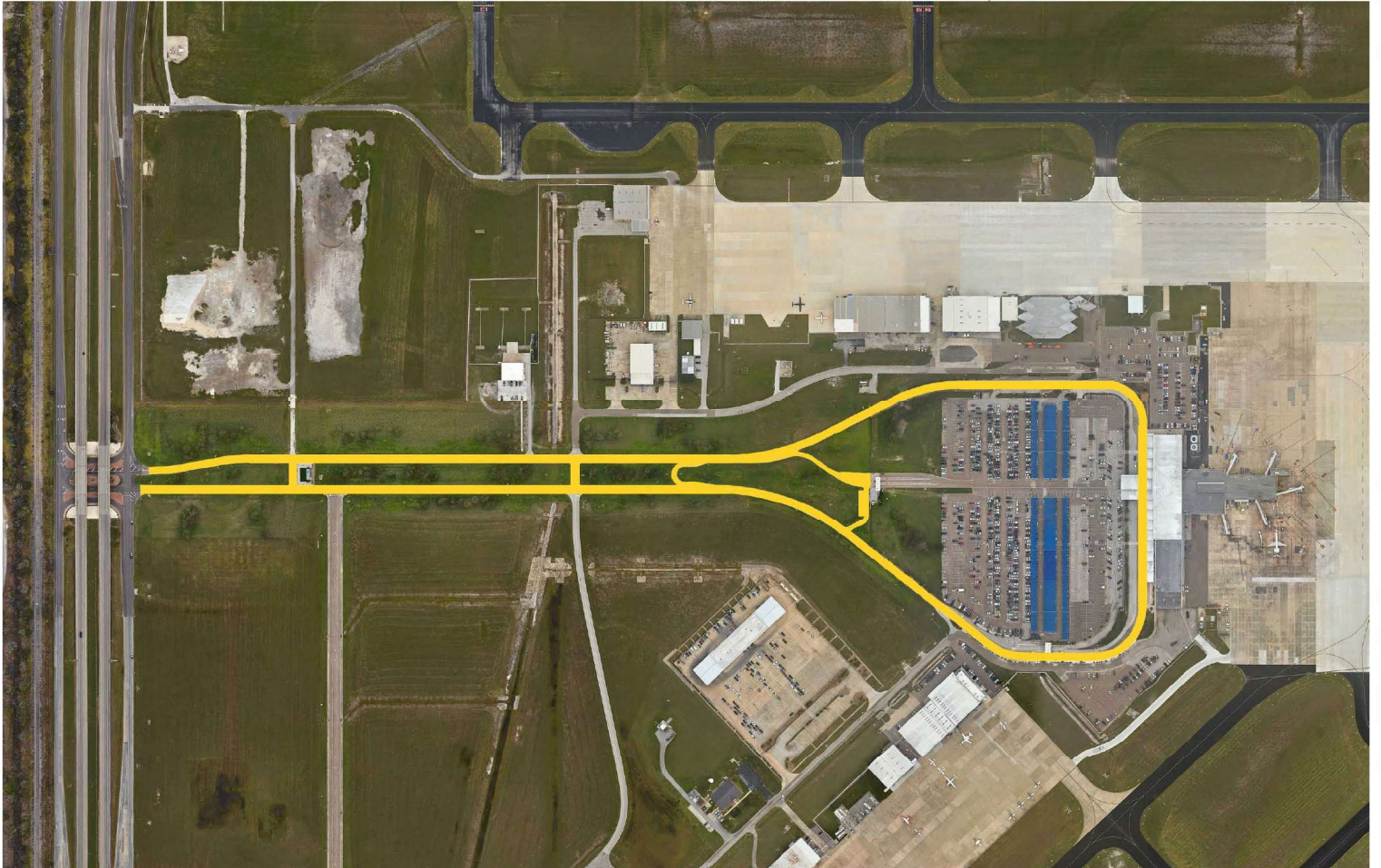


EXHIBIT C

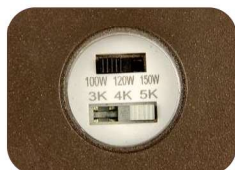


PROJECT NAME: _____ CAT. #: _____
 NOTES: _____ FIXTURE SCHEDULE: _____

AE Switch Area Light



Toolless housing access



Switchable Wattage/
CCT/Distribution



150W with Slipfitter

150W with Arm

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The AE Switch Area Light offers tremendous selectability and controls capabilities. Besides CCT and Wattage choices, it expands its versatility to include changing distributions between Types III, IV and V! It covers wattages ranging from 75W-300W in either 120-277V or 277-480V using two low EPA housings. It also offers a variety of mounting options along with visor accessories. All of this is available with robust surge protection and Maxlite's proven quality bringing you great value in a competitive Value Series package.

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 - CCT selectable between 3000/4000/5000K
 - Wattage selectable
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- Toolless housing access for easier maintenance
- Variety of mountings - Arm, Slipfitter and Trunnion
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- TAA compliance available - contact Maxlite for details

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FAMILY	WATTAGE	VOLTAGE	DISTRIBUTION	-	CCT	FINISH	MOUNTING*	CONTROL OPTIONS (FACTORY INSTALLED)	SURGE
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	150 = 100/125/150W								
	200 = 150/175/200W								
	300 = 200/250/300W								

Mounting Guide

Flexible Arm or Slipfitter (attach to Upper Knuckle)

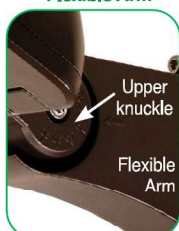
Upper Knuckle "K"



Slipfitter



Flexible Arm



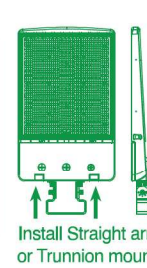
K Upper knuckle (attached, standard)

AE-KLH Slipfitter (lower half of knuckle, ordered separately)

AE-FLH Flexible Arm (lower half of knuckle, ordered separately)

Field installed options

Upper Knuckle "K"



AE-SAB Straight Arm (field installed)

MAE-TSB Trunnion (field installed)

For Factory installed options, see Mounting in Model Selection matrix



5-year standard warranty (further details available at www.maxlite.com/warranties)

AE Switch Area Light

DLC Chart

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AE200U[MC,IR]-WCS[ALL OPTIONS]	S-QK1ZGD
AE300U[MC,IR]-WCS[ALL OPTIONS]	S-9PSMD0

High Voltage Models

MODEL #	DLC PRODUCT ID
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AE150H[MC,IR]-WCS[ALL OPTIONS]	S-6SNRKR
AE200H[MC,IR]-WCS[ALL OPTIONS]	S-JVSXLX
AE300H[MC,IR]-WCS[ALL OPTIONS]	S-2H7WRV

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c-Max Network**			
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106391	NN-RDW	NETWORK NODE ROUND, WHITE	

† Requires 1.5M Allen wrench

* Requires at least 1 remote control (CN-REMOTE) per project to program

** Requires c-Max App

AE Switch Area Light

Specifications

	AE100	AE150	AE200	AE300
Nominal Wattage & Distribution Type	Selectable 100/85/75W Type III, IV or V distribution	Selectable 150/125/100W Type III, IV or V	Selectable 200/175/150W Type III, IV or V	Selectable 300/250/200W Type III, IV or V
Type III (Default setting) Lumens Range (lm) (Lumens depend on CCT setting)	100W* 15,790 - 16,390 lm	150W* 21,640 - 22,810 lm	200W* 28,970 - 30,090 lm	300W* 43,220 - 45,670 lm
	85W 12,750 - 13,650 lm	125W 18,120 - 20,750 lm	175W 25,550 - 28,090 lm	250W 37,000 - 40,660 lm
	75W 10,950 - 11,770 lm	100W 15,790 - 16,390 lm	150W 21,640 - 22,810 lm	200W 28,970 - 30,090 lm
TYPE III BUG rating (3K/4K/5K)	B3, U0, G3	B3, U0, G3	B4, U0, G4	B4, U0, G4
Type IV Lumens Range (lm) (Lumens depend on CCT setting)	100W* 15,930 - 16,550 lm	150W* 21,970 - 23,030 lm	200W* 28,800 - 29,860 lm	300W* 43,680 - 45,030 lm
	85W 12,750 - 13,650 lm	125W 18,120 - 20,750 lm	175W 25,550 - 28,090 lm	250W 37,000 - 40,660 lm
	75W 10,950 - 11,770 lm	100W 15,930 - 16,550 lm	150W 21,970 - 23,030 lm	200W 28,800 - 29,860 lm
TYPE IV BUG rating (3K/4K/5K)	B3, U0, G3	B4, U0, G4	B4, U0, G4	B5, U0, G5
Type V Lumens Range (lm) (Lumens depend on CCT setting)	100W* 15,260 - 15,900 lm	150W* 21,360 - 23,030 lm	200W* 28,850 - 30,020 lm	300W* 43,700 - 45,000 lm
	85W 12,750 - 13,650 lm	125W 18,120 - 20,750 lm	175W 25,550 - 28,090 lm	250W 37,000 - 40,660 lm
	75W 10,950 - 11,770 lm	100W 15,260 - 15,900 lm	150W 21,360 - 23,030 lm	200W 28,850 - 30,020 lm
TYPE V BUG rating (3K/4K/5K)	3K: B4, U0, G3	3K: B4, U0, G4	3K: B4, U0, G4	3K: B5, U0, G5
Efficacy (lm/w)	146 - 168	145 - 166	146 - 161	146 - 163
EPA (sq ft) - w/ Slipfitter** 0° Horizontal / 90° Vertical	0° = 0.4343988	0° = 0.4343988	0° = 0.4849236	0° = 0.4849236
	90° = 1.699908	90° = 1.699908	90° = 2.676216	90° = 2.676216
EPA (sq ft) - w/ Adjustable Arm** 0° Horizontal / 30° Vertical	0° = 0.5203704	0° = 0.5203704	0° = 0.573006	0° = 0.573006
	30° = 0.8542836	30° = 0.8542836	30° = 1.431732	30° = 1.431732
CRI	>80			
Color Temperature (K)	3000K/4000K/5000K Selectable (Default CCT: 5000K)			

* Default power setting

**See Accessories section description for Shield and Visor EPA values



AE Switch Area Light

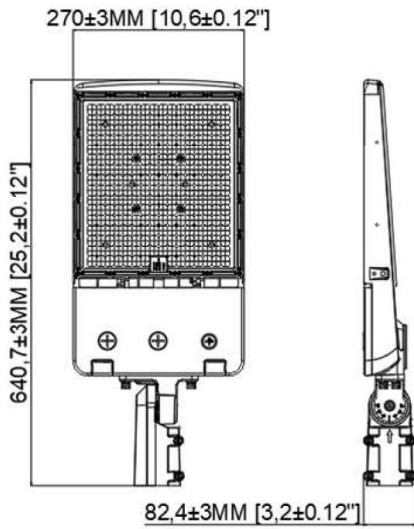
Specifications	AE100	AE150	AE200	AE300
Voltage	120-277V, 277-480V option			
Dimming	0-10V, compatible with c-Max Controls, 3pin or 7pin twist lock NEMA receptacle option			
Surge Protection	6kV integral to driver + 10kA stand alone standard, 20kA option			
Lumen Maintenance (L70) hrs	100,000+ Hours			
Housing	Die Cast Aluminum with corrosion resistant polyester powder coat			
Lens	Polycarbonate			
Mounting	Standard upper half knuckle with 6' SO cord attached - Order lower half Flexible Arm (AE-FLH) or Slipfitter (AE-KLH - 2 3/8" OD) separately - see Accessories Chart & Mounting Guide Additional choices for factory install - Straight Arm (A), Trunnion (T) or both Flexible Arm and Slipfitter in same carton (2) - See Accessories Chart & Mounting Guide for field installable mountings <i>NOTE: Arms fit both square and round poles, see Installation Manual</i>			
Weight w/ Slipfitter	10.09 lbs	10.09 lbs	13.91 lbs	13.91 lbs
Weight w/ Arm	10.38 lbs	10.38 lbs	14.17 lbs	14.17 lbs
Weight w/ Trunnion	12.86 lbs	12.86 lbs	17.91 lbs	17.91 lbs
Operating Temperature	-40°C/40°F – 50°C/122°F (based on outdoor dusk to dawn operation in non-hazardous applications)			
Listings	UL, FCC, RoHS, DLC, ANSI 3G, TAA Available			
DLC	Premium - Outdoor Pole/Arm-Mounted Area and Roadway Luminaires			
Environmental	IP65, Wet Location			
Warranty	5 Years (see Maxlite warranty page for details)			

AE Switch Area Light

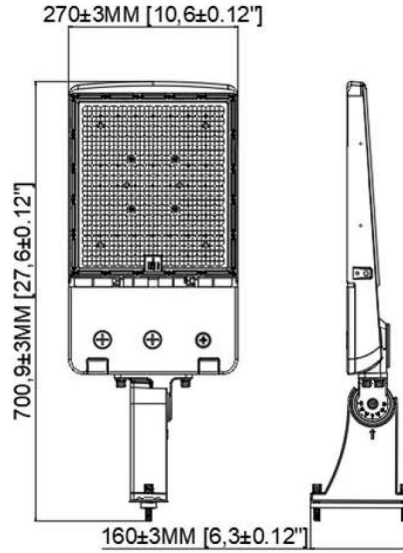
DIMENSIONS

100W & 150W

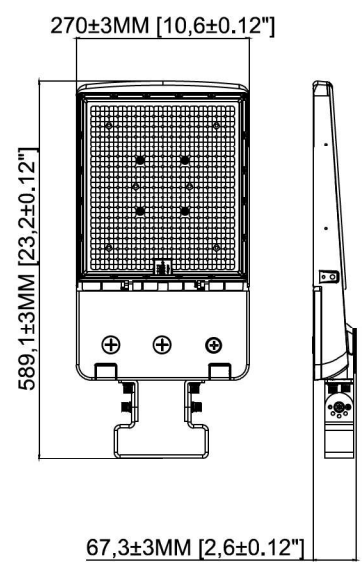
Slipfitter



Arm

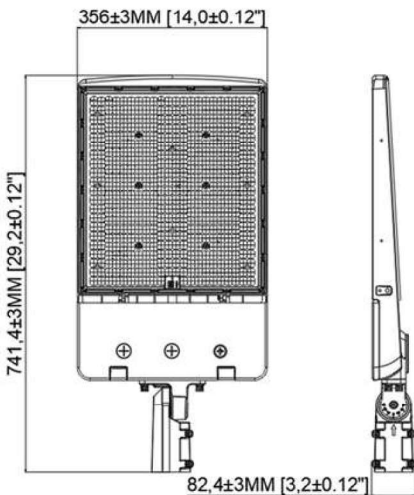


Trunnion

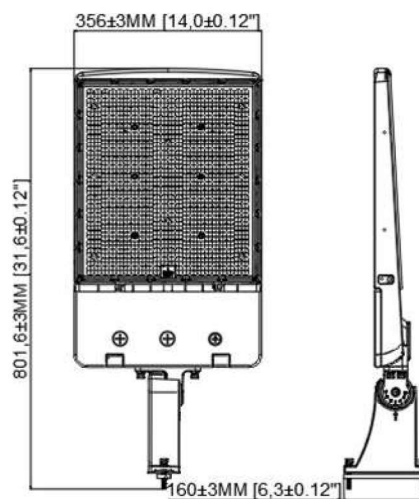


200W & 300W

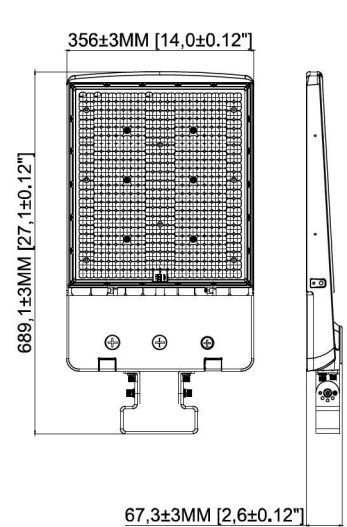
Slipfitter



Arm



Trunnion



AE Switch Area Light

PHOTOMETRICS

ISOFOOTCANDLE:

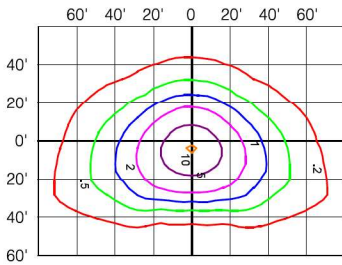
- Each gridline represents one mounting height.
- For mounting heights other than noted multiply FC by the below factor.

$$\text{Factor} = \frac{(\text{Chart's Mtg. Height})^2}{(\text{Actual Mtg. Height})^2}$$

