

CHARTIERS VALLEY

SCHOOL DISTRICT

Inspiring excellence.

Construction Payments
November 28, 2023

Total \$ 1,423.01

High School Athletics - Exterior

| Vendor Name | Invoice No. | Funding Source | Amount |
|-------------|-------------|----------------|-------------|
| Qualite | Pay App 3 | Bond Fund 2021 | \$ 1,423.01 |

High School Athletics - Interior

| Vendor Name | Invoice No. | Funding Source | Amount |
|-------------|-------------|----------------|--------|
| NONE | NONE | NONE | NONE |

Primary School HVAC

| Vendor Name | Invoice No. | Funding Source | Amount |
|-------------|-------------|----------------|--------|
| NONE | NONE | NONE | NONE |

Primary School Roof

| Vendor Name | Invoice No. | Funding Source | Amount |
|-------------|-------------|----------------|--------|
| NONE | NONE | NONE | NONE |

HIGH SCHOOL EXTERIOR ATHLETICS

Invoices for November 28, 2023 Consideration/Approval

APPLICATION AND CERTIFICATE FOR PAYMENT

CONSTRUCTION MANAGER - ADVISER EDITION

AIA DOCUMENT G702/Cma

TO OWNER: PROJECT: APPLICATION NO: 3 DISTRIBUTION TO: ☐ OWNER
Chartiers Valley School District CVHS Stadium Lighting Replacement ☒ CONSTRUCTION MANAGER
2030 Swallow Hill Rd
Pittsburgh, PA 15220
FROM CONTRACTOR: PROJECT NOS: 22122
Qualite Sports Lighting
215 W Mechanic St
Hillsdale, MI 49242
CONTRACT FOR: VIA CONSTRUCTION MANAGER X
VIA ARCHITECT

PERIOD TO: 9/26/2023
CONTRACT DATE: 11/30/2022
☐ ARCHITECT
☐ CONTRACTOR

CONTRACTOR'S APPLICATION FOR PAYMENT

Application is made for payment as shown below, in conjunction with the contract
Continuation sheet, AIA Document G703 is attached

1. ORIGINAL CONTRACT SUM \$ 242,301.00
2. Net Change By Change Orders \$ -
3. CONTRACT SUM TO DATE (Line 1,2) \$ 242,301.00
4. TOTAL COMPLETED AND STORED TO DATE \$ 242,301.00
(Column G on G703)
5. RETAINAGE:
a. 1% of Completed Work \$0.00
(Columns D & E on G703)
b. % of Stored Materials
(Columns F on G703)
TOTAL RETAINAGE (Line 5a & 5b or
Total in Column 1 of G703 \$0.00
6. TOTAL EARNED LESS RETAINAGE \$ 242,301.00
(Line 4 less Line 5 Total)
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT \$ 240,877.99
(Line 6 from prior Certificate)
8. CURRENT PAYMENT DUE \$ 1,423.01
9. BALANCE TO FINISH, INCLUDING RETAINAGE
(Line 3 less Line 6) \$ -

| CHANGE ORDER SUMMARY | ADDITIONS | DEDUCTIONS |
|--|-----------|------------|
| Total changes approved in previous months by owner | | |
| Total approved this month | | |
| TOTALS | | |
| NET CHANGES by change order | | |

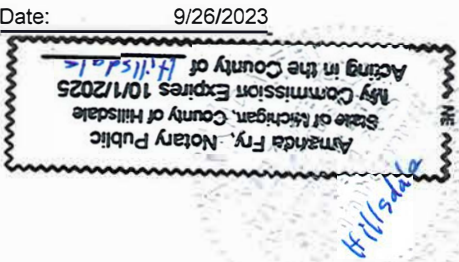
G702/Cma-1992

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information & belief the Work covered by this Application for Payment has been completed in accordance with the contract documents that all amounts have been paid by the Contractor for Work which previous Certificates for Payment were assessed and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: Quailte Sports Lighting, LLC

By: Georgia Clark Date: 9/26/2023
State of: Michigan
County of: Hillsdale Hillsdale
Subscribed and sworn to before me this 26th day of September, 2023

Notary Public Amelia Fry
My Commission Expires: Oct 1, 2025



CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising this application, the Construction Manager and the Architect certify to the Owner that to the best of their knowledge, information and belief the Work has progressed as indicated, the quality of the work is in accordance with the Construction Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

AMOUNT CERTIFIED..... \$ 1,423.01

(Attach explanation if amount certified differs from the amount applied for. Initial all figures on this Application and on the Continuation Sheet that changed & conform to the amount certified)

CONSTRUCTION MANAGER
By: Cadde Date: 11/9/2023
ARCHITECT
By: _____ Date: _____

This certifiacte is non negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under the Contract.

CONTINUATION SHEET

AIA DOCUMENT G703

PAGE 1 OF 1 PAGE(S)

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification, is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

Qualite Sports Lighting, LLC
215 W. Mechanic St
Hillsdale, MI 49242

APPLICATION NO.: 3
APPLICATION DATE: 9/26/2023
PERIOD TO: 9/26/2023
PROJECT NO.: 22122

CVHS Stadium Lighting Replacement

| A | B | C | D | E | F | G | | H | I |
|----------|------------------------|-----------------|---------------------------------|-------------|--|------------------------------------|-----------|---------------------------|-------------|
| ITEM NO. | DESCRIPTION OF WORK | SCHEDULED VALUE | WORK COMPLETED | | MATERIALS PRESENTLY STORED (NOT IN D OR E) | TOTAL COMPLETED AND STORED TO DATE | % (G / C) | BALANCE TO FINISH (C - G) | RETAINAGE |
| | | | FROM PREVIOUS APPLICATION (D+E) | THIS PERIOD | | | | | |
| 1 | LED Lighting Equipment | \$ 191,741.00 | \$ 191,741.00 | \$ - | \$ - | \$ 191,741.00 | 100% | \$ - | \$ 1,917.41 |
| 2 | Retrofit Installation | \$ 48,460.00 | \$ 48,460.00 | \$ - | \$ - | \$ 48,460.00 | 100% | \$ - | \$ 484.60 |
| 3 | Posting Field Audit | \$ 2,100.00 | \$ 2,100.00 | \$ - | \$ - | \$ 2,100.00 | 100% | \$ - | \$ 21.00 |
| 4 | | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | \$ - |
| 5 | | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | \$ - |
| 6 | | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | \$ - |
| 7 | | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | \$ - |
| 8 | | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | \$ - |
| 9 | | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | \$ - |
| 10 | | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | \$ - |
| 11 | | \$ - | \$ - | \$ - | \$ - | \$ - | | \$ - | \$ - |
| | TOTAL WORK | \$ 242,301.00 | \$ 242,301.00 | \$ - | \$ - | \$ 242,301.00 | 100% | \$ - | \$ 2,423.01 |



