



1831 EAST 73RD AVENUE UNIT B • DENVER, COLORADO 80229 • 303.288.3152 FAX 303.288.1029 • CLI-SERVICES.COM

Town of Frisco

Meadow Creek Park

Exterior Lighting Addition

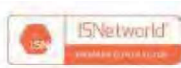
2022



Prepared for: Addison Canino and Chris Johnsen

Prepared By: Kevin Milner

02/25/2022



February 25, 2022

Town of Frisco
c/o Addison Canino and Chris Johnsen
PO Box 4100
Frisco, CO 80443

Subject: Lighting at Meadow Creek Park

Addison and Chris:

Thank you for giving us the opportunity to bid on the Lighting at Meadow Creek Park project. Colorado Lighting Inc. dba CLI Services is a Colorado based lighting and electrical contractor with a wide breadth of capabilities and over 45 years of experience. CLI Services is an industry leader in the electrical, lighting retrofit, lighting design, and lighting controls field and highly capable of implementing the Meadow Creek Park lighting addition.

Some of the advantages to working with CLI Services are:

- 1) We staff Master Electricians, Journeymen Electricians and NALMCO Certified Lighting Technicians.
- 2) Our on-staff Engineers specialize in lighting design and photometric layouts. We have attached photometric layouts for each lighting option within the bid package.
- 3) We have several lighting, electrical and energy efficiency industry credentials including Certified Lighting Efficiency Professional (CLEP), Certified Sustainable Lighting Consultant (CSLC), and Leadership in Energy and Environmental Design (LEED AP).
- 4) We have a full safety program in place administered by a 3rd party. Routine safety meetings keep our field auditors, electricians, and technicians updated on industry safety protocols.
- 5) CLI Services is a certified woman owned business.

We currently employ over 95 well trained employees who are committed to giving our customers the best service possible. We look forward to working with you on this project.

Sincerely,



Kevin Milner
Account Manager



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Background Experience

Qualifications/Expertise

Colorado Lighting Inc. dba CLI Services is a full-service electrical contractor (license #1606) and has been in business for 45 years. We are a woman owned business and holds the WBENC certification. We employ NALMCO Certified Lighting Technicians, Journeymen Electricians and Master Electricians. We also have LEED AP, Certified Lighting Efficiency Professionals (CLEP), Certified Lighting Maintenance Consultants (CLMC) and LC's (Lighting Consultants) on staff, Project Management Professionals (PMP), and several employees have their OSHA 10 and OSHA 30. We also have multiple in house engineers who specialize in lighting design and layouts.

CLI Services also has significant experience working for municipalities and other government facilities.

Our employees are well trained, certified to do what we do, badged and wear CLI Services clothing.

CLI Services has a full safety program that complies with NFPA 70E. Our safety program is administered by a 3rd party Hellman and Associates. All employees will be wearing proper PPE.

One of the things that we believe sets CLI Services apart from our competition is about half of our business is derived from lighting and electrical maintenance. This is beneficial on a design/build lighting addition because if anything goes wrong, we are local and have service electricians and lighting technicians that can be dispatched to fix issues.

Below is a list of the services we offer:

ELECTRICAL DIVISION –

Electrical service work of any kind while specializing in lighting control systems, measurement & verification, underground location, and computer wiring. Our employees drive fully stocked service vehicles. In addition to our service vehicles, we have fully stocked bucket trucks.

LIGHTING MANAGEMENT -

Provide Interior and Exterior lighting maintenance with monthly inspections and service contracts.

FULL-SERVICE SIGN DIVISION –

Signs, Monuments, and banner design, installation, removal, repairs, and re-branding of all types of signage and banners.

REBATE PROGRAMS –

Energy audits, detailed energy analysis, financing and rebate money from local utility providers. We are actively involved with the utility incentive programs and have been the one of the top performing companies with Xcel Energy.

RECYCLING PROGRAM –

We are committed to offering our customers the most updated information and services on the disposal of lamps and ballasts as well as other hazardous waste.

CONSULTING –

We employ Lighting Consultants and Engineers who have earned CLEP, CLMC, LC and LEED-AP certifications and we utilize sophisticated lighting layout software to assist with the design of your lighting system.





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CLI Services also has an expansive resource of equipment that we own, which includes fully stocked service vehicles, golf carts, bucket trucks that reach 40-110 feet, cranes, lifts and excavation equipment.

We also have a 24-hour on call service line, GPS tracking for our vehicles and our service techs utilize electronic tablets. The 24-hour on call service line could be of relevance here because if there was ever an emergency issue, we would be able to respond immediately.

Manpower Plan

CLI Services will assign one full time project manager to this project. That Project Manager will be a certified PMP and will have their OSHA 30 Certification. This person will be the main point of contact, and responsible for weekly progress reports. In addition to our Project Manager, we will also dedicate 1 crews of 3 people to the project. These individuals will be a combination of Journeyman Electrician and NALMCO Certified Lighting Technicians.

Resumes of Key Personnel

Chris Frank – General Manager - 30 yrs. experience
BA in Business Administration - Regis University
Chris.Frank@CLI-Services.com
(720) 333-8561

Will Robinson – Senior Project Manager
BA from LSU and PMP
Will.Robinson@CLI-Services.com
(720) 366-4840

Scot Kelley – Director of Sales - 17 yrs. experience
BA Environmental Policy - Kansas University
MBA Regis University
Scot.Kelley@CLI-Services.com
(303) 324-2524

Brian McNamara – Master Electrician - 30 yrs. experience
Electrical Supervisor who oversees all our electrical staff
Brian.McNamara@CLI-Services.com
(970) 379-9206

Kevin Milner– Account Manager – 9 yrs. experience
BA in Business Management - Illinois State University
Kevin.Milner@CLI-Services.com
(303)-435-7020

The above personnel, Scot Kelley (Director of Sales), Chris Frank (General Manager), Kevin Milner (Account Manager) and Brian McNamara (Electrical Manager) will also be involved in this project on a daily basis.





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MWBE Participation

CLI Services is a certified woman owned business through WBENC. Please see our attached certification.

In addition, our sister company Luminosity, is certified MWBE through the City and County of Denver, so we can buy all miscellaneous material through them. If CLI Services is awarded this contract 100% of the project will be completed by a certified woman owned business.

Past Experience and References

Mapleton Public Schools

Project Name: Mapleton Global Campus

(Global Primary Academy, Global Intermediate Academy, Global Leadership Academy, Sports Field, Fine Arts Building)

Charlotte Ciancio – Superintendent
Office – (303) 887-2478
charlotte@mapleton.us
7480 North Broadway Denver, CO 80221

Final Contract Amount \$ 500,000
Construction Duration: 3 years

Project Narrative: CLI Services provided labor and material to provide site and pathway lighting throughout the campus. Electrical was ran from building electrical panels, brought underground to all pole locations, concrete caissons installed, and area and site pole/light combinations installed.

ABM

Project Name: Denver Federal Center

Robert Stewart - Robert.Stewart@ABM.com
Field Supervisor
Cell – (719) 250-4993

Final Contract Amount - \$2,758,000.
Construction Duration – 14 months

Project Narrative: CLI Services provided all labor, project management and design assistance to retrofit the interior and exterior lighting for the Denver Federal Center.





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Denver Public Schools

Adam West – Project and Energy Efficiency Specialist

Cell – (303) 854-7087

Office – (720) 423-4151

2800 W. 7th Ave., Denver, CO 80204

Multiple Lighting Retrofit Projects totaling over \$5,000,000 over the past 5 years.

Description of Work: Multiple interior and exterior LED lighting retrofit projects over the past 5 years, as well as multiple consulting projects.

Leprino Foods

Brady Stewart – Utilities Engineer

Office – (970) 347-5239

jstewart@leprinofoods.com

1498 - 1300 1st Ave. Greeley, CO 80631

Contract Value \$1,439,000

Description of Work: Retrofitted all interior and exterior lighting to LED. This was an incredibly complex environment to work in. It required, day, weekend and night work and lots of coordination for access.

Different areas involved high lighting level requirements with detailed lighting design and photometric layouts. It also required several different kinds of scaffolding, lifts and other equipment to access the fixtures. A special safety plan was put in place for this project.



Meadow Creek Park – Solar Lighting Option

Colorado Lighting, Inc. proposes to provide a new solar powered lighting system throughout the desired pathway, parking lot, and park areas as described in the RFP and bid site walk. The new lighting system will consist of (13) pedestrian poles and solar powered First Light Technologies LED pedestrian fixtures mounted at 15' illuminating the pathway. Additionally (3) First Light Technologies LED area fixtures and poles will be installed at 22' in order to illuminate the parking lot, pond, and gazebo areas. The fixtures will all operate on a part night dimming schedule that is controllable via an app. Each fixture has an occupancy sensor that will help conserve power for when it is needed to ensure full night illumination. Each pole location will receive an engineered concrete caisson with proper rebar and anchor bolts. Concrete will go 4-6' in the ground depending on pole size and raise the poles 1-2' above grade depending on pole size. Utilizing a concrete caisson versus direct burial poles will provide the benefit of being able to raise the pole up in order to protect them from being damaged by snow removal or vehicles. Additionally this will provide a more sturdy structure to tolerate wind and poles turning or shifting over time. See attached photometric layout for pole locations, light levels, fixture details, and illumination rendering.

Total Project Cost : \$ 153,852.86

Material Cost : \$ 96,647.86




Labor Cost : \$ 57,205

Installed Per Pole Price : \$ 9,615.80

Exclusions




- Does Not include sales Tax. Assumes Town will be tax exempt
- No cost for permit included. Assumes this will be a no cost permit.
- No cost for stamped engineered drawings included if required by Town of Frisco.
- Assumes private utilities are indicated by customer.

