



## REQUEST FOR BIDS

### Replacement of Halogen Flood Lights with LED Sports Flood Light Fixtures

**Project Location:** Southeast Nebraska Communications (SNC) Field, Fielder Field Ball Complex, 12th & Crook Street, Falls City, NE

**Project Description:**

The City of Falls City is requesting bids from qualified contractors for the replacement of thirty-six (36) existing halogen flood lights with new LED sports flood light fixtures at Southeast Nebraska Communications (SNC) Field. The new LED fixtures will be furnished by the City of Falls City. The scope of work includes:

1. **Installation of LED Fixtures:** The contractor shall install the new Keystone XFit KT-SLFLED750-M1-30-YM-750-VDIM fixtures in accordance with the product data sheet and specified light distribution pattern.
2. **Aiming of Fixtures:** The City of Falls City will provide a laser aiming device to ensure proper light distribution. The contractor is responsible for aiming the lights accordingly.
3. **Additional Materials:** The contractor shall provide any additional materials necessary for the installation of the fixtures. All additional materials shall be tax-exempt purchases.
4. **Work Schedule:** The contractor shall provide an anticipated start date, working hours, and estimated project duration. Southeast Nebraska Communications (SNC) Field is utilized for sports practices and games after 3:00 PM on weekdays, and work must be scheduled to minimize disruptions to field usage.

**Bid Submission Requirements:**

Bids shall be submitted to the Falls City Parks & Recreation Director by the deadline. Submissions must include:

- Total project cost, including labor and any required materials
- Estimated start date and duration of work
- Proof of insurance and relevant experience
- Any other relevant details to support the bid

**Submission Deadline:**

Bids must be submitted to the Parks & Recreation Director by 2 PM on April 11, 2025, by mail or email at the following addresses:

**Briar Burr**

Parks & Recreation Director  
2307 Barada Street  
Falls City, NE 68355  
Email: [b.burr@fallscityne.us](mailto:b.burr@fallscityne.us)

The City of Falls City reserves the right to reject any or all bids and to accept the bid deemed in the best interest of the project.



# XFIT

## KT-SLFLED750-M1-XX-YM-750-VDIM

### SPORTS LIGHT FLOOD

#### DESCRIPTION

750W 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 with built-in 20kV line-to-ground surge protection
- 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

<b>Carton Dimensions</b>	23.82"L x 24.61"W x 23.03"H
<b>Carton Weight</b>	57.10 lbs
<b>Total Fixture Weight</b>	51.81 lbs
<b>Fixture Head Weight</b>	37.21 lbs
<b>Fixture Driver Box Weight</b>	14.59 lbs

#### PRODUCT SPECIFICATIONS

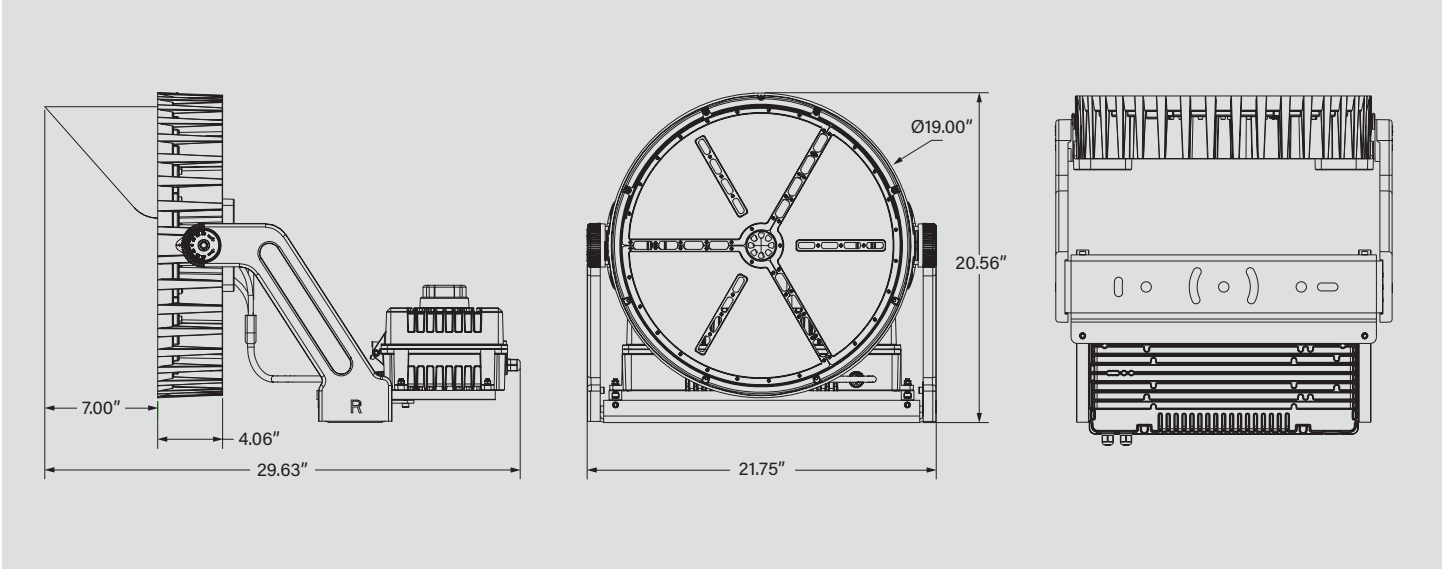
Catalog Number	Wattage	CCT	Lumens	Efficacy	Input Voltage	Dimming	Beam Angle	CRI	DLC	Legacy Equivalent
KT-SLFLED750-M1-20-YM-750-VDIM	750W	5000K	105,000	140 lm/W	120–277V	0–10V	20°	> 70	Y	2,000W MH
KT-SLFLED750-M1-30-YM-750-VDIM							30°			
KT-SLFLED750-M1-40-YM-750-VDIM							40°			
KT-SLFLED750-M1-60-YM-750-VDIM							60°			
KT-SLFLED750-M1-80-YM-750-VDIM							80°			