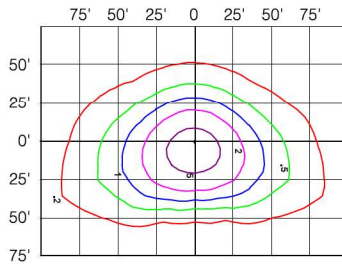
LEGEND



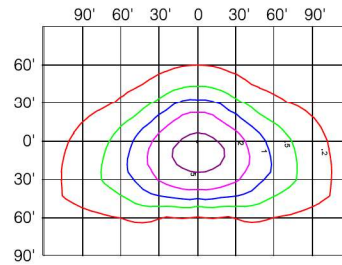
AE100
TYPE III @ 20 FT



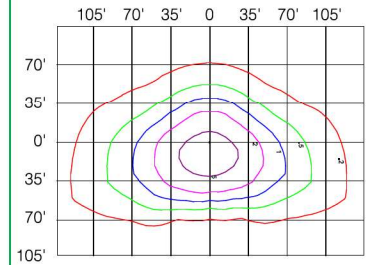
AE150
TYPE III @ 25 FT



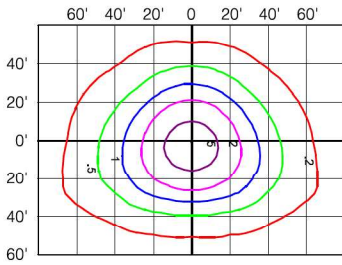
AE200
TYPE III @ 30 FT



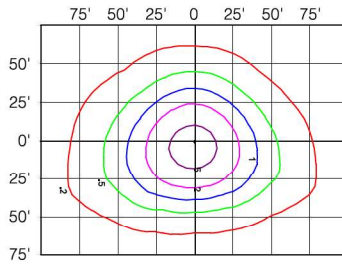
AE300
TYPE III @ 35 FT



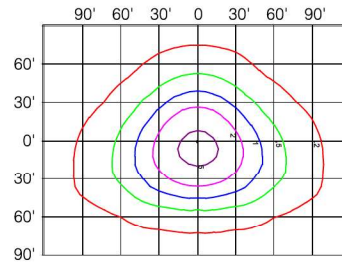
AE100
TYPE IV @ 20 FT



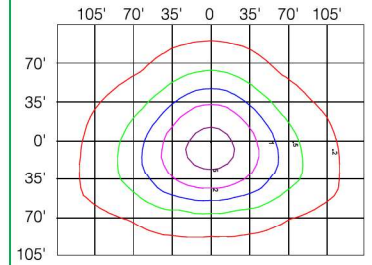
AE150
TYPE IV @ 25 FT



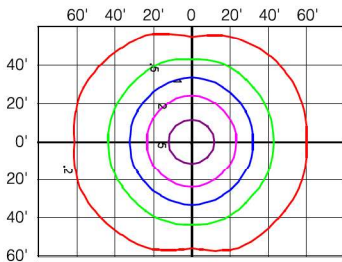
AE200
TYPE IV @ 30 FT



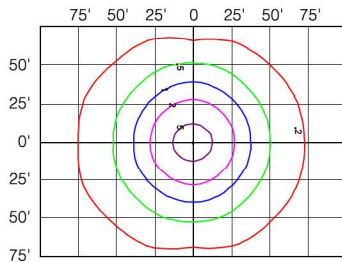
AE300
TYPE IV @ 35 FT



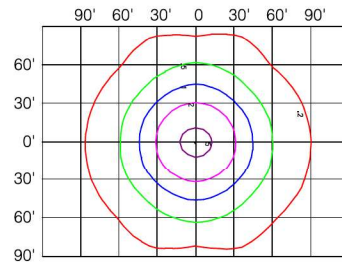
AE100
TYPE V @ 20 FT



AE150
TYPE V @ 25 FT



AE200
TYPE V @ 30 FT



AE300
TYPE V @ 35 FT

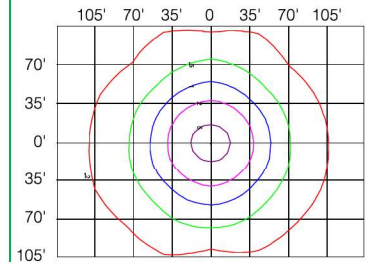
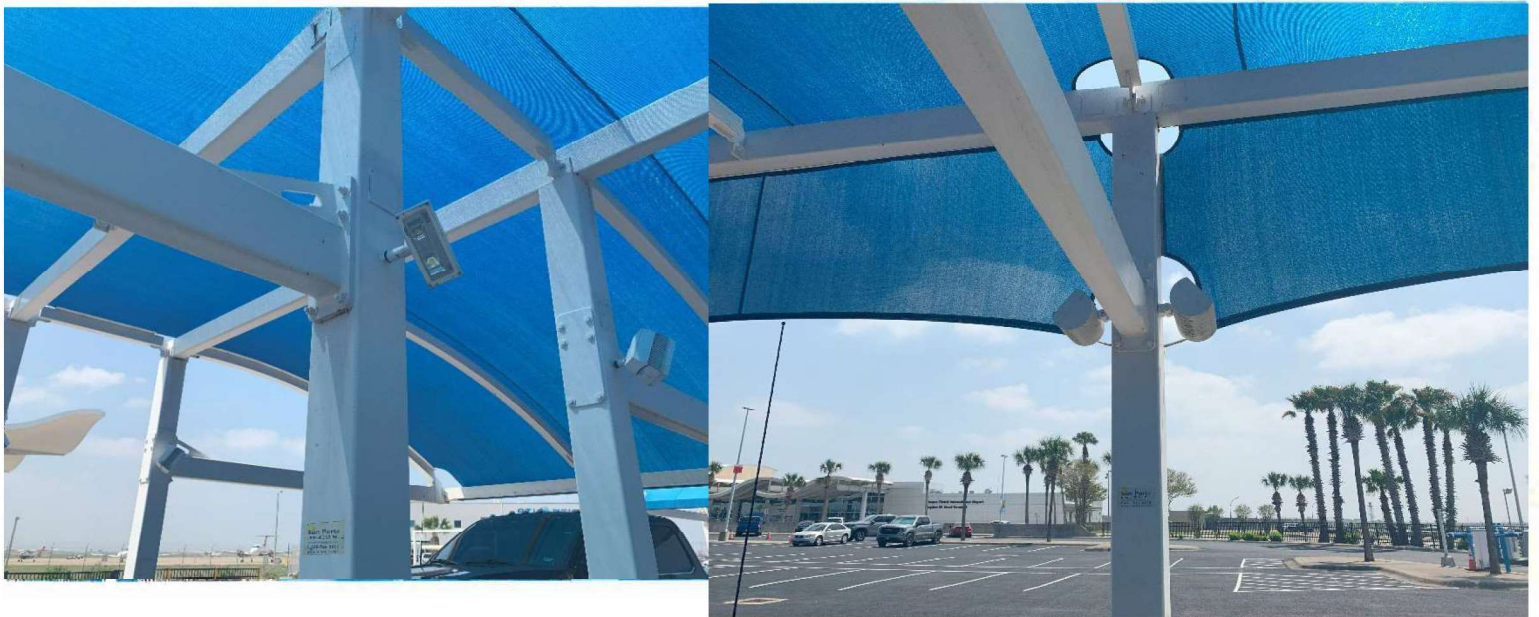


EXHIBIT D



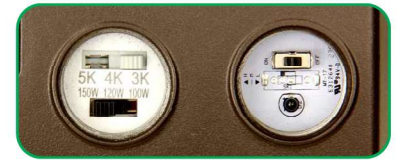
PROJECT NAME: _____ CAT. #: _____
 NOTES: _____ FIXTURE SCHEDULE: _____

Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet



Adjustable Beam Angle



Wattage/CCT & PC Switches

Product Description:

The MaxLite Slim Flood Light family delivers high performance in a small and price-effective package. All versions are available for a variety of mounting applications - 1/2" threaded knuckle, yoke and slipfitter. All models are CCT and Wattage selectable and include an integral photocell. Best of all, the beam angles are adjustable between Narrow, Medium and Wide allowing the customer to customize for their application.

Construction:

- Die cast aluminum housing with corrosion resistant powder coat paint
- Tempered glass lens

Controls:

- Includes photocell with on/off switch
- 4' staged 0-10V dimming leads

Installation:

- All models have adjustable beam angles between Narrow, Medium and Wide
- Includes both 1/2" threaded knuckle and yoke mount. Use TR2.37BZ for slipfitter applications
- 4' SO cord

Listings:

- UL listed for Wet Locations, Outdoor

Ordering Information

FAMILY	WATTAGE	VOLTAGE	BEAM	-	CCT	FINISH	MOUNTING	CONTROLS
MSF= Slim Flood	20= 20W (Selectable 10/15/20W) 35= 35W (Selectable 10/25/35W) 45= 45W (Dedicated Wattage) 60= (Selectable 45/50/60W) 80= (Selectable 55/70/80W)	U= 120-277V 	A=Adjustable between Narrow/ Medium/ Wide 		CS= CCT Selectable (3/4/5K), dedicated 45W only WCS= CCT (3/4/5K) /Wattage Selectable 	B= Bronze W	KTY= Knuckle 1/2" Threaded and Yoke both included in carton, (use TR2.37BZ for Slipfitter applications) 	PC= 120-277V Photocell



5-year standard warranty (further details available at www.maxlite.com/warranties) Product may be eligible for a warranty extension to 10 years, for an additional fee. Contact MaxLite for details.



Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

Stocked Items

ORDER CODE	MODEL NUMBER	DLC PRODUCT ID#	DLC CATEGORY	WATTAGE	CCT
111747	MSF20UA-WCSBKTYPC	S-RLZY60	Outdoor Luminaires - Architectural Flood and Spot Luminaires	20.5W	3/4/5K
111757	MSF35UA-WCSBKTYPC	S-H2C5GY		35W	
111758	MSF45UA-CSBKTYPC	S-4WFSWJ		46.9W	
111752	MSF60UA-WCSBKTYPC	S-3F25W3		62.5W	
111755	MSF80UA-WCSBKTYPC	S-JLZYLS		78.8W	

Wattage Selectable Lumen Chart

MSF20	10W= 1,270 - 1,630	15W= 1,910 - 2,440	20W= 2,610 - 2,890
MSF35	15W= 1,910 - 2,440	25W= 3,240 - 4,010	35W= 4,540 - 5,250
MSF60	45W= 6,220 - 7,300	50W= 6,200 - 7,800	60W= 7,770 - 8,970
MSF80	55W= 7,530 - 9,010	70W= 9,590 - 11,470	80W= 11,710 - 12,460

Accessories

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
111817	MSF-20WVISOR	HALF VISOR FOR MSF20	
111818	MSF-35WVISOR	HALF VISOR FOR MSF35	
111819	MSF-60WVISOR	HALF VISOR FOR MSF45 and MSF60	
111820	MSF-80WVISOR	HALF VISOR FOR MSF80	
101679	TR2.37BZ	TENON REDUCER CONVERTS 1/2" KNUCKLE THREADED MOUNT (KT) TO 2 3/8" SLIPFITTER KNUCKLE (SK) MOUNT, BRONZE	
104352	GROUNDSTAKE	21" BLACK PVC GROUND STAKE WITH BRONZE DIE CAST CAP, GROUND STABILIZERS BARS AND HARDWARE TO MOUNT TO MOUNT JUNCTION BOX, WHICH ALLOWS ADDING AN EXTERNAL PHOTOCELL	
104350	JBOXB-4TH	JUNCTION BOX WITH 4 1/2" CONDUIT HOLES TOP COVER. PROVIDES MOUNTING FOR FLAT SURFACES AND ADDING EXTERNAL PC (PC-120277EXT)	
105551	MTGCOVER	DIE CAST ALUMINUM MOUNTING COVER WITH 3X1/2" THREADED CONDUIT HOLES, BRONZE	

Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

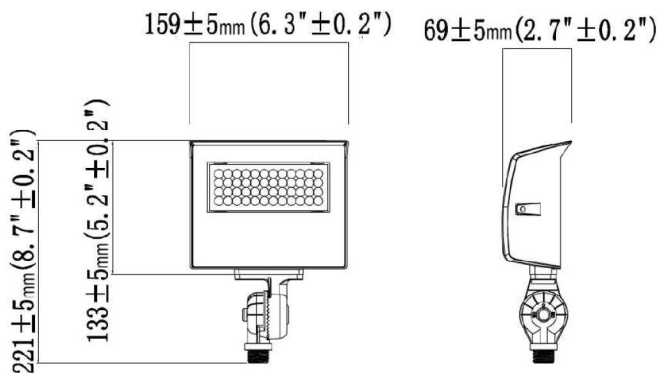
Specifications

Specifications	10/15/20W	15/25/35W	45W	45/50/60W	55/70/80W
Power Consumption (W)	Selectable 10/15/20W	Selectable 15/25/35W	45W	Selectable 45/50/60W	Selectable 55/70/80W
Lumens (lm) Highest Wattage*	2,610 - 2,890	4,540 - 5,250	6,220 - 7,300	7,770 -8,970	11,710 - 12,460
Efficacy (lm/w)	127 - 143	130 - 161	133 - 163	124 - 156	137 - 155
CRI	80				
Color Temperature (K)	Selectable between 3/4/5K				
Beam Angle	Adjustable between Narrow, Medium and Wide (55°, 75° and 90°)				
Voltage	120-277V				
Surge Protection	2.5kV		6kV		
Lumen Maintenance (L70) hrs	100K +				
Controls	0-10V dimming leads staged and integral photocell with on/off switch				
Housing	Die cast aluminum housing with corrosion resistant polyester powder coat				
Lens	Tempered Glass				
Mounting	1/2" threaded knuckle and yoke included (order TR2.37BZ for slipfitter applications)				
EPA (H=Horizontal, V=Vertical)	0.13H, 0.3V ft²	0.15H, 0.34V ft²	0.22H, 0.5V ft²		0.34H, 0.65V ft²
Operating Temperature	-40°C (-40°F) - 40°C (104°F)				
Weight	2.25lbs (0.96kg)	2.75lbs (1.2kg)	3.75lbs (1.7kg)		5.1lbs (2.3kg)
Listings	UL, FCC, ANSI 3G Vibration, IP65				
DLC	5.1 Premium				
Warranty	5 years				

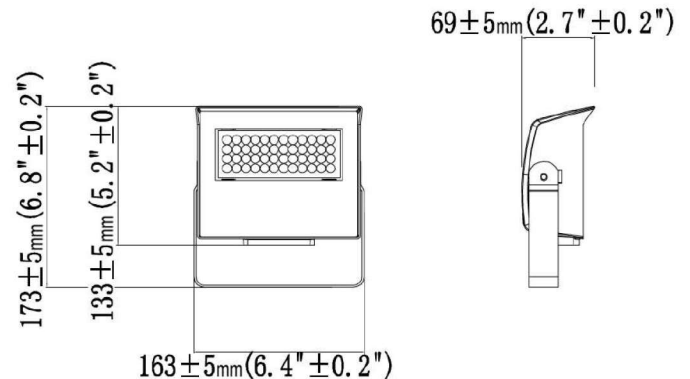
* See Wattage Selectable Lumen Chart for additional lumen settings

Product Dimensions

MSF20/15/10W



Threaded Knuckle

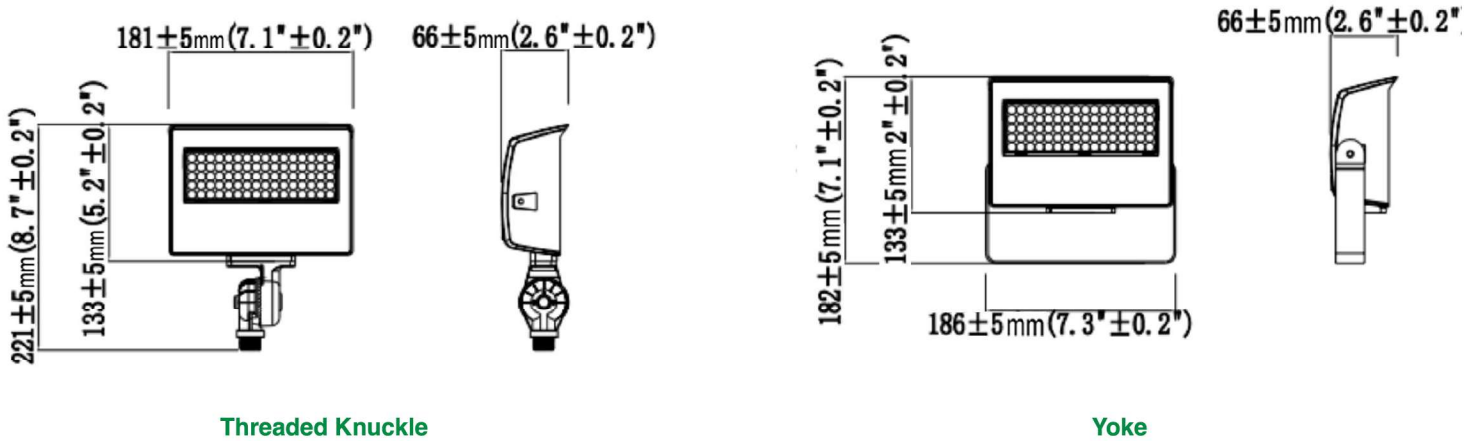


Yoke

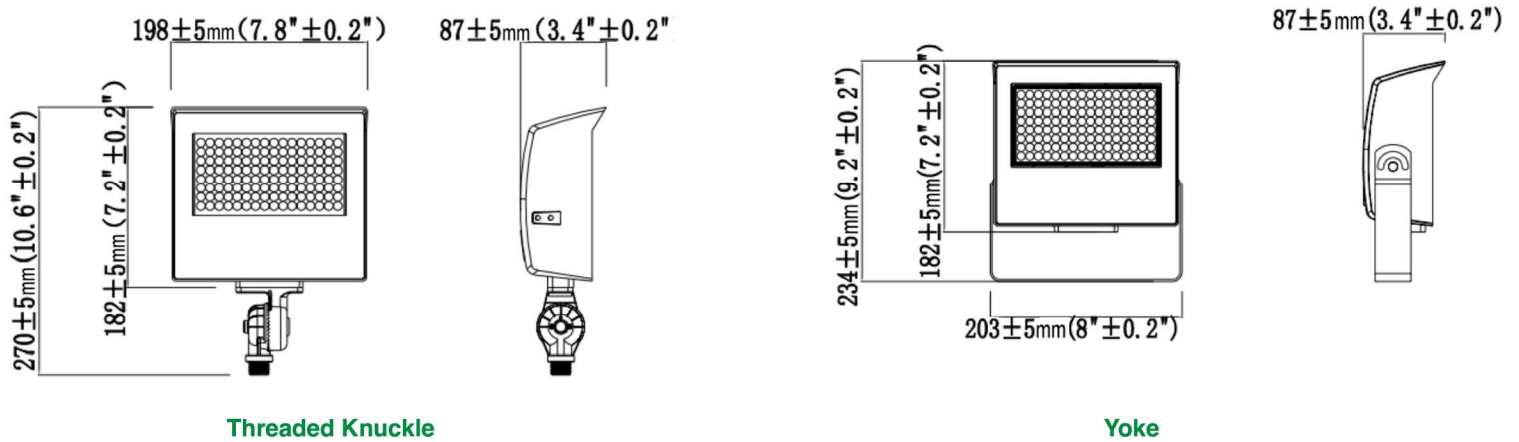
Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

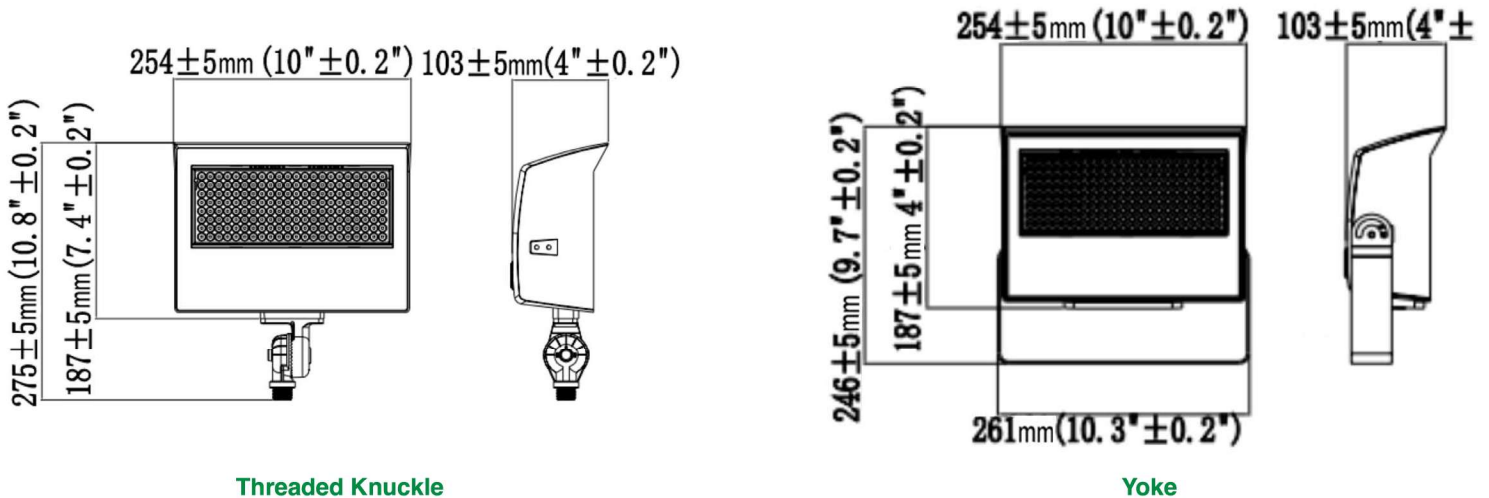
MSF35/25/15W



MSF60/50/45W



MSF80/70/55W



Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

Dimensions

LEGEND

- 0.5 fc
- 1 fc
- 2 fc
- 5 fc

ISOFOOTCANDLE:

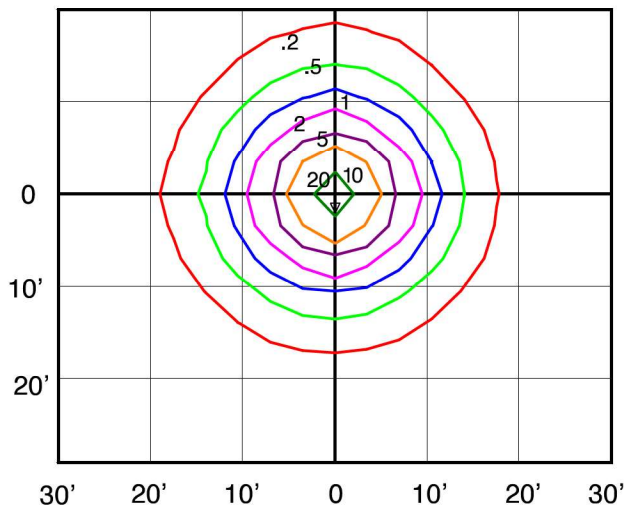
Each gridline represents one mounting height.

For mounting heights other than noted multiply FC by the below factor.

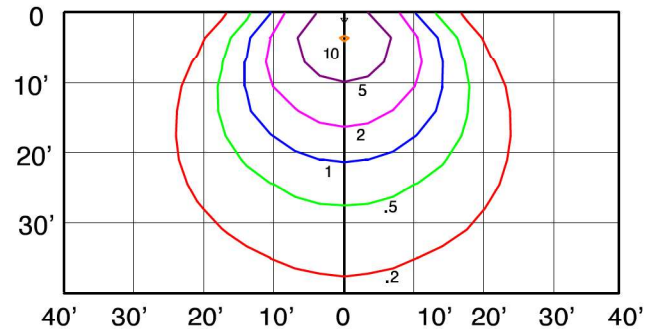
$$\text{Factor} = \frac{(\text{Chart's Mtg Height})^2}{(\text{Actual Mtg Height})^2}$$

Layouts based on 3000K. Results are 3-5% more for 4000/5000K. Consult IES file for more precise calculations.