Luminaire Schedule

Symbol	Qty	Description	Lum. Watts	Luminaire Lumens	LLF
	2	SCL2 Series MOD#_ SCL2-xxxx-xx-T4F	0	2992	1.000
	1	SCL2 Series MOD#_ SCL2-xxxx-xx-T5	0	3120	1.000
	13	IPL Series MOD#_ IPL-xxxx-xx-T2	0	1155	1.000

Calculation Summary

Label	CalcType	Units	Avg	Max	Min
_Exterior_Planar	Illuminance	Fc	0.05	1.1	0.0
FL1_Affected Park Areas	Illuminance	Fc	0.31	1.1	0.0
FL1_North Pathway	Illuminance	Fc	0.43	1.0	0.1
FL1_Parking Lot	Illuminance	Fc	0.43	0.9	0.0
FL1_Playground	Illuminance	Fc	0.04	0.2	0.0
FL1_West Pathway	Illuminance	Fc	0.37	1.1	0.0

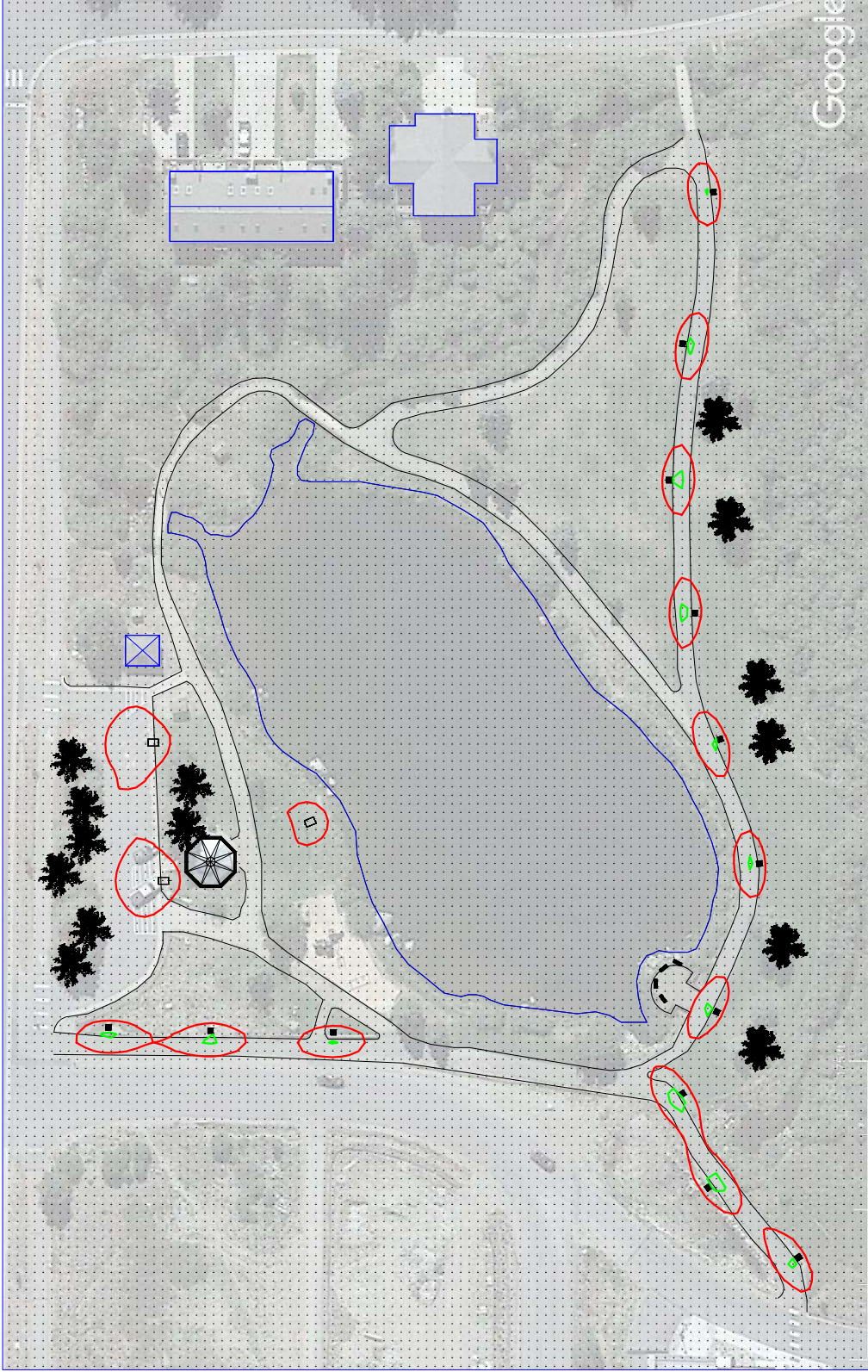
Isoline Legend	
Illuminance (Fc)	
Color	Value
	0.5
	1
	2

**Town of Frisco:
Meadow Creek Lighting**

Colorado Lighting, Inc.
2171 E 74th Ave.
Denver, CO 80229
T: 303 288 3152
E: Ray.O@CLI-Services.com



Luminaire Location Summary			
LumNo	Label	Tilt	Mtg. Height
13	FLT-IPL-Type2 3_3	0	15
14	FLT-IPL-Type2 3_3	0	15
15	FLT-IPL-Type2 3_3	0	15
16	FLT-IPL-Type2 3_3	0	15
17	FLT-IPL-Type2 3_3	0	15
18	FLT-IPL-Type2 3_3	0	15
19	FLT-IPL-Type2 3_3	0	15
20	FLT-IPL-Type2 3_3	0	15
21	FLT-IPL-Type2 3_3	0	15
22	FLT-IPL-Type2 3_3	0	15
23	FLT-IPL-Type2 3_3	0	15
24	FLT-IPL-Type2 3_3	0	15
25	FLT-IPL-Type2 3_3	0	15
26	FLT-SCL2-Type5 3_4	0	20
27	FLT-SCL2-Type4F 3_4	0	20
28	FLT-SCL2-Type4F 3_4	0	20



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SOLAR LED INTEGRATED ARCHITECTURAL AREA LIGHT

Project: _____

Type: _____

Quantity: _____

The IPL series solar LED luminaire is an ideal choice for architectural, commercial, recreational pathway and public space lighting applications. The self-contained, contemporary, rectilinear design smartly embraces modern solar power, adaptive control and LED technologies. With robust construction and unequalled performance, the IPL series is an excellent fit wherever high-quality, full-cutoff lighting and minimal visual clutter is required.

Using solar power and LEDs, the IPL is completely self-contained and offers significant benefits over grid-based lights including:

- Cost-effective design that ships fully assembled and installs in minutes
- Wireless control & communication with your light
- Low installation cost and minimal site impact with no trenching, cabling or wiring
- Minimal ongoing costs with no electrical bills or bulbs to change
- Operates entirely independent from the grid and is immune to power outages
- A sustainable choice without recurring carbon emissions

All of our solar powered lights are enabled by our innovative Solar Lighting Controller (SLC). The SLC in each light is “self-learning” and allows the lights to predictively adapt to their surroundings, providing a level of lighting performance and reliability unavailable in other solar lighting products.



TECHNICAL SPECIFICATIONS

Solar Module:

- High-efficiency monocrystalline cells
- Inconspicuously integrated into the top of luminaire
- Used for day/night detection (no photocell required)

Solar Lighting Controller (SLC):

- High-efficiency Maximum Power Point Tracking (MPPT)
- Microcontroller based technology
- Includes high-efficiency LED driver
- Multiyear data logging
- Integrated into luminaire housing
- Designed to automatically manage lighting performance based on environmental conditions and lighting requirements
- Potted weatherproof construction

Battery:

- High-performance lithium (LiFePO₄)
- Exceptional 10+ year lifecycle
- High-temperature tolerance
- Contained within luminaire housing
- Designed for easy battery changes when required

LEDs and Optics:

- 100,000 hour L70 lifetime
- Warm White (3000K), Neutral White (4000K), and Amber (595nm) LEDs available
- High-efficiency type 2, 3, 4, 4F, and 5, full cut-off optics
- Typical lumen output of 1250 lumens
- Optional backlight shield
- Wildlife-friendly amber option available

Mechanical Construction:

- Cast, low copper aluminum design
- Stainless fasteners with security fastener option
- Architectural grade, super durable, TGIC powder coat
- Four standard colors with custom colors available

Lighting Profiles:

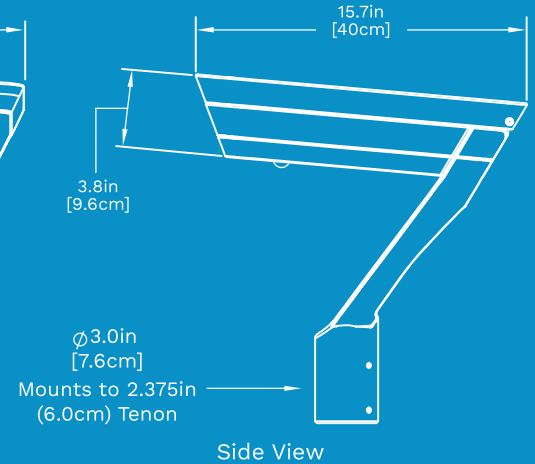
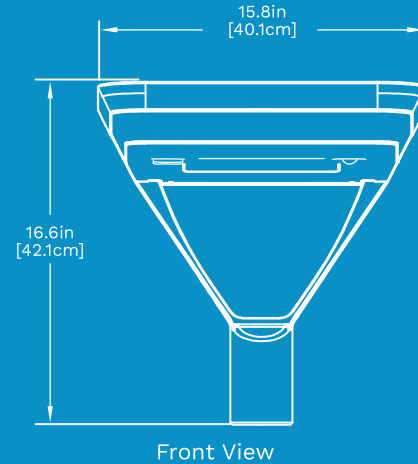
- 11 standard profiles options
- Real-time based lighting profiles available
- See lighting profile sheet for all options
- Motion sensing capabilities optimize performance based usage
- Lighting profiles and motion sensing options are field configurable with app