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

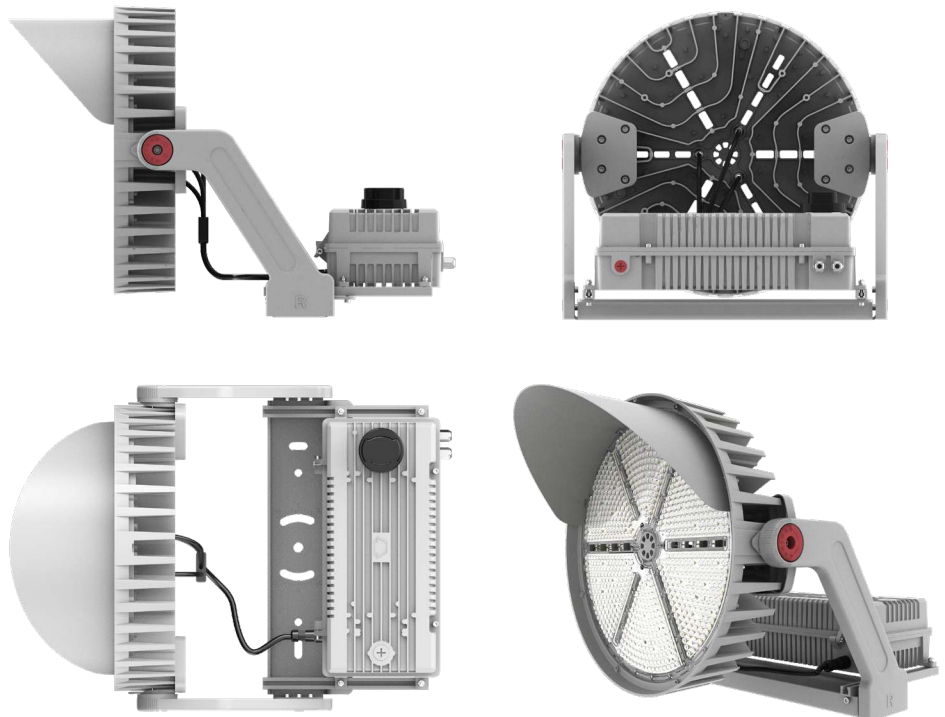
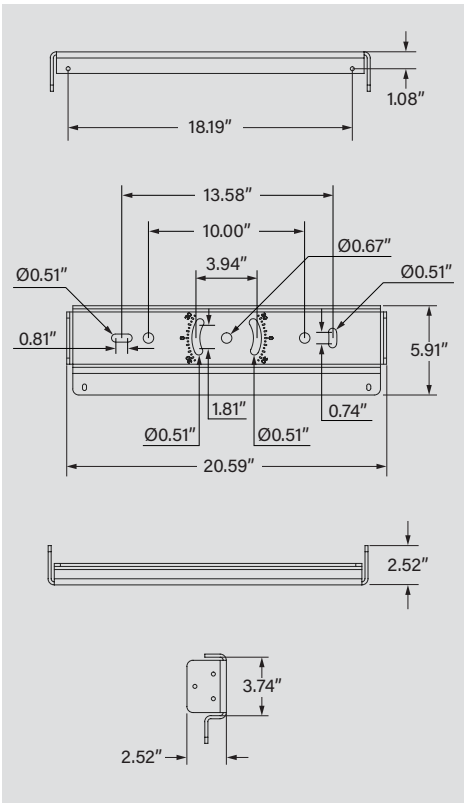
# KT-SLFLED750-M1-XX-YM-750-VDIM

## SPORTS LIGHT FLOOD

### PHYSICAL SPECIFICATIONS WITH DRIVER BOX ATTACHED



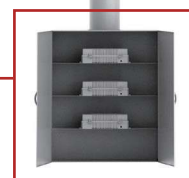