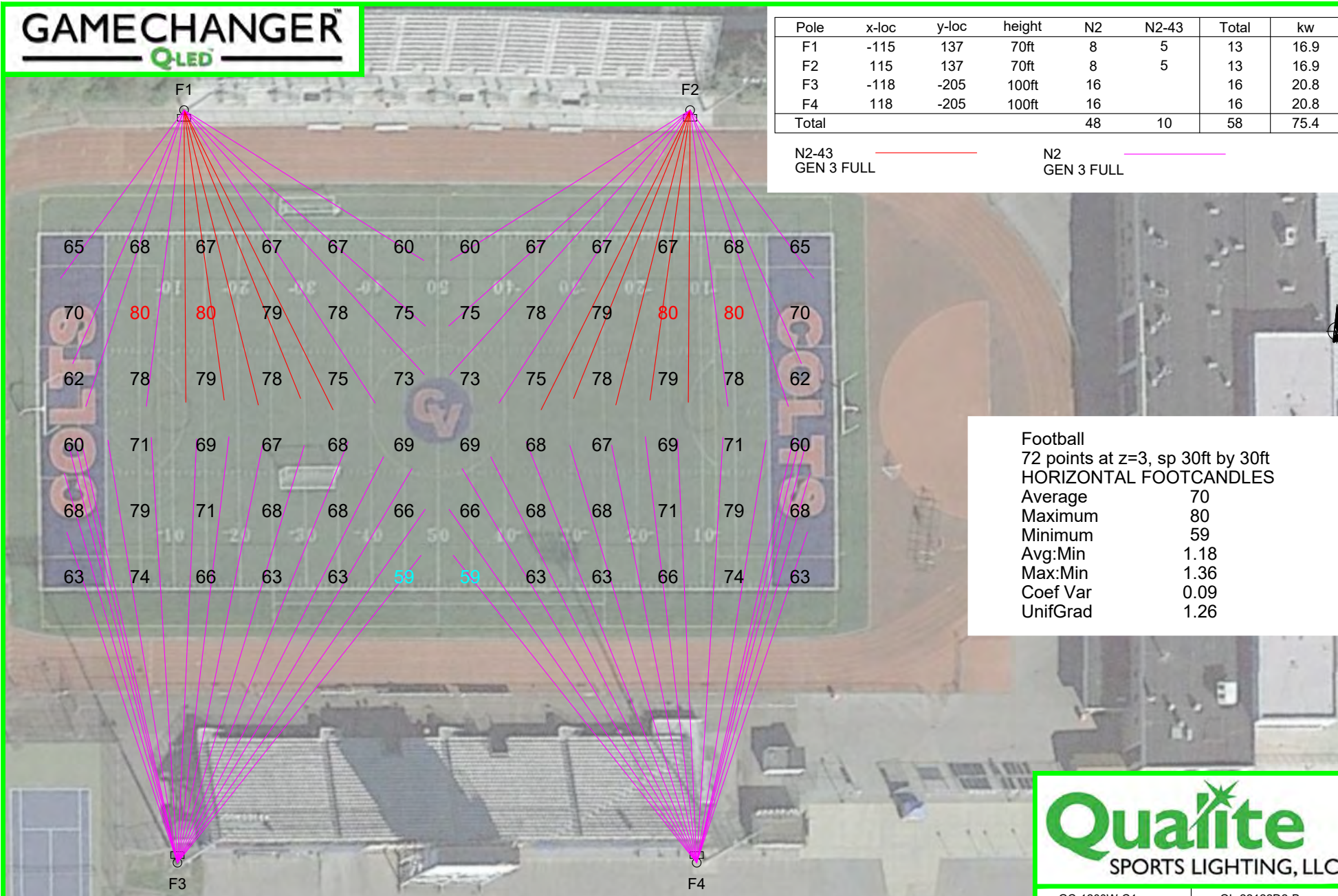
**CLOSEOUT DOCUMENTS
NOVEMBER 17, 2023
CHARTIERS VALLEY HIGH SCHOOL
BRIDGEVILLE, PA
QL# 22122D2B**



Prints

GAMECHANGER™

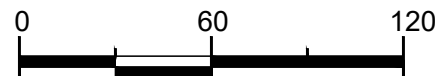
Q-LED



THIS INFORMATION IS CONFIDENTIAL AND PROPRIETARY TO QUALITE SPORTS LIGHTING LLC AND IS NOT TO BE REVEALED OR DISTRIBUTED TO OTHERS WITHOUT THE PERMISSION OF QUALITE SPORTS LIGHTING LLC. OR USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF QUALITE SPORTS LIGHTING LLC.

GUARANTEE IS BASED ON PROPER INSTALLATION, MINIMUM INPUT VOLTAGES, MOUNTING HEIGHT +/- 3 FEET, AND POLES PLACED WITHIN 4 FEET OF SPECIFIED LOCATIONS. POLES TO COMPLY WITH CURRENT AASHTO STANDARDS

WWW.QUALITE.COM



Qualite
SPORTS LIGHTING, LLC

GC-1200W-C1 QL-22122D2-B

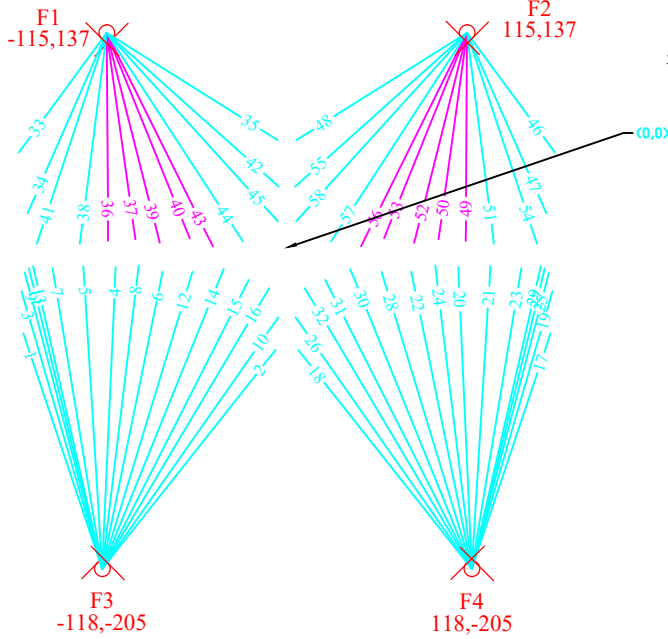
CHARTIERS VALLEY HS

BRIDGEVILLE, PA

NP 1"=60' 09-14-22 1 OF 1

END CAPS NEED TO BE RED

48 - N2
10 - N2-43



EXISTING STEEL POLE
45° SIDE BY SIDE BRACKET

EXISTING STEEL POLE
45° SIDE BY SIDE BRACKET

EXISTING STEEL POLE
45° SIDE BY SIDE BRACKET

30AMP DISCONNECT
SAFETY BREAKER

30AMP DISCONNECT
SAFETY BREAKER

EXISTING STEEL POLE
45° SIDE BY SIDE BRACKET

30AMP DISCONNECT
SAFETY BREAKER

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SAFETY BREAKER

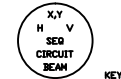
30AMP DISCONNECT
SAFETY BREAKER

pole F3
base xyz= -118,-205,0 : height= 100ft

pole F4
base xyz= 118,-205,0 : height= 100ft

pole F1
base xyz= -115,137,0 : height= 70ft

pole F2
base xyz= 115,137,0 : height= 70ft



KEY
X,Y x,y of aiming pt on field
(z shown only if not zero)
H horizontal aiming angle, 0 deg is on
V (right of normal to crossarm
vertical aiming angle, 0 deg on 0 down
from reference position
SEQ sequence number
CIRCUIT circuit
BEAM floodlight beam type

NOTES: READINGS ARE TAKEN FROM BEHIND
THE POLE, LOOKING TOWARD FIELD.