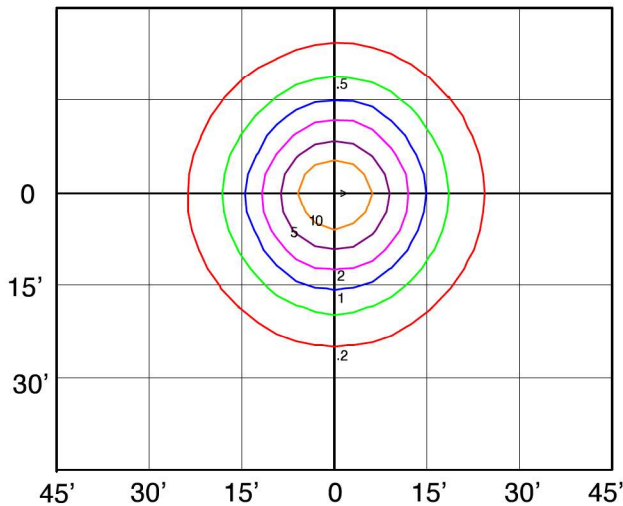
MSF20W Narrow 10' setback



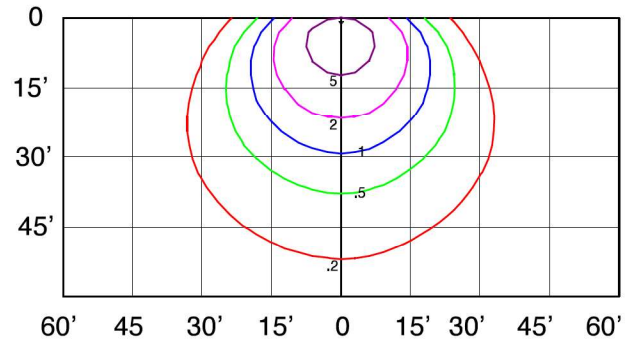
MSF20 Wide 10' setback 45 tilt



MSF35 Narrow 15' setback



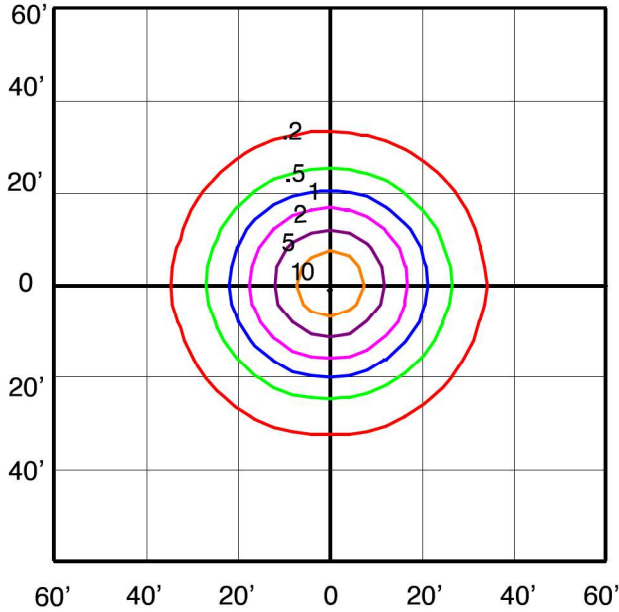
MSF35 Wide 15' setback 45 tilt



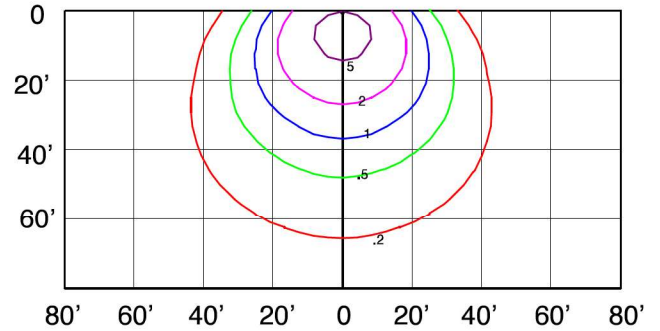
Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

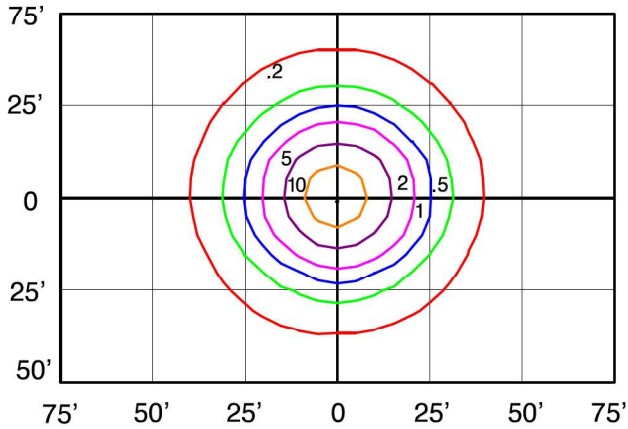
MSF60 Narrow 20' setback



MSF60 Wide 20' setback 45 tilt



MSF80 Narrow 25' setback



MSF80 Wide 25' setback 45 tilt

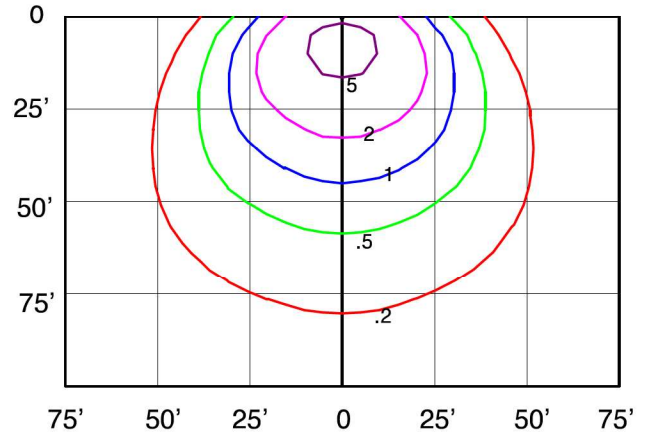


EXHIBIT E





PROJECT NAME: _____ CAT. #: _____
 NOTES: _____ FIXTURE SCHEDULE: _____

Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet



MSF20



MSF35



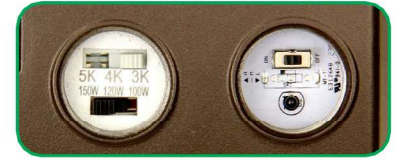
MSF60



MSF80



Adjustable Beam Angle



Wattage/CCT & PC Switches

Product Description:

The MaxLite Slim Flood Light family delivers high performance in a small and price-effective package. All versions are available for a variety of mounting applications - 1/2" threaded knuckle, yoke and slipfitter. All models are CCT and Wattage selectable and include an integral photocell. Best of all, the beam angles are adjustable between Narrow, Medium and Wide allowing the customer to customize for their application.

Construction:

- Die cast aluminum housing with corrosion resistant powder coat paint
- Tempered glass lens

Controls:

- Includes photocell with on/off switch
- 4' staged 0-10V dimming leads

Installation:

- All models have adjustable beam angles between Narrow, Medium and Wide
- Includes both 1/2" threaded knuckle and yoke mount. Use TR2.37BZ for slipfitter applications
- 4' SO cord

Listings:

- UL listed for Wet Locations, Outdoor

Ordering Information

FAMILY	WATTAGE	VOLTAGE	BEAM	-	CCT	FINISH	MOUNTING	CONTROLS
MSF= Slim Flood	20= 20W (Selectable 10/15/20W) 35= 35W (Selectable 10/25/35W) 45= 45W (Dedicated Wattage) 60= (Selectable 45/50/60W) 80= (Selectable 55/70/80W)	U= 120-277V	A=Adjustable between Narrow/ Medium/ Wide		CS= CCT Selectable (3/4/5K), dedicated 45W only WCS= CCT (3/4/5K) /Wattage Selectable	B= Bronze W	KTY= Knuckle 1/2" Threaded and Yoke both included in carton, (use TR2.37BZ for Slipfitter applications)	PC= 120-277V Photocell



5-year standard warranty (further details available at www.maxlite.com/warranties) Product may be eligible for a warranty extension to 10 years, for an additional fee. Contact MaxLite for details.

Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

Stocked Items

ORDER CODE	MODEL NUMBER	DLC PRODUCT ID#	DLC CATEGORY	WATTAGE	CCT
111747	MSF20UA-WCSBKTYPC	S-RLZY60	Outdoor Luminaires - Architectural Flood and Spot Luminaires	20.5W	3/4/5K
111757	MSF35UA-WCSBKTYPC	S-H2C5GY		35W	
111758	MSF45UA-CSBKTYPC	S-4WFSWJ		46.9W	
111752	MSF60UA-WCSBKTYPC	S-3F25W3		62.5W	
111755	MSF80UA-WCSBKTYPC	S-JLZYL5		78.8W	

Wattage Selectable Lumen Chart

MSF20	10W= 1,270 - 1,630	15W= 1,910 - 2,440	20W= 2,610 - 2,890
MSF35	15W= 1,910 - 2,440	25W= 3,240 - 4,010	35W= 4,540 - 5,250
MSF60	45W= 6,220 - 7,300	50W= 6,200 - 7,800	60W= 7,770 - 8,970
MSF80	55W= 7,530 - 9,010	70W= 9,590 - 11,470	80W= 11,710 - 12,460

Accessories

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
111817	MSF-20WVISOR	HALF VISOR FOR MSF20	
111818	MSF-35WVISOR	HALF VISOR FOR MSF35	
111819	MSF-60WVISOR	HALF VISOR FOR MSF45 and MSF60	
111820	MSF-80WVISOR	HALF VISOR FOR MSF80	
101679	TR2.37BZ	TENON REDUCER CONVERTS 1/2" KNUCKLE THREADED MOUNT (KT) TO 2 3/8" SLIPFITTER KNUCKLE (SK) MOUNT, BRONZE	
104352	GROUNDSTAKE	21" BLACK PVC GROUND STAKE WITH BRONZE DIE CAST CAP, GROUND STABILIZERS BARS AND HARDWARE TO MOUNT TO MOUNT JUNCTION BOX, WHICH ALLOWS ADDING AN EXTERNAL PHOTOCCELL	
104350	JBOXB-4TH	JUNCTION BOX WITH 4 1/2" CONDUIT HOLES TOP COVER. PROVIDES MOUNTING FOR FLAT SURFACES AND ADDING EXTERNAL PC (PC-120277EXT)	
105551	MTGCOVER	DIE CAST ALUMINUM MOUNTING COVER WITH 3X1/2" THREADED CONDUIT HOLES, BRONZE	

Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

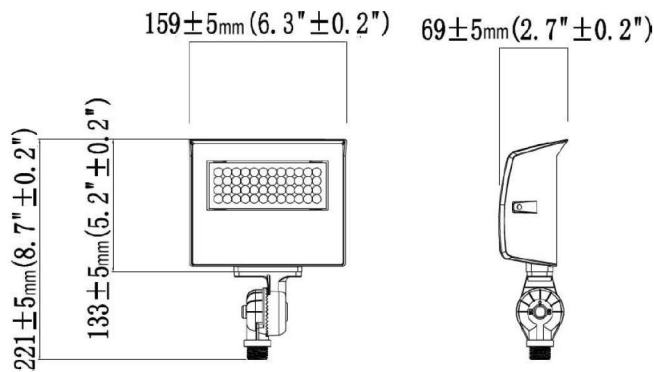
Specifications

Specifications	10/15/20W	15/25/35W	45W	45/50/60W	55/70/80W
Power Consumption (W)	Selectable 10/15/20W	Selectable 15/25/35W	45W	Selectable 45/50/60W	Selectable 55/70/80W
Lumens (lm) Hightest Wattage*	2,610 - 2,890	4,540 - 5,250	6,220 - 7,300	7,770 -8,970	11,710 - 12,460
E!cacy (lm/w)	127 - 143	130 - 161	133 - 163	124 - 156	137 - 155
CRI	80				
Color Temperature (K)	Selectable between 3/4/5K				
Beam Angle	Adjustable between Narrow, Medium and Wide (55°, 75° and 90°)				
Voltage	120-277V				
Surge Protection	2.5kV		6kV		
Lumen Maintenance (L70) hrs	100K +				
Controls	0-10V dimming leads staged and integral photocell with on/off switch				
Housing	Die cast aluminum housing with corrosion resistant polyester powder coat				
Lens	Tempered Glass				
Mounting	1/2" threaded knuckle and yoke included (order TR2.37BZ for slipfitter applications)				
EPA (H=Horizontal, V=Vertical)	0.13H, 0.3V ft²	0.15H, 0.34V ft²	0.22H, 0.5V ft²		0.34H, 0.65V ft²
Operating Temperature	-40°C (-40°F) - 40°C (104°F)				
Weight	2.25lbs (0.96kg)	2.75lbs (1.2kg)	3.75lbs (1.7kg)		5.1lbs (2.3kg)
Listings	UL, FCC, ANSI 3G Vibration, IP65				
DLC	5.1 Premium				
Warranty	5 years				

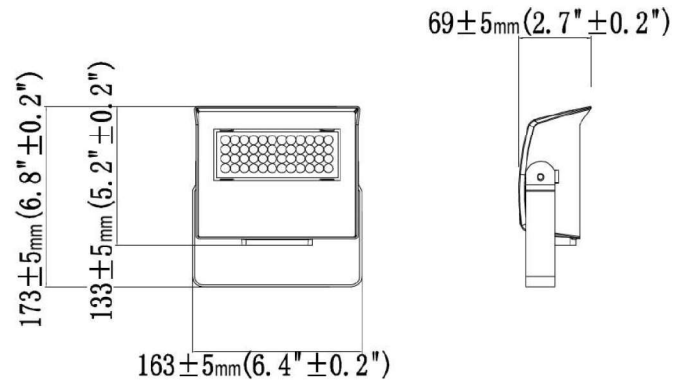
* See Wattage Selectable Lumen Chart for additional lumen settings

Product Dimensions

MSF20/15/10W



Threaded Knuckle

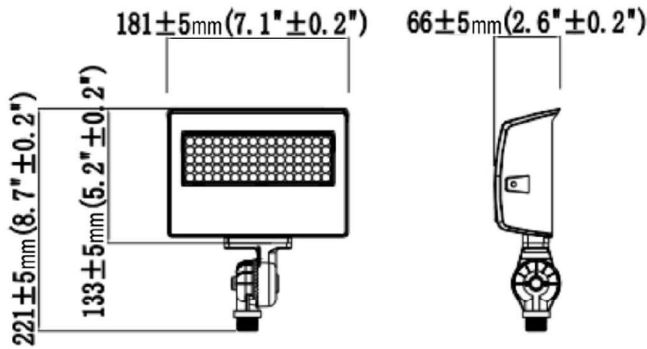


Yoke

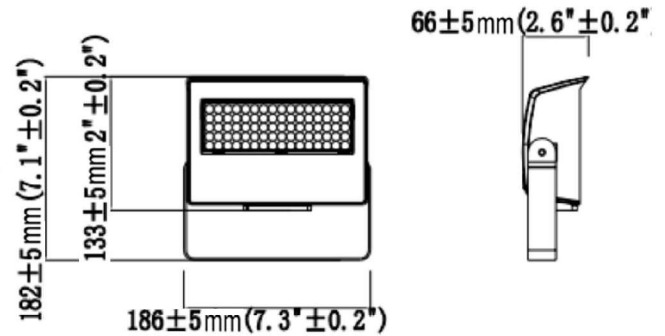
Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

MSF35/25/15W

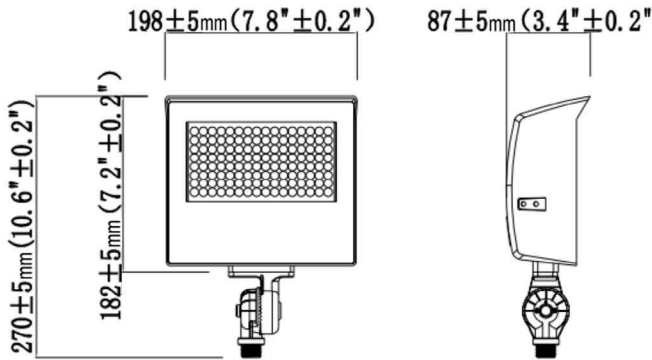


Threaded Knuckle

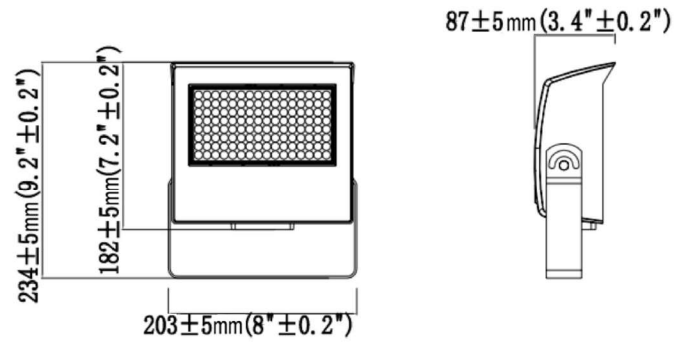


Yoke

MSF60/50/45W

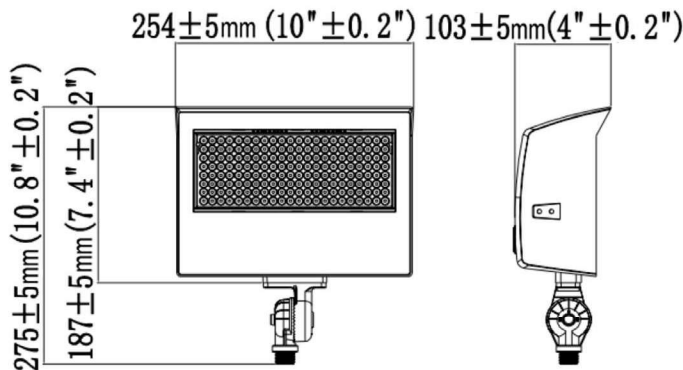


Threaded Knuckle

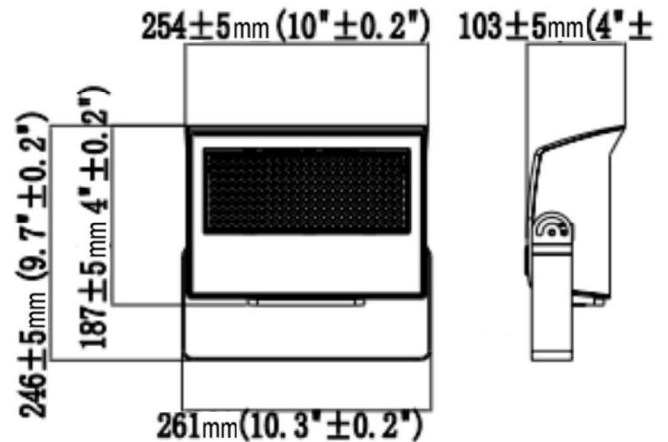


Yoke

MSF80/70/55W



Threaded Knuckle



Yoke

Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

Dimensions

ISOFOOTCANDLE:

Each gridline represents one mounting height.

For mounting heights other than noted multiply FC by the below factor.