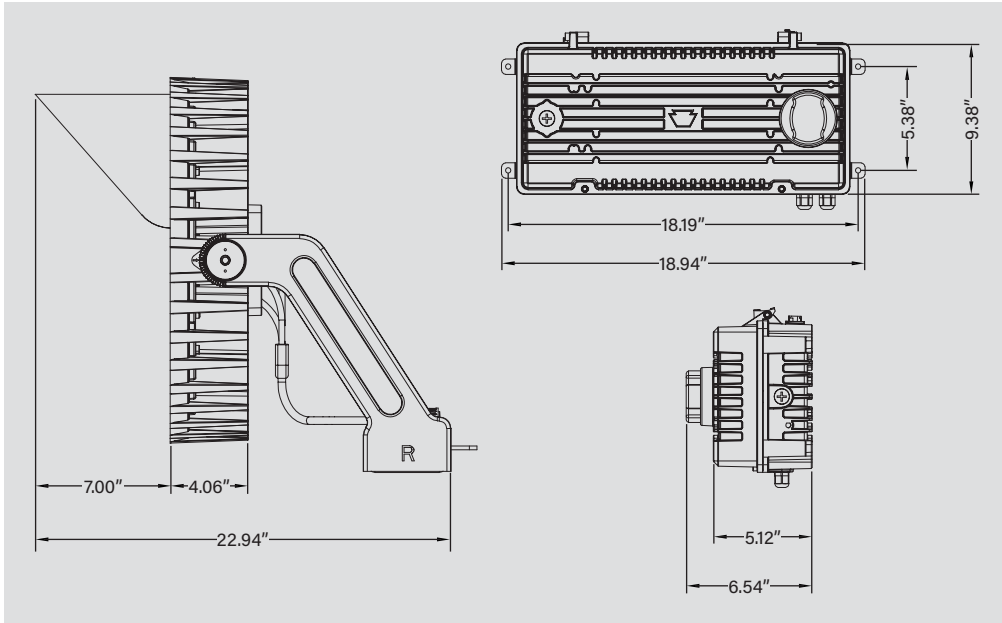
### CROSSARM



# KT-SLFLED750-M1-XX-YM-750-VDIM

## SPORTS LIGHT FLOOD

### PHYSICAL SPECIFICATIONS WITH DRIVER BOX SEPARATED



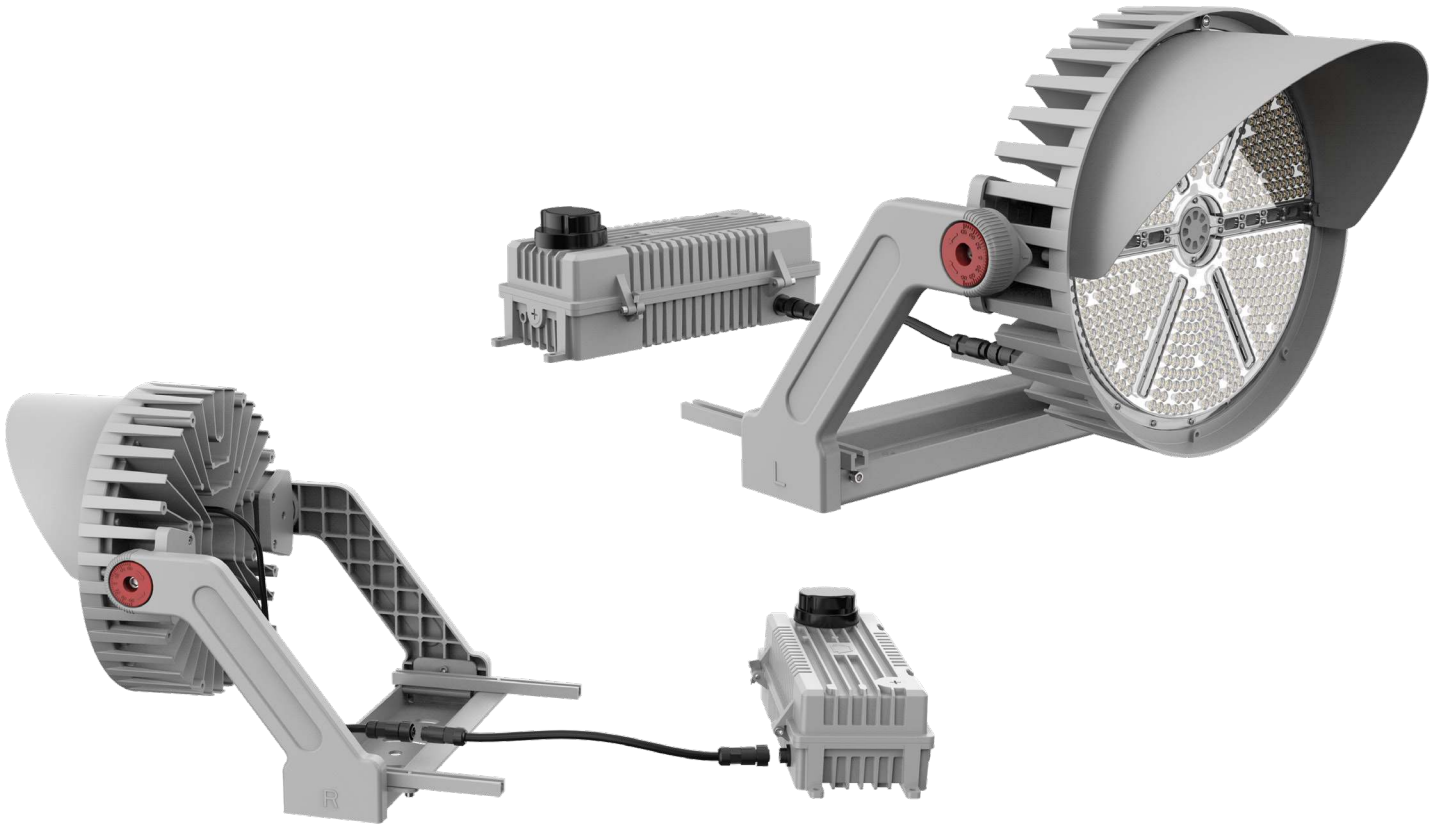
Note: Maximum cord length is 50 m / 164 ft