Wireless Controls:

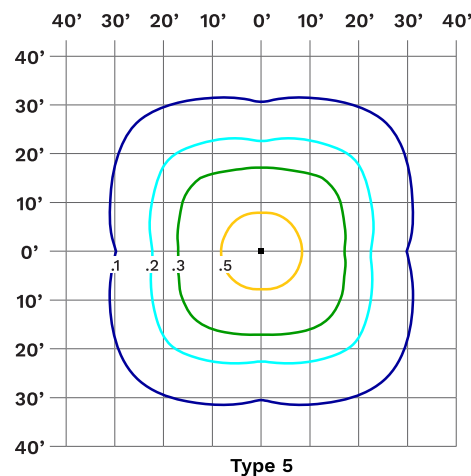
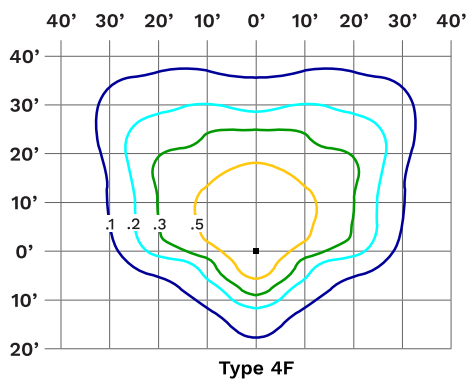
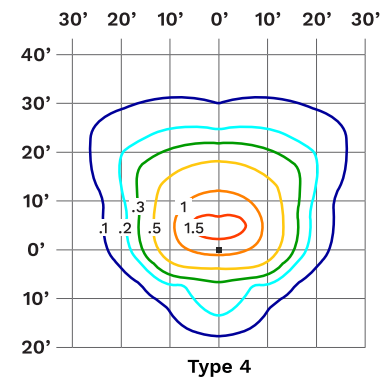
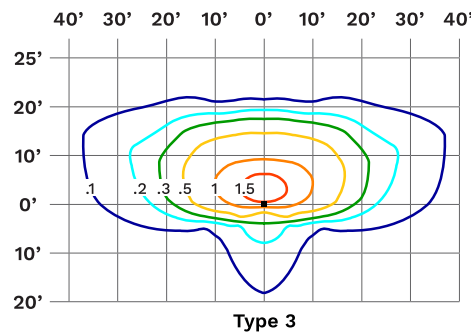
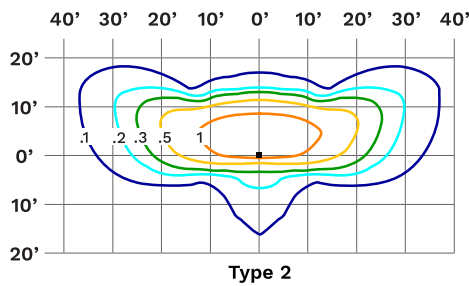
- Bluetooth low energy interface with iOS app
- Provide configuration and control of lighting profiles
- Adjust dusk and dawn thresholds
- Motion sensing capabilities optimize performance based on usage

SOLAR LED INTEGRATED ARCHITECTURAL AREA LIGHT

EPA: 0.65ft² (0.06m²) | Weight: 24.7 lbs (11.2 kg) including battery



PHOTOMETRICS (IES files available on website)



Notes:

- Photometrics based on 12 ft mounting height
- Light levels in foot candles are calculated using 1250 lumens at 4000K color temperature
- To convert to lux multiply light levels by 10.7
- Typical lumen levels based off of Type 5 optic with the default profile using neutral white LEDs
- Contact us for help in choosing the right lighting profile and distribution
- Motion sensing is ON by default
- Specifications subject to change without notice

ORDER MATRIX

Series	Mounting	Finish	Distribution	LED	Lighting Profile (Full list on website)	Options
IPL	PTM - Post Top Mount	BK - Black	T2 - Type 2	WW - 3000K	00 - Dusk till dawn	SEC - Security Fasteners
		BZ - Bronze	T3 - Type 3	NW - 4000K	09 - On at dusk, 100% for 3 hours, dim to 30%, brighten to 100% one hour before dawn, off at dawn (DEFAULT)	MSO - Motion Sensor Off
		SV - Silver	T4 - Type 4	AMB - Amber		BLS - Backlight Shield
		WH - White	T4F - Type 4F		TX0000 - On at dusk until time between 1800 & 0600. X = O (Off) or D (Dim). 0000 = time to dim or turn off.	
		CC - Custom	T5 - Type 5			



SOLAR LED INTEGRATED COMMERCIAL AREA LIGHT

Project: _____

Type: _____

Quantity: _____

The SCL2 Series solar LED luminaire is a great fit for commercial, parking lot, recreational bikeway/pathway and public space lighting applications. The self-contained, unobtrusive design integrates its solar power, adaptive control and LED technologies into a compact and efficient form. With robust construction and unequalled performance, the SCL2 series is an excellent fit wherever cost effective, full cutoff lighting is required.

Using solar power and LEDs, the SCL2 series is completely self-contained and offers significant benefits:

- Cost effective design ships fully assembled and installs in minutes
- Smart Connect provides wireless control & communication with your light
- Low installation cost and minimal site impact with no trenching, cabling or wiring
- Minimal ongoing costs with no electrical bills or bulbs to change
- Operates entirely independent from the grid and is immune to power outages
- A sustainable choice without recurring carbon emissions

All of our solar powered lights are enabled by our innovative Solar Lighting Controller (SLC). The SLC in each light is “self-learning” and allows the lights to predictively adapt to their surroundings, providing a level of lighting performance and reliability unavailable in other solar lighting products.



WIRELESS
CONTROL APP

TECHNICAL SPECIFICATIONS

Solar Module:

- High-efficiency monocrystalline cells
- Inconspicuously integrated into the top of luminaire
- Used for day/night detection (no photocell required)

Solar Lighting Controller (SLC):

- Microcontroller-based technology
- High-efficiency, Maximum Power Point Tracking (MPPT) battery charger
- Built-in high-efficiency LED driver
- Multiyear data logging
- Automatically manages lighting performance based on environmental conditions and lighting requirements
- Integrated into luminaire housing

Battery:

- High performance lithium (LiFePO₄)
- Exceptional 10+ year lifecycle
- High temperature tolerance
- Contained within luminaire housing
- Designed for easy battery changes when required

LEDs and Optics:

- 100,000 hour L70 lifetime LED
- Warm White (3000K), Neutral White (4000K), and Amber (595nm) LEDs available
- High-efficiency type 2, 3, 4, 4F, and 5, full cutoff optics
- Typical lumen output from 3000 to 3250 lumens
- Optional backlight shield
- Wildlife-friendly amber option available

Mechanical Construction:

- Extruded and formed, low copper aluminum enclosure and mounting arm
- Stainless fasteners with security fastener option
- Architectural grade, super durable, TGIC powder coat
- Four standard colors with custom colors available

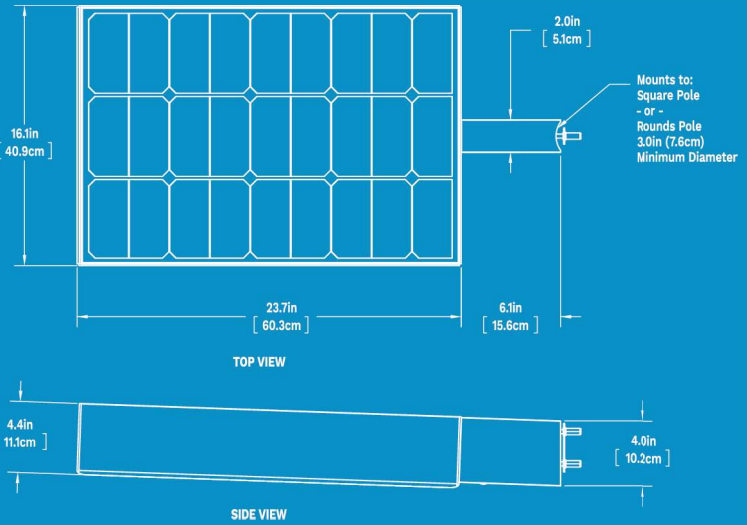
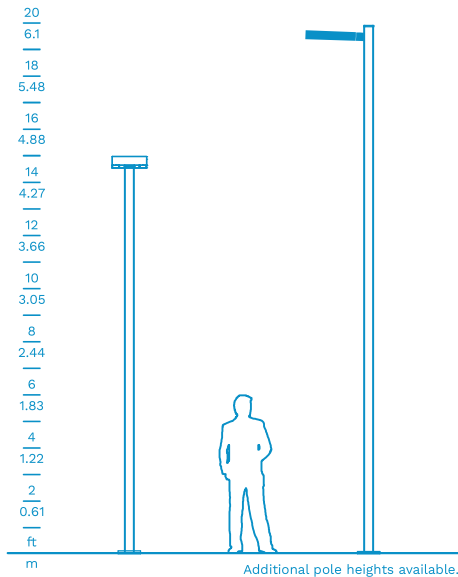
Factory Set Lighting Profiles:

