



April 9, 2024

To: Sam Anselm, City Administrator
Kellie Mayers, City Clerk

From: Mike Davis, Parks Manager
Kristopher Bates, Purchasing Agent

Re: Lighting at Hilburn

Executive Summary

The primary objective of this proposal is to replace the existing ballfield lighting system with LED lighting, ensuring optimal visibility for players and spectators, while also considering energy efficiency and cost-effectiveness.

Discussion

LED lighting offers numerous advantages over traditional lighting systems, including:

Improved visibility: LED lights provide better illumination, enhancing visibility for players and spectators, thereby improving overall safety and enjoyment.

Energy efficiency: LED technology consumes less energy compared to traditional lighting systems, resulting in lower electricity bills and reduced environmental impact.

Longevity: LED lights have a longer lifespan, reducing maintenance costs and ensuring reliable performance for an extended period. After careful evaluation of bids, LED Lighting Supply has offered the lowest bid of \$46,363.08 for the LED ballfield replacement project.

Fiscal Impact

The total budget allocated for this endeavor is \$60,000. This leaves a surplus that can potentially cover additional expenses, such as the installation of a batter's eye, ensuring that the project remains within budget.



Lighting Specialist: Joe Hawkins
 Email: jhawkins@ledlightingsupply.com
 Phone: 617-468-7352

Quote/Estimate

Estimate No. 44556
 Date: 01/10/2024

Bill To

Contact:
 Company: West Plains
 Address:

Ship To

Contact:
 Company: West Plains
 Address:

Phone:
 Email:

Shipping Terms	Shipping Lead Time	Payment Terms	Payment Type
	Built to Order 6 Weeks	Full Payment Required	

Qty	Item #	Description	Unit Price	Total
84	MLLG-AG-LED-IMF-400-5-60-TR	400W Industrial LED Modular Flood Light, IP66, Marine Grade Corrosion Resistant Hardware, 56,000 lumen, 5000K, 100-277VAC, Optic - 60D, 10KV surge protection, Silver, Trunnion Mount and 5yr warranty	\$518.91	\$43588.44
120	MLLG-AG-LED-IMF-45D	45 Degree Optic for MLLG-AG-LED-IMF - Industrial Flood Light - Order 1 per 200W Module.	\$4.65	\$558.00
24	MLLG-AG-LED-IMF-30D	30 Degree Optic for MLLG-AG-LED-IMF - Industrial Flood Light - Order 1 per 200W Module.	\$4.65	\$111.60
84	MLLG-AG-LED-IMF-Visor	Visor for MLLG-AG-LED-IMF - Industrial Flood Light	\$25.06	\$2105.04
1	Shipping and Handling	Please note all product must be inspected, all parts confirmed as received and any damage must be reported to LED Lighting Supply/DRK Enterprises within 7 days of receipt. After 7 days, LED Lighting Supply/DRK Enterprises is no longer responsible for damaged or missing product.	\$0.00	\$0.00
			Sub Total	\$46363.08
			Sales Tax	\$0.00
			Cash Price	\$46363.08

- * Quote is valid for 14 days from date of quote.
- * No refunds or cancellations on custom or special orders.
- * Non-USA customers are responsible for all duties, taxes and shipping charges. Payment will be made in full before shipping unless alternative terms have been agreed to.
- * Sales Tax will be added where applicable. If you have a Reseller or Tax Exempt Certificate, please email to your sales rep.
- * All warranties are manufacturer warranties unless otherwise specified.

www.ledlightingsupply.com

DRK Enterprises LLC DBA LED Lighting Supply - 1 Chestnut Street, Suite 4M, Nashua NH 03060

West Plains | Outdoor: Baseball/Softball



Joe Hawkins
Lighting Specialist

📞 617-468-7352

✉️ jhawkins@ledlightingsupply.com

🌐 ledlightingsupply.com

📄 [Get A Lighting Plan Or Quote](#)



LED LIGHTING SUPPLY Rated 4.9/5 based on 300+ Trustpilot reviews

Date: 1/10/2024



DRK Enterprises LLC / LED Lighting Supply

1 Chestnut Street, 4M

Nashua, NH 03060

(888) 423-3191

www.ledlightingsupply.com

This Lighting Plan Analysis ("Lighting Design") provided by the DRK Enterprises LLC / LED Lighting Supply ("DRK") represent an anticipated prediction of lighting system performance based upon design parameters and information supplied by others. These design parameters and information provided by others have not been field verified by DRK, and therefore, DRK does not warrant, either implied or stated, nor represents the appropriateness, completeness or suitability of the Lighting Design as compliant with any applicable regulatory code requirements with the exception of those specifically identified in this plan, as advisory documents for informational purposes and is not intended for construction nor as being part of a project's construction documentation package. Replacing fixtures in this lighting design with other fixtures voids the results provided within the lighting plan. This lighting plan represents the photometric output of the fixtures specified within this plan.

The bottom left of the lighting plan is position (x,y) of 0,0

For each fixture:

x represents the distance on the horizontal axis from this bottom left corner. The more right you go, the higher the number.

y represents the distance on the vertical axis from the bottom left corner. The higher you go, the larger the number. z represents mounting height, or the distance above the ground.

Orientation is the angle relative to the mounting position.

Once a fixture is mounted on the pole at height z, the installer will rotate the fixture to a location on the field (orientation) and then tilt the fixture so the beam of light lights up a specific location on that field.

Ref No:

Luminaire Schedule		Qty	Label	Arrangement	LLF	Total Lamp Lumens
Symbol	12	30	MLLG-AG-LED-IMF-400-5-TR-30D	Single	1.000	54859
			MLLG-AG-LED-IMF-400-5-TR-45D	Single	1.000	54612

Label	Qty	Label	Arrangement	LLF	Total Lamp Lumens
MLLG-AG-LED-IMF-400-5-TR-30D	30	MLLG-AG-LED-IMF-400-5-TR-30D	Single	1.000	54859
MLLG-AG-LED-IMF-400-5-TR-45D	30	MLLG-AG-LED-IMF-400-5-TR-45D	Single	1.000	54612

Calculation Summary		Units	Max	Min	Avg/Min	Max/Min
Left Field Planar	I	Fc	42.0	1.2	9.82	35.00
Right Field Planar	I	Fc	42.0	1.2	9.82	35.00
Left Infield	I	Fc	46.4	2.8	6.04	14.43
Right Infield	I	Fc	46.4	2.8	6.04	14.43
Left Outfield	I	Fc	15.9	1.2	7.01	5.75
Right Outfield	I	Fc	15.9	1.2	7.01	5.75
Left Infield	I	Fc	25.36	46.4	11.5	2.21
Right Infield	I	Fc	25.36	46.4	11.5	2.21
Left Outfield	I	Fc	13.69	24.1	2.8	4.89
Right Outfield	I	Fc	13.69	24.1	2.8	4.89

LED LIGHTING SUPPLY

400 Watt LED Area Sport Light | 56000 Lumens | 5000K

[View Product Page](#)

Product Details

SKU: MLLG-AG-LED-IMF-400-5-[Optic]TR Web ID: 1654



400 Watt Commercial LED Flood Light - Sport Light produces 56000 lumens at 140 lumens/watt. The high energy efficiency of these lights will provide significant energy savings compared to metal halide and halogen bulbs. This LED fixture is an ideal replacement for existing 1000 Watt Metal Halide when being energy efficient is a priority. Aluminum lighting modules can be adjusted individually. All fixtures are equipped with a 1-10V dimmable driver and built-in 10KA surge protection to enhance the durable construction of the unit. Ideal for outdoor projects such as perimeter security lighting parking lot lighting sports fields and other commercial lighting applications.

The fixtures come standard with a 100V-277V or 277V-480V LED Driver to power the LED chips and come available in 4000K or 5000K color temperature. 60 (std) to 10, 15, 30, 45, 60, 90, 120 degree beam angle for ideal luminous flux. 10, 15, 30, 45, 60, 90, 120 beam angle available. This fixture has several different mounting options including slip fitter or trunion for near universal mounting options.

These fixtures are Wet location IP66 and High Impact IK08 Rated and can operate from -22F to 113 F.

Product Specifications

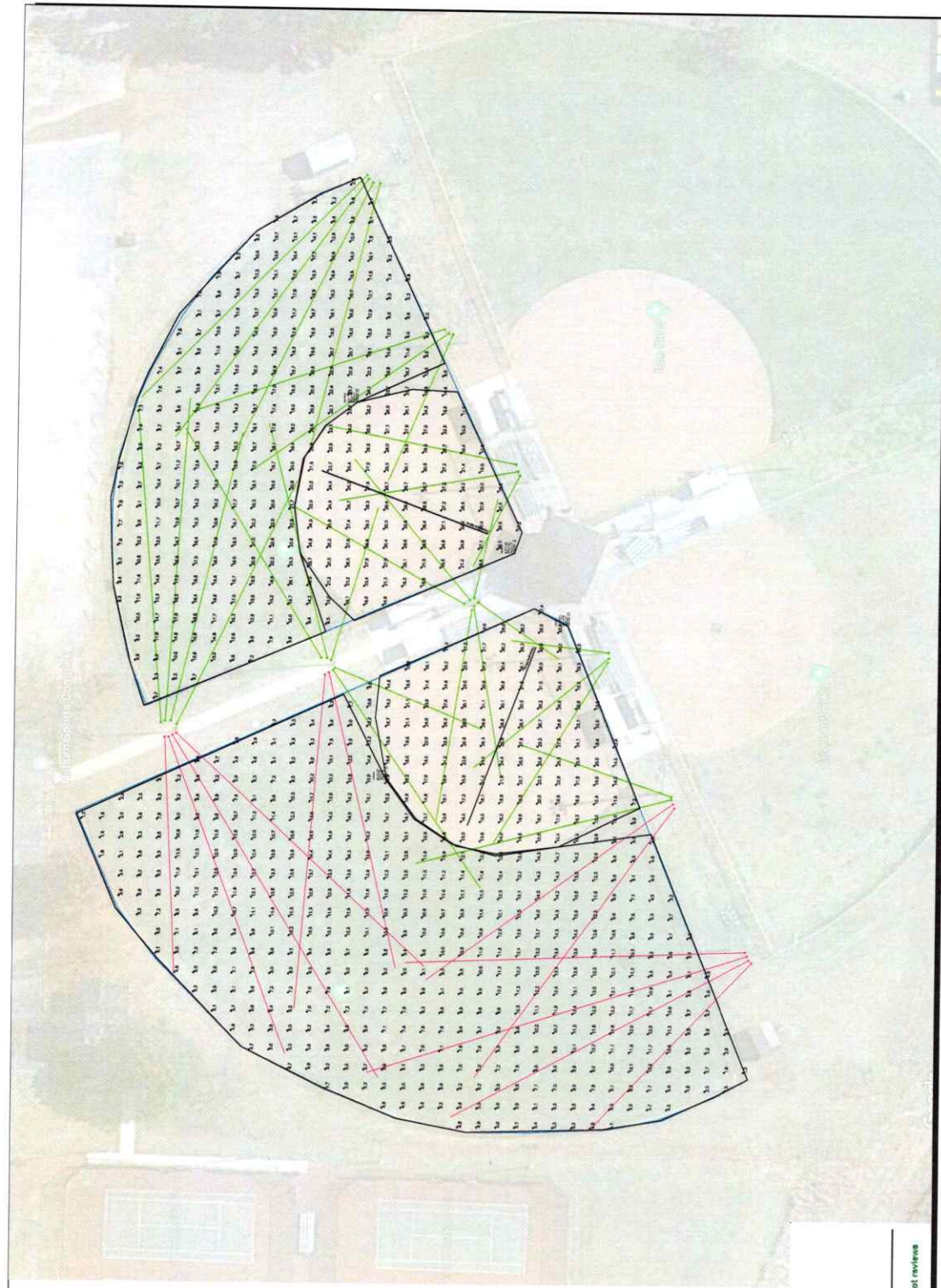
Watts:	460	Dimmable:	1-10V
Lumens:	56000	Beam Angle:	60°(std) 10° 15° 30° 45°
Lumens/Watt:	140	Optics:	Polycarbonate Optics and Tempered Glass Lens
Replaces:	1000 Watt Metal Halide	Frequency:	50/60Hz
Color Temp:	4000K 5000K	Housing:	Powder Coated Aluminum
CRI:	70+	Fixture Color:	Gray
IP Rating:	IP66	Mounting:	Slip Fitter Trunion
IK Rating:	IK08	EPA Rating:	1.89
Input Voltage:	100V-277V 277V-480V	Dimensions:	18.82 in X 10.63 in X 15.35 in
Surge Protection:	6kV line-line, 10kV line-earth	Weight:	24 lbs
Operating Temp:	-22°F to +113°F	Warranty:	5 years
Rated Life:	175,000 (L70) hours		