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

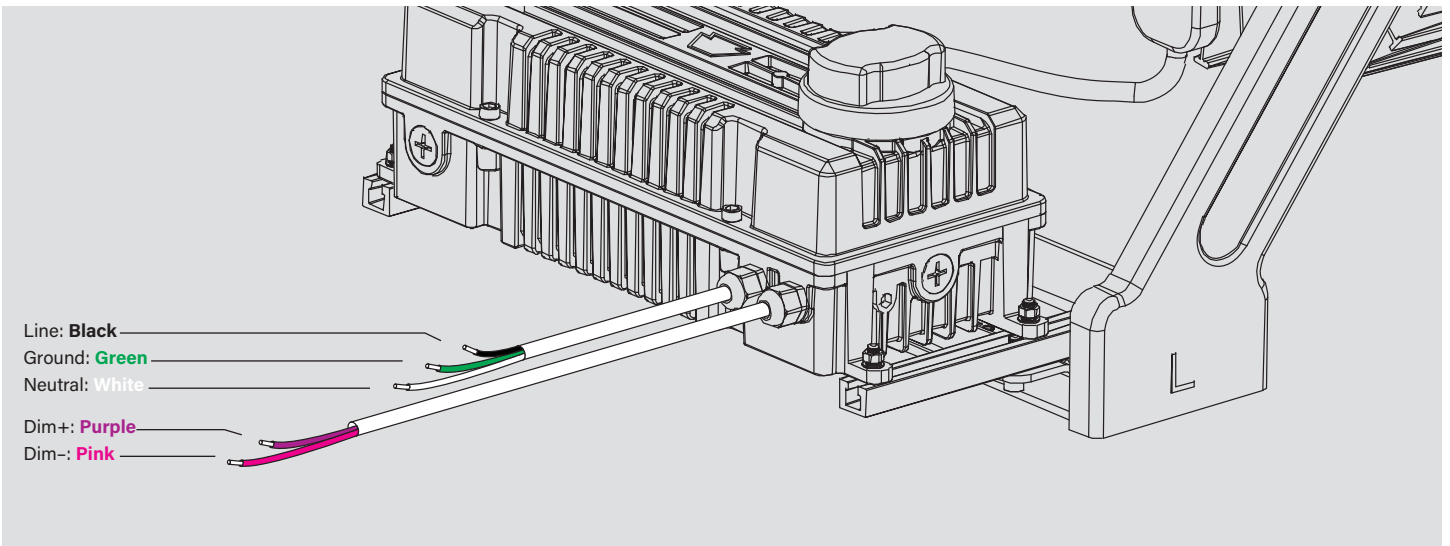
# KT-SLFLED750-M1-XX-YM-750-VDIM

## SPORTS LIGHT FLOOD

WITH DRIVER BOX SEPARATED



### WIRING DIAGRAM



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



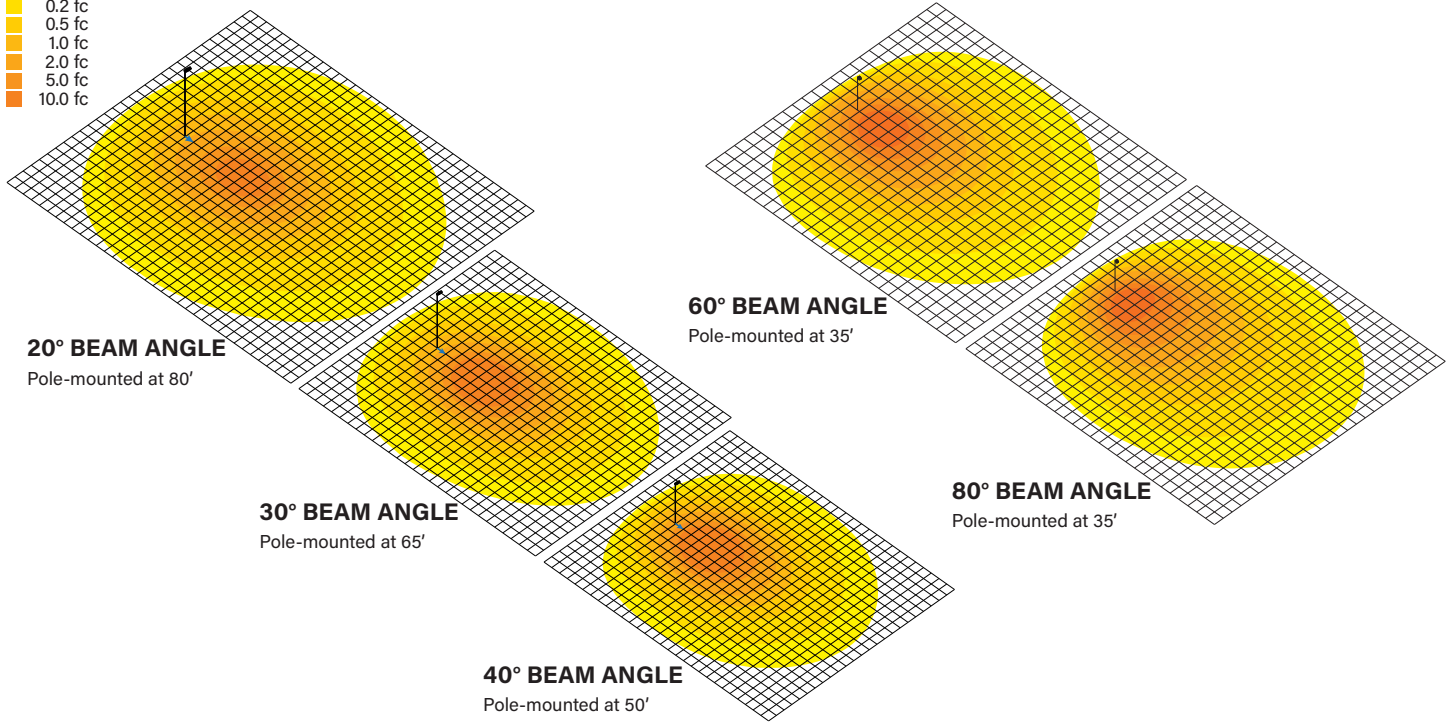
# KT-SLFLED750-M1-XX-YM-750-VDIM

## SPORTS LIGHT FLOOD

### LIGHT DISTRIBUTION PATTERN

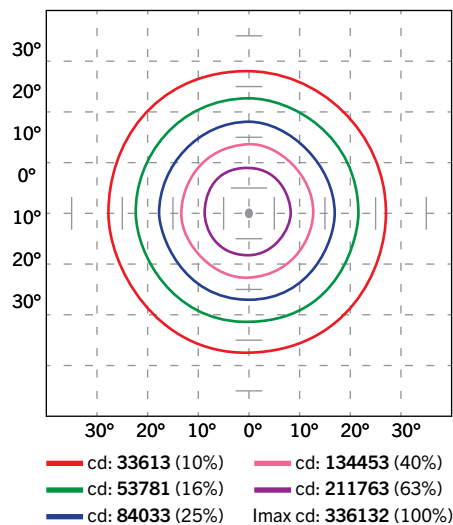
Photometric layouts for general reference only. All fixtures are pointed at 45° below horizontal. Each square is 10 ft x 10 ft

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

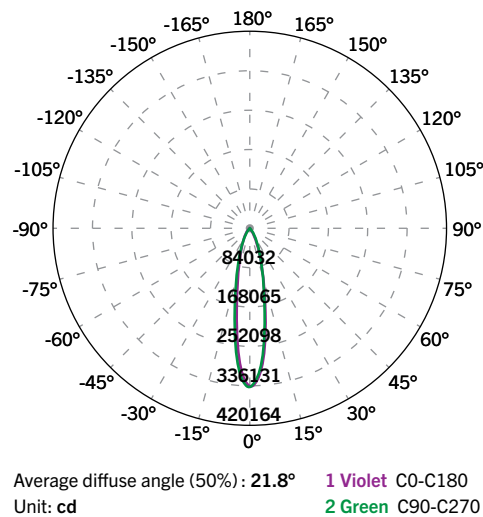


### PHOTOMETRIC SPECIFICATIONS (20° BEAM ANGLE)

#### ISOCANDELA PLOT



#### LUMINOUS INTENSITY DISTRIBUTION



#### FLUX DISTRIBUTION

Zone	Lumens	% Luminaire
<b>Forward Light</b>	<b>53,273</b>	<b>48.6%</b>
0°-30°	35,774	32.6%
30°-60°	13,741	12.5%
60°-80°	3,458	3.2%
80°-90°	300	0.3%
<b>Back Light</b>	<b>55,074</b>	<b>50.2%</b>
0°-30°	37,316	34.0%
30°-60°	13,898	12.7%
60°-80°	3,529	3.2%
80°-90°	331	0.3%
<b>Up Light</b>	<b>1,338</b>	<b>1.2%</b>
90°-100°	89	0.1%
100°-180°	1,250	1.1%

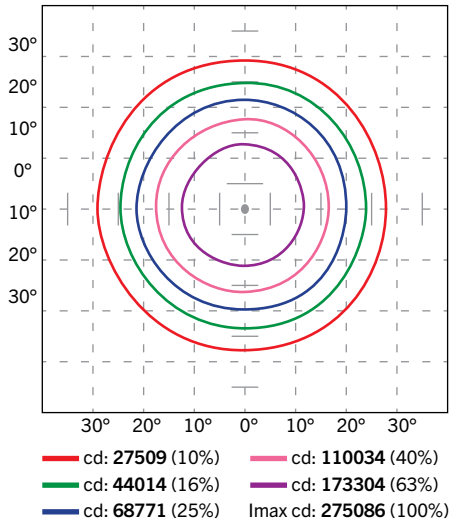
(Photometric Specifications continued on next page)