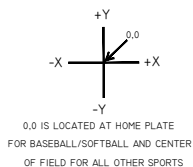
NOTE: SEE HARDWARE DRAWINGS BEFORE PRODUCTION OR ASSEMBLY

DESIGN DWG. #

22122D2B

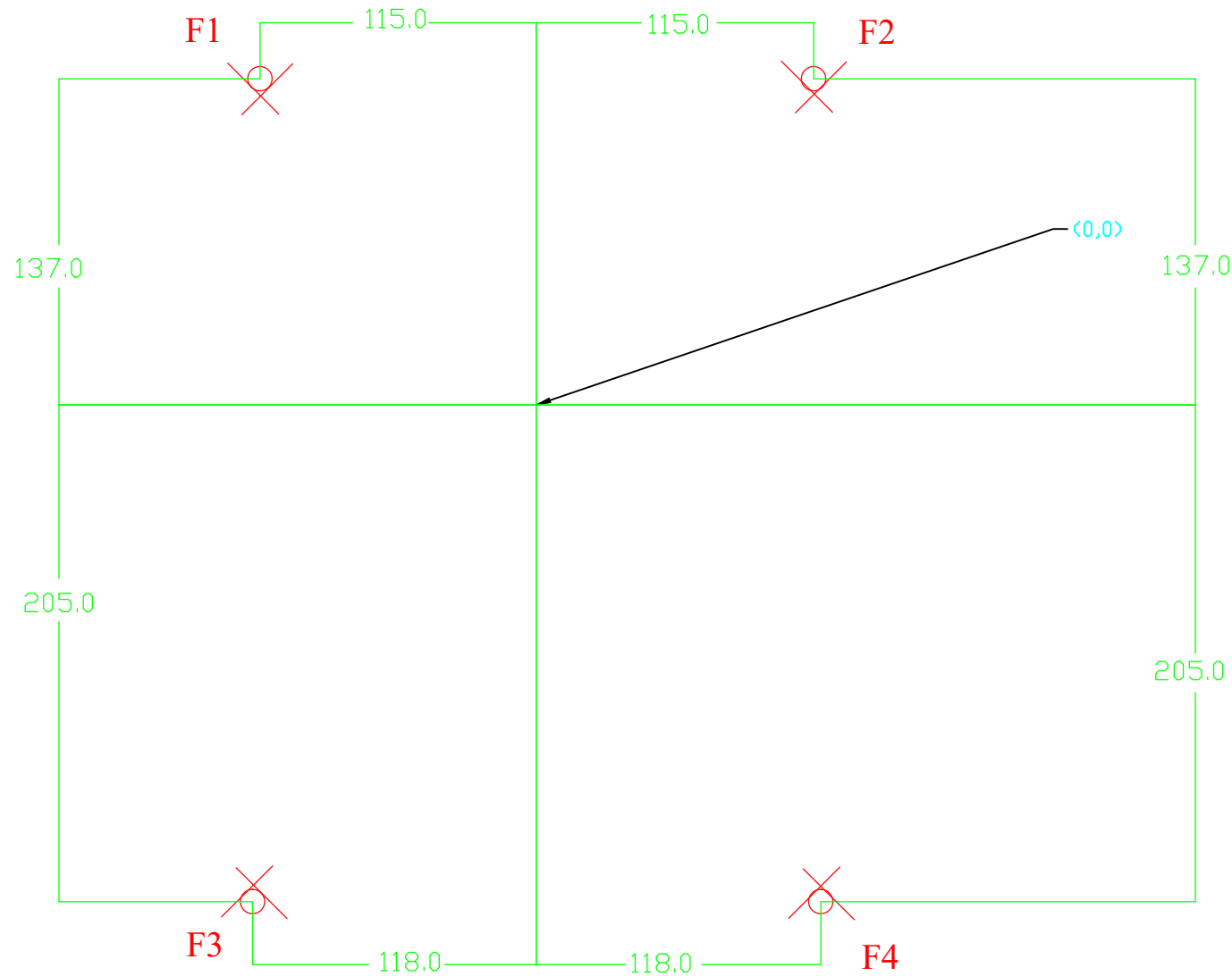
| | | |
|-------------------------------|---|--|
| WATTAGE 1200 | DISTRIBUTION BOX GALV. | LG. WIRE ENT. YES |
| VOLTAGE 480 | VISORS NO | NIPPLE SIZE 2" |
| PHASE 3 | WIRE LOOMS YES | DISCONNECTS YES |
| FIX. TYPE QLED-GAMECHANGER | SER. BASKETS NO | REMOTE CHANNEL ALUM/ISL |
| FIX. HARDWARE S.S. | WIRELESS CONTROLS TOTAL COMMAND YES | DYNAMIC LIGHTING-SILVER (2)SCENES CHASER & SCORE YES |
| INVERTER NO | | |
| DR. AKT | CHECKED BY | SCALE 40. |
| | | DATE 12/30/22 |
| | | PAGE 1 OF 1 |

| | |
|---|------------------------|
|  SPORTS LIGHTING, LLC | |
| E 215 W. MECHANIC STREET HILLSDALE, MI 49242 | |
| PHONE: 517/439-1581 FAX: 517/439-1194 800/933-9741 | |
| REVISED | DWG. # QL-22122DI00 |
| TITLE FOOTBALL FIELD LIGHTING | |
| CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA | |



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ALL CROSSARMS ARE PARALLEL TO FOUL LINES
UNLESS OTHERWISE NOTED



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215 W. MECHANIC STREET HILLSDALE, MI 49242 P.O. BOX 765
PHONE: 517/439-1581 FAX: 517/439-1194 800/933-9741
WWW.QUALITE.COM

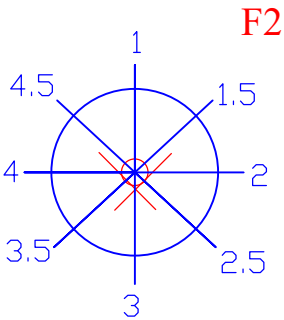
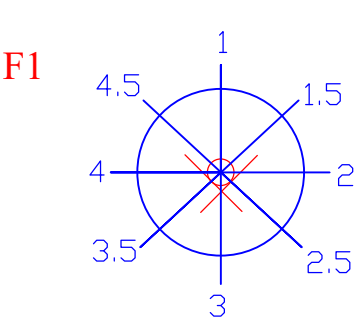
QL-22122D101

POLE LOCATION INSTRUCTIONS

CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA

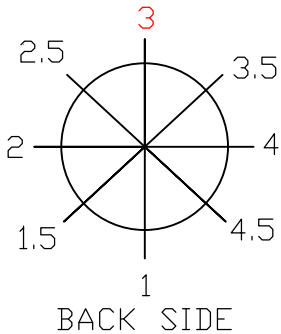
| | | | |
|-----|---------|---------|--------|
| AKT | SCALE=1 | 1/12/23 | 1 OF 2 |
|-----|---------|---------|--------|

ALL CROSSARMS ARE PARALLEL TO FOUL LINES
UNLESS OTHERWISE NOTED

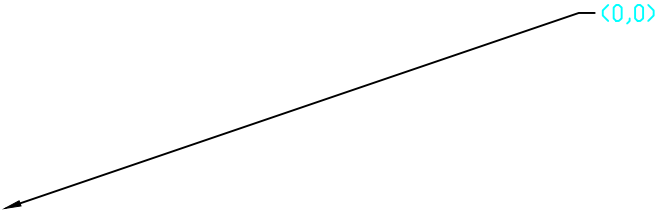


POLE ROTATION

FRONT SIDE

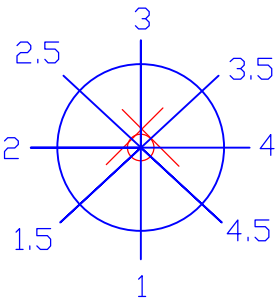


BACK SIDE

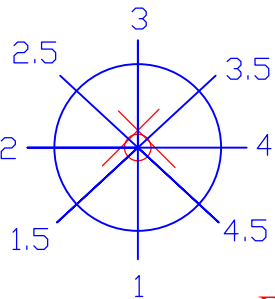


GUARANTEE IS BASED ON PROPER
INSTALLATION, MINIMUM INPUT
VOLTAGES, MOUNTING HEIGHT
+/- 3 FEET, AND POLES PLACED
WITHIN 4 FEET OF SPECIFIED
LOCATIONS.

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OF QUALITE SPORTS LIGHTING, INC.



F3



F4

Qualite
SPORTS LIGHTING, LLC

215 W. MECHANIC STREET
HILLSDALE, MI 49242
P.O. BOX 765

PHONE: 517/439-1581
FAX: 517/439-1194
800/933-9741

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QL-22122DI02

POLE LOCATION INSTRUCTIONS

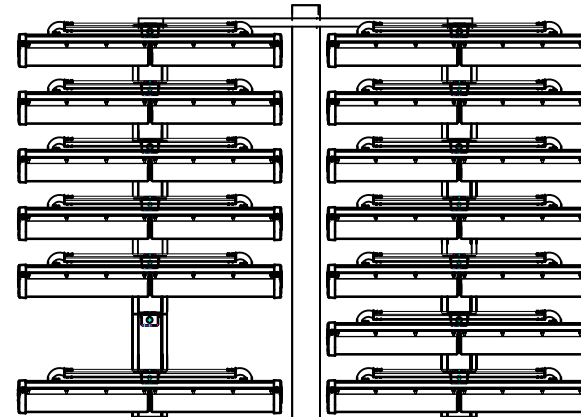
CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA

AKT SCALE=1 1/12/23 2 OF 2

SPECIAL RETRO-FIT
POLE TOP
(BY QUALITE)

END CAPS NEED TO BE RED

SIDE VIEW



STANCHIONS MOUNTED ON A
45° SIDE BY SIDE BKT.
SIDE BY SIDE MOUNTED ON
FRONT OF POLE

EACH STANCHION GETS
(6) 5/8" X 1 3/4"
STRUCTURE BOLT PKG TO
MOUNT STANCHIONS TO
SIDE BY SIDE BKT

FRONT VIEW

BALLAST CHANNEL WILL BE MOUNTED
TO ANGLE IRON USING 3/4" BOLT
(WILL BE ASSEMBLED IN FACTORY)

EXTRA HDWARE - PER POLE

- 10 - 10" THREADED ROD
- 10 - 12" THREADED ROD
- 10 - 14" THREADED ROD
- 10 - 13" REMOTE STRAP

7F ENCLOSURE

7F ENCLOSURE

2 1/2" X 5" NIPPLE PKG.
2" NIPPLE PKG.