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Lighting Specialist

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400 Watt LED Area Sport Light | 56000 Lumens | 5000K



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The fixtures come standard with a 100V-277V or 277V-480V LED Driver to power the LED chips and come available in 4000K or 5000K color temperature. 60 (std) 10 15 30 45 beam angle comes standard for ideal luminous flux. 10 15 30 45 40 100 beam angles are available. This fixture has several different mounting options including slip fitter or trunnion for near universal mounting options.

These fixtures are Wet location IP66 and High Impact IK08 Rated and can operate from -22 F to 113 F.

Product Specifications

Watts:	400	Dimmable:	1-10V
Lumens:	56000	Beam Angle:	60°(std), 10°, 15°, 30°, 45°
Lumens/Watt:	140	Optics:	Polycarbonate Optics and Tempered Glass Lens
Replaces:	1000 Watt Metal Halide	Frequency:	50/60 hz
Color Temp:	4000K 5000K	Housing:	Powder Coated Aluminum
CRI:	70+	Fixture Color:	Gray
IP Rating:	IP66	Mounting:	Slip Fitter Trunnion
IK Rating:	IK08	EPA Rating:	1.89
Input Voltage:	100V-277V 277V-480V	Dimensions:	18.82 in X 10.63 in X 15.35 in
Surge Protection:	6kV line-line, 10kV line-earth	Weight:	24 lbs
Operating Temp:	-22°F to +113°F	Warranty:	5 years
Rated Life:	176,000 (L70) hours		

Product Options

Pipe Mount Adapter

Trunnion Bracket Mount
Slipfitter Mount

Visor

Visor Kit

Product enhancements may result in specification changes without notice. Contact us for the latest information

Joe Hawkins, Lighting Specialist | 617-468-7352 | jhawkins@ledlightingsupply.com

LED Flood Light

Instruction Manual

MLLG-AG-LED-IMF



Wiring Diagram



Troubleshooting

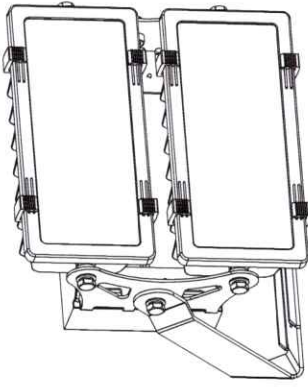
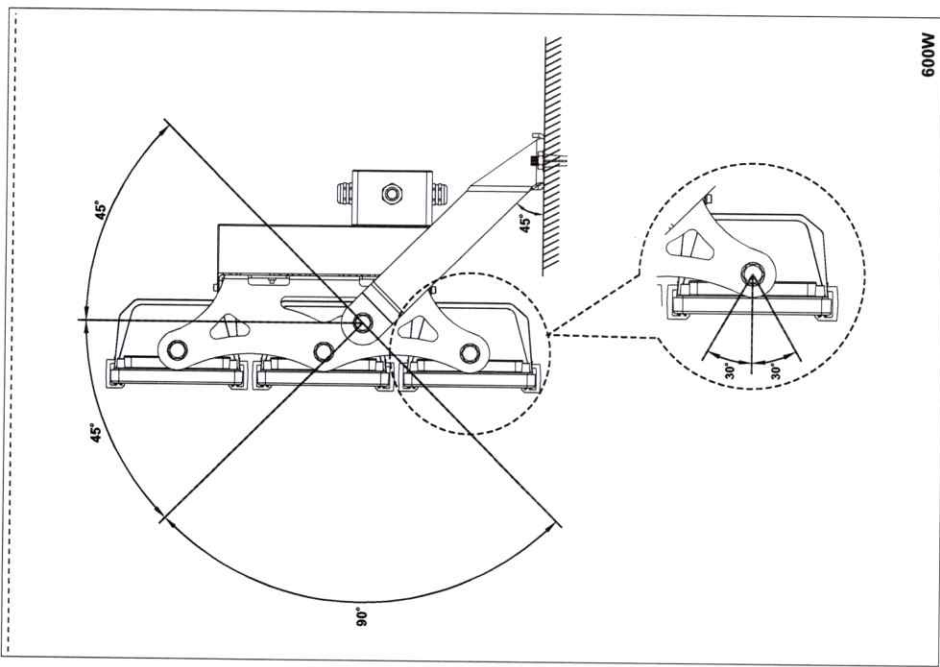
Problem	Possible Cause	Solutions
LEDs stop working	The power line is improperly connected. The power plug is loose. The LED driver malfunctions. The LED chip is damaged.	Reconnect the power cable. Firmly plug the power in. Replace with new driver. Replace with new LEDs.
LEDs flash on and off	The output of the driver is abnormal. The LED chip breaks down.	Replace with new driver. Replace with new LED chip.

Warranty

5 years warranty for original purchaser of LED product that is identified on seller's invoice reflecting its original purchase (the "Product").

- In order to make a warranty claim, you must notify seller in writing within sixty(60) days after your discovery of the defect. Provide proof of purchase such as the invoice and comply with seller's other warranty requirements. Upon notice, to ascertain why fixtures stop working, evidences would be needed for seller's QC Team to analyze. Seller may require you to promptly return the Product to Seller when necessary, freight prepaid.
 - The determination of whether the Product is defective shall be made by Seller in its sole discretion with consideration given to the overall performance of the Product.
 - If seller determines the Product is defective, Seller will elect, in its sole discretion, repair the Product or replace the Product. Seller reserves the right to utilize new, reconditioned, refurbished, repaired or remanufactured products or parts in the warranty repair or replacement process. Such products and parts will be used in conjunction and performance to an original product or part, as determined by Seller in its sole discretion. The remainder of the original warranty period, however, will be extended to the end-user facility. The cost of labor and equipment to remove the defective Product and install a replacement Product at the end-user facility are excluded. Supplier's aggregate liability in respect to a defective product shall in any event be limited to the money paid to buyer for that defective product.
- The following circumstances will not be warranted:**
- Damage caused by force majeure such as war, riots, sabotage, cyclones, earthquakes, tidal waves, flooding, lightning strikes, explosions, fire, flood, etc.
 - Damage caused by user's improper delivery, defects caused by wrong operation, wrong treatment or destruction of machinery.
 - Damage caused by modification or improper maintenance or repairing of the products without the supplier's approval.
 - Damage caused by buyer or installer using bad quality cable or other mismatching electronic parts.
 - This warranty is invalid if the product is not used for the purpose for which is originally designed. Any disputes occurred shall be applied to the laws and regulations of P.R.C.

The seller has the sole right to interpret and amend the above articles.



200W/400W/600W

Reminder

We appreciate your purchase!
Please read the instruction manual before installation and keep it for future reference.

Warning

- To avoid damage, falling, electric shock or fire, please do not modify the lamp or replace accessories without confirming with the supplier first.
- Please authorize only qualified personnel to install the lamp and ensure they follow the instruction manual. Any improper installation might cause falling, electric shock, fire, or other injury, damage or hazard.
- Please disconnect power before installation or any maintenance of the lamp.
- Please disconnect power if it begins to smoke or emit odors, since fire or electric shock may occur. Ask qualified person to inspect and maintain the luminaire.
- Please do not dismantle the lamp without the supplier's authorization.
- Please do not touch the power supply when the lamp is operating.
- If the external flexible cable or cord of the luminaire is damaged, it should only be replaced by the supplier, a service agent or qualified person.
- Terminal block not included. The electrical fitting must be installed by a licensed electrician.
- The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.
- Only to be installed outside arms reach.
- For use in environments where an accumulation of non-conductive dust on the luminaire may be expected.
- Mounting heights of lights not higher than 25m.



Caution risk of electric shock

Application

With aluminum heat sink, high-brightness SMD chip, high-efficiency constant current and voltage power driver, the LED Flood Light is designed for applications in large industrial areas like airports, big docks, squares, stadiums, etc.