- 11 standard duration profiles available
- Real-time lighting profile options available
- See lighting profile sheet for all options
- Lighting profiles and motion sensing options are field configurable with app
- Motion sensing capabilities optimize performance based on usage

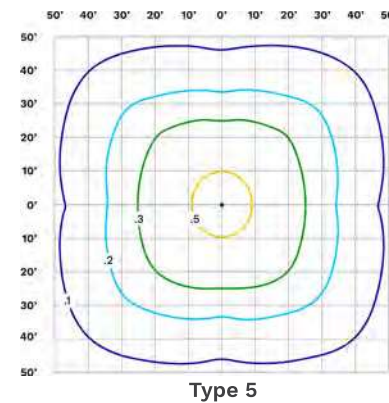
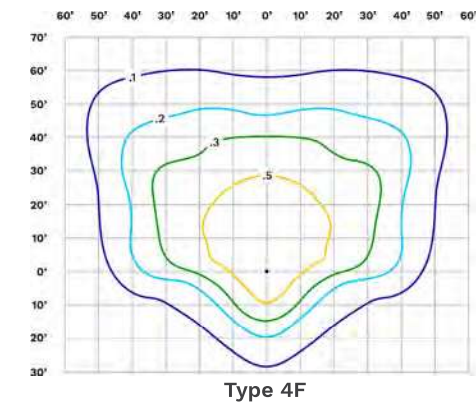
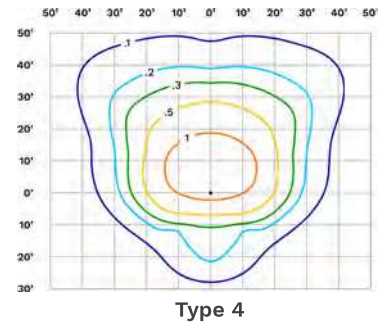
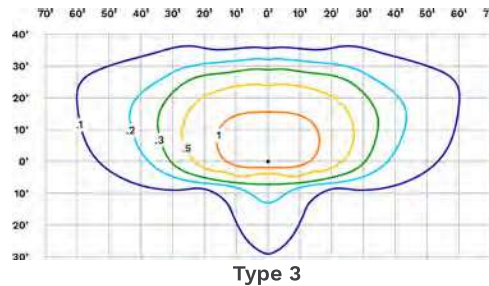
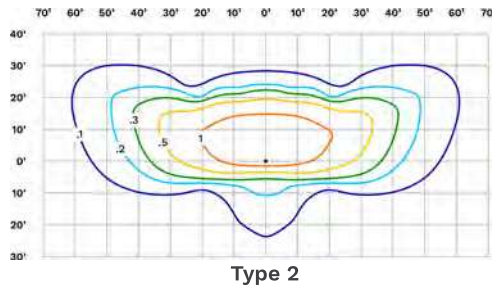
Wireless Controls:

- Easy-to-use interface via iOS smartphone app
- Configure and control lighting profiles
- Adjust dusk and dawn thresholds
- Motion sensing capabilities optimize performance based on usage

EPA: 0.99ft² (0.09m²) | Weight: 34lbs (15.4kg) including battery



PHOTOMETRICS (IES files available on our website)



Notes:

- Photometrics based on 20 ft mounting height
- Light levels in foot candles are calculated using 3125 lumens at 4000K color temperature
- To convert to lux multiply light levels by 10.7
- Contact us for help in choosing the right lighting profile and distribution
- Motion sensing is ON by default
- Specifications subject to change without notice

ORDER MATRIX



Series	Mounting	Finish	Distribution	LED	Lighting Profiles (Full list on website)	Options
SCL2	SPMU - Side Pole Mount Universal	BK - Black	T2 - Type 2	WW - 3000K	00 - Dusk till dawn	SEC - Security Fasteners
		BZ - Bronze	T3 - Type 3	NW - 4000K	09 - On at dusk, 100% for 3 hours, dim to 30%, brighten to 100% one hour before dawn, off at dawn (DEFAULT)	MSO - Motion Sensor Off
	NMNT - No Mount	SV - Silver	T4 - Type 4	AMB - Amber		BLS - Backlight Shield
		WH - White	T4F - Type 4F		TX0000 - On at dusk until time between 1800 & 0600. X = O (Off) or D (Dim). 0000 = time to dim or turn off.	
		CC - Custom	T5 - Type 5			

Meadow Creek Park – Hardwired Lighting Option Bid Alternate # 1

Colorado Lighting, Inc. proposes to provide a new hard wired lighting system throughout the disired pathway, parking lot, and park areas as described in the RFP and bid site walk. A conduit will be ran via directional boring from the well house to all new pole locations. By using direction boring you will minmize disturbing the pathway and landcaping. A new 30 Amp cicuit will be tied into the eixsting electrical panel located within the well house, a new 30 amp breaker installed, and # 8 wire pulled throughout the conduit to all new pole locations. Larger guage wire than required will be used in order to prevent any issues with voltage drop. Four (4) ground vault/handhole access locations will be installed for future power updates. The lighting system will contain (9) architectural pedestrian light poles and LSI LED fixtures mounted at 15' illuminating the pathway. Additionally (3) LSI LED area fixtures and poles illuminating the parking lot, pond, and gazebo area will be installed.

Each pole location will receive an engineered concrete caisson with proper rebar and anchor bolts. Concrete will go 4-6' in the ground depending on pole size and raise the poles 1-2' above grade depending on pole size.

Utilizing a concrete caisson versus direct burial poles will provide the benefit of being able to raise the pole up in order to protect them from being damaged by snow removal or vehicles. Additionally this will provide a a more sturdy structure to tolerate wind and poles turning or shifting over time. See attached photometric layout for pole locations, light levels, fixture details, and illumination rendering.

Total Project Cost : \$ 174,580.53

Material Cost : \$ 58,738.10

Labor Cost : \$ 115,842.43

Installed Per Pole Price : \$ 14,548.38

Exclusions




- Does Not include sales Tax. Assumes Town will be tax exempt
- No cost for permit included. Assumes this will be a no cost permit.
- No cost for stamped engineered drawings included if required by Town of Frisco.
- Assumes private utilities are indicated by customer.

Luminaire Schedule

Symbol	Qty	Description	Lum. Watts	Luminaire Lumens	LLF
	7	XDLM-3-LED-LW-NW	54	8609	1.000
	3	MRS-LED-12L-SIL-5W-40-70CRI	86	12195	1.000
	2	XDLM-5-LED-LW-NW	54	8005	1.000

Calculation Summary

Label	CalcType	Units	Avg	Max	Min
Exterior_Planar	Illuminance	Fc	0.26	4.5	0.0
Affected Park Areas	Illuminance	Fc	1.34	4.5	0.0
North Pathway	Illuminance	Fc	0.75	2.0	0.0
Parking Lot	Illuminance	Fc	1.44	2.5	0.3
Playground	Illuminance	Fc	0.43	0.9	0.0
West Pathway	Illuminance	Fc	1.70	4.5	0.0

Isoline Legend	
Illuminance (Fc)	
Color	Value
	0.5
	1
	2

**Town of Frisco:
Meadow Creek Lighting**

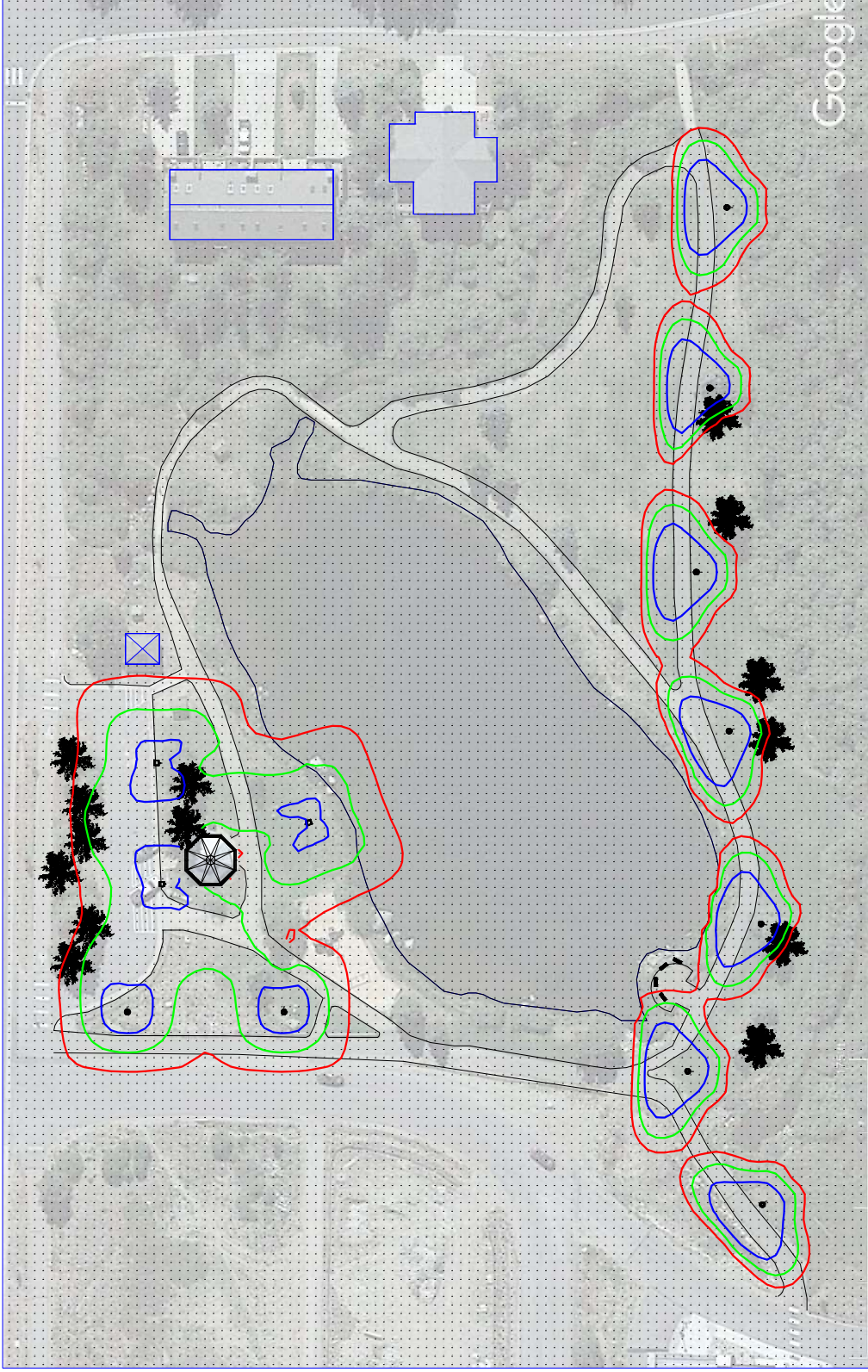
Colorado Lighting, Inc.
2171 E 74th Ave.
Denver, CO 80229
T: 303 288 3152
E: Ray.O@CLI-Services.com