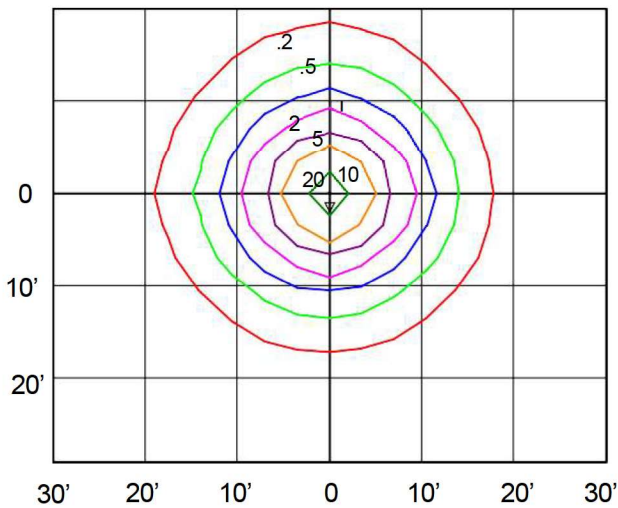
LEGEND

- 0.5 fc
- 1 fc
- 2 fc
- 5 fc

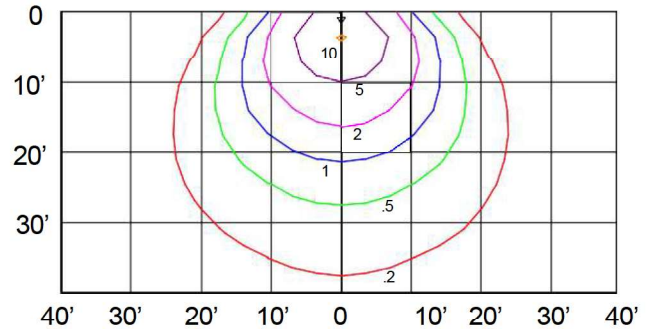
$$\text{Factor} = \frac{(\text{Chart's Mtg Height})^2}{(\text{Actual Mtg Height})^2}$$

Layouts based on 3000K. Results are 3-5% more for 4000/5000K.
Consult IES file for more precise calculations.

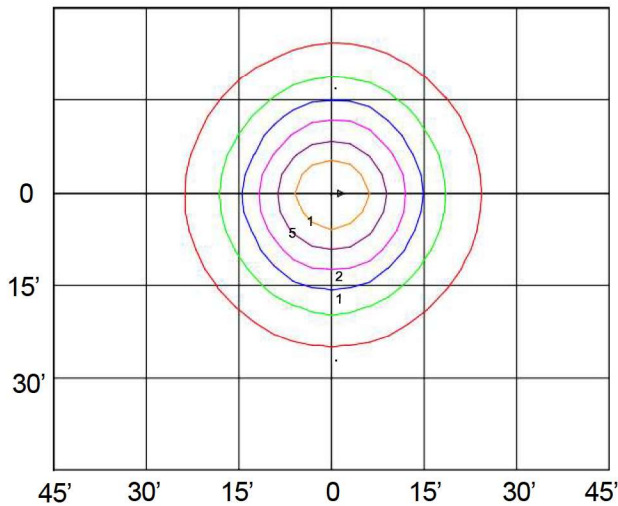
MSF20W Narrow 10' setback



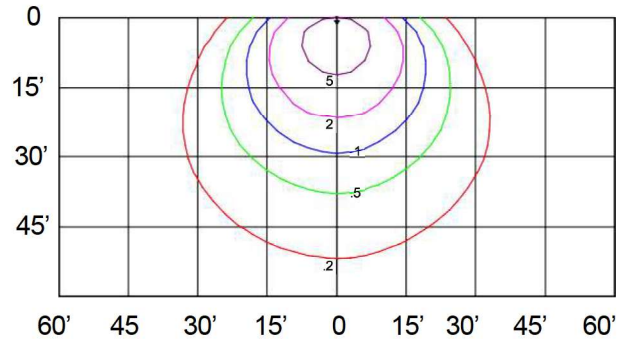
MSF20 Wide 10' setback 45 tilt



MSF35 Narrow 15' setback



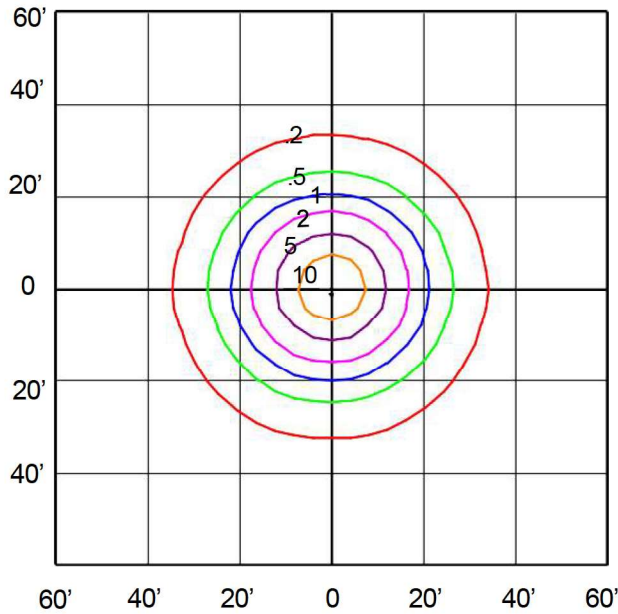
MSF35 Wide 15' setback 45 tilt



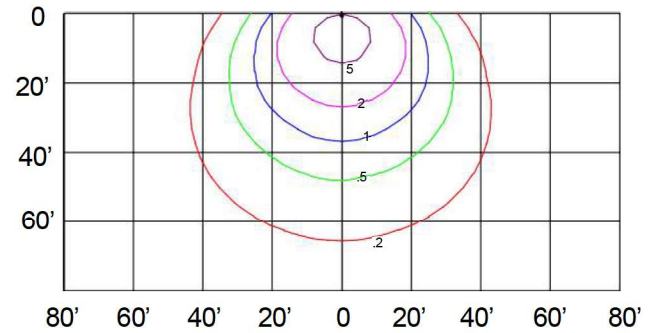
Slim Flood Adjustable Beam Angles 20-80W

Higher wattage versions
on separate sheet

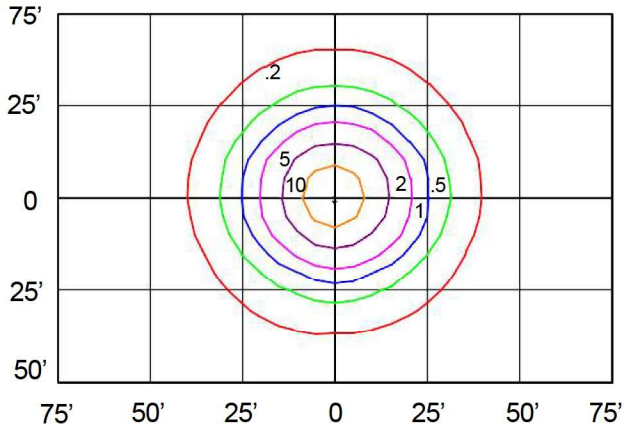
MSF60 Narrow 20' setback



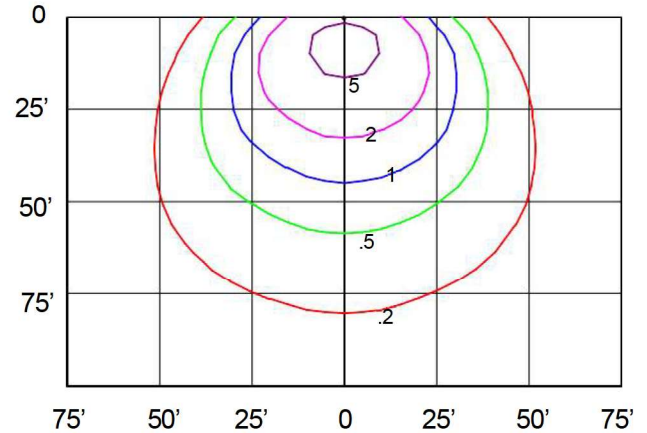
MSF60 Wide 20' setback 45 tilt



MSF80 Narrow 25' setback



MSF80 Wide 25' setback 45 tilt



PROJECT NAME: _____ CAT. #: _____
 NOTES: _____ FIXTURE SCHEDULE: _____

LED High Bay Linear

HL Select Series

Product Description

The HLS LED Highbay Linear Series offers industry leading efficacy (150lm/W), customizability with CCT select switch (4000K & 5000K) and scalability with a Wattage select model, for high ceiling applications such as warehouses, distribution centers, manufacturing facilities and big box retailers. This compact highbay covers a wide range of applications with 17,000 lumens at just 1.4 ft length, all the way up to 60,000 lumens at 3.7 ft length. The product comes integrated with a sensor port for easy in-field plug and play sensor installation, compatible with Maxlite c-Max system (DLC NLC qualified), making it attractive for large utility rebates.

Features

- V-hooks and 40" knotted chain included in standard model
- On EM mode, the fixture output is a minimum of 3750lm for 90 minutes, when fully charged
- CCT Selectable available on all wattages. Fixtures are set to 5000K as a default factory setting
- UL Listed for damp locations

Warranty

- 10 year standard

Controls Ready

MaxLite's new Controls Ready (CR) fixtures allows for quick and easy in-field installation (plug and play) of controls. Simply purchase any CR fixture and the required Controls Node and you're all set! See the accessory table for all controls options available for this fixture.

Controls Features

- Multifunction and Energy Monitoring
- Daylight Sensor
- Occupancy Sensor
- Integral Sensor Receptacle
- High-End Trim
- Bluetooth
- Luminaire Level Lighting Control (LLLC)



Ordering Information

FAMILY	-	WATTAGE	VOLTAGE	LENS	-	CCT SELECT	CONTROLS READY	BBU OPTIONS	CORDS & PLUGS ¹
HLS = Highbay Linear Select		SELECTABLE	U = 120-277V H = 480V ²	F= Frosted		CS = Color Selectable (4000K/5000K)	CR = Controls Ready	BLANK = None EM = Battery Backup	[BLANK] = None -C = Cord -C1 = 10-FT 3 Wire Cord W 5-15P (120V, 15A) -C2 = 10-FT 3 Wire Cord W L7-15P (277V, 15A) -C4 = 10-FT 3 Wire Cord W L8-20P (480V, 20A)
		078W = 78W/92W/114W ³							
		135W = 135W/155W/185W ³							
		200W = 200W/230W/270W ³							
		FIXED							
		155W = 155W							

1. Contact Maxlite if Cord and Plug options are required for Emergency Back Up units.
2. 480V and Battery Back up option aren't compatible.
3. 480V/ High Voltage is accomplished by step down transformer. It adds 10W to the total output wattage



10-year standard warranty with labor allowance (further details available at www.maxlite.com/warranties)

Warranty Limitations: Product must be rated for application per the Product Data Sheet (PDS); operated ≤16 hrs; in ambient temperatures -4°F to 77°F. If ambient temperatures fall outside the -4°F to 77°F range, product is warranted for 5 years according to the operating temperature range specified on the PDS. Up to \$25/unit; registration required. Additional coverage may be available for purchase; contact MaxLite. Excludes EM/MS versions; component warranty applies.



LED High Bay Linear

HL Select Series

Non-TAA Stocked Items

ORDER CODE	MODEL NUMBER	DLC PRODUCT ID#	PRIMARY USE DESIGNATION	CLASSIFICATION
110407	HLS-078WUF-CSCR	S-7Z5L19	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110419	HLS-078WUF-CSCREM	S-7Z5L19	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110701	HLS-135WUF-CSCR	S-22MM5K	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110703	HLS-135WUF-CSCREM	S-22MM5K	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110409	HLS-155UF-CSCR	S-KGY52S	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110421	HLS-155UF-CSCREM	S-KGY52S	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110411	HLS-200WUF-CSCR	S-TPP5B2	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110472	HLS-200WUF-CSCREM	S-TPP5B2	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110412	HLS-270WUF-CSCR	S-VFFFQ7	High-Bay Luminaires for Commercial and Industrial Buildings	Premium

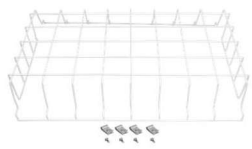
TAA Stocked Items

ORDER CODE	MODEL NUMBER	DLC PRODUCT ID#	PRIMARY USE DESIGNATION	CLASSIFICATION
111477	HLS-078WUF-CSCREMTA	S-7Z5L19	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110888	HLS-078WUF-CSCRTA	S-7Z5L19	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
111478	HLS-135WUF-CSCREMTA	S-22MM5K	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110892	HLS-135WUF-CSCRTA	S-22MM5K	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
111479	HLS-155UF-CSCREMTA	S-KGY52S	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110894	HLS-155UF-CSCRTA	S-KGY52S	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
111480	HLS-200WUF-CSCREMTA	S-TPP5B2	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110898	HLS-200WUF-CSCRTA	S-TPP5B2	High-Bay Luminaires for Commercial and Industrial Buildings	Premium
110968	HLS-270WUF-CSCRTA	S-VFFFQ7	High-Bay Luminaires for Commercial and Industrial Buildings	Premium

LED High Bay Linear

HL Select Series

Accessories (Sold Separately)

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
110904	HLS-PMKIT1*	PIPE MOUNT KIT FOR HLS 1.4FT (78W), 1.9FT (135W, 155W - FIXED WATTAGE), 2.6FT (200W). 3.7FT (270W) - FOR 120-277V MODELS	
110905	HLS-PMKIT2*	PIPE MOUNT KIT FOR HLS 1.4FT, 1.9FT (FOR 480V MODELS)	
110906	HLS-PMKIT3*	PIPE MOUNT KIT FOR HLS 2.6FT (FOR 480V MODELS)	
110907	HLS-PMKIT4*	PIPE MOUNT KIT FOR HLS 3.7FT (FOR 480V MODELS)	
110908	HLS-SMKIT1	SURFACE MOUNT KIT FOR HLS 1.4FT (78W), 1.9FT (135W, 155W - FIXED WATTAGE), 2.6FT (200W). 3.7FT (270W) - FOR 120-277V MODELS	
110909	HLS-SMKIT2	PIPE MOUNT KIT FOR HLS 1.4FT, 1.9FT, 2.6FT, 3.7FT (FOR 480V MODELS)	
110910	HLS-WGW1	WIREGUARD FOR 1.4FT (78W) HLS	
110911	HLS-WGW2	WIREGUARD FOR 1.9FT (135W, 155W - Fixed Wattage) HLS	
110912	HLS-WGW3	WIREGUARD FOR 2.6FT (200W) HLS	
110913	HLS-WGW4	WIREGUARD FOR 3.7FT (270W) HLS	
110914	HLS-NLENS1	NARROW BEAM LENS FOR 1.4FT (78W) HLS (2PC)	
110915	HLS-NLENS2	NARROW BEAM LENS FOR 1.9FT (135W, 155W - FIXED WATTAGE) HLS (2PC)	
110916	HLS-NLENS3	NARROW BEAM LENS FOR 2.6FT (200W) HLS (2PC)	
110917	HLS-NLENS4	NARROW BEAM LENS FOR 3.7FT (270W) HLS (2PC)	
74138	MLCHKLSU15	Y CABLE WITH GRIPPER CINCH AND TOGGLES 15'	

LED High Bay Linear

HL Select Series

c-Max Basic			
105567	CN-REMOTE	CONTROL NODE REMOTE CONTROL	
105565	CN-RDMSW	CONTROL NODE ROUND, WHITE	
c-Max Network			
106391	NN-RDW	NETWORK NODE ROUND, WHITE	
108392	WNS5-W	WALL NETWORK SWITCH (BLUETOOTH) WHITE	
105905	NN RDMSW	NETWORK NODE ROUND, PIR MOTION SENSOR, DAYLIGHT HARVESTING , WHITE	
106318	NPP-300W	120-277V NETWORK POWER PACK 300W MAX	

*Contact Maxlite, for Emergency BBU and Pendant Mounting combination.

Sensor

SENSOR	TECHNOLOGY	DIMMING	DAYLIGHT HARVESTING	REMOTE CONTROL	QR CODE
CN-RDMSW	PIR motion sensing, Photoelectric	Bi-Level	Continuous Adjustment Mode (CAM)	CN-REMOTE	
NN-RDMSW	PIR motion sensing, Photoelectric & Bluetooth networking	Bi-Level	Continuous Adjustment Mode (CAM)	c-Max App (iPhone or Android)	
NN-RDW	Bluetooth Networking	N/A	N/A	c-Max App (iPhone or Android)	



LED High Bay Linear

HL Select Series

Specifications		HLS-078W			HLS-135W		
Length		1.4 FT			1.9 FT		
Nominal Wattage (W)**	120-277V AC	78W	92W	115W	135W	155W	185W
	480V AC	88W	102W	125W	145W	165W	195W
Lumens Delivered (lm)		12090	14070	17360	20920	23710	27930
Nominal Efficacy (lm/W)	120-277V AC	155	153	151	155	153	151
	480V AC	140	138	136	140	138	136
Lumens Delivered at BBU mode (lm)***		3750 lm with EM suffix- for 90 minutes, when fully charged					
CCT*		4000K, 5000K					
CRI		≥ 80					
Calculated L70 Lumen Maintenance		>100,000 hrs					
Beam Angle		90° for Frosted Lens. 40° for Narrow Beam Lens					
Dimming Technology		0-10V					
Dimming Range		10-100%					
Input Voltage		120-277V AC, 480V AC					
Surge Protection		6 kV (Contact Maxlite, if additional surge requirements)			10 kV		
Power Factor		≥ 0.9					
Mounting		Suspended (Chain and V Hooks - Standard)					
Housing		Sheet Steel					
Diffuser		Frosted PMMA (Polymethyl Methacrylate)					
Humidity		10% to 80% RH Non-Condensing					
Operating Temperature		-4°F to 122°F (-20°C to 50°C), except for BBU models. BBU models: 32°F to 113°F (0°C to 45°C) Refer to Operating Temperature Table for more information.					
Certifications		UL listed, RoHS Compliant, FCC					
Qualifications		DLC Premium					
Warranty		10 years. Check maxlite.com/warranties for details					

* Factory default CCT is 5000K.

**Factory Default wattage is set to lowest value.

*** In BBU mode, only portion of the highbay is illuminated. Default CCT is 5000K at BBU mode.



LED High Bay Linear

HL Select Series

Specifications

Specifications		HLS-155	HLS-200W				HLS-270W	
Length		1.9 FT	2.6 FT				3.7 FT	
Nominal Wattage (W)**	120-277V AC	155W	200W	230W	270W	270W	340W	400W
	480V AC	165W	210W	240W	280W	280W	350W	410W
Lumens Delivered (lm)		23250	31000	35190	40770	41850	52020	60400
Nominal Efficacy (lm/W)	120-277V AC	150	155	153	151	155	153	151
	480V AC	136	140	138	136	140	138	136
Lumens Delivered at BBU mode (lm)***		3750 lm with EM suffix- for 90 minutes, when fully charged						
CCT*		4000K, 5000K						
CRI		≥ 80						
Calculated L70 Lumen Maintenance		>100,000 hrs						
Beam Angle		90° for Frosted Lens. 40° for Narrow Beam Lens						
Dimming Technology		0-10V						
Dimming Range		10-100%						
Input Voltage		120-277V AC, 480V AC						
Surge Protection		10 kV						
Power Factor		≥ 0.9						
Mounting		Suspended (Chain and V Hooks - Standard)						
Housing		Sheet Steel						
Diffuser		Frosted PMMA (Polymethyl Methacrylate)						
Humidity		10% to 80% RH Non-Condensing						
Operating Temperature		-4°F to 122°F (-20°C to 50°C), except for BBU models. BBU models: 32°F to 122°F (0°C to 50°C) Refer to Operating Temperature Table for more information.						
Certifications		UL listed, RoHS Compliant, FCC						
Qualifications		DLC Premium						
Warranty		10 years. Check maxlite.com/warranties for details						

* Factory default CCT is 5000K.