FOOTBALL FIELD LIGHTING
CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA
POLE F1

DRIVER
ENCLOSURE

F1
POLES

Qualite
SPORTS LIGHTING, LLC

215 W. MECHANIC STREET
HILLSDALE, MI 49242 FAX: 517/439-1194
PHONE: 517/439-1581 800/933-9741

BRIDGEVILLE, PA
HARDWARE INSTRUCTIONS

CHECKED BY AKT 1/11/23 22122D200 1 OF 8

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HARDWARE LIST

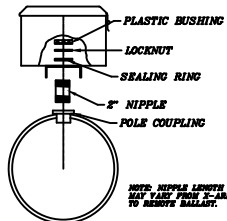
| HARDWARE DESCRIPTION | HWD. QTY. | POLE QTY. | TOTAL |
|-----------------------------------|-----------|-----------|-------|
| 8" THREADED ROD | 10 | 1 | 10 |
| 6" THREADED ROD | 3 | 1 | 3 |
| 12" THREADED ROD | 4 | 1 | 4 |
| "W" BRACKET | 8 | 1 | 8 |
| 5/8" GALV. NUT | 34 | 1 | 34 |
| 5/8" GALV. L/WASHER | 34 | 1 | 34 |
| 3/4" BOLT | 6 | 1 | 6 |
| 3/4" LOCK-WASHER | 6 | 1 | 6 |
| 3/4" FLAT-WASHER | 12 | 1 | 12 |
| 3/4" S.S. NUT | 12 | 1 | 12 |
| 5/8" X 1 3/4" STRUCTURE BOLT PKG. | 12 | 1 | 12 |
| 5/8" X 2" BOLT PKG. | 12 | 1 | 12 |
| 10" REMOTE STRAP | 8 | 1 | 8 |
| 16" REMOTE STRAP | 4 | 1 | 4 |
| 2 1/2" X 3" NIPPLE PKG. | 2 | 1 | 2 |
| 2" NIPPLE PKG. | 3 | 1 | 3 |

NOTE: USE THESE CONFIGURATIONS TO MOUNT ASSEMBLIES.

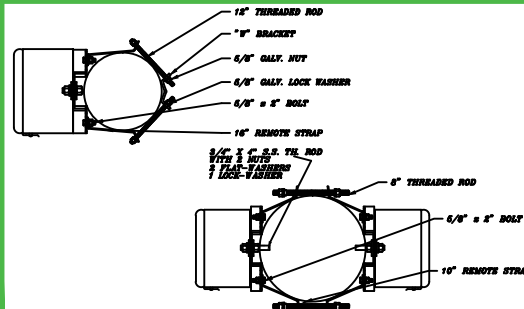
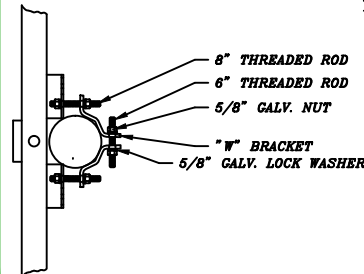
FOOTBALL FIELD LIGHTING
CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA
POLE F1

F1
POLES

NOTE: VIEW IS LOOKING THROUGH THE BOTTOM OF THE BOTTOM BOX.



TOP VIEW



Qualite
SPORTS LIGHTING, LLC

215 W. MECHANIC STREET
HILLSDALE, MI 49242 FAX: 517/439-1194
PHONE: 517/439-1581 800/933-9741

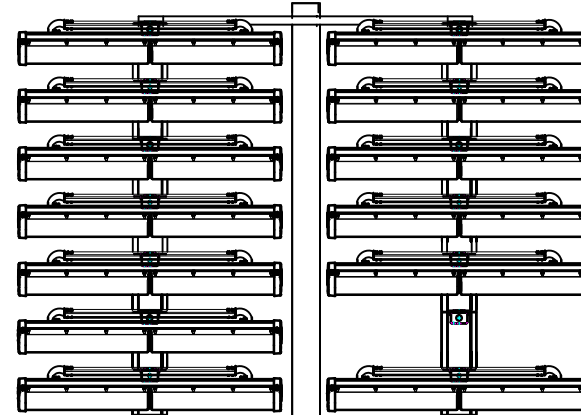
BRIDGEVILLE, PA
HARDWARE INSTRUCTIONS

AKT CHECKED BY 1/11/23 22122D201 2 OF 8

SPECIAL RETRO-FIT
POLE TOP
(BY QUALITE)

END CAPS NEED TO BE RED

SIDE VIEW



FRONT VIEW

STANCHIONS MOUNTED ON A
45° SIDE BY SIDE BKT.
SIDE BY SIDE MOUNTED ON
FRONT OF POLE

EACH STANCHION GETS
(6) 5/8" X 1 3/4"
STRUCTURE BOLT PKG TO
MOUNT STANCHIONS TO
SIDE BY SIDE BKT

BALLAST CHANNEL WILL BE MOUNTED
TO ANGLE IRON USING 3/4" BOLT
(WILL BE ASSEMBLED IN FACTORY)

EXTRA HDWARE - PER POLE

- 10 - 10" THREADED ROD
- 10 - 12" THREADED ROD
- 10 - 14" THREADED ROD
- 10 - 13" REMOTE STRAP

7F ENCLOSURE

7F ENCLOSURE

2 1/2" X 5" NIPPLE PKG.
2" NIPPLE PKG.

FOOTBALL FIELD LIGHTING
CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA
POLE F2

DRIVER
ENCLOSURE

F2
POLES

Qualite
SPORTS LIGHTING, LLC

215 W. MECHANIC STREET
HILLSDALE, MI 49242 FAX: 517/439-1194
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BRIDGEVILLE, PA

HARDWARE INSTRUCTIONS

AKT CHECKED BY 1/11/23 22122D202 3 OF 8

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HARDWARE LIST

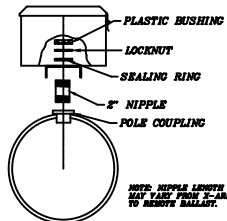
| HARDWARE DESCRIPTION | HWD. QTY. | POLE QTY. | TOTAL |
|-----------------------------------|-----------|-----------|-------|
| 8" THREADED ROD | 10 | 1 | 10 |
| 6" THREADED ROD | 3 | 1 | 3 |
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| 2 1/2" X 3" NIPPLE PKG. | 2 | 1 | 2 |
| 2" NIPPLE PKG. | 3 | 1 | 3 |

NOTE: USE THESE CONFIGURATIONS TO MOUNT ASSEMBLIES.

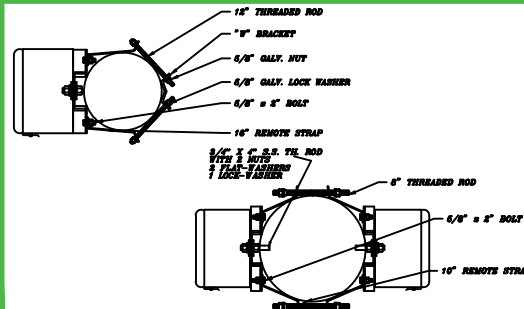
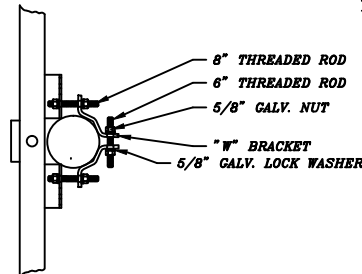
FOOTBALL FIELD LIGHTING
CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA
POLE F2

F2
POLES

NOTE: VIEW IS LOOKING THROUGH THE BOTTOM OF THE BOTTOM BOX.