Technical Parameters

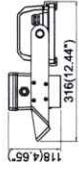
Product Specifications	200W	400W	600W
Input Voltage	100-277V (standard) / 277-480V (optional)		
Power Frequency	50 / 60Hz		
Outlook Dimensions	321x316x118mm (12.64"x12.44"x4.65")	419x340x222mm (16.5"x13.39"x8.74")	529x340x226mm (20.83"x13.39"x8.9")
Luminaire Net Weight	4.1±0.3kg (9.04±0.66Lbs)	9.4±0.3kg (20.72±0.66Lbs)	15.3±0.5kg (33.73±1.1Lbs)
Working Temperature	-30°C to +40°C (-22°F to +104°F)		
Storing Temperature	-40°C to +70°C (-40°F to +158°F)		

Installation Instructions

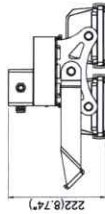
Physical Dimensions (mm/inch)



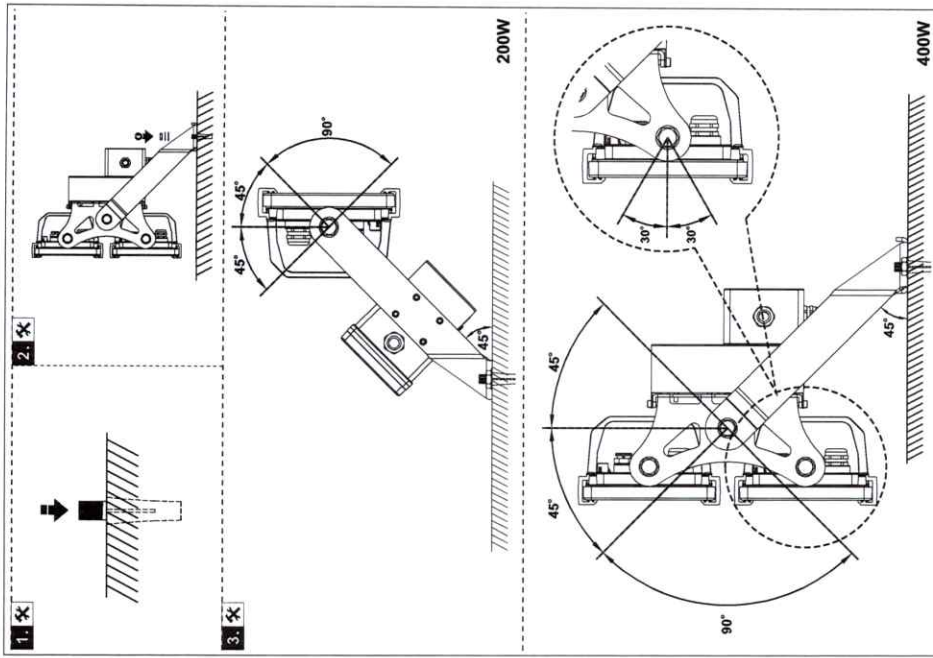
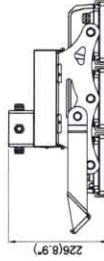
200W



400W



600W





Fletcher-Reinhardt Company

Wholesale Distributors of Electric Utility and Industrial Equipment

FLETCHER-REINHARDT CO.
3105 CORPORATE EXCHANGE CT
BRIDGETON, MO 63044-3722
314-506-0700
Fax 314-506-0705



Quotation

QUOTE DATE	QUOTE NUMBER
04/04/2024	S1321034
FLETCHER-REINHARDT CO. 3105 CORPORATE EXCHANGE CT BRIDGETON, MO 63044-3722 314-506-0700 Fax 314-506-0705	PAGE NO. 1 of 1

QUOTE TO:
WEST PLAINS CITY
P O BOX 710
WEST PLAINS, MO 65775

SHIP TO:
WEST PLAINS, CITY OF
1602 SUNSET TER
WEST PLAINS, MO 65775-4124

CUSTOMER NUMBER	CUSTOMER PO NUMBER	JOB NAME / RELEASE NUMBER	SALESPERSON	
4932	BALLFIELD LIGHTING		Josh McGill	
WRITER	SHIP VIA	TERMS	EXPIRE DATE	FREIGHT ALLOWED
Jay Turner	DIRECT	Net 30 Days	05/04/2024	Yes
ORDER QTY	DESCRIPTION	UNIT PRICE	COMMENTS	
92ea	^KT-SLFLED500-S1-40-YM-750-VDIM 500W LED Sports Light Flood, 5000K, 70 CRI, 40° Beam Angle, 120-277V Input, 0-10V Dimmable, Yoke Mount and Glare Shield Included, Series 1 Small Housing, Gray. Fully Assembled, KEYSTONE ***** SHIPPING MEMO	705.000/ea		

TERMS: NET 30 DAYS with payment via Check or ACH.
F.O.B. Point of Shipment, Freight Allowed unless otherwise stated.
This Quotation, including prices & lead-time, is subject to change in
the event of delays and adverse impacts that may be caused by forces
beyond Fletcher-Reinhardt Company's (FR) control. FR's Standard
Terms and Conditions of Sale dated January 1, 2000 apply to any
purchase from FR.
We appreciate your business.

Subtotal	64860.00
S&H Charges	0.00
Tax	0.00
Amount Due	64860.00

Luminaire Schedule Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
⊕	92	KT-SLFLED500-S1-40-YM-750-VDIM	Single	500W Sports Flood, 40° Beam	0.900	75469	520.9	47922.802

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Givehand Field	Illuminance	Fc	25.11	72	3	8.37	24.00
Richmond Field	Illuminance	Fc	25.07	74	5	5.01	14.80
Roe Field	Illuminance	Fc	23.80	82	1	23.80	82.00
Viridon Field	Illuminance	Fc	22.09	81	2	11.05	40.50
Givehand Infield	Illuminance	Fc	40.11	72.0	20.0	2.01	3.60
Givehand Outfield	Illuminance	Fc	19.13	49.0	3.0	6.38	16.33
Richmond Infield	Illuminance	Fc	40.39	74.0	21.0	1.92	3.52
Richmond Outfield	Illuminance	Fc	19.08	48.0	5.0	3.82	9.60
Roe Infield	Illuminance	Fc	47.89	82.0	18.0	2.66	4.56
Roe Outfield	Illuminance	Fc	16.13	81.0	1.0	16.13	81.00
Viridon Infield	Illuminance	Fc	48.07	80.0	19.0	2.53	4.21
Viridon Outfield	Illuminance	Fc	15.99	81.0	2.0	8.00	40.50



There are 12 poles onsite.

Four poles have 8 fixtures, split between fields (4x8 = 32).

Four poles have 6 fixtures, split between fields (4x6 = 24).

Four poles have 9 fixtures, with 6 facing the larger fields and 3 facing the smaller ones (4x9 = 36).

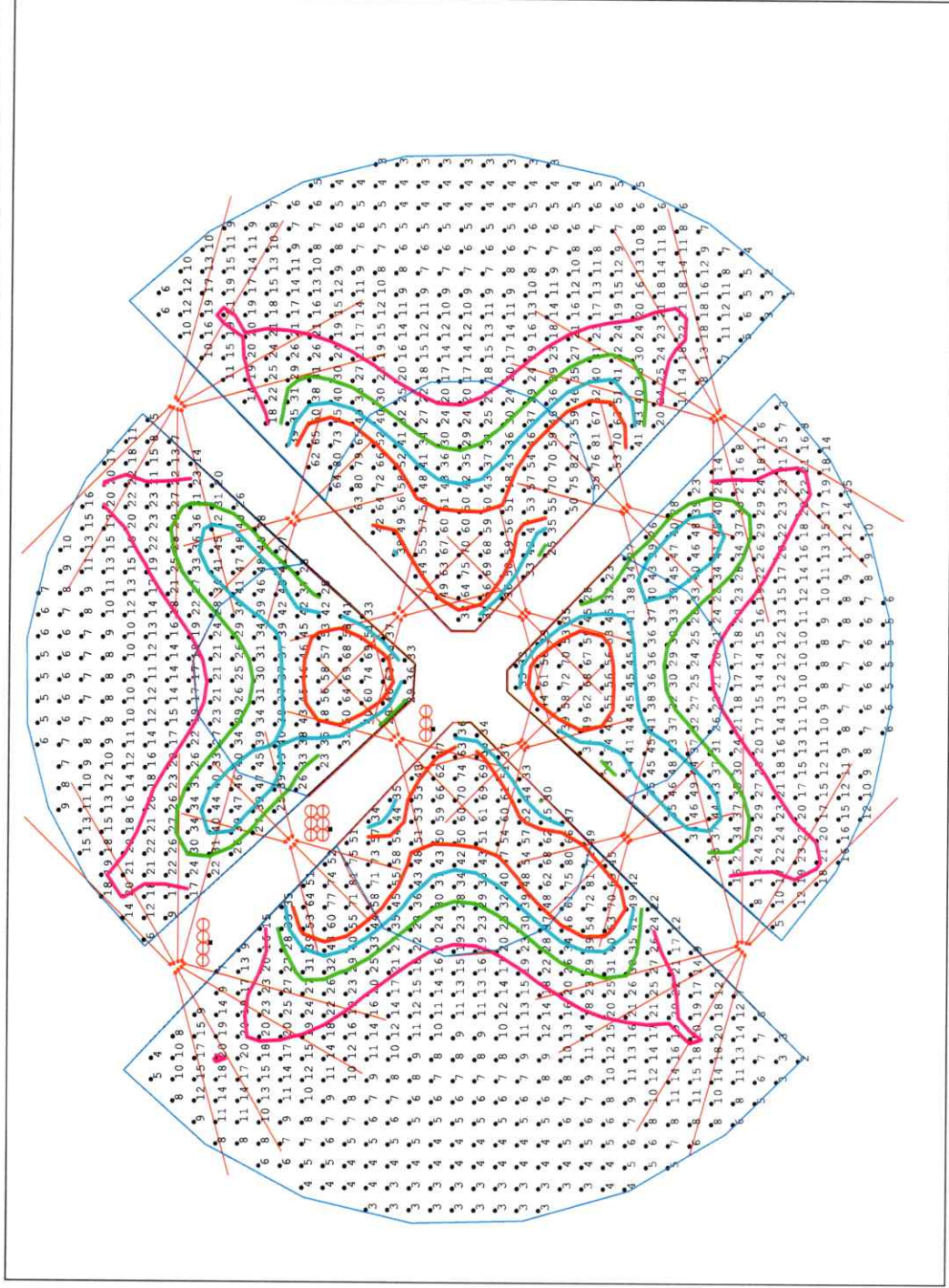
There are 92 fixtures.