**Factory Default wattage is set to lowest value.

*** In BBU mode, only portion of the highbay is illuminated. Default CCT is 5000K at BBU mode.

LED High Bay Linear

HL Select Series

HLS Operating Temperature (For 120-277V Models)

MODEL NUMBER & LENGTH OF HOUSING		120-277V LUMINAIRE	120-277V LUMINAIRE WITH BATTERY BACK UP UNIT	120-277V LUMINAIRE WITH HLS-SMKITX	120-277V LUMINAIRE WITH BATTERY BACK UP UNIT AND HLS-SMKITX	120-277V LUMINAIRE WITH HLS-PMKITX	120-277V LUMINAIRE WITH BATTERY BACK UP UNIT AND HLS-PMKITX
HLS-078WUF-CSCR	1.4ft	-4°F to 122°F (-20°C to 50°C)	32°F to 113°F (0°C to 45°C)	-4°F to 104°F (-20°C to 40°C)	32°F to 104°F (0°C to 40°C)	-4°F to 122°F (-20°C to 50°C) applies when the luminaire is suspended at least 18 inches from the ceiling	32°F to 113°F (0°C to 45°C)
HLS-155UF-CSCR	1.9ft						32°F to 104°F (0°C to 40°C)
HLS-135WUF-CSCR	1.9ft						32°F to 113°F (0°C to 45°C)
HLS-200WUF-CSCR	2.6ft						32°F to 113°F (0°C to 45°C)
HLS-270WUF-CSCR	3.7ft						32°F to 104°F (0°C to 40°C)

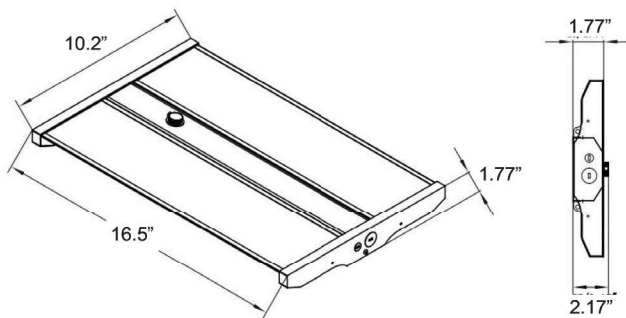
HLS Operating Temperature (For 480V Models)

MODEL NUMBER & LENGTH OF HOUSING		480V LUMINAIRE	480V LUMINAIRE WITH HLS-SMKITX	480V LUMINAIRE WITH HLS-PMKITX
HLS-078WUF-CSCR	1.4ft	-4°F to 122°F (-20°C to 50°C)	-4°F to 104°F (-20°C to 40°C)	-4°F to 113°F (-20°C to 45°C) applies when the luminaire is suspended at least 18 inches from the ceiling
HLS-155UF-CSCR	1.9ft	-4°F to 113°F (-20°C to 45°C)		
HLS-135WUF-CSCR	1.9ft	-4°F to 122°F (-20°C to 50°C)		
HLS-200WUF-CSCR	2.6ft	-4°F to 122°F (-20°C to 50°C)		
HLS-270WUF-CSCR	3.7ft	-4°F to 122°F (-20°C to 50°C)		

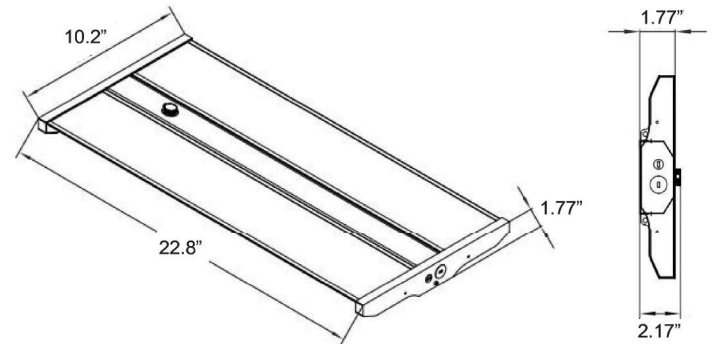
LED High Bay Linear

HL Select Series

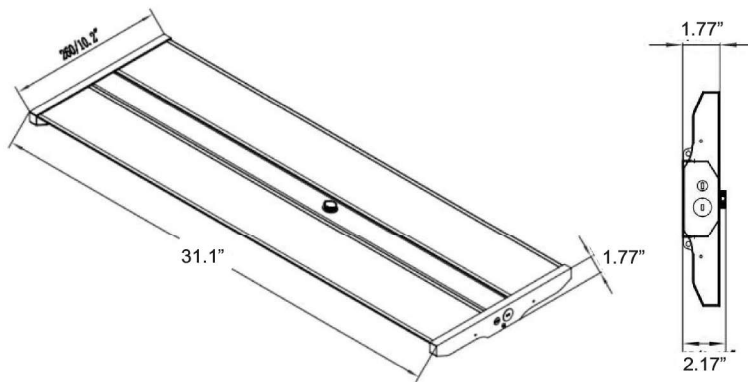
Dimensions (For 120-277V Models)



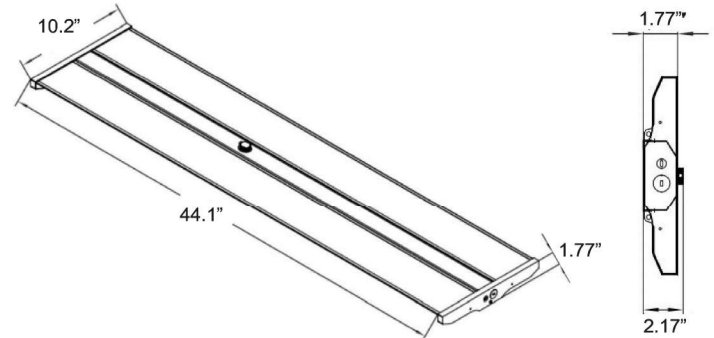
1.4 FT - 78W/ 92W/ 115W (Wattage Selectable)



1.9 FT - 135W/ 155W/ 185W (Wattage Selectable),
155W (Fixed Wattage)



2.6 FT - 200W/ 230W/ 270W (Wattage Selectable)

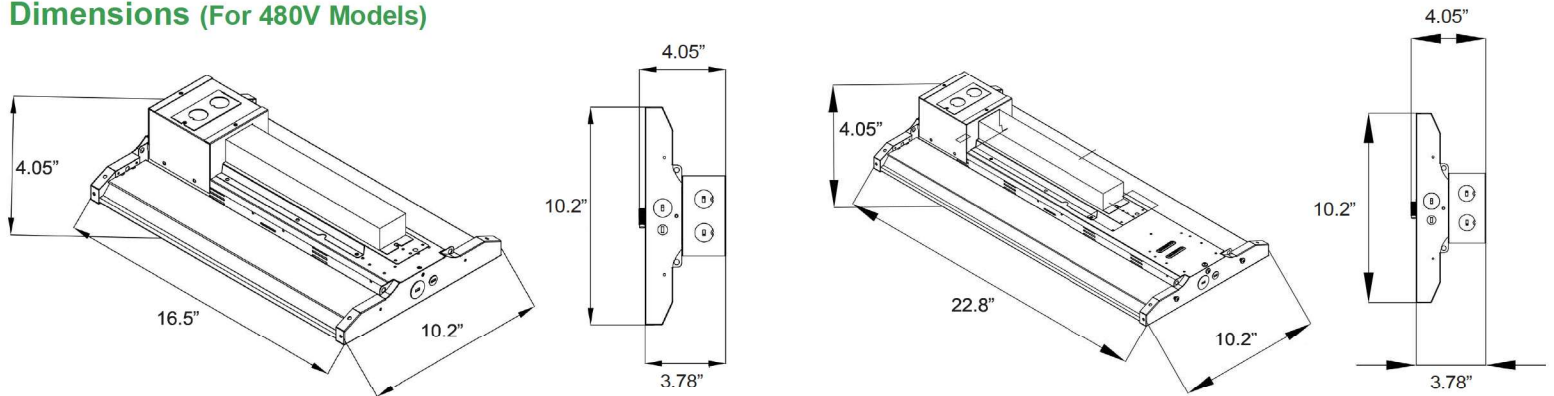


3.7 FT - 270W/ 340W/ 400W (Wattage Selectable)

LED High Bay Linear

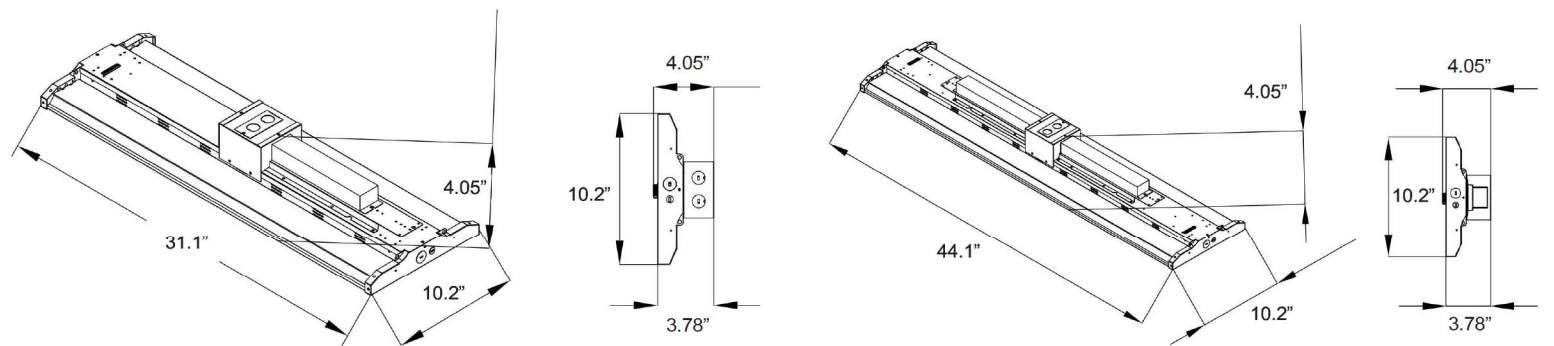
HL Select Series

Dimensions (For 480V Models)



1.4 FT - 88W/ 102W/ 125W (Wattage Selectable)

1.9 FT - 145W/ 165W/ 195W (Wattage Selectable),
165W (Fixed Wattage)



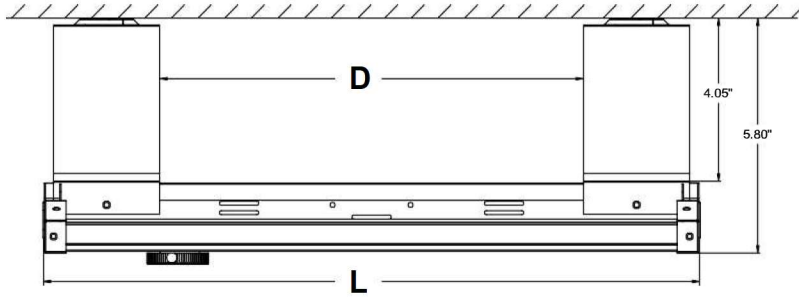
2.6 FT - 210W/ 240W/ 280W (Wattage Selectable)

3.7 FT - 280W/ 350W/ 410W (Wattage Selectable)

LED High Bay Linear

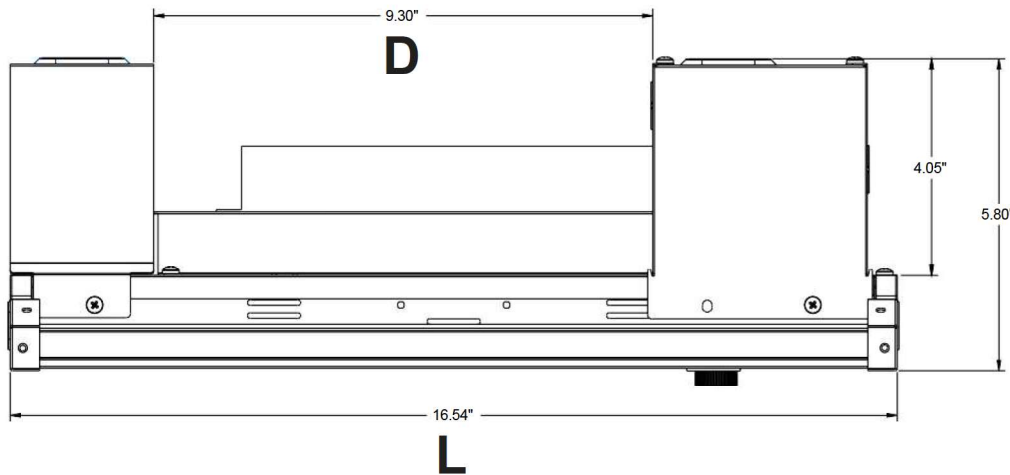
HL Select Series

Surface Mount Kit Dimensions (For 120-277V Models)



	LENGTH OF FIXTURE (L)	INNER DISTANCE BETWEEN THE 2 SMK BRACKETS (D)
1.4FT - 78W/92W/135W	16.54"	10.71"
1.9FT - 135W/155W/185W	22.83"	17.01"
2.6FT - 200W/230W/ 270W	31.10"	25.28
3.7FT - 270W/ 340W/ 400W	44.09"	38.27"

Surface Mount Kit Dimensions (For 480V Models)

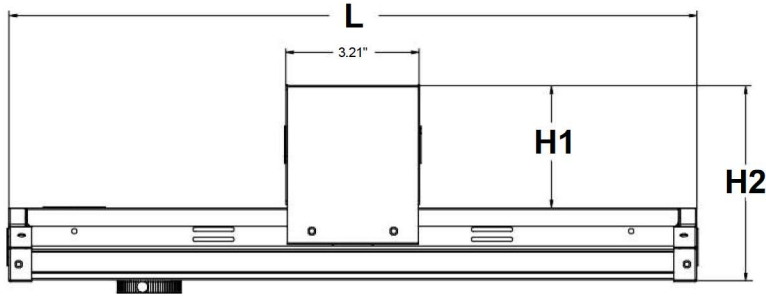


	LENGTH OF FIXTURE (L)	INNER DISTANCE BETWEEN THE 2 SMK BRACKETS (D)
1.4FT - 78W/92W/135W	16.54"	9.30"
1.9FT - 135W/155W/185W	22.83"	15.30"
2.6FT - 200W/230W/ 270W	31.10"	25.28"
3.7FT - 270W/ 340W/ 400W	44.09"	38.27"

LED High Bay Linear

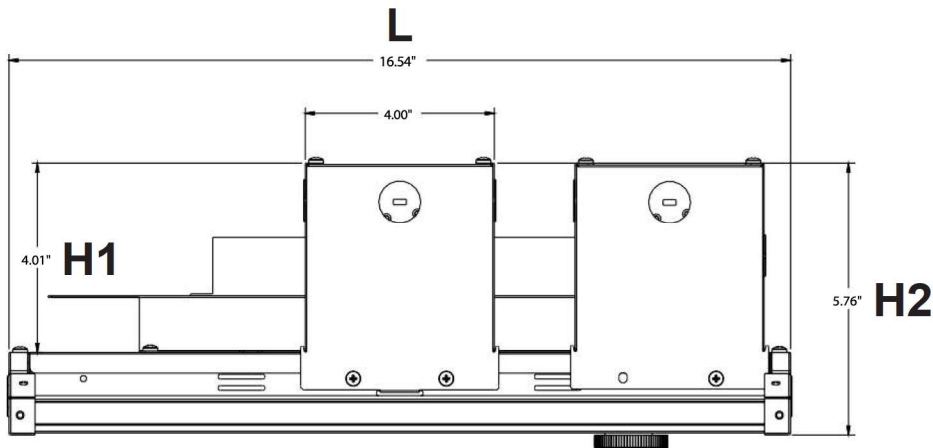
HL Select Series

Pipe Mount Kit Dimensions (For 120-277V Models)



	LENGTH OF FIXTURE (L)	HEIGHT FROM TOP OF THE PMK BRACKET TO THE TOP OF THE HOUSING (H1)	HEIGHT FROM TOP OF THE PMK BRACKET TO THE BOTTOM OF THE HOUSING (H2)
1.4FT - 78W/92W/135W	16.54"	2.94"	4.70"
1.9FT - 135W/155W/185W	22.83"	2.94"	4.70"
2.6FT - 200W/230W/ 270W	31.10"	2.94"	4.70"
3.7FT - 270W/ 340W/ 400W	44.09"	2.94"	4.70"

Pipe Mount Kit Dimensions (for 480V models)



	LENGTH OF FIXTURE (L)	HEIGHT FROM TOP OF THE PMK BRACKET TO THE TOP OF THE HOUSING (H1)	HEIGHT FROM TOP OF THE PMK BRACKET TO THE BOTTOM OF THE HOUSING (H2)
1.4FT - 78W/92W/135W	16.54"	4.01"	4.76"
1.9FT - 135W/155W/185W	22.83"	4.01"	4.76"
2.6FT - 200W/230W/ 270W	31.10"	4.01"	4.76"
3.7FT - 270W/ 340W/ 400W	44.09"	4.01"	4.76"

PROJECT NAME: _____ CAT. #: _____

NOTES: _____ FIXTURE SCHEDULE: _____

Architectural Wall Sconce

CCT Selectable



Product Description:

The LED Wall Sconce provides long-lasting illumination with a decorative touch to corridors in hotels, motels and commercial property applications. It offers long life, high lumen maintenance, and dimmable operation for residential and commercial applications that exceed those of a traditional bulb fixture.

Features:

- 2700/3000/4000K CCT selectable
- Even light distribution

Dimming:

- 120V Triac Dimming

Construction:

- Steel Construction
- Powder coated finish

Listings:

- cETLus listed for Indoor, Damp locations
- FCC

Ordering Information

FAMILY	SUB FAMILY	STYLE	FINISH	VOLTAGE	WATTAGE	CCT
ML9= Wall Sconce	LA= LED Integrated	A= Architectural	BN= Brushed Nickel	[BLANK]= 120V, Triac dimming	23= 23W	CS= 80CRI, 2700/3000/4000K

Stocked Items

MODEL NUMBER	ORDER CODE	ENERGY STAR #
ML9LAABN23CS	106083	2388245

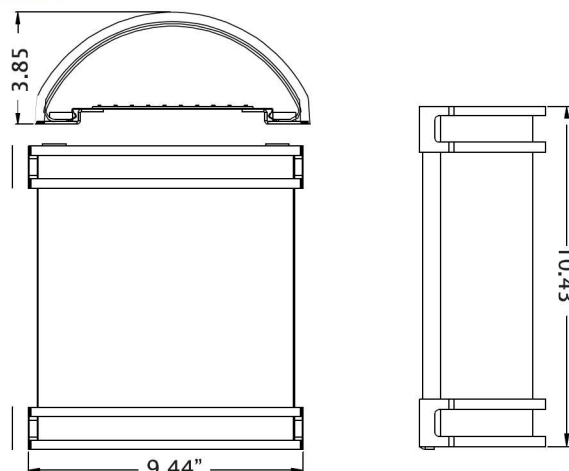
Specifications

Specification	Value
Efficacy (lm/W)	90
CRI	≥80
CCT (K)	2700/3000/4000K
L70 Lifetime (hrs)	≥50,000
Voltage	120V
Power Factor	≥0.9
Operating Temperature	-4°F to 104°F (-20°C to 40°C)
Listings	ENERGY STAR, cETLus, FCC
Environment	Suitable for damp locations
Warranty	5 Years

Dimming Compatibility

DIMMER MODELS	
Leviton	DVCL-153PR-WH, CTCL-153PDH-WH, R62-06674-P0W, R12-06672-1LW, R50-IPL06-10M
Lutron	TGCL-153PH-WH, MACL-153MH-WH, P-PKG1W-WH-R
Eaton	AAL06-C1, SAL06P-LA-K

Dimensions


5-year standard warranty (further details available at www.maxlite.com/warranties)

Product may be eligible for a warranty extension to 10 years, for an additional fee. Contact MaxLite for details.

Phone: 1-800-555-5629

Fax: 973-244-7333

Web: www.maxlite.com

E-mail: info@maxlite.com

PLM# 664

Rev: 11/22/21

PROJECT NAME: _____ CAT. #: _____
 NOTES: _____ FIXTURE SCHEDULE: _____

FlatMax High Lumen Controls Ready Flat Panel

MLFP Enhanced Series



Product Description

Maxlite's new High Lumen Back-lit Flat Panels deliver up to 7500 lumens in a 2x4 size and 6000 lumens in 2x2 size, making them ideal for high-ceiling commercial interiors such as offices, schools, and healthcare facilities. With an impressive 125 lumens per watt (LPW), these DLC Premium qualified panels provide highly efficient, uniform illumination. They offer the versatility of field-selectable color temperatures and wattages to suit various application needs. As a true Controls Ready (CR) product, this series features Maxlite's patented c-Max plug-and-play system, allowing for easy integration of control options, even in systems not pre-wired for controls.