TOP VIEW

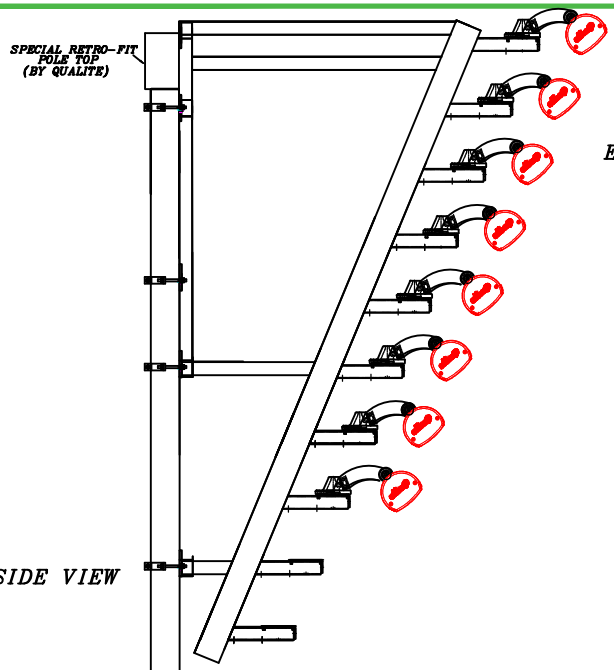


Qualite
SPORTS LIGHTING, LLC

215 W. MECHANIC STREET
HILLSDALE, MI 49242 FAX: 517/439-1194
PHONE: 517/439-1581 800/933-9741

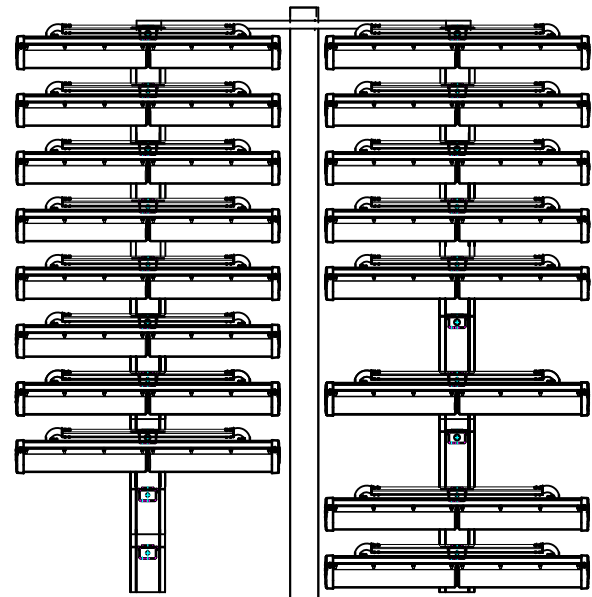
BRIDGEVILLE, PA
HARDWARE INSTRUCTIONS

AKT CHECKED BY 1/11/23 22122D203 4 OF 8



SIDE VIEW

END CAPS NEED TO BE RED



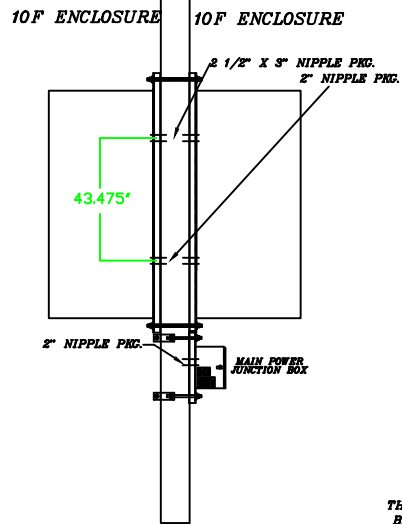
FRONT VIEW

STANCHIONS MOUNTED ON A 45° SIDE BY SIDE BKT. SIDE BY SIDE MOUNTED ON FRONT OF POLE

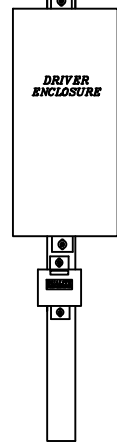
EACH STANCHION GETS (8) 5/8" X 1 3/4" STRUCTURE BOLT PKG TO MOUNT STANCHIONS TO SIDE BY SIDE BKT

BALLAST CHANNEL WILL BE MOUNTED TO ANGLE IRON USING 3/4" BOLT (WILL BE ASSEMBLED IN FACTORY)

| EXTRA HDWARE - PER POLE | |
|-------------------------|--------------------|
| 10 | - 10" THREADED ROD |
| 10 | - 12" THREADED ROD |
| 10 | - 14" THREADED ROD |
| 10 | - 10" REMOTE STRAP |



FOOTBALL FIELD LIGHTING
CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA
POLE F3



F3
POLES

Qualite
SPORTS LIGHTING, LLC

215 W. MECHANIC STREET
HILLSDALE, MI 49242 FAX: 517/439-1194
PHONE: 517/439-1581 800/933-9741
BRIDGEVILLE, PA
HARDWARE INSTRUCTIONS
CHECKED BY AKT 1/12/23 22122D204 5 OF 8

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HARDWARE LIST

| HARDWARE DESCRIPTION | HWD. QTY. | POLE QTY. | TOTAL |
|-----------------------------------|-----------|-----------|-------|
| 8" THREADED ROD | 8 | 1 | 8 |
| 6" THREADED ROD | 4 | 1 | 4 |
| 12" THREADED ROD | 6 | 1 | 6 |
| 10" THREADED ROD | 4 | 1 | 4 |
| "W" BRACKET | 12 | 1 | 12 |
| 5/8" GALV. NUT | 44 | 1 | 44 |
| 5/8" GALV. L/WASHER | 44 | 1 | 44 |
| 3/4" BOLT | 6 | 1 | 6 |
| 3/4" LOCK-WASHER | 6 | 1 | 6 |
| 3/4" FLAT-WASHER | 12 | 1 | 12 |
| 3/4" S.S. NUT | 12 | 1 | 12 |
| 5/8" X 1 3/4" STRUCTURE BOLT PKG. | 16 | 1 | 16 |
| 5/8" X 2" BOLT PKG. | 12 | 1 | 12 |
| 13" REMOTE STRAP | 4 | 1 | 4 |
| 10" REMOTE STRAP | 8 | 1 | 8 |
| SM. POLE ADPT. BKT. | 4 | 1 | 4 |
| 2 1/2" X 3" NIPPLE PKG. | 2 | 1 | 2 |
| 2" NIPPLE PKG. | 3 | 1 | 3 |

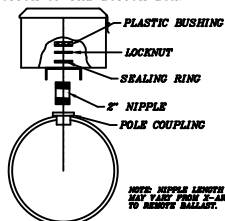
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NOTE: USE THESE CONFIGURATIONS TO MOUNT ASSEMBLIES.

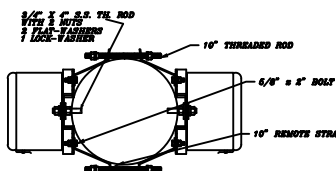
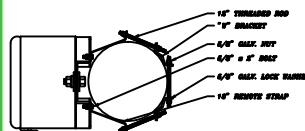
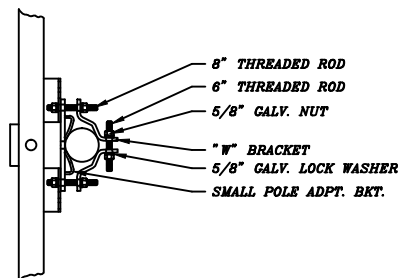
FOOTBALL FIELD LIGHTING
CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA
POLE F3

F3
POLES

NOTE: VIEW IS LOOKING THROUGH THE BOTTOM OF THE BOTTOM BOX.



TOP VIEW



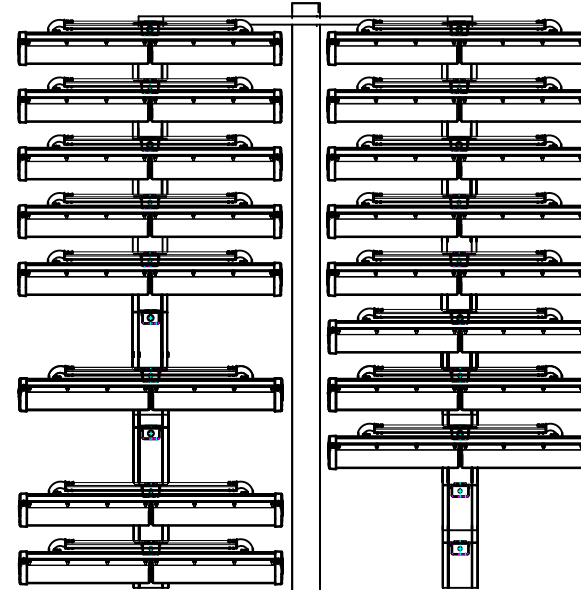
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SPORTS LIGHTING, LLC

215 W. MECHANIC STREET
HILLSDALE, MI 49242 FAX: 517/439-1194
PHONE: 517/439-1581 800/933-9741
BRIDGEVILLE, PA
HARDWARE INSTRUCTIONS
AKT CHECKED BY 1/12/23 22122D205 6 OF 8

SPECIAL RETRO-FIT
POLE TOP
(BY QUALITE)

END CAPS NEED TO BE RED

SIDE VIEW



FRONT VIEW

STANCHIONS MOUNTED ON A
45° SIDE BY SIDE BKT.
SIDE BY SIDE MOUNTED ON
FRONT OF POLE

EACH STANCHION GETS
(8) 5/8" X 1 3/4"
STRUCTURE BOLT PKG TO
MOUNT STANCHIONS TO
SIDE BY SIDE BKT

BALLAST CHANNEL WILL BE MOUNTED
TO ANGLE IRON USING 3/4" BOLT
(WILL BE ASSEMBLED IN FACTORY)

EXTRA HDWARE - PER POLE

- 10 - 10" THREADED ROD
- 10 - 12" THREADED ROD
- 10 - 14" THREADED ROD
- 10 - 10" REMOTE STRAP

10F ENCLOSURE

10F ENCLOSURE

2 1/2" X 3" NIPPLE PKG.
2" NIPPLE PKG.