Project: West Plains
 KT-SLFLED500
 MH = 42', 40'

Keystone Technologies Lighting Layout
 2750 Morris Road
 Lansdale, PA, 19446
 Phone: 1-800-464-2680
 LightingLayouts@keystonetechnology.com



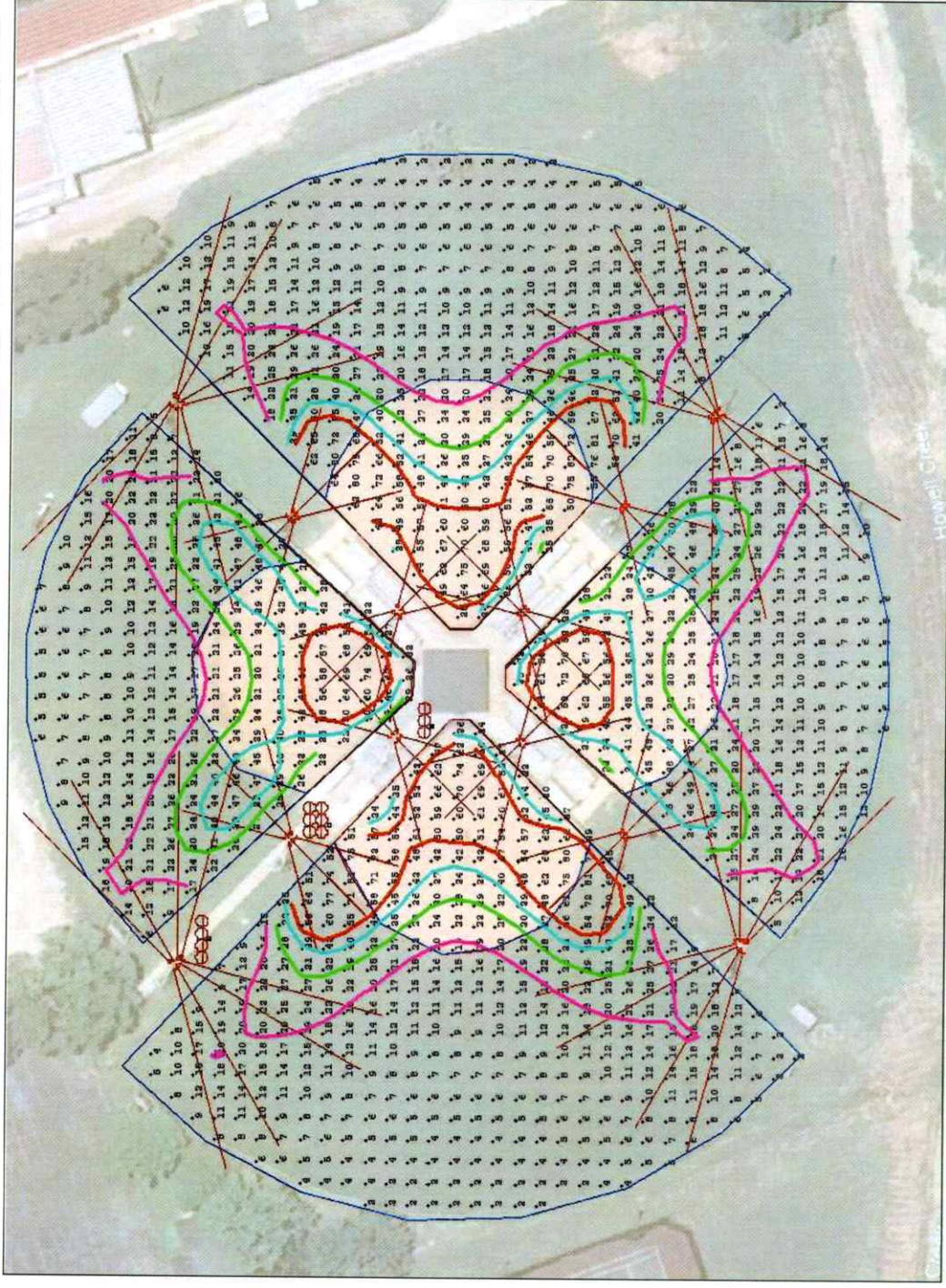


View of point by point

Project: West Plains
 KT-SLFLED500
 MH = 42', 40'
 Red = 50+ FC, Blue = 40 FC
 Green = 30 FC, Violet = 20 FC

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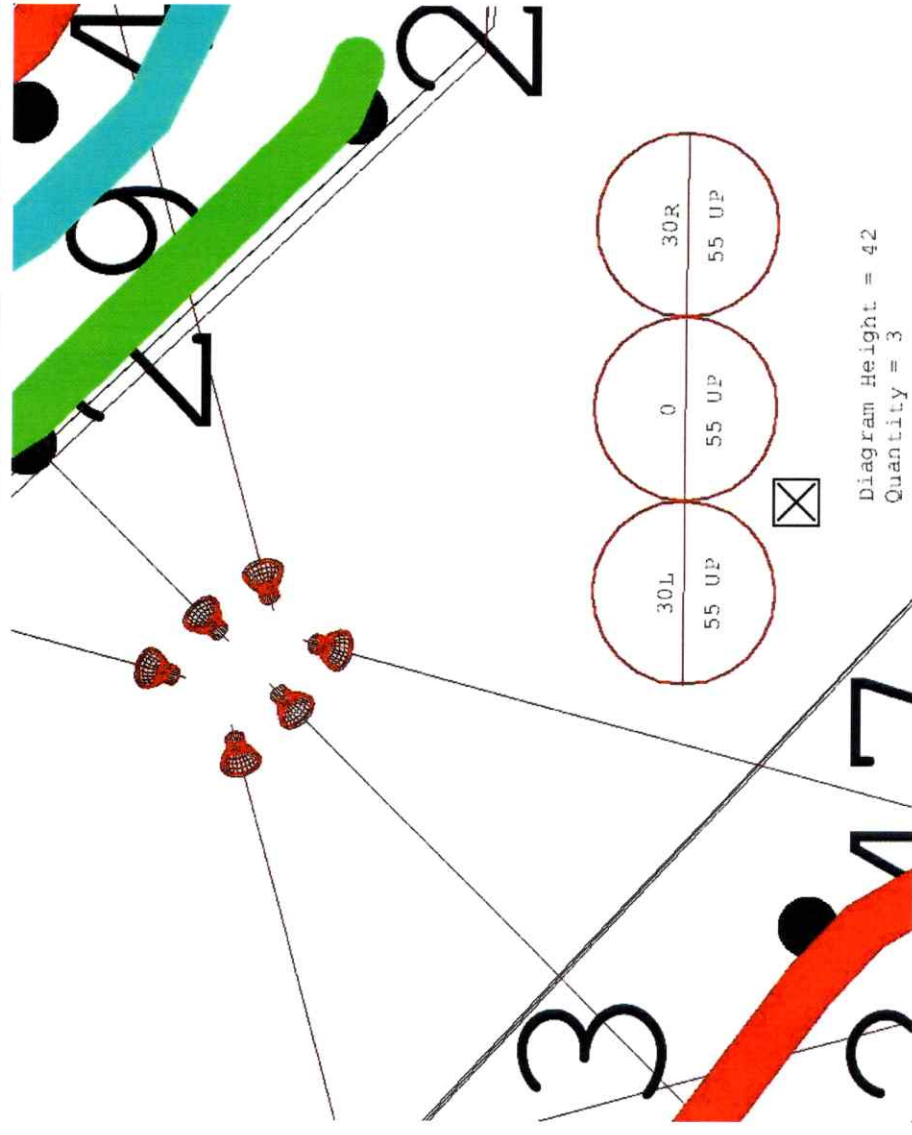




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In the aiming diagram, the angle of rotation is at the top and the angle of tilt is at the bottom.

The angles of horizontal rotation and their direction are indicated by 'L' and 'R' for left and right, in degrees, respectively.

<p>Project: West Plains KT-SLFLED500 MH = 42', 40'</p>	<p>Keystone Technologies Lighting Layout 2750 Morris Road Lansdale, PA, 19446 Phone: 1-800-464-2680 LightingLayouts@keystonetechn.com</p>
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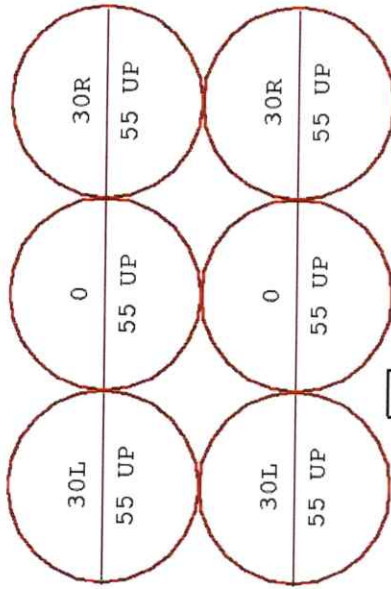
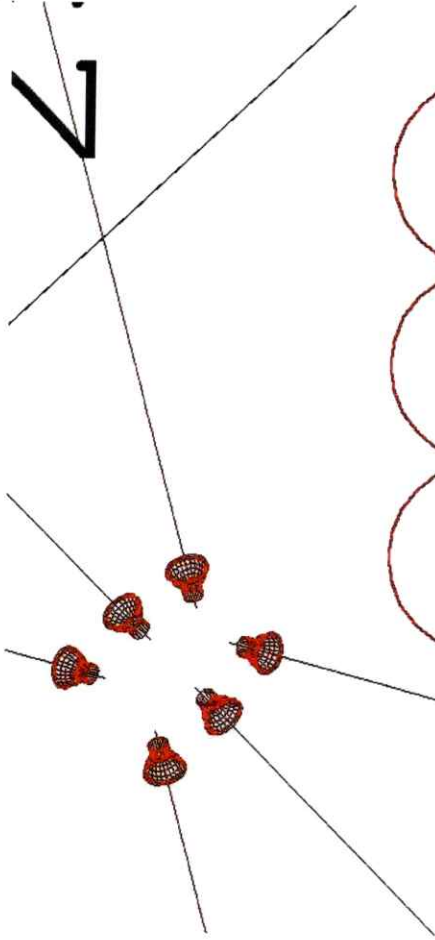


Diagram Height = 40
Quantity = 6

In the aiming diagram, the angle of rotation is at the top and the angle of tilt is at the bottom.

The angles of horizontal rotation and their direction are indicated by 'L' and 'R' for left and right, in degrees, respectively.