# KT-SLFLED750-M1-XX-YM-750-VDIM

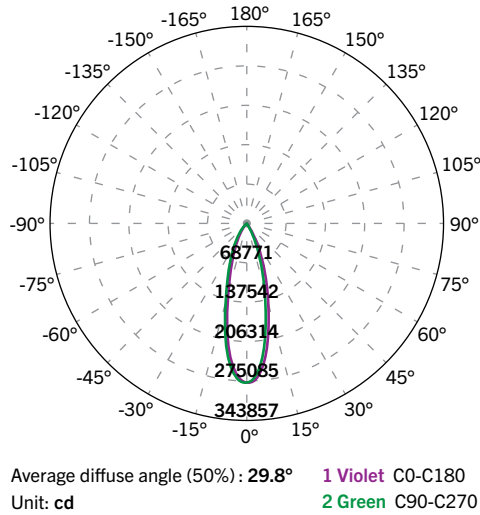
## SPORTS LIGHT FLOOD

### PHOTOMETRIC SPECIFICATIONS (30° BEAM ANGLE)

#### ISOCANDELA PLOT



#### LUMINOUS INTENSITY DISTRIBUTION

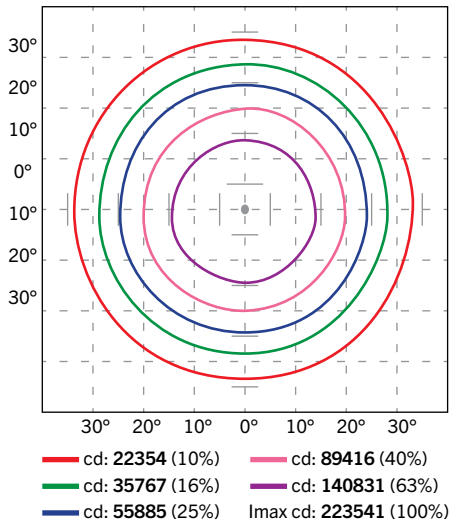


#### FLUX DISTRIBUTION

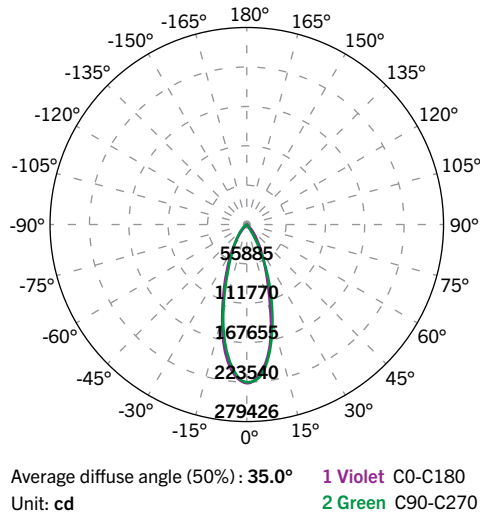
Zone	Lumens	% Luminaire
<b>Forward Light</b>	<b>51,813</b>	<b>48.7%</b>
0°-30°	37,800	35.5%
30°-60°	9,614	9.0%
60°-80°	3,398	3.2%
80°-90°	1,002	0.9%
<b>Back Light</b>	<b>54,668</b>	<b>51.3%</b>
0°-30°	40,317	37.9%
30°-60°	10,001	9.4%
60°-80°	3,391	3.2%
80°-90°	959	0.9%
<b>Up Light</b>	<b>0</b>	<b>0.0%</b>
90°-100°	0	0.0%
100°-180°	0	0.0%

### PHOTOMETRIC SPECIFICATIONS (40° BEAM ANGLE)

#### ISOCANDELA PLOT



#### LUMINOUS INTENSITY DISTRIBUTION



#### FLUX DISTRIBUTION

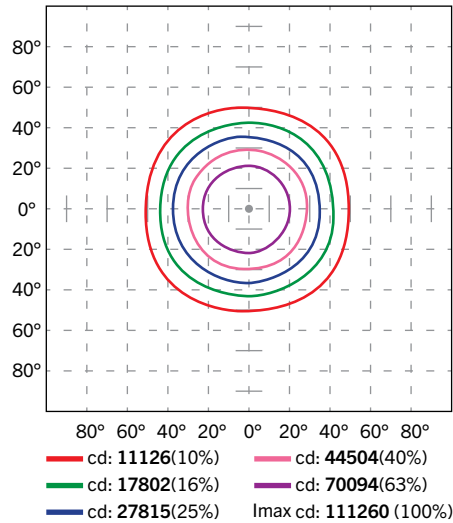
Zone	Lumens	% Luminaire
<b>Forward Light</b>	<b>54,679</b>	<b>49.9%</b>
0°-30°	40,336	36.8%
30°-60°	11,843	10.8%
60°-80°	2,331	2.1%
80°-90°	168	0.2%
<b>Back Light</b>	<b>53,738</b>	<b>49.0%</b>
0°-30°	39,497	36.0%
30°-60°	11,722	10.7%
60°-80°	2,332	2.1%
80°-90°	187	0.2%
<b>Up Light</b>	<b>1,259</b>	<b>1.1%</b>
90°-100°	69	0.1%
100°-180°	1,190	1.1%

# KT-SLFLED750-M1-XX-YM-750-VDIM

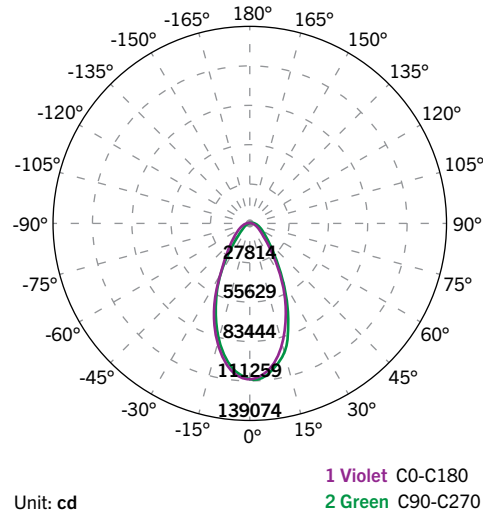
## SPORTS LIGHT FLOOD

### PHOTOMETRIC SPECIFICATIONS (60° BEAM ANGLE)

ISOCANDELA PLOT



LUMINOUS INTENSITY DISTRIBUTION

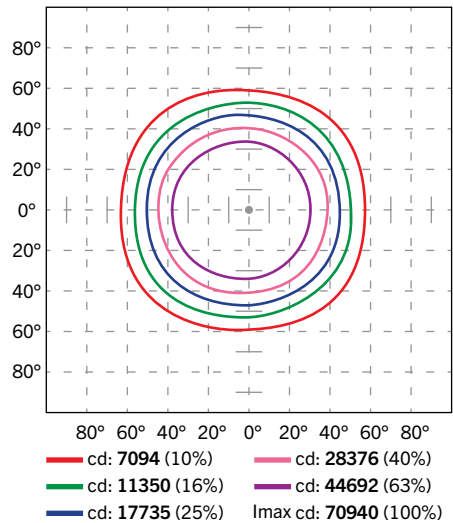


FLUX DISTRIBUTION

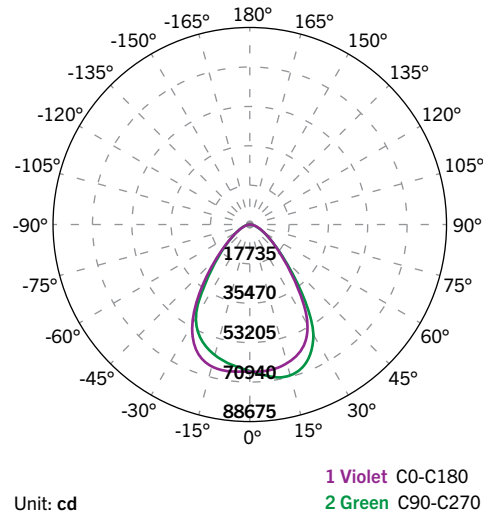
Zone	Lumens	% Luminaire
<b>Forward Light</b>	<b>54,721</b>	<b>50.5%</b>
0°-30°	30,891	28.2%
30°-60°	19,503	18.0%
60°-80°	4,010	3.7%
80°-90°	318	0.3%
<b>Back Light</b>	<b>53,671</b>	<b>49.5%</b>
0°-30°	30,548	28.2%
30°-60°	18,971	17.5%
60°-80°	3,871	3.6%
80°-90°	280	0.3%
<b>Up Light</b>	<b>0</b>	<b>0.0%</b>
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
<b>Forward Light</b>	<b>55,063</b>	<b>50.2%</b>
0°-30°	25,859	23.6%
30°-60°	25,422	23.2%
60°-80°	3,542	3.2%
80°-90°	241	0.2%
<b>Back Light</b>	<b>54,673</b>	<b>49.8%</b>
0°-30°	26,136	23.8%
30°-60°	24,884	22.7%
60°-80°	3,435	3.1%
80°-90°	218	0.2%
<b>Up Light</b>	<b>0</b>	<b>0.0%</b>
90°-100°	0	0.0%
100°-180°	0	0.0%