43.475"

2" NIPPLE PKG.
MAIN POWER
JUNCTION BOX

FOOTBALL FIELD LIGHTING
CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA
POLE F4

DRIVER
ENCLOSURE

F4
POLES

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OR USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF QUALITE SPORTS LIGHTING, INC.

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SPORTS LIGHTING, LLC

215 W. MECHANIC STREET
HILLSDALE, MI 49242 FAX: 517/439-1194
PHONE: 517/439-1581 800/933-9741

BRIDGEVILLE, PA

HARDWARE INSTRUCTIONS

CHECKED BY AKT 1/12/23 22122D206 7 OF 8

HARDWARE LIST

| HARDWARE DESCRIPTION | HWD. QTY. | POLE QTY. | TOTAL |
|-----------------------------------|-----------|-----------|-------|
| 8" THREADED ROD | 8 | 1 | 8 |
| 6" THREADED ROD | 4 | 1 | 4 |
| 12" THREADED ROD | 6 | 1 | 6 |
| 10" THREADED ROD | 4 | 1 | 4 |
| "W" BRACKET | 12 | 1 | 12 |
| 5/8" GALV. NUT | 44 | 1 | 44 |
| 5/8" GALV. L/WASHER | 44 | 1 | 44 |
| 3/4" BOLT | 6 | 1 | 6 |
| 3/4" LOCK-WASHER | 6 | 1 | 6 |
| 3/4" FLAT-WASHER | 12 | 1 | 12 |
| 3/4" S.S. NUT | 12 | 1 | 12 |
| 5/8" X 1 3/4" STRUCTURE BOLT PKG. | 16 | 1 | 16 |
| 5/8" X 2" BOLT PKG. | 12 | 1 | 12 |
| 13" REMOTE STRAP | 4 | 1 | 4 |
| 10" REMOTE STRAP | 8 | 1 | 8 |
| SM. POLE ADPT. BKT. | 4 | 1 | 4 |
| 2 1/2" X 3" NIPPLE PKG. | 2 | 1 | 2 |
| 2" NIPPLE PKG. | 3 | 1 | 3 |

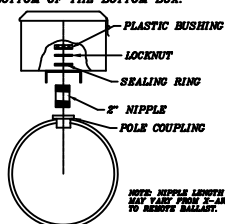
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NOTE: USE THESE CONFIGURATIONS TO MOUNT ASSEMBLIES.

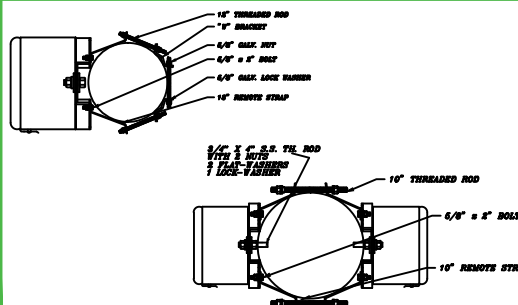
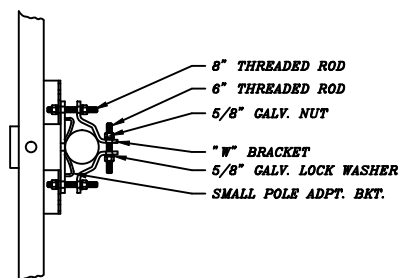
FOOTBALL FIELD LIGHTING
CHARTIERS VALLEY HIGH SCHOOL, BRIDGEVILLE, PA
POLE F4

F4
POLES

NOTE: VIEW IS LOOKING THROUGH THE BOTTOM OF THE BOTTOM BOX.



TOP VIEW



Qualite
SPORTS LIGHTING, LLC

215 W. MECHANIC STREET
HILLSDALE, MI 49242 FAX: 517/439-1194
PHONE: 517/439-1581 800/933-9741
BRIDGEVILLE, PA
HARDWARE INSTRUCTIONS
AKT CHECKED BY 1/12/23 22122D207 8 OF 8

MOUNTING HDWARE

| APPLICATION | FASTENER | DIA | LENGTH | MATERIAL | GRADE | TORQUE FT-Lb | INSTALLED | ADJUST | |
|------------------------------------|-----------------|---------|--------|-----------------|-----------|-----------------|-----------|----------|---------------------------------------|
| Horizontal aiming hub to stanchion | Carriage Bolt | 1/2" | 6" | Stainless Steel | 18-8 | 47 | Factory | In Field | Lock washer & nut |
| Horizontal aiming hub to stanchion | Lock Bolt | 3/8" | 1-1/4" | Stainless Steel | 18-8 | 20 | Factory | In Field | Lock washer & nut |
| Stanchion to 90° bracket | Structural Bolt | 5/8" | 1-3/4" | Galv | A325 | 90 | Field | N/A | Lock washer & nut |
| 90° bracket to pole | Threaded Rod | 5/8" | 6" | Galv | SAE J-429 | 90 | Field | In Field | Lock washer & nut |
| 90° bracket to pole | Threaded Rod | 5/8" | 8" | Galv | SAE J-429 | 90 | Field | In Field | Lock washer & nut |
| 90° bracket to pole | Threaded Rod | 5/8" | 10" | Galv | SAE J-429 | 90 | Field | In Field | Lock washer & nut |
| 90° bracket to pole | Threaded Rod | 5/8" | 12" | Galv | SAE J-429 | 90 | Field | In Field | Lock washer & nut |
| W-bracket for wrap around to pole | Bar Galv | 3/8"x2" | 11" | A36/A529 | G50 | | Field | In Field | Lock washer & nut |
| Pole to 90° bracket junction box | Nipple package | 2-1/2" | 3" | Pipe | SCH 40 | | Field | In Field | Lock nut, seal ring & plastic bushing |
| Pole to 90° bracket junction box | Nipple package | 2" | 3" | Pipe | SCH 40 | | Field | In Field | Lock nut, seal ring & plastic bushing |
| Driver cabinet to pole | Threaded Rod | 3/4" | 4" | Stainless Steel | 18-8 | 120 | Field | In Field | Lock nut, seal ring & plastic bushing |

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GUARANTEE IS BASED ON PROPER INSTALLATION, MINIMUM INPUT VOLTAGES, MOUNTING HEIGHT +/- 3 FEET, AND POLES PLACED WITHIN 4 FEET OF SPECIFIED LOCATIONS.

| | | | |
|-------------------------------------|---------|---------------------|--------|
| QUALITE SPORTS LIGHTING, LLC | | | |
| 215 W. MECHANIC STREET | | PHONE: 517/439-1581 | |
| HILLSDALE, MI 49242 | | FAX: 517/439-1194 | |
| P.O. BOX 765 | | 800/933-9741 | |
| | | WWW.QUALITE.COM | |
| MOUNTING HDWARE | | | |
| MJB | SCALE=1 | 7/21/20 | 1 OF 1 |



Warranty

25-YEAR TOTAL COVERAGE WARRANTY

LED GameChanger™ Lighting System Sports Lighting Application

Qualite Sports Lighting provides a 25-year “total coverage warranty” to the owner for complete peace of mind at no out-of-pocket cost.

Qualite warrants the GameChanger™ LED Lighting System for 25 years from failure.

All fixtures and or components are covered under this warranty for the full 25 years. All necessary labor, parts, wiring, etc. will be replaced or corrected at Qualite’s expense. The use and cost of equipment (cranes, lifts or other heavy construction equipment) is included in this warranty at Qualite’s expense.

Qualite warrants the GameChanger™ LED Lighting System for 25 years from failure.