Features

- IC Rated
- Up to 7500 lumens in 2x4 and 6000 Lumens in 2x2 size
- Field Wattage and CCT Selectable
- Controls Ready – can be paired with the new cMax controls nodes
- Fixtures are set to lowest wattage and 4000K as default factory setting
- 0-10V Dimmable (10% to 100%)
- Voltage: 120-277V
- On EM mode, the fixture output a minimum of 1700 lumens for 90 minutes, when fully charged

Controls Ready

MaxLite's new Controls Ready (CR) fixtures allows for quick and easy in-field installation (plug and play) of controls. Simply purchase any CR fixture and the required Controls Node and you're all set! See the accessory table for all controls options available for this fixture.

Controls Features

- Multifunction and Energy Monitoring
- Daylight Sensor
- Occupancy Sensor
- Integral Sensor Receptacle
- High-End Trim
- Bluetooth
- Luminaire Level Lighting Control (LLLC)

Ordering Information

FAMILY	SIZE	PANEL TYPE	WATTAGE SELECTABLE ¹	COLOR TEMPERATURE ¹	CONTROLS	OPTIONS ^{2,3,4}	PACKAGING	SOURCING STRATEGY
MLFP= Flat Panel	22= 2x2'	G5= Backlit	30W= 30W, 40W, 50W	CS= Color Selectable (3500K, 4000K, 5000K)	CR= Controls Ready	BLANK= None E2= Made to order emergency back up EM= Emergency battery back up	BLANK= None 2PK= 2 Pack 12PK= 12 Pack	BLANK= Non-TAA Country TA= TAA Country
	24= 2x4'		40W= 40W, 50W, 60W					

1. Default setting for WCS models is set to lowest wattage and 4000K

2. Battery back up models are available only in Single Pack configuration. On EM mode, the fixture CCT will be set to 5000K

3. Check the Specification Table for lumen output for EM and E2 suffix

4. SMK is not compatible with E2 suffix Battery Back up models



10-year standard warranty with labor allowance (further details available at www.maxlite.com/warranties)

Warranty Limitations: Product must be rated for application per the Product Data Sheet (PDS); operated ≤16 hrs; in ambient temperatures -4°F to 77°F. If ambient temperatures fall outside the -4°F to 77°F range, product is warrantied for 5 years according to the operating temperature range specified on the PDS. Up to \$25/unit; registration required. Additional coverage may be available for purchase; contact MaxLite. Excludes EM/MS versions; component warranty applies.

FlatMax High Lumen Controls Ready Flat Panel

MLFP Enhanced Series

TAA Stocked Items

ORDER CODE	MODEL NUMBER	DLC PRODUCT ID#	DLC CLASSIFICATION	DLC PRIMARY USE DESIGNATION
111439	MLFP22G530WCSER/2PTA	S-8PGKWG	Standard	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
111443	MLFP22G530WCSEREMTA	S-8PGKWG	Standard	2x2 Luminaires for Ambient Lighting of Interior Commercial Spaces
111440	MLFP24G540WCSER/2PTA	S-RWSTKB	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
		S-S4ZMB7	Standard	Low-Bay Luminaires for Commercial and Industrial Buildings
111444	MLFP24G540WCSEREMTA	S-RWSTKB	Premium	2x4 Luminaires for Ambient Lighting of Interior Commercial Spaces
		S-S4ZMB7	Standard	Low-Bay Luminaires for Commercial and Industrial Buildings

Accessories (Sold Separately)

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
104819	ML22G4FK	2x2' Flat Panel Flange Kit	
104820	ML24G4FK	2x4' Flat Panel Flange Kit	
104813	ML22G4SMK	2X2 Flat Panel Surface Mount Kit (23.85" L X 24.97" W X 3.7" H)	
104814	ML24G4SMK	2X4 Flat Panel Surface Mount Kit (47.87" L X 24.97" W X 3.7" H)	
104816	MLG4CHK	"Cable Hanging Kit For 2x2 Flat Panel (40" length)"	
104848	ML24G4CHK	"Cable Hanging Kit For 2x4 Flat Panel - 6 Cables (40" length)"	
108566	EBUUP17015N200B **	Emergency Inverter, 15W, 120-347 VAC, CEC Compliant, Field Installable, 0-50C Ambient Lumens Delivered at field install BBU mode (lm):1870 lm - for 90 minutes, when fully charged	
104794	MLFPG4-BBUBRACKET**	BBU Bracket Kit w/ Screws 2X2 2X4 for GEN 5 WCS Flat Panel	

¹ SMK is compatible with EM suffix Batter Back up models. SMK is not compatible with E2 suffix Battery Back up models

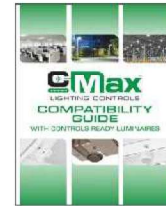
** For Field Install BBU option, purchase BBU model# EBUUP17015N200B along with the mounting bracket MLFPG4-BBUBRACKET for 1x4, or MLFPG4-BBUBRACKET for 2x2/ 2x4. Lumens Delivered at field install BBU mode (lm) 1870 lm - for 90 minutes, when fully charged

** Field Install BBU is NOT compatible with Surface Mount Kit/ SMK

FlatMax High Lumen Controls Ready Flat Panel

MLFP Enhanced Series

c-Max Controls Microsites and Compatibility Guide



Product Compatibility Guide

Compatible Controls (SOLD SEPARATELY)*

The table below shows a small subset of control nodes from each tier that directly plug in with the fixture. Refer to individual microsites above for more accessories that could be added based on application requirements.

ORDER CODE	MODEL NUMBER & LINK TO DATA SHEET	DESCRIPTION	QR CODE TO DATA SHEET	IMAGE
c-Max Basic				
105567	CN-REMOTE	CONTROL NODE REMOTE CONTROL		
105890	CN-RTPSW¹	CONTROL NODE RECTANGULAR, PIR MOTION SENSOR/DAYLIGHT HARVESTING, WHITE		
c-Max Network				
105892	NN-RTW	NETWORK NODE RECTANGULAR, WHITE		
105893	NN-RTDHW	NETWORK NODE RECTANGULAR, DAYLIGHT HARVESTING, WHITE		
106059	NN-RTPSW	NETWORK NODE RECTANGULAR, PIR MOTION SENSOR/DAYLIGHT HARVESTING, WHITE		
c-Max EasyRF				
110961	RF-RTPSW	EasyRF NODE RECTANGULAR, PIR MOTION SENSOR/DAYLIGHT HARVESTING, WHITE		
110962	RF-REMOTE	EasyRF REMOTE CONTROL COMMISSIONING TOOL		
c-Max Network Partners - Silvair				
110431	NN-RTPSW-SL	SILVAIR NETWORK NODE RECTANGULAR, PIR MOTION SENSOR/DAYLIGHT HARVESTING, WHITE		
111148	NN-RTW-SL	SILVAIR NETWORK NODE RECTANGULAR, WHITE		
c-Max Network Partners - Casambi				
112428	NN-RTPSW-CA	CASAMBI NETWORK NODE RECTANGULAR, PIR MOTION SENSOR/DAYLIGHT HARVESTING, WHITE		
112429	NN-RTW-CA	CASAMBI NETWORK NODE RECTANGULAR, WHITE		

¹ Maxlite recommends CN-RTPSW (PIR) sensor for most applications with this fixture. If CN-RTMST(microwave) is required for an application, Maxlite recommends a pilot test to confirm there is no interference that causes unexpected responses from the microwave sensor. For additional options and c-Max network Partners components check Maxlite.com/cmox

* Note - This controls ready fixture is compatible with the c-Max platform supporting multiple tiers of controls. The table above shows a small subset of control nodes from each tier that directly plug in with the fixture. Refer to individual microsite above for more accessories that could be added based on application requirements



FlatMax High Lumen Controls Ready Flat Panel

MLFP Enhanced Series

Specifications

Specifications	MLFP22G530WCSCR			MLFP24G540WCSCR		
Size	2x2’			2x4’		
Nominal Wattage (W)*	30W	40W	50W	40W	50W	60W
Lumens Delivered (lm)*	3750	5000	6250	5000	6250	7500
Nominal Efficacy (lm/W)	125			125		
Lumens Delivered at BBU mode (lm) **	1 300lm with EM suffix. 1870lm with E2 suffix - for 90 minutes, when fully charged					
CCT*	3500K, 4000K, 5000K					
CRI	≥ 80					
Calculated L70 Lumen Maintenance	≥ 100,000 hours					
Dimming Technology	0-10V					
Dimming Range	10-100%					
Input Voltage	120-277V AC 50/60Hz					
Power Factor	≥ 0.90					
Housing	Steel					
Diffuser	Polystyrene Lens					
Operating Temperature	-4°F to 104°F (-20°C to 40°C), except BBU models. BBU models: 41°F to 104°F (5°C to 40°C)					
Humidity	20% to 85% RH non-condensing					
Certifications	ETLus listed, FCC, RoHs Complaint					
Qualifications	DLC Standard Premium					
Environment	Suitable for Damp locations. IC Rated.					
Warranty	10 Years. Check maxlite.com/warranties for details					

*Default setting for WCS models is set to lowest wattage and 4000K.

**Lumens delivered at BBU mode varies based on wattage and CCT setting

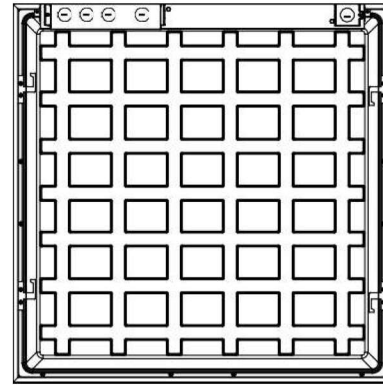
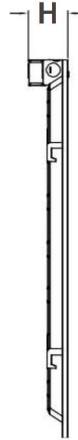
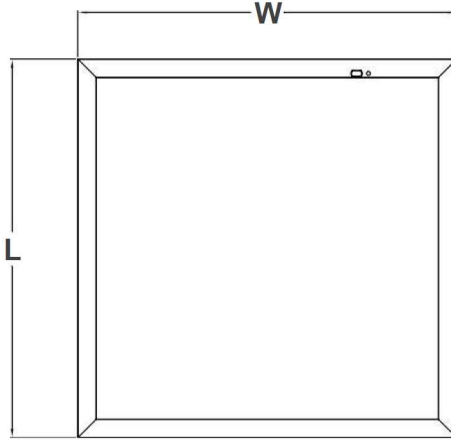
FlatMax High Lumen Controls Ready Flat Panel

MLFP Enhanced Series

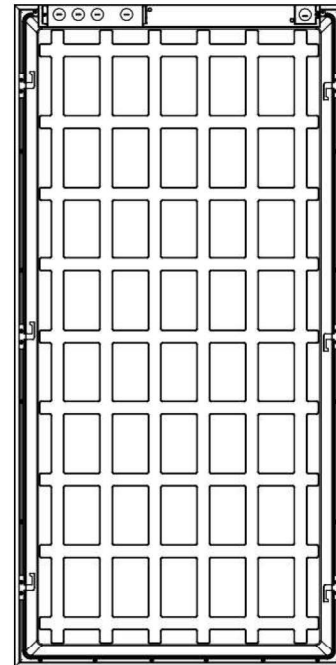
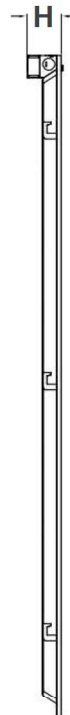
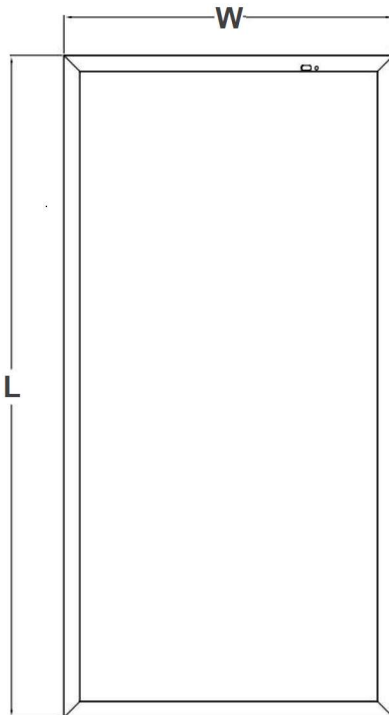
Product Dimensions

PRODUCT	A (L)	B (W)	C (H)	H (EM ADDED)
MLFP22G530WCSCR	23.7 inch	23.7 inch	2.5 inch	3.1 inch
MLFP24G540WCSCR	47.8 inch	23.7 inch		

2x2



2x4



FCC Statement

This device complies with part 15 of the FCC Rules, Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

PROJECT NAME: _____ CAT. #: _____

NOTES: _____ FIXTURE SCHEDULE: _____

Vapor Tight Wattage & CCT Selectable

VE Value Series

Product Description:

A cost-effective vapor tight fixture with tremendous flexibility, the VE Series is both wattage and CCT selectable and provides an emergency batterybackup option. This durable, IP65 rated linear fixture with stainless steel clips is ideal for commercial and industrial environments where water, humidity, and dust may occur, including stairwells, parking garages, utility areas and agricultural applications.

Features:

- CCT and Wattage selectable (9 possible combinations with each fixture)
- 0-10V dimming standard
- CRI: ≥ 80
- Universal voltage 120-277V
- L70 lumen maintenance of 50,000 hours
- Default setting for WCS models is set to lower wattage and 4000K
- UL Listed - Suitable for wet locations

4ft.

8ft.

Ordering Information

FAMILY	SIZE	VOLTAGE	WATTAGE SELECT**	CCT SELECT**	BATTERY BACKUP OPTIONS*
VE= Linear Vapor Tight - Value Series	4= 48" 8= 96"	U= 120-277V	23W= 23/35/47W 65W= 60/70/85W	CS= Color Selectable (3500K/4000K/5000K)	[BLANK]= None EM= Emergency Back-up

*EM unit is UL924 classified

**Default setting for WCS models is set to lowest wattage and 4000K

Stocked Items

ORDER CODE	MODEL NUMBER	DLC PRODUCT ID #	DLC CLASSIFICATION	DLC PRIMARY USE DESIGNATION
111226	VE-4U23WCS	S-6ZDVTQ	DLC Standard	Direct Linear Ambient Luminaires
		S-4TP6RL		Low-Bay Luminaires for Commercial and Industrial Buildings
111228	VE-4U23WCSEM	S-6ZDVTQ		Direct Linear Ambient Luminaires
		S-4TP6RL		Low-Bay Luminaires for Commercial and Industrial Buildings
111227	VE-8U65WCS	S-479C4Y		Direct Linear Ambient Luminaires
		S-S1XYLK		Low-Bay Luminaires for Commercial and Industrial Buildings
111229	VE-8U65WCSEM	S-479C4Y		Direct Linear Ambient Luminaires
		S-S1XYLK		Low-Bay Luminaires for Commercial and Industrial Buildings

Accessories (Sold Separately)

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
74139	MLCHKLSV15	CABLE KIT 15' LOOP X TOGGLE	


5-year standard warranty with labor allowance (further details available at www.maxlite.com/warranties)

Vapor Tight Wattage & CCT Selectable

VE Value Series

Specifications

	VE-4U23WCS		
Size	4 ft.		
Nominal Wattage (W)*	23W	35W	47W
Lumens Delivered (lm)***	3,200 lm	4700 lm	6240 lm
Nominal Efficacy (lm/W)***	150 lm/W		
Lumens Delivered at BBU mode (lm)**	1100 lm - for 90 minutes, when fully charged		
Color Temperature (K)*	3500K, 4000K, 5000K		
CRI	≥80		
Calculated L70 Lumen Maintenance	≥50,000 hours		
Dimming Technology	0-10V		
Dimming Range	10-100%		
Input Voltage	120-277V AC		
Power Factor	≥0.9		
Housing	Polycarbonate		
Diffuser	Polycarbonate Lens		
Product Weight	4.2 lbs		
Humidity	10-80% RH, non-condensing		
Operating Temperature	-4°F to 104°F (-20°C to 40°C), except for EM models. EM models: 50°F to 104°F (10°C to 40°C)		
Certifications	cULus listed, FCC, Rohs Complaint. IP65		
Qualifications	DLC Standard		
Environment	Wet Locations		
Warranty	5 Years warranty. Check maxlite.com/warranties for details		

*Fixtures are set to lowest wattage and 4000K as default factory setting

**Lumens delivered at BBU mode varies based on wattage and CCT setting

*** Lumens and efficacy listed on the Spec table is based on 4000K CCT

Vapor Tight Wattage & CCT Selectable

VE Value Series

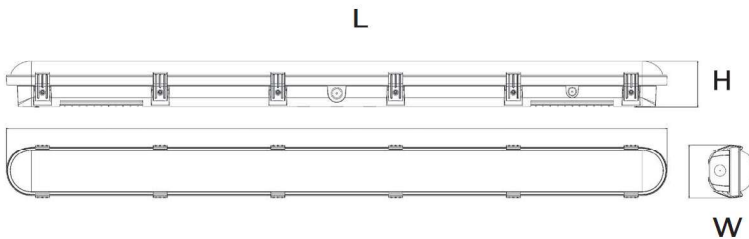
Specifications

	VE-8U65WCS		
Size	8 ft.		
Nominal Wattage (W)*	60W	70W	85W
Lumens Delivered (lm)	8,800 lm	10,000 lm	11,700 lm
Nominal Efficacy (lm/W)	155 lm/W		
Lumens Delivered at BBU mode (lm)**	2300 lm - for 90 minutes, when fully charged		
Color Temperature (K)*	3500K, 4000K, 5000K		
CRI	≥80		
Calculated L70 Lumen Maintenance	≥50,000 hours		
Dimming Technology	0-10V		
Dimming Range	10-100%		
Input Voltage	120-277V AC		
Power Factor	≥0.9		
Housing	Polycarbonate		
Diffuser	Polycarbonate Lens		
Product Weight	8.3 lbs		
Humidity	10-80% RH, non-condensing		
Operating Temperature	-4°F to 104°F (-20°C to 40°C), except for EM models. EM models: 41°F to 104°F (5°C to 40°C)		
Certifications	cULus listed, FCC, RoHS Complaint. IP65		
Qualifications	DLC Standard		
Environment	Wet Locations		
Warranty	5 Years warranty. Check maxlite.com/warranties for details		

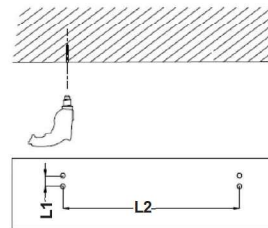
*Fixtures are set to lowest wattage and 4000K as default factory setting

**Lumens delivered at BBU mode varies based on wattage and CCT setting

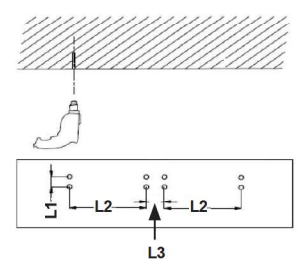
Dimensions



Mounting Hole Dimensions for 4ft



Mounting Hole Dimensions for 8ft



PRODUCT	A (L)	B (W)	C (H)	L1	L2	L3
VE-4U23WCS	47.3"	3.8"	3.2"	1.04"	33.7"	N/A
VE-8U65WCS	94.1"	3.8"	3.2"	1.04"	33.7"	4.72"

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Project	
Date	
Prepared By	
Model #	LSW4WS55CCTWH1

Specifications

ELECTRICAL

Watts: 35, 45 or 55

Voltage:

120-347V

Power Factor: 0.9

Operating Temp. Range:
-20°C (-4°F) to 50°C (122°F)

LIGHT

Lumens: 4200, 5400 or 6600

Lumens per watt: 120

Color Temperature:
3500K, 4000K, 5000K

CRI: 80+

AGENCY APPROVALS

UL Listed: Yes

IP65: Yes

PRODUCT DETAILS

Lens: Frost Polycarbonate

Housing: Sheet metal
stamping

Finish: White

Mount: Wall

Warranty: 5 years

Fixture Rated Life:
50,000 hours

Lumen Maintenance:
L70 > 100,000 hours

Dimensions:
47.9" L x 5.8" W x 4.9" H

LED Stairwell 48"

Color & Wattage Selectable, 120-347V

ORDER CODE:
11897

MODEL NUMBER:
LSW4WS55CCTWH1

COLOR SELECTABLE:
3500K, 4000K, 5000K

LUMEN LEVEL:
4200 lumens - 35 watts
5400 lumens - 45 watts
6600 lumens - 55 watts



Microwave Sensor



PRODUCT DESCRIPTION

EarthTronics LED Stairwell fixture provides the flexibility to ensure the correct light level and color temperature desired in different applications. Select from 3500K, 4000K or 5000K color temperatures as well as 4200, 5400, or 6600 lumen levels, this is easily adjusted in the field. This stairwell fixture is a standard 48" long. It features a high 80+ CRI providing an excellent light source for nearly any task. The fixture body is white painted durable steel with a polycarbonate lens. These stairwell fixtures feature 120-347V wattage operation. They are equipped standard with a 0 - 10 volt continuous dimming driver with a dimming range capability of 10% to 100%.