# KT-SLFLED750-M1-XX-YM-750-VDIM

## SPORTS LIGHT FLOOD

### EPA SPECIFICATIONS

#### Medium-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 <sup>2</sup>   View)			Single Fixture	2 Fixtures Side-by-Side	3 Fixtures Side-by-Side
Mounting Application	Fixture Position	Housing Size			
<b>Plate Mount</b> 	45°	M (750W)	2.63 sq. ft.	5.26 sq. ft.	7.88 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
	TL7-HVG <sup>1</sup>	Synapse NEMA Type 7-Pin 0-10V Controller with Built-in Photocell, Power Monitoring, and GPS; 120-480V	Black	TBD	TBD

<sup>1</sup>Synapse controllers require gateway and mandatory commissioning service charge. Please contact Keystone for further details



120-277V Photocell  
KT-TLP-UV-3PN

SYNAPSE



Synapse Controller  
TL7-HVG

#### 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



35' Extension Cord  
KT-SLFLED-EC-35

#### MOUNTS AND BRACKETS

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

✓	CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
	KT-SLFLED-KM-2-KIT	Knuckle mount kit for Series 1 Sports Light Flood, Medium Housing. Gray	843654155838	IWC-30
	KT-SLFLED-SF-M1-KIT	Slipfitter mount kit for Series 1 Sports Light Flood, Medium Housing. Fits 2 3/8" tenon. Gray	843654154930	JWV-40



Knuckle Mount Kit  
KT-SLFLED-KM-2-KIT



Slipfitter Mount Kit  
KT-SLFLED-SF-M1-KIT

Note: Each above item has a corresponding specification sheet with technical drawings. Please visit [keystonetech.com](http://keystonetech.com) for details

(Accessories continued on next page)

# KT-SLFLED750-M1-XX-YM-750-VDIM

## SPORTS LIGHT FLOOD

### GLARE SHIELD

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

✓	CATALOG NUMBER	DESCRIPTION	UPC	EASY CODE
	KT-SLFLED-GS-M1-KIT	Glare Shield Kit   Gray   Used on 750W Series 1 Sports Light Flood	843654170527	CCN-71
	KT-SLFLED-GS-360-M1-KIT	360° Glare Shield Kit   Gray   Used on 750W Series 1 Sports Light Flood	843654170084	QXI-03



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](http://keystonetech.com) for details


### ORDERING INFORMATION

CATALOG NUMBER	UPC	EASY CODE
KT-SLFLED750-M1-20-YM-750-VDIM	843654155289	AHI-09
KT-SLFLED750-M1-30-YM-750-VDIM	843654154909	ULT-90
KT-SLFLED750-M1-40-YM-750-VDIM	843654155296	ZPD-50
KT-SLFLED750-M1-60-YM-750-VDIM	843654159850	TPR-38
KT-SLFLED750-M1-80-YM-750-VDIM	843654159867	WUM-62

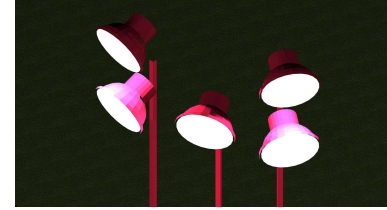
### CATALOG NUMBER BREAKDOWN

# KT-SLFLED750-M1-XX-YM-750-VDIM

1	2	3	4	5	6	7	8	9	10	11
<b>1 Keystone Technologies</b>	<b>2 Fixture Type</b>	<b>3 LED Lamp</b>	<b>4 Wattage</b>	<b>5 Size</b>	<b>6 Style</b>	<b>7 Beam Angle</b>	<b>8 Mounting Options</b>	<b>9 CRI</b>	<b>10 CCT</b>	<b>11 Dimming</b>
	SLF Sports Light Flood			M Medium		20 20°	YM Yoke Mount	7 > 70	50 5000K	VDIM 0-10V
						30 30°				
						40 40°				
						60 60°				
						80 80°				

Luminaire Schedule								
Symbol	Qty	Label	Arrangement	Description	LLF	Luminaire Lumens	Luminaire Watts	Total Watts
	36	KT-SLFLED750-M1-30-YM-750-VDIM	Single	750W Sports Flood, 30° Beam	0.900	106482	754.9	27176.401

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Field	Illuminance	Fc	24.94	54	2	12.47	27.00



**There are 8 poles.**

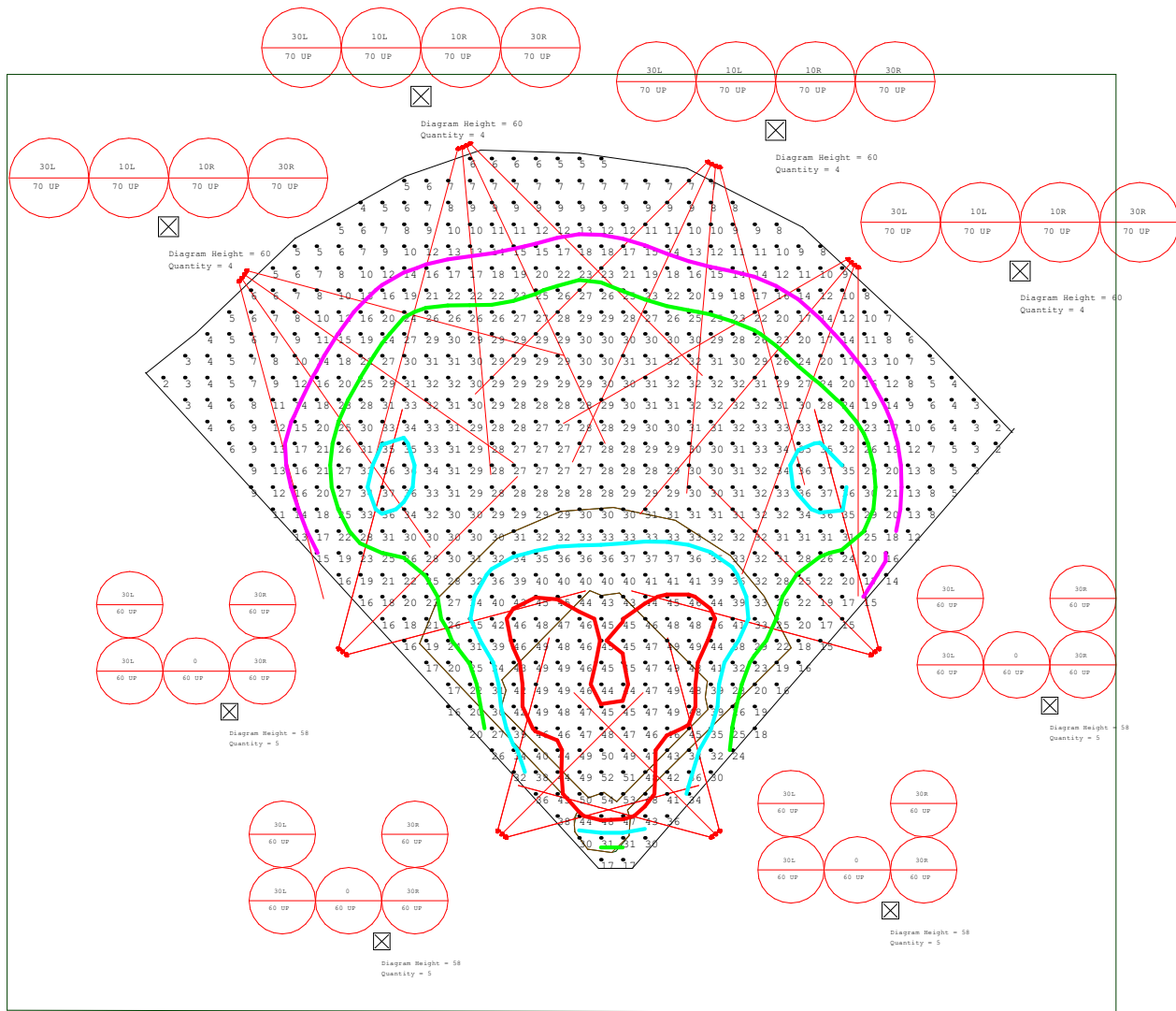
**Four poles have 5 fixtures (4x5 = 20).**