Luminaire Location Summary				
LumNo	Label		Tilt	Mtg. Height
1	XDLM-3-LED-LW-NW		0	15
2	XDLM-3-LED-LW-NW		0	15
3	XDLM-3-LED-LW-NW		0	15
4	XDLM-3-LED-LW-NW		0	15
5	XDLM-3-LED-LW-NW		0	15
6	XDLM-3-LED-LW-NW		0	15
7	XDLM-3-LED-LW-NW		0	15
8	XDLM-5-LED-LW-NW		0	15
9	XDLM-5-LED-LW-NW		0	15
10	MRS-LED-12L-SIL-5W-40-70CRI		0	22
11	MRS-LED-12L-SIL-5W-40-70CRI		0	22
12	MRS-LED-12L-SIL-5W-40-70CRI		0	22



Town of Frisco: Meadow Creek Lighting	Colorado Lighting, Inc. 2171 E 74th Ave. Denver, CO 80229 T: 303 288 3152 E: Ray.O@CLI-Services.com
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COLORADO
LIGHTING

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**Town of Frisco:
Meadow Creek Lighting**



Catalog #: _____ Project: _____

Prepared By: _____ Date: _____ Type: _____

LifeStyle Medium (XDLM)

Outdoor Decorative Area Light



OVERVIEW	
Lumen Output Range	5,000 - 25,000
Wattage	39 - 196
Efficacy Range (LPW)	120 - 168
Fixture Weight lbs (kg)	36 (16.3)

QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum crown.
- Wiring emerges from crown through compression seal fitting to prevent water entry. One-piece silicone gasket seals crown to shade for water- and dust-tight construction.
- Spun aluminum shade with two shade styles available: A - Angle and B - Bell.
- Brackets are extruded and cast aluminum assemblies or fabrications. All decorative elements are die cast or extruded aluminum.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight (in carton) - 36 lbs (16.3 kg).

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated seal.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in distribution types 2, 3, 5W and FT.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.

- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377.
- Minimum CRI of 70
- Integral louver (IL) option available for improved backlight control with minimal sacrifice to street side performance.

Electrical

- High-performance driver features overvoltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 VAC) Input 50/60 Hz or optional High Voltage (347-480 VAC).
- L80 Calculated Life: >100k Hours.
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +40°C (-40°F to +104°F).
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Driver is fully encased in potting material for moisture resistance and complies with FCC standards.

Controls

- Optional integral passive infrared Bluetooth™ motion and photocell sensor. Fixtures operate independently and can be commissioned via iOS or Android configuration app.

Installation

- Classic Hook (CH) and Side Arm available. See Steel Round Pole and Aluminum Round Pole data sheets for pole selection information.
- Classic hook mount requires a 4" O.D. pole or tenon.
- Side Arm pole mount utilizes LSI's traditional B3 drill pattern.

Warranty

- LSI luminaires carry a 5-year limited warranty. Refer to <https://www.lsicorp.com/resources/terms-conditions-warranty/> for more information.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet locations.
- IP65 rated Luminaire per IEC 60598-1.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)

Specifications and dimensions subject to change without notice.





Lifestyle Medium - XDLM

ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **XDLM B 3 LED SS NW UE BLK CH S PCI120**

Prefix	Shade	Distribution	Light Source	Lumen Package	Color Temp	Voltage	Finish
XDLM - LifeStyle Medium	A - Angle B - Bell	2 - Type 2 3 - Type 3 5 - Type 5 FT - Type 4 (Forward Throw)	LED	VLW - 5,000 lms LW - 8,000 lms SS - 12,000 lms HO - 18,000 lms VHO - 25,000 lms Custom Lumen Packages ¹	CW - 5,000K CCT NW - 4,000K CCT WW - 3,000K CCT	UE - Universal Voltage (120 - 277V) 347-480 - High Voltage (347-480V)	BLK - Black BRZ - Bronze WHT - White GPT - Graphite GMG - Gun Metal Grey MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green

Mounting Style ^{2,3}	Mounting Configuration ^{2,3}	Controls	Options
CH - Classic Hook SA4 - Side Arm Mount for 4" O.D. Round Poles ⁴ SA5 - Side Arm Mount for 5" O.D. Round Poles ⁴	S - Single D180 - Double @ 180° D90 - Double @ 90° T90 - Triple @ 90° TN120 - Triple @ 120° Q90 - Quad ⁵ W - Wall Mount	IMSBT1 - Integral Bluetooth™ Motion and Photocell Sensor max 8-24' mounting height ⁶ IMSBT2 - Integral Bluetooth™ Motion and Photocell Sensor max 25-40' mounting height ⁶ ALBSC1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' MH) ALBSC2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' MH)	IL - Integral Louver Shield

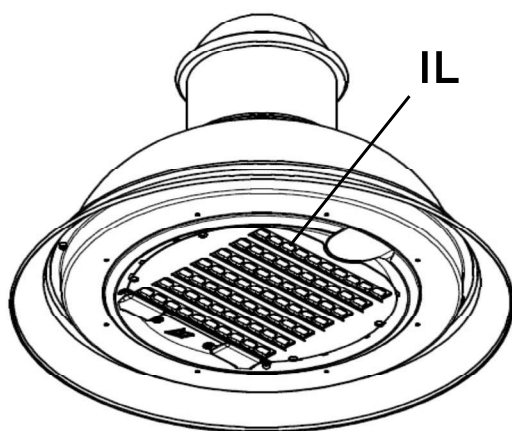
Accessory Ordering Information

Description	Order Number
Single Fusing (120V)	FK120 ⁷
Single Fusing (277V)	FK277 ⁷
Double Fusing (480V)	DFK480 ⁷
Double Fusing (347V)	DFK347 ⁷

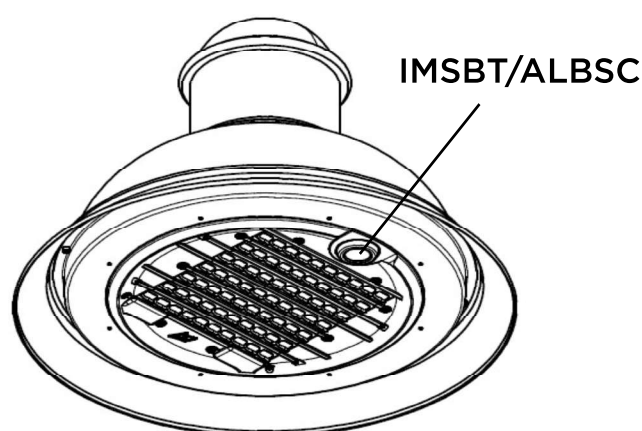
FOOTNOTES:

- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- When ordering a multiple configuration (D180, etc.) order one fixture/bracket configuration per pole - i.e. order one XDLM B 3 LED SS CW UE BLK CH D180 PCI120 to receive two fixtures and one CH D180 bracket (see drawing on this page). See STEEL ROUND POLES and ALUMINUM ROUND POLES data sheets for pole ordering information.
- See Lifestyle Bracket ordering chart for Mounting Style/Configurations availability.
- B3 drilling pattern required.
- For use with SA4 and SA5 mounting styles only.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store. Consult Factory for 347-480V.
- Fusing must be located in the hand hole of pole.