<p>Project: West Plains KT-SLFLED500 MH = 42', 40'</p>	<p>Keystone Technologies Lighting Layout 2750 Morris Road Lansdale, PA, 19446 Phone: 1-800-464-2680 LightingLayouts@keystonetechnology.com</p>
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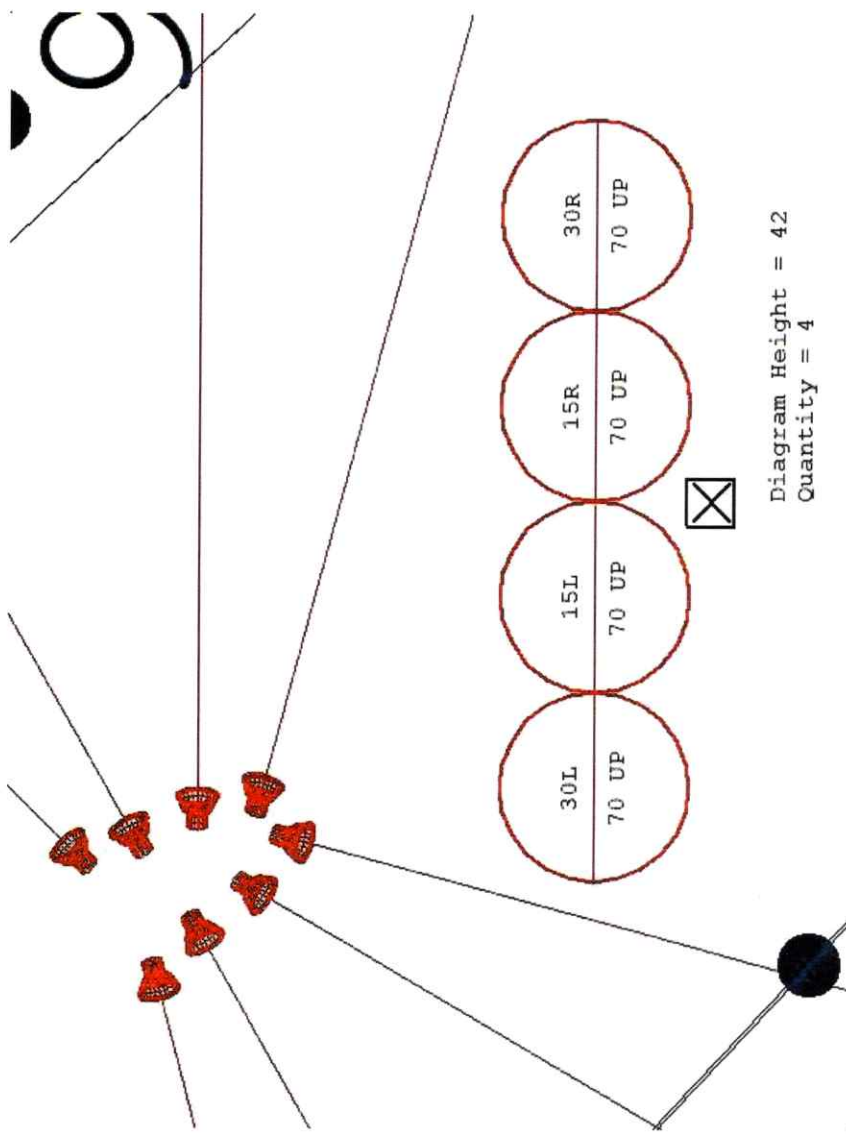
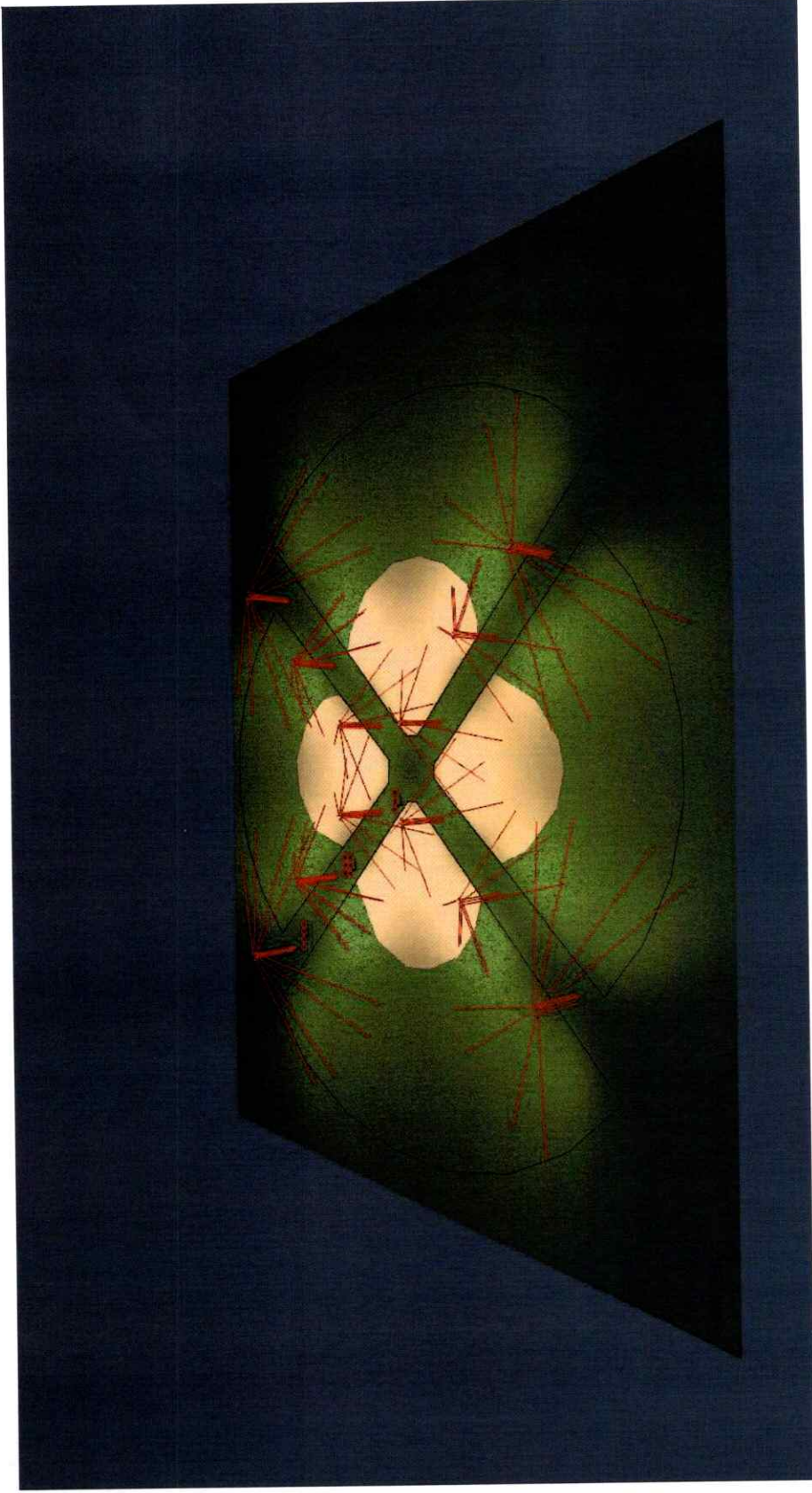


Diagram Height = 42
 Quantity = 4

In the aiming diagram, the angle of rotation is at the top and the angle of tilt is at the bottom.
 The angles of horizontal rotation and their direction are indicated by 'L' and 'R' for left and right, in degrees, respectively.

<p>Keystone Technologies Lighting Layout 2750 Morris Road Lansdale, PA, 19446 Phone: 1-800-464-2680 LightingLayouts@keystonetech.com</p>	<p>Project: West Plains KT-SLFLED500 MH = 42', 40'</p>
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Keystone Technologies Lighting Layout
2750 Morris Road
Lansdale, PA, 19446
Phone: 1-800-464-2680
LightingLayouts@keystonetechnology.com

Project: West Plains
KT-SLFLED500
MH = 42', 40'

Thank you for allowing Keystone Technologies the opportunity to create and provide this Lighting Layout report.

Illumination results shown on this lighting design are based on project parametrics provided to Keystone used in conjunction with luminaire photometric testing conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results, such as (but not limited to) windows, furnishings, floor/ceiling/wall surface texture reflectivity, site cleanliness, and lighting component tolerances. Illumination results shown have not been field verified by Keystone and therefore the actual measured results may vary from actual field conditions.

The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting, or energy code. In no event will Keystone Technologies be held responsible for any loss resulting from any use of this lighting design.

Project: West Plains
KT-SLFLED500
MH = 42', 40'

Keystone Technologies Lighting Layout

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Lansdale, PA, 19446
Phone: 1-800-464-2680
LightingLayouts@keystonetech.com



CELEBRATING 75 YEARS



KT-SLFLED500-S1-XX-YM-750-VDIM

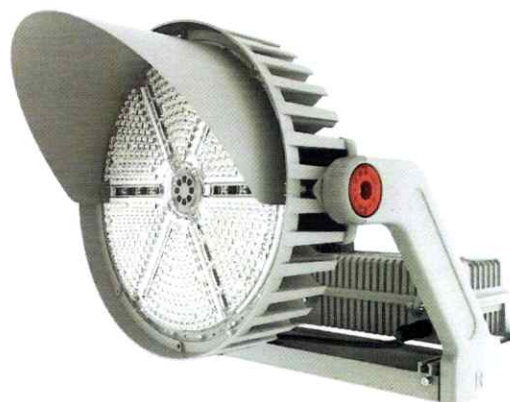
SPORTS LIGHT FLOOD

DESCRIPTION

500W Sports Light Flood | 5000K | Multiple Beam Angle
Options | 120-277V Input | Gray Housing

APPLICATION

High power, wide flood, pole mount illumination needs
(municipal parks and baseball fields, high school football stadiums, driving ranges, rodeos, ski resorts, etc.)



10 YEAR
LIMITED WARRANTY

PRODUCT FEATURES

- Heavy duty die cast aluminum housing in gray finish offers a durable and modern aesthetic while carrying inspiration from existing legacy fixture solutions. Optimized for HID replacement needs
- Precision crafted optics that ensure uniform, proper lighting. Available in multiple beam angle options (30° standard, 20°, 40°, 60°, and 80° optional)
- Glare shield included in packaging. Easy install for use as required by site demands
- Comes with shorting cap and integrated NEMA/ANSI C136.41 7 pin twist lock receptacle
- Designed for install as a single assembly or with remote driver box. Allows for on site flexibility and lower EPA ratings
- Pre installed yoke mount bracket. Slipfitter and knuckle mounts optional (sold separately)
- Fixture mountable laser accessory available for fixture aiming, KT-SLFLED-LASER-G (sold separately)
- Ambient operating temperature: -40°C/-40°F to 50°C/122°F
- Powered by Keystone 0-10V dimming LED driver
- UL Certified for wet locations; IP65 rated
- Power factor: > 0.95
- THD: < 20%
- LED chip lifetime: L70 > 100,000 hrs @ 25°C/77°F ambient fixture temperature
- Meets FCC Part 15, Part B, Class A standards for conducted and radiated emissions

DIMENSIONS AND WEIGHTS

Carton Dimensions	20.08"L x 21.65"W x 20.08"H
Carton Weight	41.01 lbs
Total Fixture Weight	38.58 lbs
Fixture Head Weight	26.54 lbs
Fixture Driver Box Weight	12.04 lbs