All fixtures and or components are covered under this warranty for the full 25 years. All necessary labor, parts, wiring, etc. will be replaced or corrected at Qualite’s expense. The use and cost of equipment (cranes, lifts or other heavy construction equipment) is included in this warranty at Qualite’s expense.

u # t

- **Warranty period**
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Field Audit



| | |
|-----------------|------------------------|
| Project: | Chartier Valley |
| QL#: | 22122 |
| Date: | April 17, 2023 |

Light Level Audit Report Football

| | |
|-------------------|------------|
| Field Tech | Rey |
|-------------------|------------|

F1

F2

| | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|
| 70 | 71 | 70 | 69 | 70 | 65 | 65 | 70 | 70 | 71 | 70 |
| 70 | 76 | 75 | 76 | 76 | 72 | 73 | 75 | 80 | 76 | 77 |
| 68 | 70 | 78 | 76 | 78 | 75 | 76 | 78 | 80 | 75 | 76 |
| 69 | 70 | 71 | 72 | 73 | 72 | 73 | 75 | 76 | 76 | 74 |
| 70 | 73 | 71 | 73 | 71 | 70 | 71 | 73 | 76 | 75 | 76 |
| 68 | 75 | 73 | 70 | 70 | 68 | 68 | 69 | 70 | 72 | 71 |

F3

Press Box

F4

| measured | |
|------------------|-------------|
| Soccer | |
| Points | 72 |
| Average | 73 |
| Maximum | 80 |
| Minimum | 65 |
| Max / Min | 1.23 |

| Specified | |
|------------------|-------------|
| Soccer | |
| Points | 72 |
| Average | 70 |
| Maximum | na |
| Minimum | na |
| Max / Min | 2.00 |

FIELD NOTES:



Controls



Lighting Control At Your Fingertips!



✦ Customizable Scheduling

Plan your light schedule
up to a year in advance

✦ Control From Anywhere

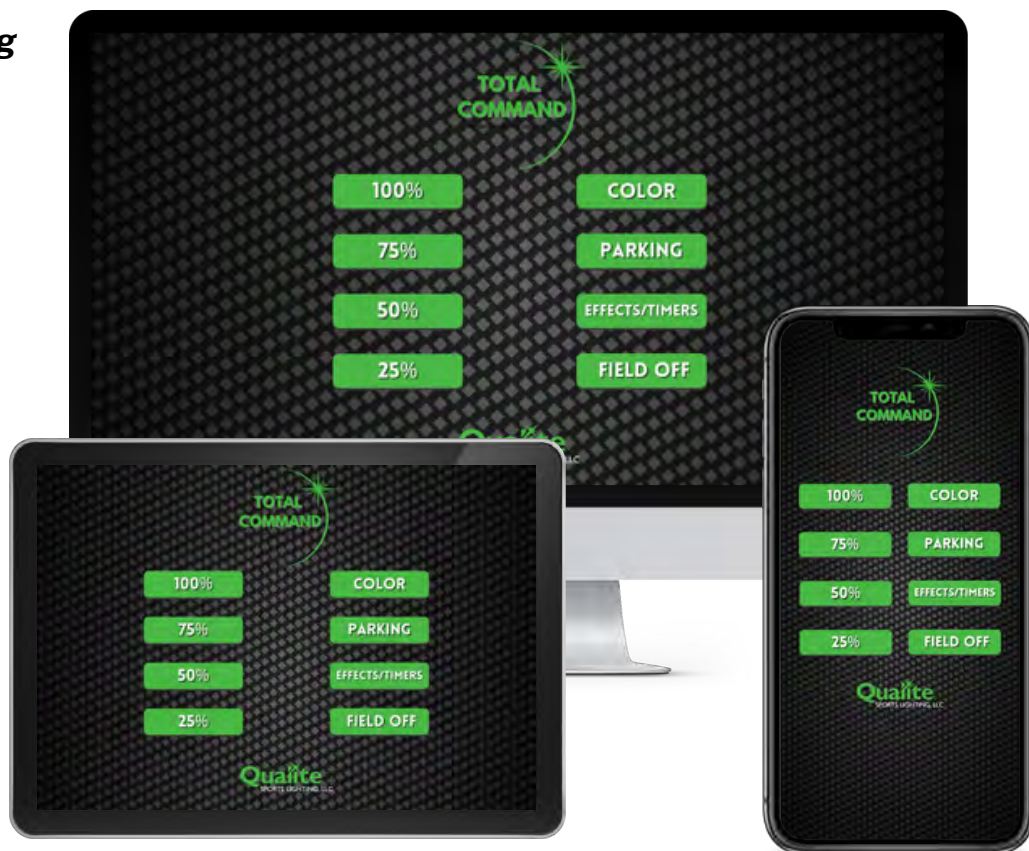
Make Changes anywhere
via your phone, ipad or laptop

✦ No Experience Needed

Controls are completely
intuitive

✦ Authentication

Use the login feature and
only you can access your
account

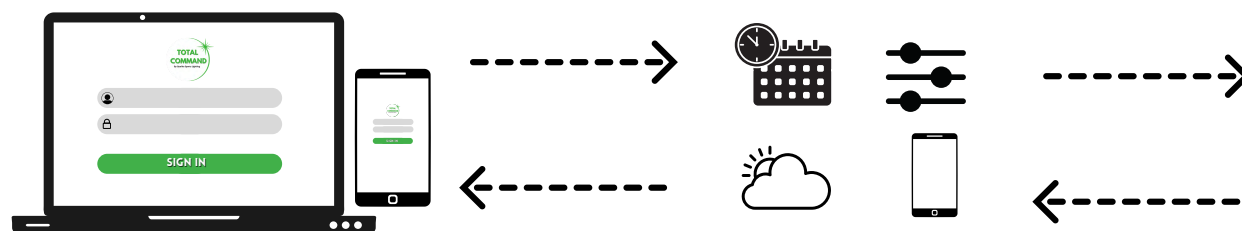


Compatible with existing in-house systems

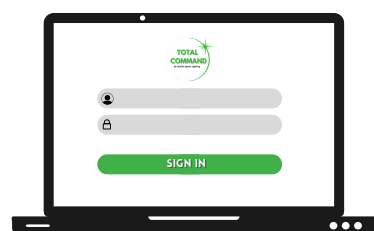




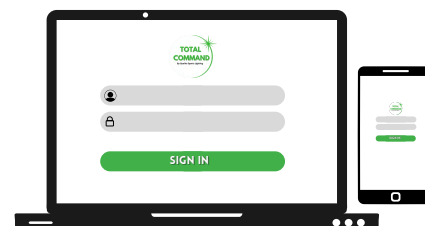
Testing & Vulnerability Management Monitoring & Development



System functionality and design changes are verified in an isolated test "Sandbox" environment and subjected to functional and security testing prior to development to active production systems. By testing in an isolated environment without live site data, we ensure no data can be compromised while testing. Once security and functionality is verified, changes are rolled out in stages