**Four poles have 4 fixtures (4x4 = 16).**

**There are 36 fixtures.**

Project: Fiedler Field KT-SLFLED750 MH = 60', 58' Fixtures Spaced 2' Apart In All Directions	<b>Keystone Technologies Lighting Layout</b> 2750 Morris Road Lansdale, PA, 19446 Phone: 1-800-464-2680 <a href="mailto:LightingLayouts@keystonetech.com">LightingLayouts@keystonetech.com</a>
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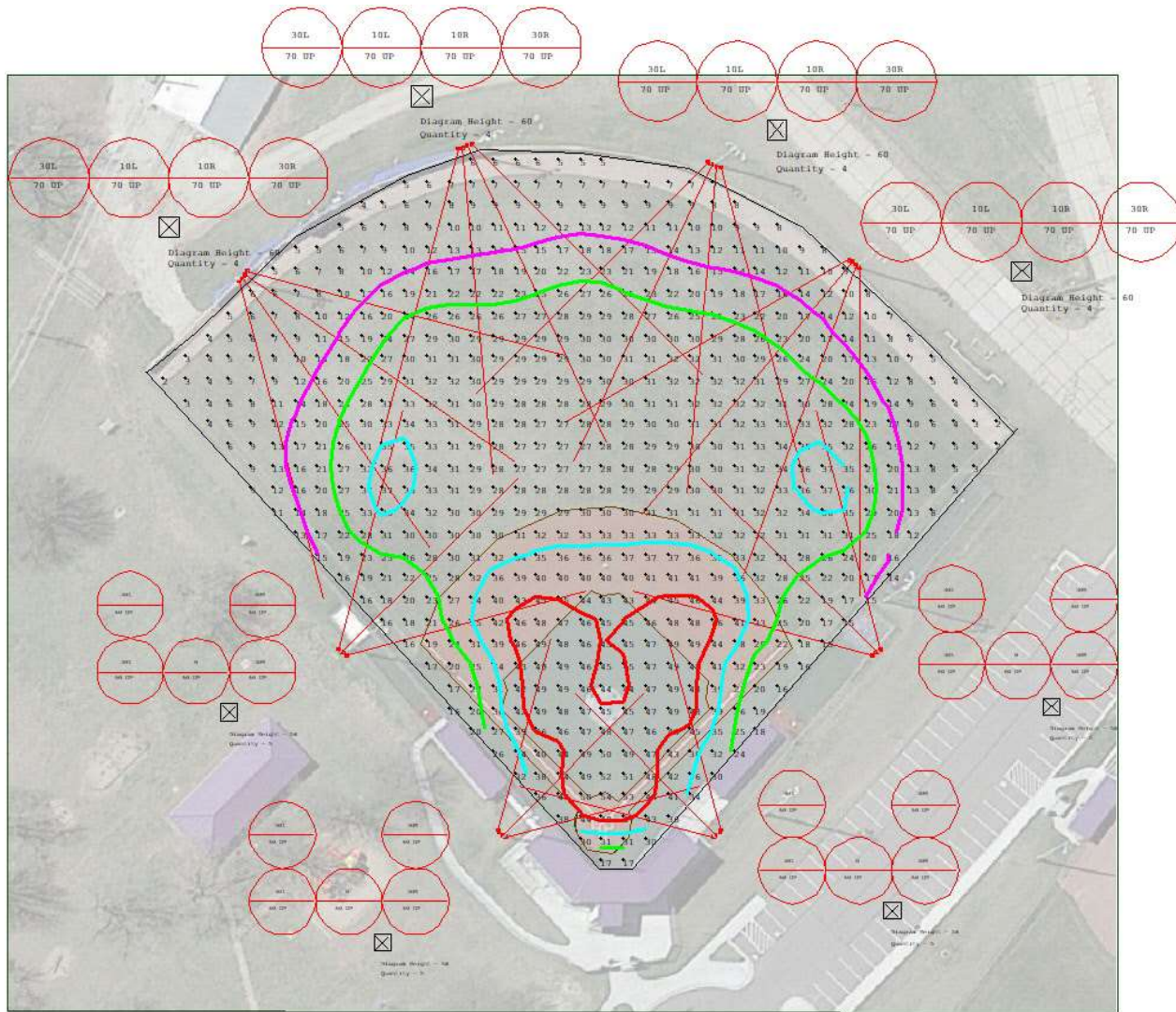




View of point by point

<p>Project: Fiedler Field          KT-SLFLED750          MH = 60', 58'          Red = 45+ FC, Blue = 35 FC          Green = 25 FC, Violet = 15 FC</p>	<p><b>Keystone Technologies Lighting Layout</b>          2750 Morris Road          Lansdale, PA, 19446          Phone: 1-800-464-2680  <a href="mailto:LightingLayouts@keystonetech.com">LightingLayouts@keystonetech.com</a></p>
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Project: Fiedler Field  
 KT-SLFLED750  
 MH = 60', 58'  
 Red = 45+ FC, Blue = 35 FC  
 Green = 25 FC, Violet = 15 FC

**Keystone Technologies Lighting Layout**  
 2750 Morris Road  
 Lansdale, PA, 19446  
 Phone: 1-800-464-2680  
[LightingLayouts@keystonetech.com](mailto:LightingLayouts@keystonetech.com)