PRODUCT SPECIFICATIONS

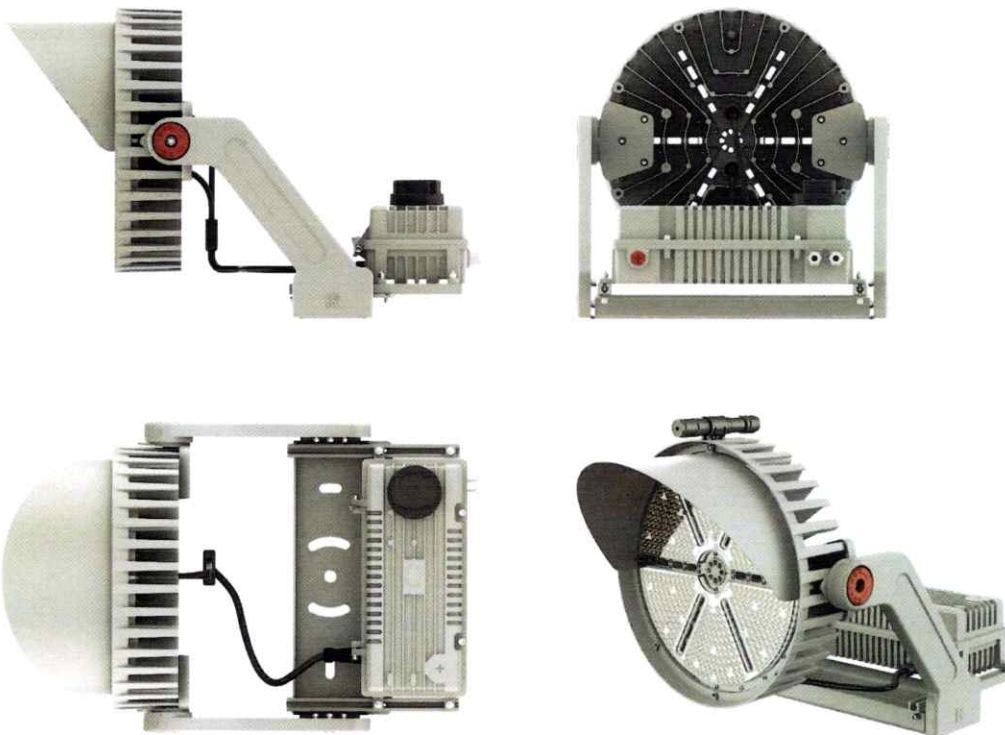
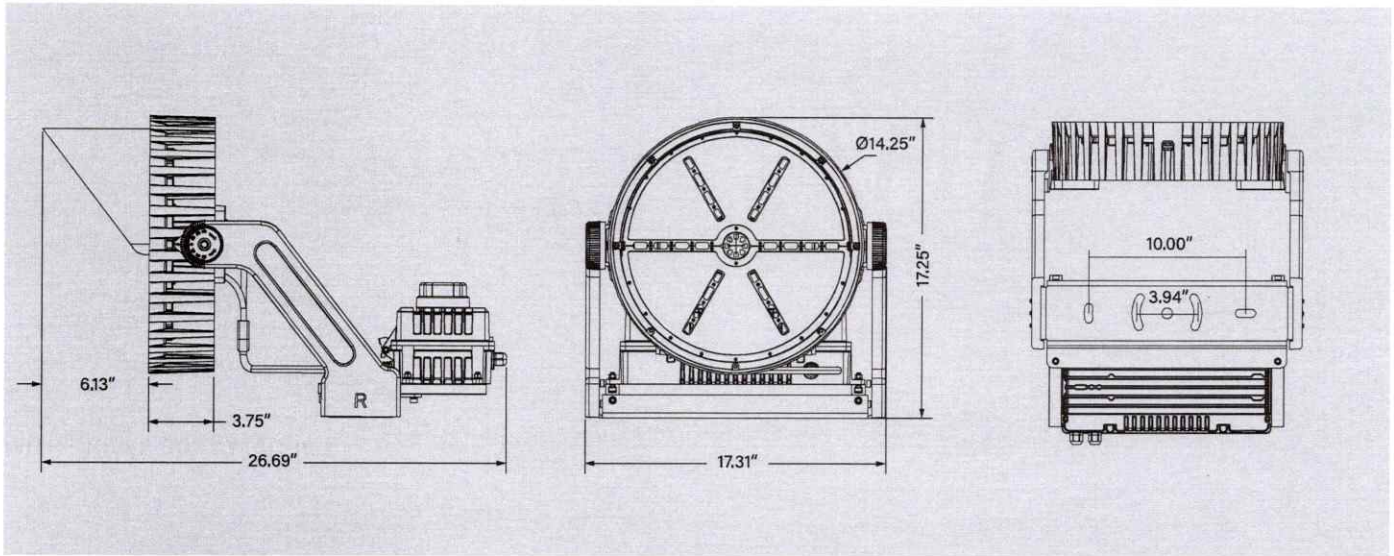
Catalog Number	Wattage	CCT	Lumens	Efficacy	Input Voltage	Dimming	Beam Angle	CRI	DLC	Legacy Equivalent
KT-SLFLED500-S1-20-YM-750-VDIM	500W	5000K	70,000	140 lm/W	120-277V	0-10V	20°	> 70	Y	1,500W MH
KT-SLFLED500-S1-30-YM-750-VDIM							30°			
KT-SLFLED500-S1-40-YM-750-VDIM							40°			
KT-SLFLED500-S1-60-YM-750-VDIM							60°			
KT-SLFLED500-S1-80-YM-750-VDIM							80°			

Note: Fixtures with 20°, 40°, 60°, and 80° beam angles are available and assembled to order. Lead times may apply.

KT-SLFLED500-S1-XX-YM-750-VDIM

SPORTS LIGHT FLOOD

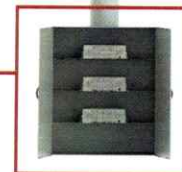
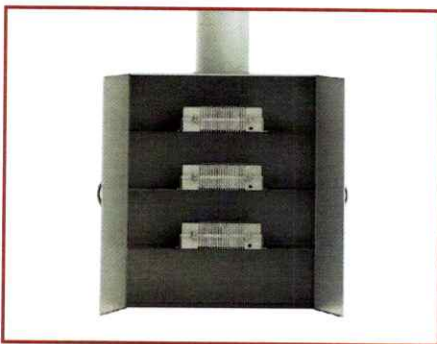
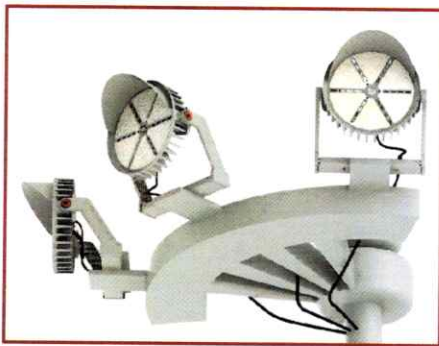
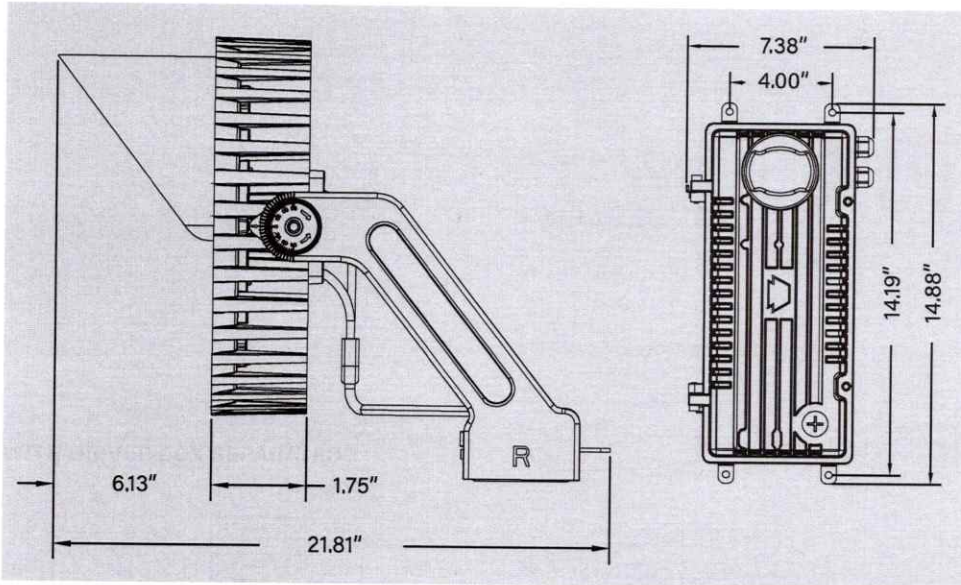
PHYSICAL SPECIFICATIONS WITH DRIVER BOX ATTACHED



KT-SLFLED500-S1-XX-YM-750-VDIM

SPORTS LIGHT FLOOD

PHYSICAL SPECIFICATIONS WITH DRIVER BOX SEPARATED



Note: Maximum cord length is 50 m / 164 ft

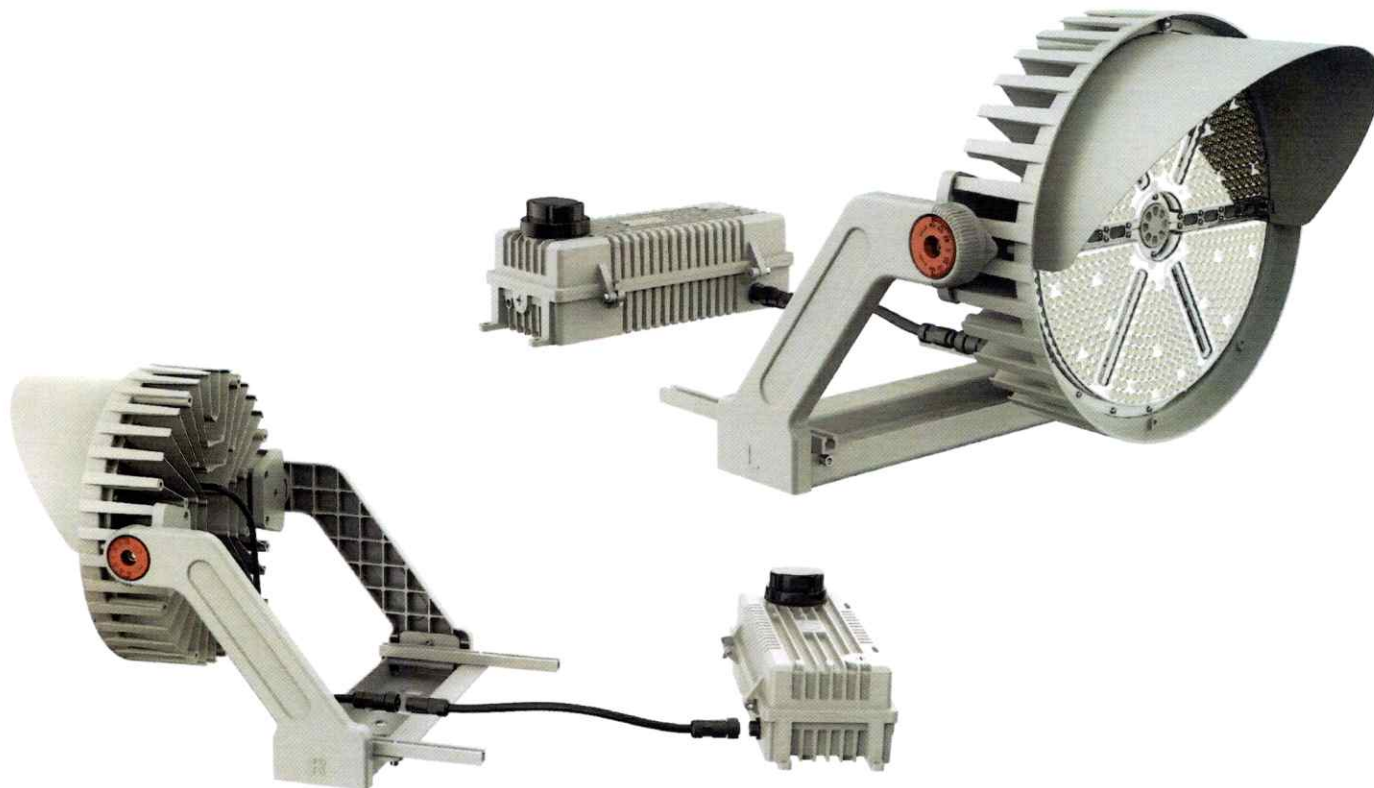
Note: Images are for reference only. Contact Keystone with questions regarding remote mounting and enclosures