Fixture Shown With Integral Louver



Fixture Shown With Integral Sensor





Lifestyle Medium - XDLM

PERFORMANCE

[Back to Quick Links](#)

DELIVERED LUMENS*												
Lumen Package	Distribu- tion	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
VLW	2	70	5429	138	B2-U0-G2	5825	148	B2-U0-G2	6104	155	B2-U0-G2	39
	3		5547	141	B1-U0-G2	5951	151	B1-U0-G2	6236	159	B1-U0-G2	
	5W		5462	139	B1-U0-G2	5860	149	B1-U0-G2	6141	156	B1-U0-G2	
	FT		5158	131	B3-U0-G1	5534	140	B3-U0-G1	5799	147	B3-U0-G1	
LW	2	70	7853	146	B2-U0-G2	8426	156	B2-U0-G2	8829	164	B2-U0-G2	54
	3		8023	149	B2-U0-G2	8608	160	B2-U0-G2	9020	168	B2-U0-G2	
	5W		7901	148	B2-U0-G2	8477	158	B2-U0-G2	8883	166	B2-U0-G2	
	FT		7461	138	B3-U0-G2	8005	148	B3-U0-G2	8388	155	B3-U0-G2	
SS	2	70	11780	145	B3-U0-G3	12638	155	B3-U0-G3	13244	163	B3-U0-G3	82
	3		12034	148	B2-U0-G2	12912	159	B2-U0-G2	13530	166	B2-U0-G2	
	5W		11850	146	B2-U0-G2	12714	156	B2-U0-G2	13323	164	B2-U0-G2	
	FT		11191	138	B4-U0-G2	12007	147	B4-U0-G2	12582	154	B4-U0-G2	
HO	2	70	17912	135	B3-U0-G3	19218	144	B3-U0-G3	20138	151	B3-U0-G3	134
	3		18300	137	B3-U0-G3	19634	147	B3-U0-G3	20574	154	B3-U0-G3	
	5W		18020	135	B3-U0-G3	19334	145	B3-U0-G3	20260	152	B3-U0-G3	
	FT		17017	127	B4-U0-G2	18258	136	B4-U0-G2	19132	143	B4-U0-G2	
VHO	2	70	24625	127	B4-U0-G3	26420	135	B4-U0-G3	27685	142	B4-U0-G3	196
	3		25157	129	B3-U0-G4	26991	138	B3-U0-G4	28284	145	B3-U0-G4	
	5W		24773	127	B3-U0-G4	26579	136	B3-U0-G4	27852	143	B3-U0-G4	
	FT		23395	120	B5-U0-G3	25100	128	B5-U0-G3	26302	134	B5-U0-G3	

*LEDs are frequently updated therefore values are nominal

ELECTRICAL DATA*						
Lumens	120V	208V	240V	277V	347	480V
VLW	0.33	0.19	0.16	0.14	0.11	0.08
LW	0.45	0.26	0.23	0.19	0.16	0.11
SS	0.68	0.39	0.34	0.30	0.24	0.17
HO	1.12	0.64	0.56	0.48	0.39	0.28
VHO	1.63	0.94	0.82	0.71	0.56	0.41

*Electrical data is 25° C (77° F). Actual wattage differ by +/-10%.

RECOMMENDED LUMEN MAINTENANCE (1)					
Ambient Temp	Lumen Multiplier				
C	0 hrs. (2)	25K hrs. (2)	50K hrs. (2)	75K hrs. (3)	100K hrs. (3)
0C - 40 C	98%	97%	97%	96%	96%

1 - Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.

2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).

3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).



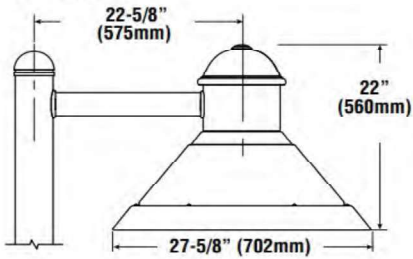


Lifestyle Medium - XDLM

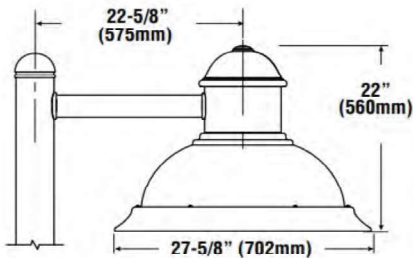
PRODUCT DIMENSIONS

[Back to Quick Links](#)

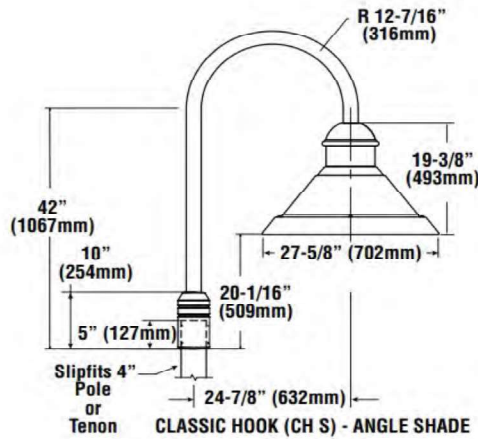
DIMENSIONS



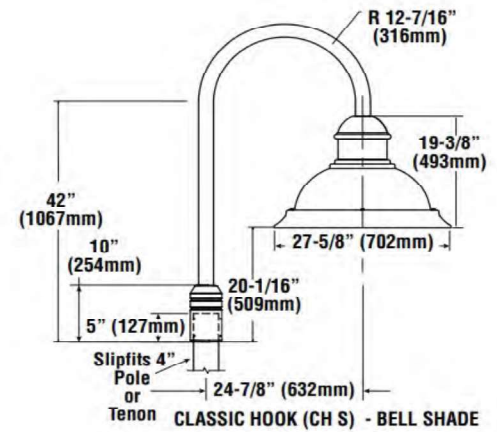
SIDE ARM (SA4 S) - ANGLE SHADE



SIDE ARM (SA4 S) - BELL SHADE



CLASSIC HOOK (CH S) - ANGLE SHADE



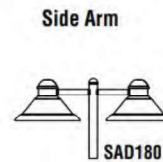
CLASSIC HOOK (CH S) - BELL SHADE

See Lifestyle Brackets and Mounts in outdoor section of latest Buyers Guide for details on other bracket sizes.



Classic Hook

CHD180



Side Arm

SAD180



SAW

CONTROLS

Integral Bluetooth™ Motion and Photocell Sensor (IMSBT)

Slim low profile sensor provides multi-level control based on motion and/or daylight. Sensor controls 0-10 VDC LED drivers and is rated for cold and wet locations (-30° C to 70° C). Two unique PIR lenses are available and used based on fixture mounting height. All control parameters are adjustable via an iOS or Android App capable of storing and transmitting sensor profiles.

[Click here to learn more about IMSBT.](#)

AirLink Blue

Wireless Bluetooth Mesh Outdoor Lighting Control System that provides energy savings, code compliance and enhanced safety/security for parking lots and parking garages. Three key components; Bluetooth wireless radio/sensor controller, Time Keeper and an iOS App. Capable of grouping multiple fixtures and sensors as well as scheduling time-based events by zone. Radio/Sensor Controller is factory integrated into Area/Site, Wall Mounted, Parking Garage and Canopy luminaires.

[Click here to learn more about AirLink Blue.](#)





Lifestyle Medium - XDLM

POLES & BRACKETS

LSI offers a full line of poles and mounting accessories to complete your lighting assembly. Aluminum and steel in both square and round shafts. In addition, LSI offers round tapered, fluted and hinge based poles. Designed and engineered for durability and protected with our oven baked DuraGrip Protection System. Also available with our DuraGrip+ Protection system for unmatched corrosion resistance and an extended warranty. American made in our Ohio facility with industry leading lead times.

[Click here to learn more details about poles & brackets.](#)



DECORATIVE BASE COVER

Round Straight

Optional decorative base cover has a two-piece die cast construction with stainless steel fasteners. Base cover is polyester powder coated to match pole. GBC base cover fits 4" and 5" diameter straight round poles. Includes 4" round pole adaptor molded from black silicone rubber.



SPUN ALUMINUM COLLAR

Round Straight

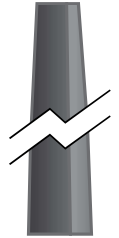
Optional one-piece spun aluminum collar for 4" or 5" diameter straight round poles. Features durable, high quality construction with aesthetically pleasing design that slips over the pole for increased theft deterrent.



Square
Pole
14'-39'



Round
Pole
10'-30'



Tapered
Pole
20'-39'





Catalog #: _____ Project: _____

Prepared By: _____ Date: _____ Type: _____

Mirada Medium (MRM)

Outdoor LED Area Light



IP66 IK08



OVERVIEW

Lumen Package	7,000 - 48,000
Wattage Range	48 - 401
Efficacy Range (LPW)	117 - 160
Weight lbs(kg)	30 (13.6)

QUICK LINKS

[Ordering Guide](#)[Performance](#)[Photometrics](#)[Dimensions](#)

FEATURES & SPECIFICATIONS

Construction

- Rugged die-cast aluminum housing contains factory prewired driver and optical unit. Cast aluminum wiring access door located underneath.
- Designed to mount to square or round poles.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 37 lbs in carton.

Optical System

- State-of-the-Art one piece silicone optic sheet delivers industry leading optical control with an integrated gasket to provide IP66 rated sealed optical chamber in 1 component.
- Proprietary silicone refractor optics provide exceptional coverage and uniformity in IES Types 2, 3, 5W, FT, FTA and AM.
- Silicone optical material does not yellow or crack with age and provides a typical light transmittance of 93%.
- Zero uplight.
- Available in 5000K, 4000K, and 3000K color temperatures per ANSI C78.377. Also Available in Phosphor Converted Amber with Peak intensity at 610nm.
- Minimum CRI of 70.
- Integral louver (IL) and house-side shield (IH) options available for improved backlight control without sacrificing street side performance. See page 3 for more details.

Electrical

- High-performance programmable driver features over-voltage, under-voltage, short-circuit and over temperature protection. Custom lumen and wattage packages available.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance on Page 5)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F). 42L and 48L lumen packages rated to +40°C.
- Power factor: >.90
- Input power stays constant over life.
- Field replaceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs mounted to metal-core circuit board to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards. Driver and key electronic components can easily be accessed.