PRODUCT FEATURES

- + Color selectable: 3500K, 4000K or 5000K
- + Wattage selectable: 35, 45, or 55
- + 120-347 Voltage
- + UL Listed
- + Suitable for dry and damp locations
- + Wall mounting
- + Driver includes dimming control wiring for 0-10V dimming systems
- + L70 > 100,000 hours
- + Long lasting white finish with high durability
- + Microwave sensor available
- + Emergency back-up driver available

PRODUCT DIMENSIONS



OPTIONAL ACCESSORIES



Microwave Sensor
Order Code: 11898



Remote Control for Microwave Sensor
Order Code: 11899



Emergency Back-up Driver & Battery
Order Code: 11639

*Note: 11899 - one remote control for multiple sensors.

PROJECT NAME: _____ CAT. #: _____
 NOTES: _____ FIXTURE SCHEDULE: _____

Vapor Tight Wattage & CCT Selectable

VE Value Series

4ft.



8ft.

Product Description:

A cost-effective vapor tight fixture with tremendous flexibility, the VE Series is both wattage and CCT selectable and provides an emergency batterybackup option. This durable, IP65 rated linear fixture with stainless steel clips is ideal for commercial and industrial environments where water, humidity, and dust may occur, including stairwells, parking garages, utility areas and agricultural applications.

Features:

- CCT and Wattage selectable (9 possible combinations with each fixture)
- 0-10V dimming standard
- CRI: ≥ 80
- Universal voltage 120-277V
- L70 lumen maintenance of 50,000 hours
- Default setting for WCS models is set to lower wattage and 4000K
- UL Listed - Suitable for wet locations

Ordering Information

FAMILY	SIZE	VOLTAGE	WATTAGE SELECT**	CCT SELECT**	BATTERY BACKUP OPTIONS*
VE= Linear Vapor Tight - Value Series	4= 48" 8= 96"	U= 120-277V	23W= 23/35/47W 65W= 60/70/85W	CS= Color Selectable (3500K/4000K/5000K)	[BLANK]= None EM= Emergency Back-up

*EM unit is UL924 classified

**Default setting for WCS models is set to lowest wattage and 4000K

Stocked Items

ORDER CODE	MODEL NUMBER	DLC PRODUCT ID #	DLC CLASSIFICATION	DLC PRIMARY USE DESIGNATION
111226	VE-4U23WCS	S-6ZDVTQ	DLC Standard	Direct Linear Ambient Luminaires
		S-4TP6RL		Low-Bay Luminaires for Commercial and Industrial Buildings
111228	VE-4U23WCSEM	S-6ZDVTQ		Direct Linear Ambient Luminaires
		S-4TP6RL		Low-Bay Luminaires for Commercial and Industrial Buildings
111227	VE-8U65WCS	S-479C4Y		Direct Linear Ambient Luminaires
		S-S1XYLK		Low-Bay Luminaires for Commercial and Industrial Buildings
111229	VE-8U65WCSEM	S-479C4Y		Direct Linear Ambient Luminaires
		S-S1XYLK		Low-Bay Luminaires for Commercial and Industrial Buildings

Accessories (Sold Separately)

ORDER CODE	MODEL NUMBER	DESCRIPTION	IMAGE
74139	MLCHKLSV15	CABLE KIT 15' LOOP X TOGGLE	



5-year standard warranty with labor allowance (further details available at www.maxlite.com/warranties)

Vapor Tight Wattage & CCT Selectable

VE Value Series

Specifications

	VE-4U23WCS		
Size	4 ft.		
Nominal Wattage (W)*	23W	35W	47W
Lumens Delivered (lm)***	3,200 lm	4700 lm	6240 lm
Nominal Efficacy (lm/W)***	150 lm/W		
Lumens Delivered at BBU mode (lm)**	1100 lm - for 90 minutes, when fully charged		
Color Temperature (K)*	3500K, 4000K, 5000K		
CRI	≥80		
Calculated L70 Lumen Maintenance	≥50,000 hours		
Dimming Technology	0-10V		
Dimming Range	10-100%		
Input Voltage	120-277V AC		
Power Factor	≥0.9		
Housing	Polycarbonate		
Diffuser	Polycarbonate Lens		
Product Weight	4.2 lbs		
Humidity	10-80% RH, non-condensing		
Operating Temperature	-4°F to 104°F (-20°C to 40°C), except for EM models. EM models: 50°F to 104°F (10°C to 40°C)		
Certifications	cULus listed, FCC, Rohs Complaint. IP65		
Qualifications	DLC Standard		
Environment	Wet Locations		
Warranty	5 Years warranty. Check maxlite.com/warranties for details		

*Fixtures are set to lowest wattage and 4000K as default factory setting

**Lumens delivered at BBU mode varies based on wattage and CCT setting

*** Lumens and efficacy listed on the Spec table is based on 4000K CCT

Vapor Tight Wattage & CCT Selectable

VE Value Series

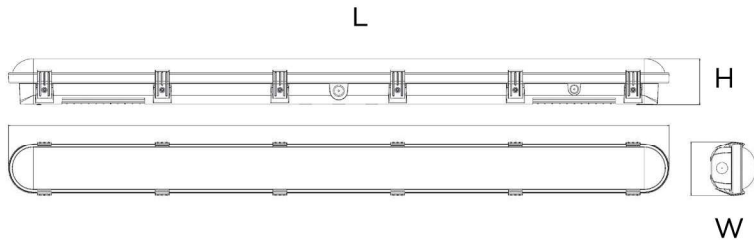
Specifications

	VE-8U65WCS		
Size	8 ft.		
Nominal Wattage (W)*	60W	70W	85W
Lumens Delivered (lm)	8,800 lm	10,000 lm	11,700 lm
Nominal Efficacy (lm/W)	155 lm/W		
Lumens Delivered at BBU mode (lm)**	2300 lm - for 90 minutes, when fully charged		
Color Temperature (K)*	3500K, 4000K, 5000K		
CRI	≥80		
Calculated L70 Lumen Maintenance	≥50,000 hours		
Dimming Technology	0-10V		
Dimming Range	10-100%		
Input Voltage	120-277V AC		
Power Factor	≥0.9		
Housing	Polycarbonate		
Diffuser	Polycarbonate Lens		
Product Weight	8.3 lbs		
Humidity	10-80% RH, non-condensing		
Operating Temperature	-4°F to 104°F (-20°C to 40°C), except for EM models. EM models: 41°F to 104°F (5°C to 40°C)		
Certifications	cULus listed, FCC, Rohs Complaint. IP65		
Qualifications	DLC Standard		
Environment	Wet Locations		
Warranty	5 Years warranty. Check maxlite.com/warranties for details		

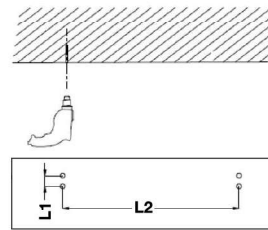
*Fixtures are set to lowest wattage and 4000K as default factory setting

**Lumens delivered at BBU mode varies based on wattage and CCT setting

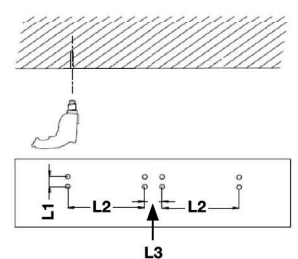
Dimensions



Mounting Hole Dimensions for 4ft



Mounting Hole Dimensions for 8ft



PRODUCT	A (L)	B (W)	C (H)	L1	L2	L3
VE-4U23WCS	47.3"	3.8"	3.2"	1.04"	33.7"	N/A
VE-8U65WCS	94.1"	3.8"	3.2"	1.04"	33.7"	4.72"

FCC Statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

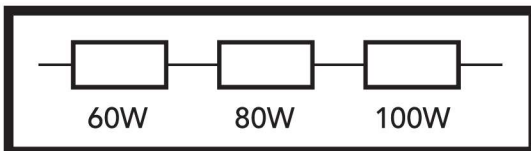
EXHIBIT F



UFO HIGH BAY - WATTAGE AND CCT SELECTABLE

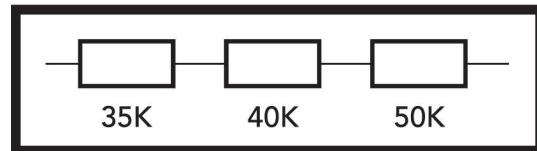


WATTAGE



60W: 60, 80, 100W selectable

3 COLOR TEMP OPTIONS



3 selectable lumen outputs to choose:
140 lm/W for **35K** and **50K**, 160 lm/W for **40K**



IP65



WATTAGE
SELECTABLE

CCT
SELECTABLE

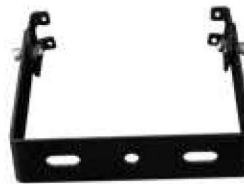


MOUNTING OPTIONS

Each UFO High Bay fixture comes with a standard hanging hook and a 9-foot cord but optional mounting is available.

Yoke Mounting Bracket

PRODUCT NUMBER:
ZL-YOKE-BRACKET-100W-TS
ZL-YOKE-BRACKET-150W-TS
ZL-YOKE-BRACKET-240W-TS



APPLICATIONS



APPLICATIONS

- Warehouses
- Stadiums
- Factories
- Big Box Stores
- Supermarkets
- Distribution and Convention Centers

OPTIONS



Plastic Reflector

PRODUCT NUMBER:
ZL-90DEG-PC-REFLECTOR-TS



90 Degree
Aluminum Reflector

PRODUCT NUMBER:
ZL-AL-REFLECTOR-150-TS



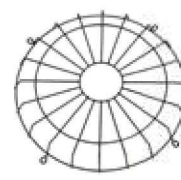
Emergency Kit

PRODUCT NUMBER:
ZL-EMKIT-100/240W-TS



Microwave Motion
Sensor Kit

PRODUCT NUMBER:
ZL-12V-MW-SENSOR-TS



Wire Guard

PRODUCT NUMBER:
ZL-WIREGUARD-150W-TS

SPECIFICATIONS

MODEL	WATTAGES	INPUT VOLTAGE	COLOR TEMPS	BEAM ANGLES	Ra	CORD LENGTH
100W	60W, 80W, 100W selectable	100-277V	35K, 40K, 50K selectable	85 degrees	>80	9 ft

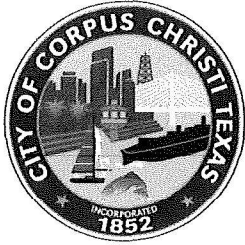
PRODUCT BUILDER

ex: ZL-UFO-60/80/100W-30/40/50L-D-TS

PRODUCT NUMBER	WATTAGE	COLOR TEMP.	MODEL
ZL-UFO	60/80/100W	35/40/50K	D-TS

LUMENS

	35K	40K	50K
60W	8040	8520	8100
80W	10720	11440	10720
100W	14087	14979	14060



**CITY OF CORPUS CHRISTI
CONTRACTS AND PROCUREMENT
BID FORM**

**RFB No. 6764
LED Lighting Replacement for CCIA**

PAGE 1 OF 3

Date: 10/14/2025

Bidder: James Hernandez C/O
Landmark Electric Co.

Authorized
Signature:

James Hernandez

1. Refer to "Instructions to Bidders" and Contract Terms and Conditions before completing bid.
2. Quote your best price for each group.
3. In submitting this bid, Bidder certifies that:
 - a. The prices in this bid have been arrived at independently, without consultation, communication, or agreement with any other Bidder or competitor, for the purpose of restricting competition with regard to prices.
 - b. Bidder is an Equal Opportunity Employer, and the Disclosure of Interest information on file with the City's Contracts and Procurement office, pursuant to the Code of Ordinances, is current and true.
 - c. The bidder is current on all taxes due, and the company is in good standing with all applicable governmental agencies.
 - d. Bidder acknowledges receipt and review of all addenda for this RFB.

Group A - Apron					
Item	Description	UNIT	QTY	Unit Price	Total Price
1	Mobilization/Equipment/Material/Traffic Control	LS	1	6,500.00	6,500.00
2	Haul off fixtures, Trash, Clean-up	LS	1	3,500.00	3,500.00
3	LED Flood Lighting Fixtures with Visors Light Poles Approximately 40 Ft.	EA	33	2,350.74	77,574.42
4	LED Floodlighting Fixtures with Visor (Building Mounted)	EA	4	813.07	3,252.28
5	LED Flood Lighting Fixtures	EA	22	406.21	8,936.62
Total					99,763.32

Group B – Hangar Lane

Item	Description	UNIT	QTY	Unit Price	Total Price
1	Mobilization/Equipment/Material/Traffic Control	LS	1	3,500.00	3,500.00
2	Haul off fixtures, Trash, Clean-up	LS	1	2,750.00	2,750.00
3	Double Head – Light Poles Approximately 30 Ft	EA	3	1,742.30	5,226.90
4	Signal Head – Light Poles Approximately 30 Ft	EA	8	871.15	6,969.20
Total					18,446.10

Group C – International Drive

Item	Description	UNIT	QTY	Unit Price	Total Price
1	Mobilization/Equipment/Material/Traffic Control	LS	1	11,750.00	11,750.00
2	Haul off fixtures, Trash, Clean-up	LS	1	5,500.00	5,500.00
3	Double Head – Light Poles, Approximately 30 Ft.	EA	8	1,595.54	12,764.32
4	Signal Head – Light Poles, Approximately 30 Ft.	EA	34	860.24	29,248.16
5	Double-Headed – Light Poles, Approximately 10 Ft	EA	1	1,112.48	1,112.48
6	Signal Head – Light Poles, Approximately 10 Ft.	EA	3	556.24	1,668.72
Total					62,043.68

Group D – Covered Parking Lot

Item	Description	UNIT	QTY	Unit Price	Total Price
1	Mobilization/Equipment/Material/Traffic Control	LS	1	5,000.00	5,000.00
2	Haul off fixtures, Trash, and Clean-up	LS	1	6,000.00	6,000.00
3	Light Fixture Part 40W LED/Labor	EA	176	298.04	52,455.04
Total					63,455.04

Group E – AARF Station

Item	Description	UNIT	QTY	Unit Price	Total Price
1	Mobilization/Equipment/Material/Traffic Control	LS	1	4,950.00	4,950.00
2	Haul off fixtures, Trash, Clean-up	LS	1	3,250.00	3,000.00 \$3,250.00
3	Exterior Wall Mounted	EA	12	361.08	4,332.96
4	Garage Bay & Storage Area Fixtures	EA	23	533.47	12,269.81
5	Garage Bay Flood Lights	EA	4	334.00	1,336.00
6	Interior Light Fixtures	EA	37	204.00	7,548.00
7	Men/Women Locker Recessed Lamp	EA	2	172.57	345.14
8	Men/Women Sleeping Quarters Fixtures w/dimmers	EA	8	193.30	1,546.40
Total					35,328.31 \$35,578.31

Group F – Terminal Canopy

Item	Description	UNIT	QTY	Unit Price	Total Price
1	Mobilization/Equipment/Material/Traffic Control	LS	1	4,450.00	4,450.00
2	Haul off fixtures, Trash, and Clean-up	LS	1	3,750.00	3,750.00
3	Light Fixture 60W-100W UFO LED/Labor	EA	60	308.06	18,483.60
Total					26,683.60

ATTACHMENT C: INSURANCE AND BOND REQUIREMENTS

I. CONTRACTOR'S LIABILITY INSURANCE

- A. Contractor must not commence work under this agreement until all insurance required has been obtained and such insurance has been approved by the City. Contractor must not allow any subcontractor Agency to commence work until all similar insurance required of any subcontractor Agency has been obtained.
- B. Contractor must furnish to the City's Risk Manager and Contract Administer one (1) copy of Certificates of Insurance (COI) with applicable policy endorsements showing the following minimum coverage by an insurance company(s) acceptable to the City's Risk Manager. The City must be listed as an additional insured on the General liability and Auto Liability policies **by endorsement**, and a waiver of subrogation is required on all applicable policies. **Endorsements** must be provided with COI. Project name and or number must be listed in Description Box of COI.

TYPE OF INSURANCE	MINIMUM INSURANCE COVERAGE
Commercial General Liability Including: 1. Commercial Broad Form 2. Premises – Operations 3. Products/Completed Operations 4. Contractual Liability 5. Independent Contractors 6. Personal Injury- Advertising Injury	\$1,000,000 Per Occurrence
AUTO LIABILITY (including) 1. Owned 2. Hired and Non-Owned 3. Rented/Leased	\$500,000 Combined Single Limit
WORKERS' COMPENSATION	Statutory
EMPLOYER'S LIABILITY	\$500,000 /\$500,000 /\$500,000

- C. In the event of accidents of any kind related to this agreement, Contractor must furnish the Risk Manager with copies of all reports of any accidents within 10 days of the accident.

II. ADDITIONAL REQUIREMENTS

- A. Applicable for paid employees, Contractor must obtain workers' compensation coverage through a licensed insurance company. The coverage must be written on a policy and endorsements approved by the Texas Department of Insurance. The workers' compensation coverage provided must be in an amount sufficient to assure that all workers' compensation obligations incurred by the Contractor will be promptly met.
- B. Contractor shall obtain and maintain in full force and effect for the duration of this Contract, and any extension hereof, at Contractor's sole expense, insurance coverage written on an occurrence basis, by companies authorized and admitted to do business in the State of Texas and with an A.M. Best's rating of no less than A- VII.
- C. Contractor shall be required to submit a copy of the replacement certificate of insurance to City at the address provided below within 10 days of the requested change. Contractor shall pay any costs incurred resulting from said changes. All notices under this Article shall be given to City at the following address:

City of Corpus Christi
Attn: Risk Manager
P.O. Box 9277
Corpus Christi, TX 78469-9277

- D. **Contractor agrees that with respect to the above required insurance, all insurance policies are to contain or be endorsed to contain the following required provisions:**
- List the City and its officers, officials, employees, volunteers, and elected representatives as additional insured by endorsement, as respects operations, completed operation and activities of, or on behalf of, the named insured performed under contract with the City, with the exception of the workers' compensation policy;
 - Provide for an endorsement that the "other insurance" clause shall not apply to the City of Corpus Christi where the City is an additional insured shown on the policy;
 - Workers' compensation and employers' liability policies will provide a waiver of subrogation in favor of the City; and
 - Provide 30 calendar days advance written notice directly to City of any, cancellation, non-renewal, material change or termination in coverage and not less than 10 calendar days advance written notice for nonpayment of premium.
- E. Within 5 calendar days of a cancellation, non-renewal, material change or termination of coverage, Contractor shall provide a replacement Certificate of Insurance and applicable endorsements to City. City shall have the option to suspend Contractor's performance should there be a lapse in coverage at any time during this contract.

Failure to provide and to maintain the required insurance shall constitute a material breach of this contract.

- F. In addition to any other remedies the City may have upon Contractor's failure to provide and maintain any insurance or policy endorsements to the extent and within the time herein required, the City shall have the right to order Contractor to remove the exhibit hereunder, and/or withhold any payment(s) if any, which become due to Contractor hereunder until Contractor demonstrates compliance with the requirements hereof.
- G. Nothing herein contained shall be construed as limiting in any way the extent to which Contractor may be held responsible for payments of damages to persons or property resulting from Contractor's or its subcontractor's performance of the work covered under this agreement.
- H. It is agreed that Contractor's insurance shall be deemed primary and non-contributory with respect to any insurance or self insurance carried by the City of Corpus Christi for liability arising out of operations under this agreement.
- I. It is understood and agreed that the insurance required is in addition to and separate from any other obligation contained in this agreement.