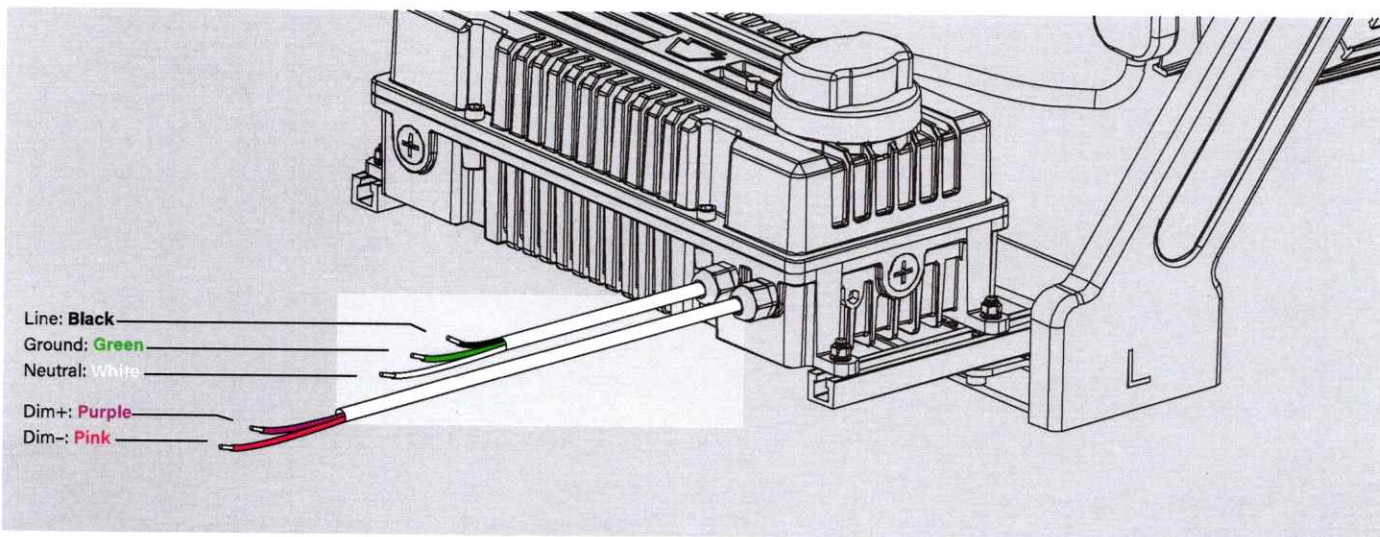
KT-SLFLED500-S1-XX-YM-750-VDIM

SPORTS LIGHT FLOOD

WITH DRIVER BOX SEPARATED



WIRING DIAGRAM



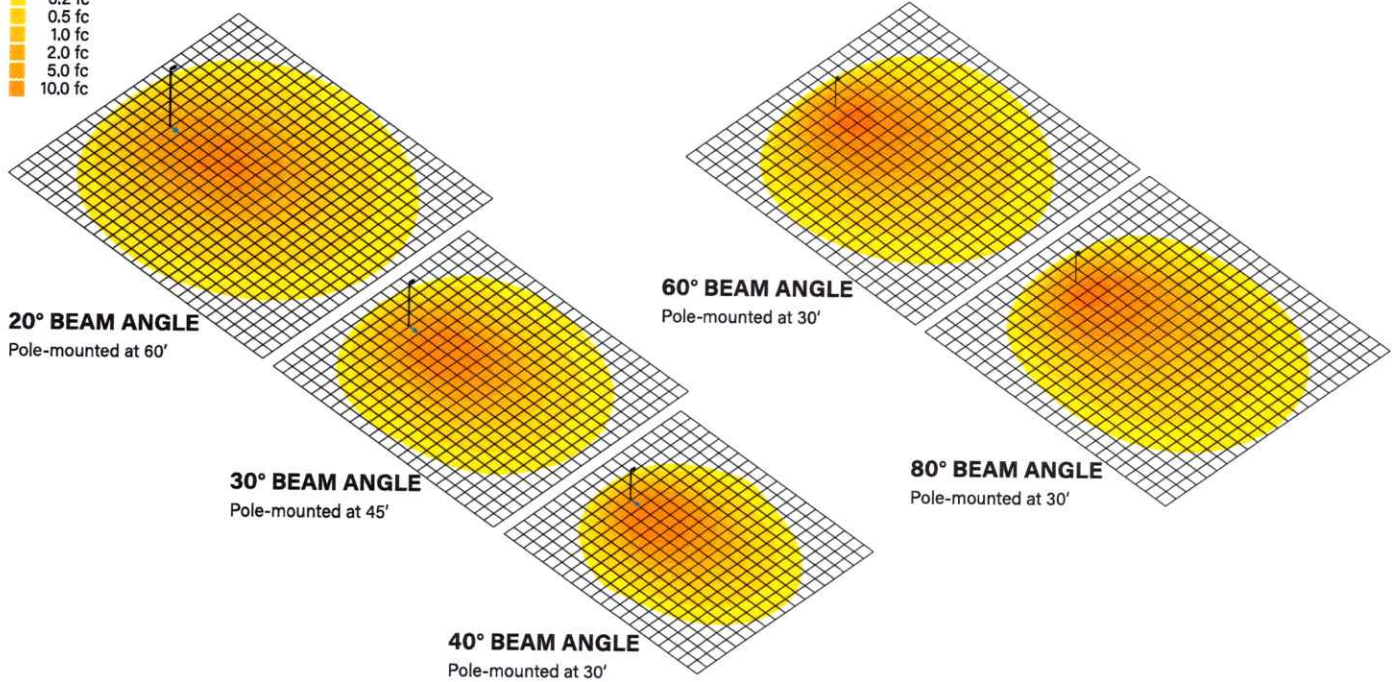
Note: 16 AWG cord. Input and dimming wires extend 3 ft from driver box.

KT-SLFLED500-S1-XX-YM-750-VDIM
SPORTS LIGHT FLOOD

LIGHT DISTRIBUTION PATTERN

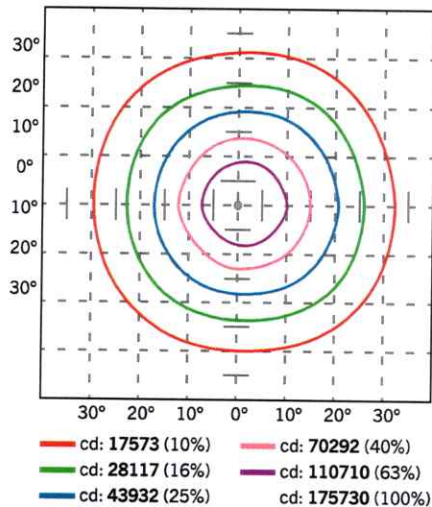
Photometric layouts for general reference only. All fixtures are pointed at 45° below horizontal. Each square is 10 ft x 10 ft

- 0.1 fc
- 0.2 fc
- 0.5 fc
- 1.0 fc
- 2.0 fc
- 5.0 fc
- 10.0 fc

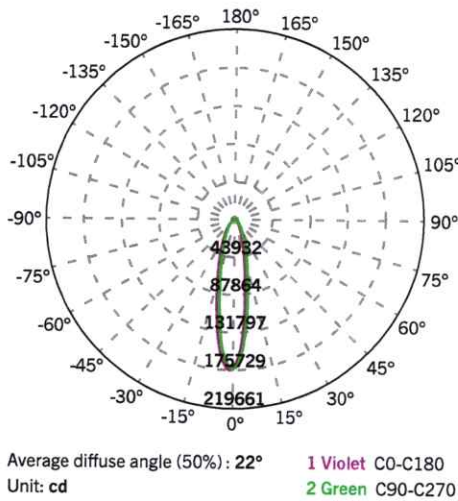


PHOTOMETRIC SPECIFICATIONS (20° BEAM ANGLE)

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	32,512	48.5%
0°-30°	20,640	30.8%
30°-60°	9,439	14.1%
60°-80°	2,284	3.4%
80°-90°	149	0.2%
Back Light	33,581	50.1%
0°-30°	21,327	31.8%
30°-60°	9,728	14.5%
60°-80°	2,365	3.5%
80°-90°	161	0.2%
Up Light	964	1.4%
90°-100°	76	0.1%
100°-180°	888	1.3%

(Photometric Specifications continued on next page)

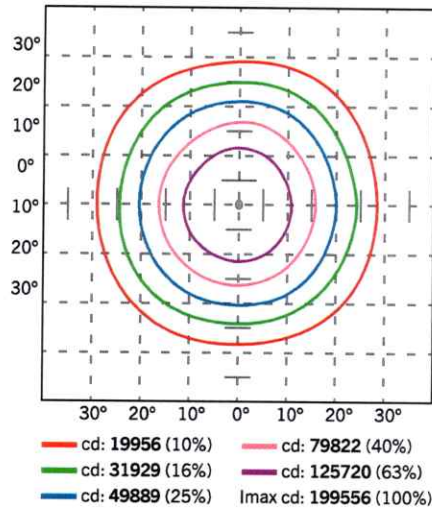


KT-SLFLED500-S1-XX-YM-750-VDIM

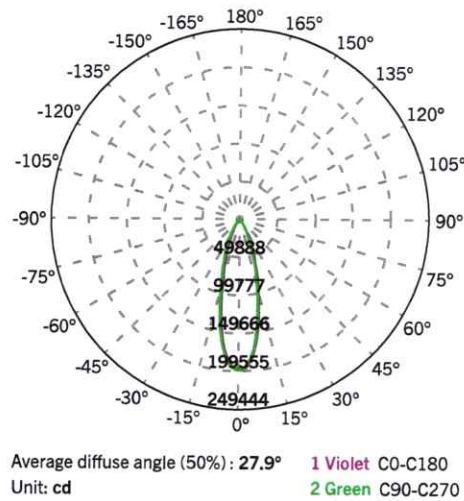
SPORTS LIGHT FLOOD

PHOTOMETRIC SPECIFICATIONS (30° BEAM ANGLE)