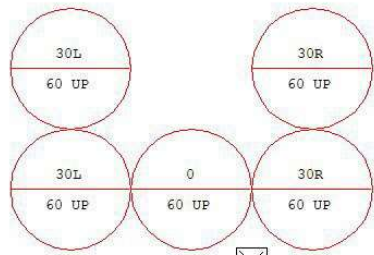


Diagram Height = 58  
Quantity = 5

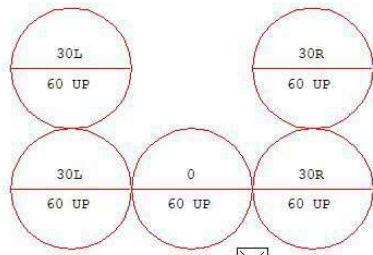


Diagram Height = 58  
Quantity = 5

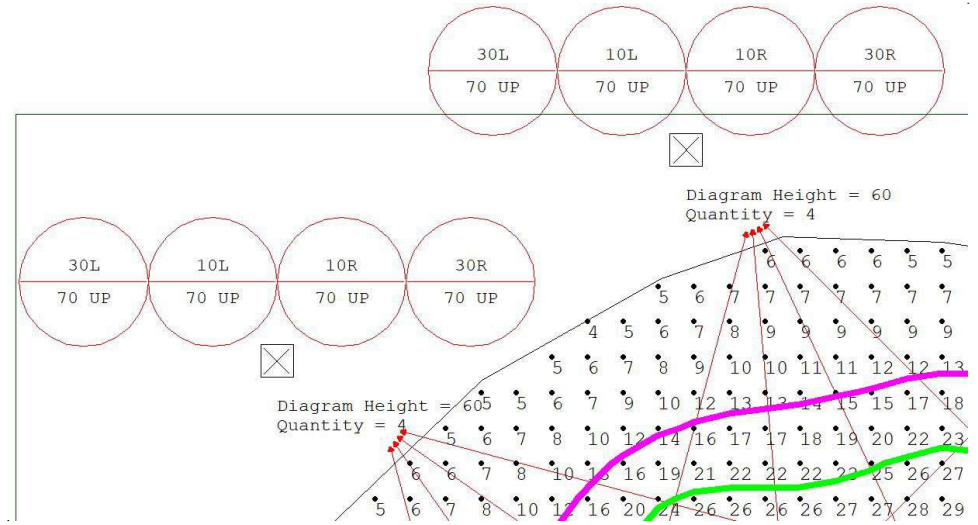
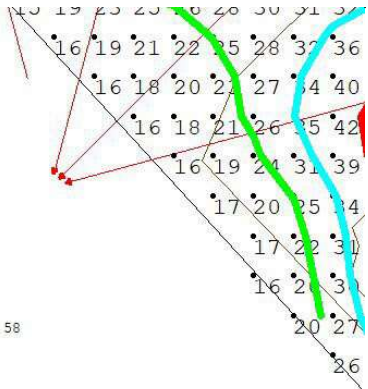


Diagram Height = 60  
Quantity = 4

Diagram Height = 60  
Quantity = 4

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

For the tilt angle, 0° is facing downward and 90° is facing forward.

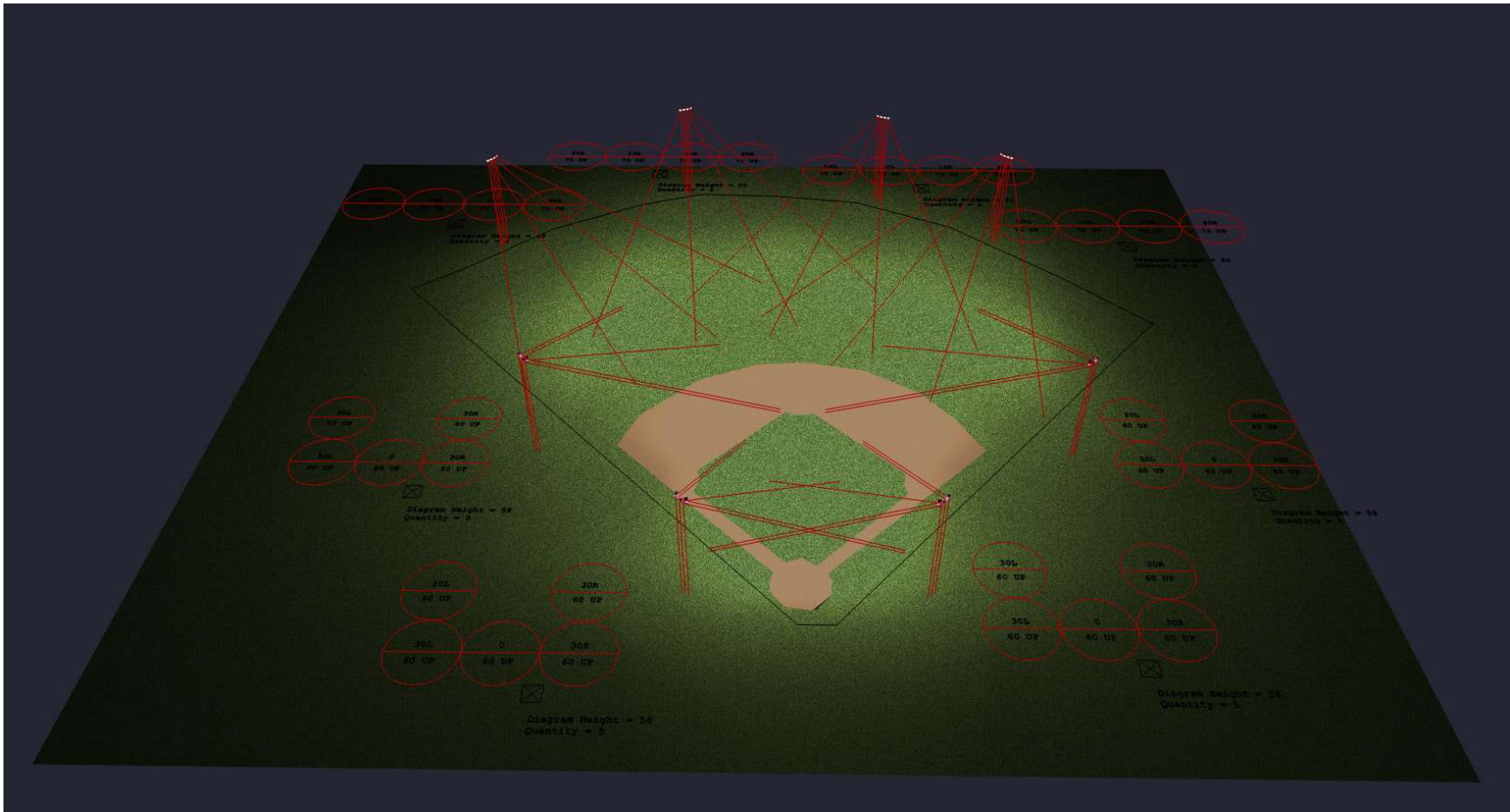
The aiming diagrams for the fields are mirrored across each field (the poles opposite of each other).

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

<p>Project: Fiedler Field KT-SLFLED750 MH = 60', 58' Fixtures Spaced 2' Apart In All Directions</p>	<p><b>Keystone Technologies Lighting Layout</b> 2750 Morris Road Lansdale, PA, 19446 Phone: 1-800-464-2680 LightingLayouts@keystonetech.com</p>
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Project: Fiedler Field  
 KT-SLFLED750  
 MH = 60', 58'  
 Fixtures Spaced 2' Apart In All Directions

Keystone Technologies Lighting Layout  
 2750 Morris Road  
 Lansdale, PA, 19446  
 Phone: 1-800-464-2680  
[LightingLayouts@keystonetech.com](mailto:LightingLayouts@keystonetech.com)



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: Fiedler Field  
KT-SLFLED750  
MH = 60', 58'  
Fixtures Spaced 2' Apart In All Directions

Keystone Technologies Lighting Layout  
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