Controls

- Optional integral passive infrared Bluetooth™ motion and photocell sensor (see page 9 for more details). Fixtures operate independently and can be commissioned via iOS or Android configuration app
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7. (see page 9 for more details).

Installation

- Designed to mount to square or round poles.
- A single fastener secures the hinged door, underneath the housing and provides quick & easy access to the electrical compartment.
- Included terminal block accepts up to 12 ga. wire.
- Utilizes LSI's traditional 3" drill pattern B3 for easy fastening of LSI products. (See drawing on page 9)

Warranty

- LSI LED Fixtures carry a 5-year warranty.

Listings

- Listed to UL 1598 and UL 8750.
- Meets Buy American Act requirements.
- IDA compliant; with 3000K color temperature selection.
- Title 24 Compliant; see local ordinance for qualification information.
- Suitable for wet Locations.
- IP66 rated Luminaire per IEC 60598.
- 3G rated for ANSI C136.31 high vibration applications are qualified.
- DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.
- Patented Silicone Optics (US Patent NO. 10,816,165 B2)
- IK08 rated luminaire per IEC 66262 mechanical impact code

Specifications and dimensions subject to change without notice.





Mirada Medium Outdoor LED Area Light

ORDERING GUIDE

[Back to Quick Links](#)TYPICAL ORDER EXAMPLE: **MRM LED 36L SIL FTA UNV DIM 50 70CRI ALSCS04 BRZ IL**

Luminaire Prefix	Light Source	Lumen Package	Light Output	Distribution	Orientation ²	Voltage	Driver
MRM - Mirada	LED	7L - 7,000 lms 9L - 9,000 lms 12L - 12,000 lms 18L - 18,000 lms 24L - 24,000 lms 30L - 30,000 lms 36L - 36,000 lms 42L - 42,000 lms 48L - 48,000 lms Custom Lumen Packages ¹	SIL - Silicone	2 - Type 2 3 - Type 3 5W - Type 5 Wide FT - Forward Throw FTA - Forward Throw Automotive AM - Automotive Merchandise	(blank) - standard L - Optics rotated left 90° R - Optics rotated right 90°	UNV - Universal Voltage (120-277V) HV - High Voltage (347-480V)	DIM - 0-10V Dimming (0-10%)
Color Temp		Color Rendering		Finish		Options	
50 - 5,000 CCT 40 - 4,000 CCT 30 - 3,000 CCT AMB - Phosphor Converted Amber ¹²		70CRI - 70 CRI		BLK - Black BRZ - Dark Bronze GMG - Gun Metal Gray GPT - Graphite MSV - Metallic Silver PLP - Platinum Plus SVG - Satin Verde Green WHT - White		(Blank) - None IH - Integral Houseside Shield ² IL - Integral Louver (Sharp Spill Light Cutoff) ²	
Controls (Choose One)							
(Blank) - None Wireless Controls System ALSC - AirLink Synapse Control System ALSCH - AirLink Synapse Control System Host / Satellite ³ ALSCS02 - AirLink Synapse Control System with 12-20' Motion Sensor ALSCHS02 - AirLink Synapse Control System Host / Satellite with 12-20' Motion Sensor ³ ALSCS04 - AirLink Synapse Control System with 20-40' Motion Sensor ALSCHS04 - AirLink Synapse Control System Host / Satellite with 20-40' Motion Sensor ³ ALBCS1 - AirLink Blue Wireless Motion & Photo Sensor Controller (8-24' mounting height) ALBCS2 - AirLink Blue Wireless Motion & Photo Sensor Controller (25-40' mounting height)				Stand-Alone Controls EXT - 0-10v Dimming leads extended to housing exterior CR7P - 7 Pin Control Receptacle ANSI C136.41 ⁶ IMSBT1- Integral Bluetooth™ Motion and Photocell Sensor (8-24' MH) ⁵ IMSBT2- Integral Bluetooth™ Motion and Photocell Sensor (25-40' MH) ⁵ Button Type Photocells PCI120 - 120V PCI208-277 - 208 -277V PCI347 - 347V		Lutron Limelight Controls LLC – LimeLight Integral Wireless Radio Control by Lutron ⁴ LLCS1 – Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 8-15' mt height ⁴ LLCS2 – Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 16-30' mt height ⁴ LLCS3 – Limelight Integral Wireless Radio Control and PIR Motion/Daylight Sensor by Lutron 31-40' mt height ⁴	

Accessory Ordering Information⁷

Controls Accessories	
Description	Order Number ¹⁰
PC120 Photocell for use with CR7P option (120V) ⁸	122514
PC208-277 Photocell for use with CR7P option (208V, 240V, 277V) ⁸	122515
Twist Lock Photocell (347V) for use with CR7P ⁸	122516
Twist Lock Photocell (480V) for use with CR7P ⁸	1225180
AirLink 5 Pin Twist Lock Controller ⁸	661409
AirLink 7 Pin Twist Lock Controller ⁸	661410
PMOS24-24V Pole-Mounted Occupancy Sensor (24V)	663284CLR
Shorting Cap for use with CR7P	149328

Fusing Options ¹¹		Shielding Options	
Description	Order Number		
Single Fusing (120V)	See Fusing Accessory Guide	Mirada Small	See Shielding Guide
Single Fusing (277V)		Mirada Medium	
Double Fusing (208V, 240V)		Mirada Large	
Double Fusing (480V)		Zone Medium	
Double Fusing (347V)		Zone Large	
		Slice Medium	

Mounting Accessories ⁹	
Description	Order Number ¹⁰
Universal Mounting Bracket	684616CLR
Adjustable Slip Fitter (2" - 2 3/8" Tenon)	688138CLR
Horizontal Slip Fitter (2" - 2 3/8" Tenon)	652761CLR
Quick Mount Pole Bracket (Square Pole)	687073CLR
Quick Mount Pole Bracket (4-5" Round Pole)	689903CLR
15 Tilt Quick Mount Pole Bracket (Square Pole)	688003CLR
15 Tilt Quick Mount Pole Bracket (4-5" Round Pole)	689905CLR
Wall Mount Bracket	382132CLR
Wood Pole Bracket (6" Minimum Pole Diameter)	751219CLR

Miscellaneous Accessories	
Description	Order Number
Integral Louver/Shield	690981
Integral House Side Shield	743415
10' Linear Bird Spike Kit (3' Recommended per Luminaire)	751632

FOOTNOTES:

- Custom lumen and wattage packages available, consult factory. Values are within industry standard tolerances but not DLC listed.
- Not available with 5W distribution
- Consult Factory for availability.
- Not available in HV.
- IMSBT is field configurable via the LSI app that can be downloaded from your smartphone's native app store.
- Control device or shorting cap must be ordered separately. See Accessory Ordering Information.
- Accessories are shipped separately and field installed.
- Factory installed CR7P option required. See Options.
- "CLR" denotes finish. See Finish options.
- Only available with ALSC/ALSCH control options.
- Fusing must be located in hand hole of pole. See [Fusing Accessory Guide](#) for compatibility.
- Only available in 9L and 12L Lumen Packages. Consult factory for lead time and availability.





Mirada Medium Outdoor LED Area Light

[Back to Quick Links](#)