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION

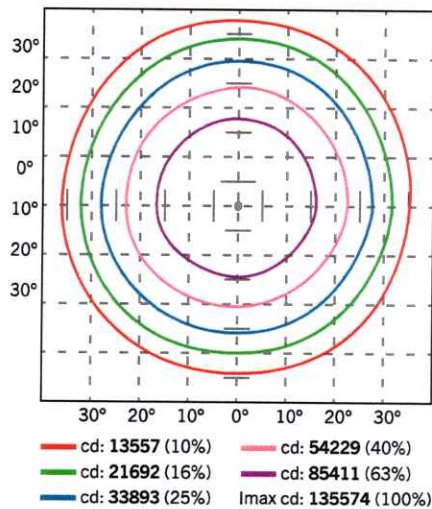


FLUX DISTRIBUTION

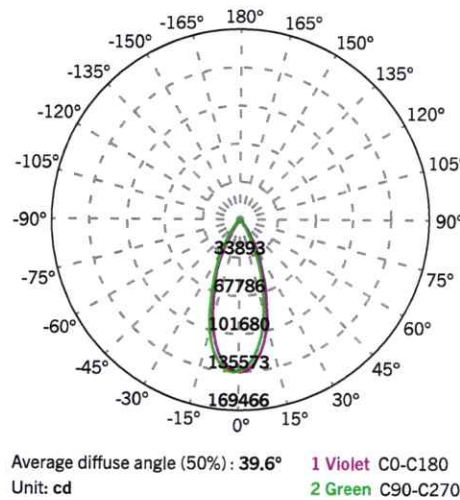
Zone	Lumens	% Luminaire
Forward Light	35,378	49.8%
0°-30°	27,365	38.5%
30°-60°	6,662	9.4%
60°-80°	1,281	1.8%
80°-90°	70	0.1%
Back Light	35,651	50.2%
0°-30°	27,576	38.8%
30°-60°	6,767	9.5%
60°-80°	1,247	1.8%
80°-90°	61	0.1%
Up Light	0	0.0%
90°-100°	0	0.0%
100°-180°	0	0.0%

PHOTOMETRIC SPECIFICATIONS (40° BEAM ANGLE)

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	34,734	46.0%
0°-30°	26,728	35.4%
30°-60°	7,118	9.4%
60°-80°	825	1.1%
80°-90°	62	0.1%
Back Light	39,748	52.7%
0°-30°	30,347	40.2%
30°-60°	8,516	11.3%
60°-80°	821	1.1%
80°-90°	64	0.1%
Up Light	986	1.3%
90°-100°	61	0.1%
100°-180°	925	1.2%

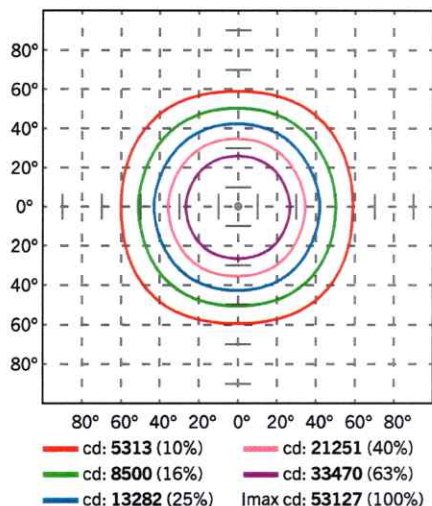


KT-SLFLED500-S1-XX-YM-750-VDIM

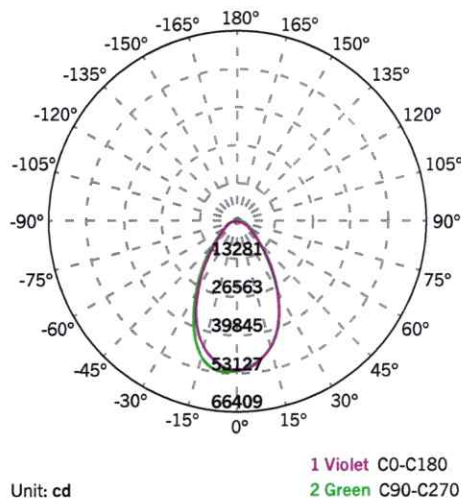
SPORTS LIGHT FLOOD

PHOTOMETRIC SPECIFICATIONS (60° BEAM ANGLE)

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION

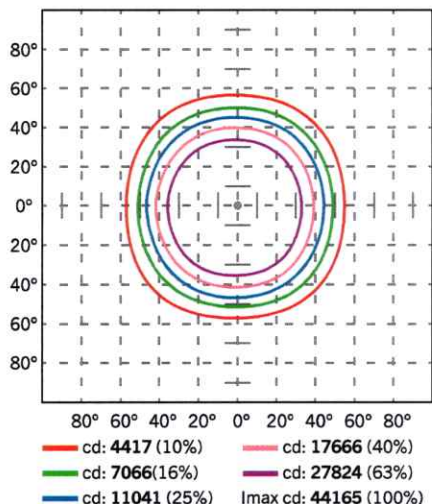


FLUX DISTRIBUTION

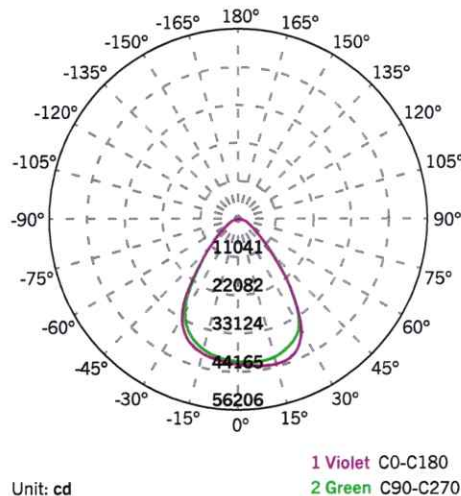
Zone	Lumens	% Luminaire
Forward Light	34,234	50.3%
0°-30°	17,107	25.2%
30°-60°	14,100	20.7%
60°-80°	2,833	4.2%
80°-90°	193	0.3%
Back Light	33,765	49.7%
0°-30°	16,995	25.0%
30°-60°	13,827	20.3%
60°-80°	2,770	4.1%
80°-90°	172	0.3%
Up Light	0	0.0%
90°-100°	0	0.0%
100°-180°	0	0.0%

PHOTOMETRIC SPECIFICATIONS (80° BEAM ANGLE)

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION



FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
Forward Light	35,640	51.6%
0°-30°	17,423	25.2%
30°-60°	16,098	23.3%
60°-80°	1,973	2.9%
80°-90°	146	0.2%
Back Light	33,477	48.4%
0°-30°	16,518	23.9%
30°-60°	14,921	21.6%
60°-80°	1,895	2.7%
80°-90°	143	0.2%
Up Light	0	0.0%
90°-100°	0	0.0%
100°-180°	0	0.0%



KT-SLFLED500-S1-XX-YM-750-VDIM

SPORTS LIGHT FLOOD

EPA SPECIFICATIONS

Small-Size Fixture Housing

Conditions: Horizontal winds only for calculations. Worst case total projected area used for calculations. All drag coefficients are set as worst case 1.2. For details on exact EPA calculations and assumptions, please contact productsupport@keystonetech.com

EPA Calcs (1.2*ft^2 View)			Single Fixture	2 Fixtures Side-by-Side	3 Fixtures Side-by-Side
Mounting Application	Fixture Position	Housing Size			
Plate Mount 	45°	S (500W)	1.77 sq. ft.	3.53 sq. ft.	5.30 sq. ft.

ACCESSORIES

SENSORS

Field-Installable / Field-Use ONLY (purchased separately)

✓	CATALOG NUMBER	DESCRIPTION	COLOR	UPC	EASY CODE
	KT-TLP-UV-3PN	NEMA Type 3-Pin Photocell; 120-277V; 1800VA max	Blue	843654131825	NQT-46



CORD SETS

Field-Installable / Field-Use ONLY (purchased separately)

✓	CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
	KT-SLFLED-EC-35	35' extension cord to remote mount LED driver for SLFLED fixtures	843654154992	OKK-79
	KT-SLFLED-EC-65	65' extension cord to remote mount LED driver for SLFLED fixtures	843654155005	QCB-67



MOUNTS AND BRACKETS

Field-Installable / Field-Use ONLY (purchased separately)

✓	CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
	KT-SLFLED-KM-1-KIT	Knuckle mount kit for Series 1 Sports Light Flood, Small Housing. Gray	843654155821	BHT-47
	KT-SLFLED-SF-S1-KIT	Slipfitter mount kit for Series 1 Sports Light Flood, Small Housing. Fits 2 3/8" tenon. Gray	843654154930	JWV-40



Field-Installable / Field-Use ONLY (purchased separately)

✓	CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
	KT-SLFLED-LASER-G	Green laser pointer for Sports Light Flood aiming. Includes hardware to mount to SLFLED fixtures	843654155012	ESD-34



Note: Each above item has a corresponding specification sheet with technical drawings. Please visit keystonetech.com for details



PROFORMA QUOTE

Company Name:
Contact Name:
Address:
Phone:
Email Address:

Customer #:
Date:
Payment Terms: Credit Card
Acct Manager:
Frt Terms: Prepaid

Qty	Catalog Code	Description	Unit Price	TOTAL
24	PLT-12429	30 Deg. Sport Light Fixture	\$475.00	\$11,400.00
84	PLT-12431	60 Deg. Sport Light Fixture	\$475.00	\$39,900.00
120	PLT-12430	45 Deg. Sport Light Fixture	\$475.00	\$57,000.00
84	N/A	Sport light fixture Visor	\$25.00	\$2,100.00

Contact Nick Ours @ 972-543-0561
nours@1000bulbs.com

Subtotal \$110,400.00
Shipping \$0.00
Tax (Rate ___%) TBD
Total \$110,400.00

Thank you for your business!

www.1000bulbs.com | 2140 Merritt Dr. • Garland, TX 75041 | 1-800-624-4488

Kristopher Bates

From: Kristopher Bates
Sent: Monday, March 18, 2024 11:16 AM
To: Nick Ours
Subject: RE: Quote

Thanks for reaching out today. I'm attaching a screenshot of what we have quoted with another company. Again, I think that you quoted the different light fixtures at that degree. I don't know if you have something comparable to this or not.

Qty	Item #	Description
84	MLLG-AG-LED-IMF-400-5-60-TR	400W Industrial LED Modular Flood Light, IP66, Marine Grade Corrosion Resistant Hardware, 56,000 lumen, 5000K, 100-277VAC, Optic - 60D, 10KV surge protection, Silver, Trunnion Mount and 5yr warranty
120	MLLG-AG-LED-IMF-45D	45 Degree Optic for MLLG-AG-LED-IMF - Industrial Flood Light - Order 1 per 200W Module.
24	MLLG-AG-LED-IMF-30D	30 Degree Optic for MLLG-AG-LED-IMF - Industrial Flood Light - Order 1 per 200W Module.
84	MLLG-AG-LED-IMF-Visor	Visor for MLLG-AG-LED-IMF - Industrial Flood Light

The fields that they will be going on are these are located at 602 E. Olden. It is a four field complex.



From: Nick Ours <nours@1000bulbs.com>
Sent: Thursday, March 7, 2024 10:26 AM
To: Purchasing <purchasing@westplains.gov>
Subject: Quote

Good morning,

Attached is the quote for the stadium lighting.

Please let me know if you have any questions.

Thanks,

Nick Ours

Commercial Account Manager

1000Bulbs.com

972-543-0561 Direct

972.764-5926 Fax

1.800.624.4488 Ext 256

Main Office: 2140 Merritt Dr Garland TX 75041

Will Call: 1475 Republic Parkway Suite 100, Mesquite, TX 75150