BOND REQUIREMENTS:

There are no bonds for this service agreement.

2025 Insurance Requirements

Ins. Req. Exhibit **4-B**

Contracts for General Services – Services Performed Onsite

01/01/2025 Risk Management – Legal Dept.

ATTACHMENT D: WARRANTY REQUIREMENTS

The Contractor shall provide a one-year warranty on labor and manufacturer warranty on new parts.

ATTACHMENT E: FEDERAL REQUIREMENTS

FEDERAL REQUIREMENTS

TABLE OF CONTENTS

Section No.	Title
FR-A1	Access to Records and Reports
FR-A3	Breach of Contract
FR-A4	Buy American Preference
FR-A5	Civil Rights - General
FR-A6	Civil Rights - Title VI Assurance
FR-A7	Clean Air and Water Pollution Control
FR-A10	Davis-Bacon Requirements
FR-A11	Debarment and Suspension
FR-A12	Disadvantaged Business Enterprise
FR-A13	Distracted Driving
FR-A14	Energy Conservation Requirements
FR-A16	Federal Fair Labor Standards Act (Federal Minimum Wage)
FR-A17	Lobbying and Influencing Federal Employees
FR-A19	Occupational Safety and Health Act of 1970
FR-A20	Procurement of Recovered Materials

Section No.	Title
FR-A23	Termination of Contract
FR-A24	Trade Restriction Certification
FR-A25	Veteran's Preference

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FEDERAL REQUIREMENTS: FR-A1

ACCESS TO RECORDS AND REPORTS

The Contractor shall maintain an acceptable cost accounting system. The Contractor agrees to provide the City, the Federal Aviation Administration, and the Comptroller General of the United States, or any of their duly authorized representatives, access to any books, documents, papers, and records of the Contractor which are directly pertinent to the specific Contract for the purpose of making audit, examination, excerpts and transcriptions. The Contractor agrees to maintain all books, records and reports required under this Contract for a period of not less than three years after final payment is made and all pending matters are closed.

Reference: 2 CFR § 200.333, 2 CFR § 200.336 & FAA Order 5100.38

FEDERAL REQUIREMENTS: FR-A3

BREACH OF CONTRACT

Any violation or breach of terms of this Contract on the part of the Contractor or its subcontractors may result in the suspension or termination of this Contract or such other action that may be necessary to enforce the rights of the parties of this agreement.

City will provide Contractor written notice that describes the nature of the breach and corrective actions the Contractor must undertake in order to avoid termination of the Contract. City reserves the right to withhold payments to Contractor until such time the Contractor corrects the breach or the City elects to terminate the Contract. The City's notice will identify a specific date by which the Contractor must correct the breach. City may proceed with termination of the Contract if the Contractor fails to correct the breach by deadline indicated in the City's notice.

The duties and obligations imposed by the Contract documents and the rights and remedies available thereunder are in addition to, and not a limitation of, any duties, obligations, rights and remedies otherwise imposed or available by law.

Reference: 2 CFR § 200 Appendix II(A)

FEDERAL REQUIREMENTS: FR-A4

BUY AMERICAN PREFERENCE

PURPOSE

The purpose of this Administrative and Legal Requirements Document (ALRD) is to provide guidance to States, Local Governments, and Indian tribes for preparation of EECBG Program Formula Grant applications submitted in response to Section 40552 of the Infrastructure Investment and Jobs Act (IIJA) also known as the Bipartisan Infrastructure Law (BIL).

The Contractor agrees to comply with 49 USC § 50101, which provides that Federal funds may not be obligated unless all steel and manufactured goods used in AIP funded projects are produced in the United States, unless the FAA has issued a waiver for the product; the product is listed as an Excepted Article, Material Or Supply in Federal Acquisition Regulation subpart 25.108; or is included in the FAA Nationwide Buy American Waivers Issued list.

A bidder or offeror must complete and submit the Buy America certification included herein with their bid or offer. The City will reject as nonresponsive any bid or offer that does not include a completed Certificate of Buy American Compliance.

Reference: 49 USC § 50101

FEDERAL REQUIREMENTS: FR-A5

CIVIL RIGHTS - GENERAL

The contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision binds the contractor and subtier contractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required of Title VI of the Civil Rights Act of 1964.

Reference: 49 USC § 47123

FEDERAL REQUIREMENTS: FR-A6

CIVIL RIGHTS - TITLE VI ASSURANCE

Compliance with Nondiscrimination Requirements

During the performance of this contract, the contractor, for itself, its assignees and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

- 1. Compliance with Regulations:** The contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts And Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.
- 2. Nondiscrimination:** The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate either directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR, part 21.
- 3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment:** In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Nondiscrimination Acts And Authorities on the grounds of race, color, or national origin.
- 4. Information and Reports:** The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the City or the Federal Aviation Administration to be pertinent to ascertain compliance with such Nondiscrimination Acts And Authorities and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the City or the Federal Aviation Administration, as appropriate, and will set forth what efforts it has made to obtain the information.
- 5. Sanctions for Noncompliance:** In the event of a contractor's noncompliance with the Nondiscrimination provisions of this contract, the City will impose such contract sanctions as it or the Federal Aviation Administration may determine to be appropriate, including, but not limited to:

a. Withholding of payments to the contractor under the contract until the contractor complies; and/or

b. Cancelling, terminating, or suspending a contract, in whole or in part.

- 6. Incorporation of Provisions:** The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the City or the Federal Aviation Administration may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with, litigation with a subcontractor, or supplier because of such direction, the contractor may request the City to enter into any litigation to protect the interests of the City. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States.

Title VI List of Pertinent Nondiscrimination Acts and Authorities

During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d *et seq.*, 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin);
- 49 CFR part 21 (Non-discrimination In Federally-Assisted Programs of The Department of Transportation—Effectuation of Title VI of The Civil Rights Act of 1964);
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 *et seq.*), as amended, (prohibits discrimination on the basis of disability); and 49 CFR part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 *et seq.*), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 USC § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);

- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms “programs or activities” to include all of the programs or activities of the Federal-aid recipients, subrecipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act of 1990, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 CFR parts 37 and 38;
- The Federal Aviation Administration’s Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures non-discrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. 1681 et seq).

Reference: 49 USC § 47123 and FAA Order 1400.11

FEDERAL REQUIREMENTS: FR-A7

CLEAN AIR AND WATER POLLUTION CONTROL

Contractor agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 U.S.C. § 740-7671q) and the Federal Water Pollution Control Act as amended (33 U.S.C. § 1251-1387). The Contractor agrees to report any violation to the City immediately upon discovery. The City assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration.

Contractor must include this requirement in all subcontracts that exceed \$150,000.

Reference: 2 CFR § 200, Appendix II(G)

FEDERAL REQUIREMENTS: FR-A10

A10 DAVIS-BACON REQUIREMENTS

A10.1 SOURCE

2 CFR § 200, Appendix II(D)

29 FR Part 5

A10.2 APPLICABILITY

The Davis-Bacon Act ensures that laborers and mechanics employed under the contract receive pay no less than the locally prevailing wages and fringe benefits as determined by the Department of Labor.

Contract Types –

Construction – Incorporate into all construction contracts and subcontracts that exceed \$2,000 and include funding from the AIP.

Equipment – This provision applies to all equipment installation projects (e.g. electrical vault improvements) financed under the AIP that exceed \$ 2, 000. This provision does not apply to equipment acquisitions where the equipment is manufactured at the vendor's plant (e.g. SRE and ARFF vehicles)

Professional Services – The emergence of different project delivery methods has created situations where Professional Service Agreements (PSAs) includes tasks that meet the definition of construction, alteration, or repair as defined in 29 CFR Part 5. If such tasks result in work that qualifies as construction, alteration, or repair and it exceeds \$2,000, the PSA must incorporate this clause.

Property – Ordinarily, land acquisition projects would not involve employment of laborers or mechanics and thus the provision would not apply. However, land projects that involve installation of boundary fencing and demolition of structures would involve laborers and mechanics. The sponsor must include this provision if the land acquisition project involves employment of laborers or mechanics for a contract exceeding \$2,000.

Fencing Projects – Fencing projects that exceed \$2,000 must include this provision.

Use of Provision – MANDATORY TEXT. 29 CFR part 5 establishes specific language a sponsor must use. The sponsor may not make any modification to the standard language. A/E firms that employ laborers and mechanics on a task that meets the definition of construction, alteration, or repair are acting as a contractor. The sponsor may not substitute the term “Contractor” for “Consultant” in such instances.

A10.3 CONTRACT CLAUSE

DAVIS-BACON REQUIREMENTS

1. Minimum Wages.

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by the Secretary of Labor under the Copeland Act (29 CFR Part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalent thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the Contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided* that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under (1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the Contractor and its subcontractors at the site of the work in a prominent and accessible place where it can easily be seen by the workers.

(ii)(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination;

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the Contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days

of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the Contractor, the laborers, or mechanics to be employed in the classification, or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii) (B) or (C) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the Contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program: *Provided* that the Secretary of Labor has found, upon the written request of the Contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the Contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding.

The Federal Aviation Administration or the sponsor shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the Contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the Contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of work, all or part of the wages required by the contract, the Federal Aviation Administration may, after written notice to the Contractor, Sponsor, Applicant, or Owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

3. Payrolls and Basic Records.

(i) Payrolls and basic records relating thereto shall be maintained by the Contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker; his or her correct classification; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in

1(b)(2)(B) of the Davis-Bacon Act); daily and weekly number of hours worked; deductions made; and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the Contractor shall maintain records that show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and that show the costs anticipated or the actual costs incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii)(A) The Contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit the payrolls to the applicant, Sponsor, or Owner, as the case may be, for transmission to the Federal Aviation Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (*e.g.* the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at www.dol.gov/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker and shall provide them upon request to the Federal Aviation Administration if the agency is a party to the contract, but if the agency is not such a party, the Contractor will submit them to the applicant, sponsor, or Owner, as the case may be, for transmission to the Federal Aviation Administration, the Contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the sponsoring government agency (or the applicant, Sponsor, or Owner).

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) The payroll for the payroll period contains the information required to be provided under 29 CFR § 5.5(a)(3)(ii), the appropriate information is being maintained under 29 CFR § 5.5 (a)(3)(i), and that such information is correct and complete;

(2) Each laborer and mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations 29 CFR Part 3;

(3) Each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (3)(ii)(B) of this section.

(D) The falsification of any of the above certifications may subject the Contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The Contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the sponsor, the Federal Aviation Administration, or the Department of Labor and shall permit such representatives to interview employees during working hours on the job. If the Contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the Contractor, Sponsor, applicant, or Owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and Trainees.

(i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the Contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that

determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the Contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination that provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate that is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the Contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal Employment Opportunity. The utilization of apprentices, trainees, and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

5. Compliance with Copeland Act Requirements.

The Contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.

6. Subcontracts.

The Contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR Part 5.5(a)(1) through (10) and such other clauses as the Federal Aviation Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR Part 5.5.

7. Contract Termination: Debarment.

A breach of the contract clauses in paragraph 1 through 10 of this section may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act Requirements.

All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes Concerning Labor Standards.

Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the Contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of Eligibility.

(i) By entering into this contract, the Contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the Contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 USC 1001.

FEDERAL REQUIREMENTS: FR-A11

CERTIFICATION OF OFFEROR/BIDDER REGARDING DEBARMENT

By submitting a bid/proposal under this solicitation, the Contractor certifies that neither it nor its principals is presently debarred or suspended by any Federal department or agency from participation in this transaction.

The successful bidder, by administering each lower tier subcontract that exceeds \$25,000 as a "covered transaction," must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

1. Checking the System for Award Management at website: <http://www.sam.gov>
2. Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above.
3. Inserting a clause or condition in the covered transaction with the lower tier contract.

If the FAA later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedies, including suspension and debarment of the non-compliant participant.

Reference: 2 CFR part 180 (Subpart C), 2 CFR part 1200, DOT Order 4200.5

FEDERAL REQUIREMENTS: FR-A12

DISADVANTAGED BUSINESS ENTERPRISE

Contract Assurance (§26.13) - The Contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this Contract or such other remedy, as the recipient deems appropriate.

Prompt Payment (§26.29) - The prime contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contract no later than **10** days from the receipt of each payment the prime contractor receives from the City. The prime contractor agrees further to return retainage payments to each subcontractor within **30** days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the City. This clause applies to both DBE and non-DBE subcontractors.

Reference: 49 CFR part 26

FEDERAL REQUIREMENTS: FR-A13

TEXTING WHEN DRIVING

In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), the FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

In support of this initiative, the City encourages the Contractor to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The Contractor must include the substance of this clause in all sub-tier contracts exceeding \$3,500 and involve driving a motor vehicle in performance of work activities associated with the project.

Reference: Executive Order 13513 and DOT Order 3902.10

FEDERAL REQUIREMENTS: FR-A14

ENERGY CONSERVATION REQUIREMENTS

The Contractor and subcontractor agree to comply with mandatory standards and policies relating to energy efficiency as contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 U.S.C. 6201 *et seq*).

Reference: 2 CFR § 200, Appendix II(H)

FEDERAL REQUIREMENTS: FR-A16

FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE)

All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part time workers.

The Contractor has full responsibility to monitor compliance to the referenced statute or regulation. The Contractor must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

Reference: 29 U.S.C. § 201, et seq.

FEDERAL REQUIREMENTS: FR-A17

CERTIFICATION REGARDING LOBBYING

The bidder or offeror certifies by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the Bidder or Offeror, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Reference: 31 U.S.C. § 1352 – Byrd Anti-Lobbying Amendment, 2 CFR part 200, Appendix II(J) and 49 CFR part 20, Appendix A

FEDERAL REQUIREMENTS: FR-A19

OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970

All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. Contractor must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The Contractor retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). Contractor must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

Reference: 20 CFR part 1910

FEDERAL REQUIREMENTS: FR-A20

PROCUREMENT OF RECOVERED MATERIALS

Contractor and subcontractor agree to comply with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act, and the regulatory provisions of 40 CFR Part 247. In the performance of this Contract and to the extent practicable, the Contractor and subcontractors are to use products containing the highest percentage of recovered materials for items designated by the Environmental Protection Agency (EPA) under 40 CFR Part 247 whenever:

- a) The contract requires procurement of \$10,000 or more of a designated item during the fiscal year; or,
- b) The Contractor has procured \$10,000 or more of a designated item using Federal funding during the previous fiscal year.

The list of EPA-designated items is available at
www.epa.gov/epawaste/conserve/tools/cpg/products/.

Section 6002(c) establishes exceptions to the preference for recovery of EPA-designated products if the Contractor can demonstrate the item is:

- a) Not reasonably available within a timeframe providing for compliance with the contract performance schedule;
- b) Fails to meet reasonable contract performance requirements; or
- c) Is only available at an unreasonable price.

Reference: 2 CFR § 200.322 and 40 CFR part 247

FEDERAL REQUIREMENTS: FR-A23

TERMINATION OF CONTRACT

Termination for Convenience (Construction & Equipment Contracts)

The City may terminate this Contract in whole or in part at any time by providing written notice to the Contractor. Such action may be without cause and without prejudice to any other right or remedy of City. Upon receipt of a written notice of termination, except as explicitly directed by the City, the Contractor shall immediately proceed with the following obligations regardless of any delay in determining or adjusting amounts due under this clause:

1. Contractor must immediately discontinue work as specified in the written notice.
2. Terminate all subcontracts to the extent they relate to the work terminated under the notice.
3. Discontinue orders for materials and services except as directed by the written notice.
4. Deliver to the City all fabricated and partially fabricated parts, completed and partially completed work, supplies, equipment and materials acquired prior to termination of the work and as directed in the written notice.
5. Complete performance of the work not terminated by the notice.
6. Take action as directed by the City to protect and preserve property and work related to this Contract that City will take possession.

City agrees to pay Contractor for:

- a) completed and acceptable work executed in accordance with the contract documents prior to the effective date of termination;
- b) documented expenses sustained prior to the effective date of termination in performing work and furnishing labor, materials, or equipment as required by the contract documents in connection with uncompleted work;
- c) reasonable and substantiated claims, costs and damages incurred in settlement of terminated contracts with Subcontractors and Suppliers; and
- d) reasonable and substantiated expenses to the Contractor directly attributable to City's termination action.

City will not pay Contractor for loss of anticipated profits or revenue or other economic loss arising out of or resulting from the City's termination action.

The rights and remedies this clause provides are in addition to any other rights and remedies provided by law or under this Contract.

Termination for Default (Equipment)

The City may, by written notice of default to the Contractor, terminate all or part of this Contract if the Contractor:

1. Fails to commence the Work under the Contract within the time specified in the Notice- to Proceed;
2. Fails to make adequate progress as to endanger performance of this Contract in accordance with its terms;
3. Fails to make delivery of the equipment within the time specified in the Contract, including any City approved extensions;
4. Fails to comply with material provisions of the Contract;
5. Submits certifications made under the Contract and as part of their proposal that include false or fraudulent statements; or
6. Becomes insolvent or declares bankruptcy.

If one or more of the stated events occur, the City will give notice in writing to the Contractor and Surety of its intent to terminate the Contract for cause. At the City's discretion, the notice may allow the Contractor and Surety an opportunity to cure the breach or default.

If within 10 days of the receipt of notice, the Contractor or Surety fails to remedy the breach or default to the satisfaction of the City, the City has authority to acquire equipment by other procurement action. The Contractor will be liable to the City for any excess costs the City incurs for acquiring such similar equipment.

Payment for completed equipment delivered to and accepted by the City shall be at the Contract price. The City may withhold from amounts otherwise due the Contractor for such completed equipment such sum as the City determines to be necessary to protect the City against loss because of Contractor default.

City will not terminate the Contractor's right to proceed with the Work under this clause if the delay in completing the work arises from unforeseeable causes beyond the control

and without the fault or negligence of the Contractor. Examples of such acceptable causes include: acts of God, acts of the City, acts of another Contractor in the performance of a contract with the City, and severe weather events that substantially exceed normal conditions for the location.

If, after termination of the Contractor's right to proceed, the City determines that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the City issued the termination for the convenience of the City.

The rights and remedies of the City in this clause are in addition to any other rights and remedies provided by law or under this Contract.

Reference: 2 CFR § 200 Appendix II(B), FAA Advisory Circular 150/5370-10, Section 80-09

FEDERAL REQUIREMENTS: FR-A24

TRADE RESTRICTION CERTIFICATION

By submission of an offer, the Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror –

- a. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms as published by the Office of the United States Trade Representative (U.S.T.R.);
- b. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the U.S.T.R.; and
- c. has not entered into any subcontract for any product to be used on the Federal on the project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18, United States Code, Section 1001.

The Offeror/Contractor must provide immediate written notice to the City if the Offeror/Contractor learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Contractor must require subcontractors provide immediate written notice to the Contractor if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an Offeror or subcontractor:

- (1) who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the U.S.T.R. or
- (2) whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such U.S.T.R. list or
- (3) who incorporates in the public works project any product of a foreign country on such U.S.T.R. list;

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a Contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The Offeror agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in in all lower tier subcontracts. The Contractor may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by U.S.T.R, unless the Offeror has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Contractor or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration may direct through the City cancellation of the Contract or subcontract for default at no cost to the City or the FAA.

Reference: 49 USC § 50104 and 49 CFR part 30

FEDERAL REQUIREMENTS: FR-A25

VETERAN'S PREFERENCE

In the employment of labor (excluding executive, administrative, and supervisory positions), the Contractor and all sub-tier contractors must give preference to covered veterans as defined within Title 49 United States Code Section 47112. Covered veterans include Vietnam-era veterans, Persian Gulf veterans, Afghanistan-Iraq war veterans, disabled veterans, and small business concerns (as defined by 15 U.S.C. 632) owned and controlled by disabled veterans. This preference only applies when there are covered veterans readily available and qualified to perform the work to which the employment relates.

Reference: 49 USC § 47112(c)