PERFORMANCE

Delivered Lumens*												
Lumen Package	Distribution	CRI	3000K CCT			4000K CCT			5000K CCT			Wattage
			Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	Delivered Lumens	Efficacy	BUG Rating	
7L	2	70	7560	157	B2-U0-G2	7560	157	B2-U0-G2	7560	157	B2-U0-G2	48
	3		7616	159	B1-U0-G2	7616	159	B1-U0-G2	7616	159	B1-U0-G2	
	5W		7292	152	B3-U0-G1	7292	152	B3-U0-G1	7292	152	B3-U0-G1	
	FT		7562	158	B2-U0-G2	7562	158	B2-U0-G2	7562	158	B2-U0-G2	
	FTA		7595	158	B2-U0-G2	7595	158	B2-U0-G2	7595	158	B2-U0-G2	
	AM		7687	160	B1-U0-G1	7687	160	B1-U0-G1	7687	160	B1-U0-G1	
9L	2	70	9853	159	B2-U0-G2	9853	159	B2-U0-G2	9853	159	B2-U0-G2	62
	3		9926	160	B2-U0-G2	9926	160	B2-U0-G2	9926	160	B2-U0-G2	
	5W		9504	153	B3-U0-G2	9504	153	B3-U0-G2	9504	153	B3-U0-G2	
	FT		9856	159	B2-U0-G3	9856	159	B2-U0-G3	9856	159	B2-U0-G3	
	FTA		9900	160	B2-U0-G2	9900	160	B2-U0-G2	9900	160	B2-U0-G2	
	AM		10019	162	B2-U0-G1	10019	162	B2-U0-G1	10019	162	B2-U0-G1	
12L	2	70	13135	155	B3-U0-G2	13135	155	B3-U0-G2	13135	155	B3-U0-G2	85
	3		13232	156	B2-U0-G2	13232	156	B2-U0-G2	13232	156	B2-U0-G2	
	5W		12669	149	B4-U0-G2	12669	149	B4-U0-G2	12669	149	B4-U0-G2	
	FT		13138	155	B2-U0-G3	13138	155	B2-U0-G3	13138	155	B2-U0-G3	
	FTA		13196	155	B2-U0-G2	13196	155	B2-U0-G2	13196	155	B2-U0-G2	
	AM		13355	157	B2-U0-G2	13355	157	B2-U0-G2	13355	157	B2-U0-G2	
18L	2	70	19318	143	B3-U0-G3	19318	143	B3-U0-G3	19318	143	B3-U0-G3	135
	3		19461	144	B3-U0-G3	19461	144	B3-U0-G3	19461	144	B3-U0-G3	
	5W		18633	138	B4-U0-G2	18633	138	B4-U0-G2	18633	138	B4-U0-G2	
	FT		19324	143	B3-U0-G3	19324	143	B3-U0-G3	19324	143	B3-U0-G3	
	FTA		19408	144	B3-U0-G3	19408	144	B3-U0-G3	19408	144	B3-U0-G3	
	AM		19641	145	B3-U0-G2	19641	145	B3-U0-G2	19641	145	B3-U0-G2	
24L	2	70	25957	147	B4-U0-G3	25957	147	B4-U0-G3	25957	147	B4-U0-G3	176
	3		26149	149	B3-U0-G4	26149	149	B3-U0-G4	26149	149	B3-U0-G4	
	5W		25037	142	B5-U0-G3	25037	142	B5-U0-G3	25037	142	B5-U0-G3	
	FT		25964	148	B3-U0-G4	25964	148	B3-U0-G4	25964	148	B3-U0-G4	
	FTA		26077	148	B3-U0-G3	26077	148	B3-U0-G3	26077	148	B3-U0-G3	
	AM		26393	150	B3-U0-G2	26393	150	B3-U0-G2	26393	150	B3-U0-G2	
30L	2	70	32417	140	B4-U0-G3	32417	140	B4-U0-G3	32417	140	B4-U0-G3	232
	3		32656	141	B3-U0-G4	32656	141	B3-U0-G4	32656	141	B3-U0-G4	
	5W		31267	135	B5-U0-G3	31267	135	B5-U0-G3	31267	135	B5-U0-G3	
	FT		32424	140	B3-U0-G4	32424	140	B3-U0-G4	32424	140	B3-U0-G4	
	FTA		32566	140	B4-U0-G3	32566	140	B4-U0-G3	32566	140	B4-U0-G3	
	AM		32960	142	B3-U0-G3	32960	142	B3-U0-G3	32960	142	B3-U0-G3	
36L	2	70	38275	133	B4-U0-G4	38275	133	B4-U0-G4	38275	133	B4-U0-G4	288
	3		38557	134	B4-U0-G5	38557	134	B4-U0-G5	38557	134	B4-U0-G5	
	5W		36917	128	B5-U0-G4	36917	128	B5-U0-G4	36917	128	B5-U0-G4	
	FT		38283	133	B4-U0-G5	38283	133	B4-U0-G5	38283	133	B4-U0-G5	
	FTA		38450	134	B4-U0-G4	38450	134	B4-U0-G4	38450	134	B4-U0-G4	
	AM		38916	135	B3-U0-G3	38916	135	B3-U0-G3	38916	135	B3-U0-G3	



Account #3748



Business / Sales Tax License
Expires on 12/31/2022

Norma Frank,

*having paid the applicable fees to the Town Clerk of the Town of Frisco,
and having met all zoning requirements, is hereby granted a license to do business in the Town of Frisco*

Colorado Lighting Inc
2171 East 74th Avenue

GIVEN UNDER THE OFFICIAL SEAL OF
THE TOWN OF FRISCO ON 10/13/2021.

Hunter Mortensen, Mayor

Deborah Wohlmuth, Town Clerk



Dear Policyholder,

Thank you for choosing Federated Insurance to handle your insurance and risk management needs. The attached certificate document(s) have been issued or updated.

Please feel free to contact us with any additional changes, additions or deletions that may be needed by contacting the Federated Client Contact Center at:

Phone: 1-888-333-4949

Fax: 507-446-4664

E-mail: clientcontactcenter@fedins.com

Thank you for your business!

Client Contact Center

Enclosed:

Certificate Document(s)



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
02/18/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER FEDERATED MUTUAL INSURANCE COMPANY HOME OFFICE: P.O. BOX 328 OWATONNA, MN 55060		CONTACT NAME: CLIENT CONTACT CENTER PHONE (A/C, No, Ext): 888-333-4949 FAX (A/C, No): 507-446-4664 E-MAIL ADDRESS: CLIENTCONTACTCENTER@FEDINS.COM		
INSURED COLORADO LIGHTING, INC 1831 E 73RD AVE UNIT B DENVER, CO 80229-6901 175-227-8		INSURER(S) AFFORDING COVERAGE		NAIC #
		INSURER A: FEDERATED MUTUAL INSURANCE COMPANY		13935
		INSURER B: FEDERATED SERVICE INSURANCE COMPANY		28304
		INSURER C:		
		INSURER D:		
		INSURER E:		
INSURER F:				

COVERAGES**CERTIFICATE NUMBER: 1844****REVISION NUMBER: 0**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY	N	N	9191545	03/31/2021	03/31/2022	EACH OCCURRENCE	\$1,000,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$100,000
							MED EXP (Any one person)	EXCLUDED
							PERSONAL & ADV INJURY	\$1,000,000
							GENERAL AGGREGATE	\$2,000,000
							PRODUCTS - COMPIOP AGG	\$2,000,000
							GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	
	OTHER:							
A	AUTOMOBILE LIABILITY	N	N	9191545	03/31/2021	03/31/2022	COMBINED SINGLE LIMIT (Ea accident)	\$1,000,000
	<input checked="" type="checkbox"/> ANY AUTO						BODILY INJURY (Per person)	
	<input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS						BODILY INJURY (Per accident)	
	<input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR	N	N	9191547	03/31/2021	03/31/2022	EACH OCCURRENCE	\$9,000,000
	<input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE						AGGREGATE	\$9,000,000
	DED <input type="checkbox"/> RETENTION							
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY	N / A	N	9191546	04/01/2021	04/01/2022	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						E.L. EACH ACCIDENT	\$500,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	\$500,000
							E.L. DISEASE - POLICY LIMIT	\$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER**CANCELLATION**175-227-8
TOWN OF FRISCO
102 SCHOOL RD
PO BOX 4100
FRISCO, CO 80443-4100

1844 0

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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WOMEN'S BUSINESS ENTERPRISE
NATIONAL COUNCIL

JOIN FORCES. SUCCEED TOGETHER.

HEREBY GRANTS WOMAN OWNED SMALL BUSINESS (WOSB) CERTIFICATION TO

Colorado Lighting, Inc. DBA CLI Services

The identified small business is an eligible WOSB for the WOSB Program, as set forth in 13 C.F.R. part 127 and has been certified as such by an SBA approved Third Party Certifier pursuant to the Third Party Agreement, dated June 30, 2011, and available at www.sba.gov/wosb.

The WOSB Certification expires on the date herein unless there is a change to the SBA's regulation that makes the WOSB ineligible or there is a change in the WOSB that makes the WOSB ineligible. If either occurs, this WOSB Certification is immediately invalid. The WOSB must not misrepresent its certification status to any other party, including any local or State government or contracting official or the Federal government or any of its contracting officials.

Majority Female Owner: Norma Frank

NAICS: 236220, 238210, 339950, 423440, 423610, 541350, 561790
UNSPSC: 25101925, 32101636, 32101641, 39101600, 39101601, 39101603, 39101605, 39101606, 39101609, 39101610, 39101612, 39101613, 39101614, 39101615, 39101616, 39101617, 39101618, 39101619, 39101621, 39101622, 39101624, 39101626, 39101627, 39101628, 39101804, 39101805, 39101806, 39101900, 39101901, 39101902, 39101903, 39101904, 39101905, 39101906, 39101907, 39111500, 39111501, 39111503, 39111504, 39111505, 39111506, 39111507, 39111508, 39111509, 39111510, 39111512, 39111515, 39111516, 39111521, 39111522, 39111524, 39111525, 39111527, 39111529, 39111530, 39111532, 39111533, 39111535, 39111536, 39111537, 39111538, 39111539, 39111541, 39111543, 39111544, 39111600, 39111603, 39111605, 39111606, 39111608, 39111609, 39111610, 39111611, 39111612, 39111613, 39111615, 39111616, 39111617, 39111618, 39111619, 39111700, 39111704, 39111707, 39111708, 39111709, 39111710, 39111712, 39111800, 39111801, 39111802, 39111803, 39111806, 39111809, 39111810

Certification Number: WOSBI70322

Renewal Date: January 31, 2023

SBA WOSB Expiration Date: 1/31/2023

WBENCWEST
WOMEN'S BUSINESS ENTERPRISE COUNCIL
FOR FEDERAL RECORD PURCHASE

Pamela Williamson, PhD

Pamela Williamson, Women's Business
Enterprise Council - West President & CEO

Pamela A. Prince-Easton

Pamela Prince-Easton, WBENC President & CEO

Lakesha White

Lakesha White, Vice President, Certification



National Women's Business Enterprise Certification

Colorado Lighting, Inc. DBA CLI Services

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE). This certification affirms the business is woman-owned, operated and controlled and is valid through the date herein.

WBENC National WBE Certification was processed and validated by Women's Business Enterprise Council - West, a WBENC Regional Partner Organization.

Certification Granted: January 31, 2017
Expiration Date: January 31, 2023
WBENC National Certification Number: WBENC1700041

Pamela Williams, Ph.D.

Authorized by Pamela Williamson, President &
CEO Women's Business Enterprise Council -
West

WBECWEST
WOMEN'S BUSINESS ENTERPRISE COUNCIL

[illegible]

WBECSOUTH
A DIVISION OF WBECSOUTH, INC.
10000 W. 10TH AVE., SUITE 100
DENVER, CO 80202
TEL: 303.755.1000
WWW.WBESOUTH.COM

WBEC SOUTH