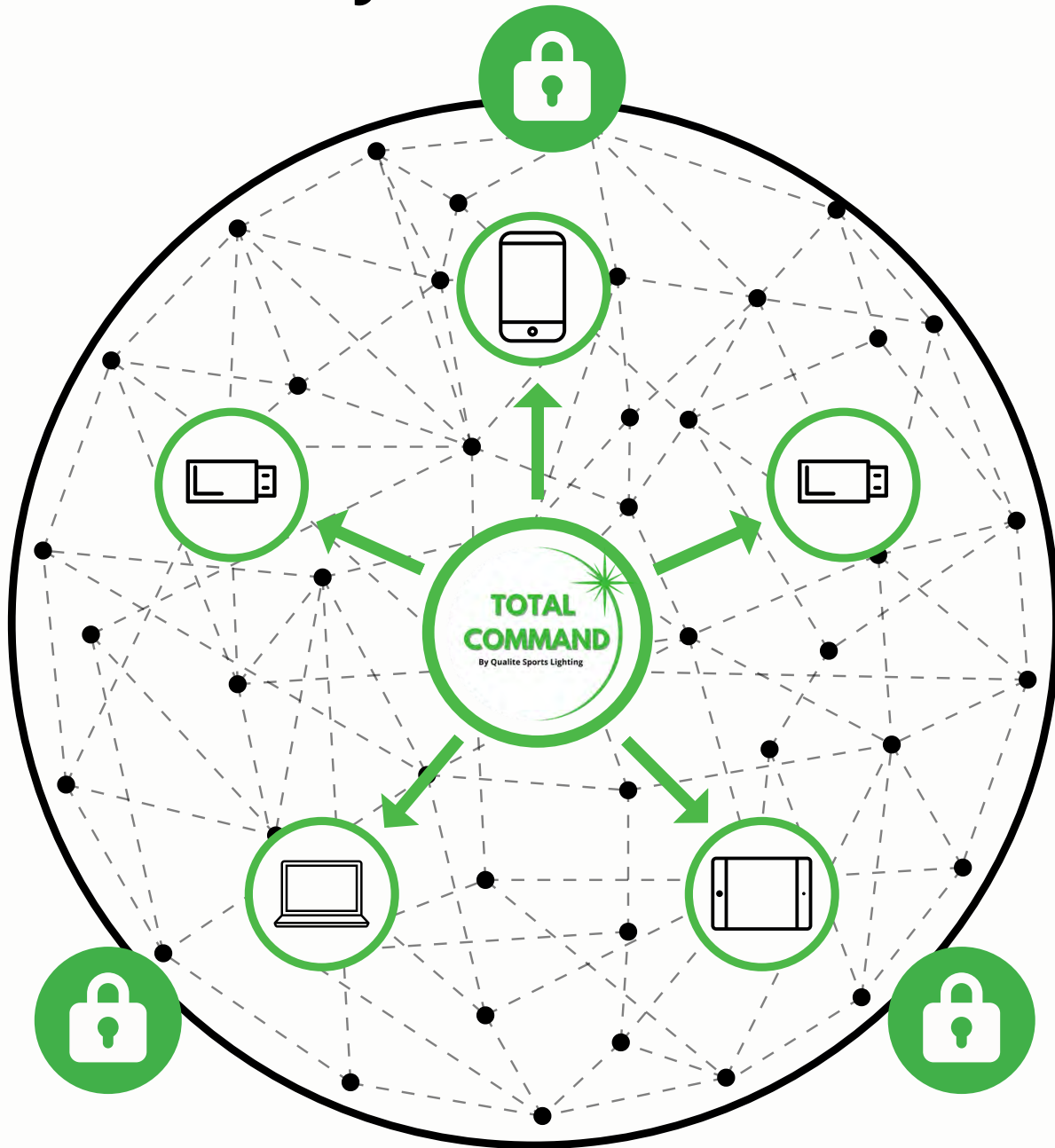
Strong Password



Two Factor Authentication

Industry-standard password management protocols are employed, including requirements for length and strength. Strong passwords are important and can be layered with two-factor authentication (2FA) for extra protection. This extra layer of protection can be especially important for administrative users such as systems management and support. Finally, user restrictions ensure access is granted for specific controls for each user. Whenever phones and computers are used to Control the app, each adjustment is logged by user, so if a users account is ever compromised, that user can immediately be removed or their password changed

On-Site Security: Device Communication



**Frequency
hopping
technology**

**No third-party
products on
network**

**Data transmission
is always encrypted**



Uplink: Private Cellular to Cloud



The Gateway communicates to the cloud-based services via dedicated, private 128-bit and 256-bit encrypted 3G cellular connections. Our secure connection operates completely independently from your IT infrastructure. The Gateway provides the communications between the 802.15.4 network and the 3G wireless network. In addition to standard 3G encryption, all data over the cell network travels on a private allocation of cellular addressing over an encrypted VPN (virtual private network) between the Gateways and our private data center.



**TotalCommand™ operates
on the Verizon 4g Network**

Features

✦ ***Plug and Play***

With Skyus 160 you can easily connect to a 4G LTE network. The two SMA external cellular antennas extend your coverage to enhance your wireless connection

✦ ***Backup Power***

The 440mah keeps your business connected for up to 12 hours and charges quickly

✦ ***Secure and Encrypted***

Skyus 160 Safeguards your data with advanced encryption, hacker prevention, and password protection features



GameChanger™ **Dynamic Lighting System**

Qualite Sports Lighting can help you create a memorable sports experience with our GameChanger™ Dynamic Lighting System. The system is controlled via the TotalCommand app or from any desktop computer.

Our Edison Award-winning QLED GameChanger™ Lighting System now comes standard with our **Silver Dynamic Lighting Package**. The two scenes, included in every Silver Package, are:

Chaser

Lights flash from one fixture to another and from pole to pole

Score

Random patterns of flashing lights from pole to pole

Upgrade to our **Gold Dynamic Lighting Package**, which includes four dynamic scenes:

Chaser

Lights flash from one fixture to another and from pole to pole

Score

Random patterns of flashing lights from pole to pole

Ladder Climb

Fills stanchions with lights going up and removes light from the stanchions as it goes down

Firefly

Random lights on each stanchion lighting up like fireflies

Upgrade to our **Platinum Dynamic Lighting Package**, which includes six dynamic scenes:

Chaser

Lights flash from one fixture to another and from pole to pole

Score

Random patterns of flashing lights from pole to pole

Ladder Climb

Fills stanchions with lights going up and removes light from the stanchions as it goes down

Firefly

Random lights on each stanchion lighting up like fireflies

Applause

Lights alternating between outside stations and outside stations, mimicking handclapping

Waterfall

Lights cascading down each stanchion like a waterfall



QLED GameChanger™ RGBA Lighting Options

Qualite Sports Lighting's GameChanger™ RGBA Lighting System offers the players and fans, alike, an experience they won't forget! Scenes can be preprogrammed to fit any venue - professional to recreational!

Our Preset Scenes Include:

Corner to Corner

Two colors of lights going from corner to corner of the venue. This scene can be customized to school colors!

Scrolling Rainbow

A scrolling rainbow of the color palette alternating from home to visitor side of the venue

Follow the Leader

Alternating colors fading from one pole to another

Spectrum

Alternating colors fading from one pole to another

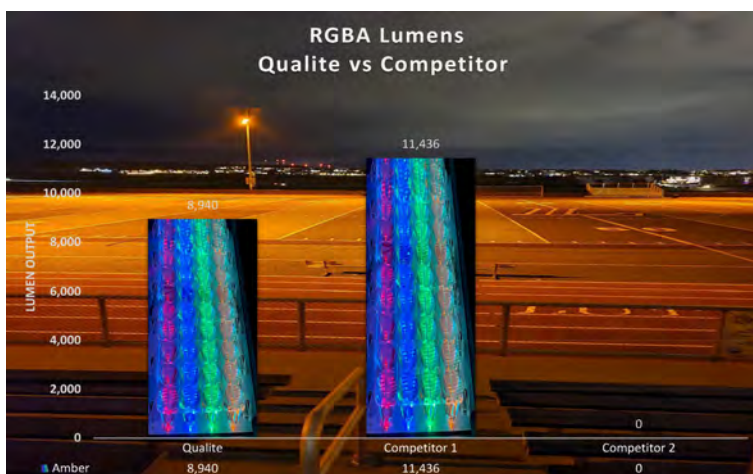
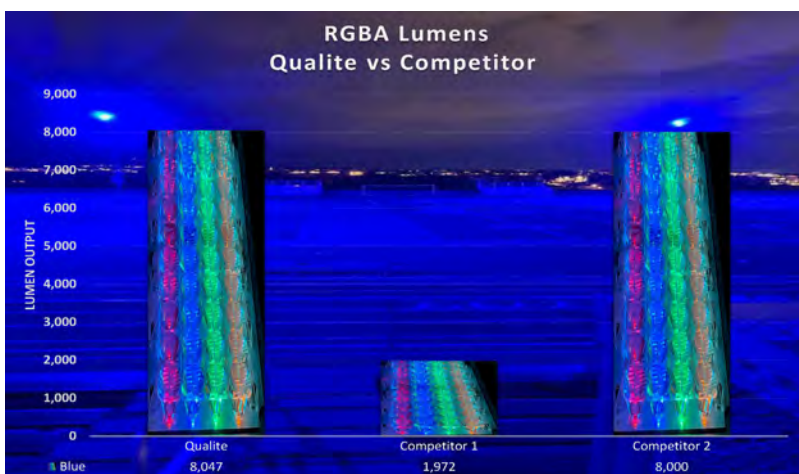
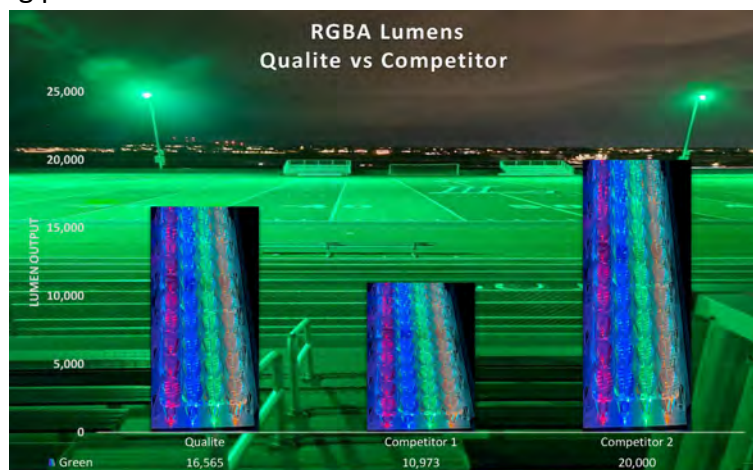
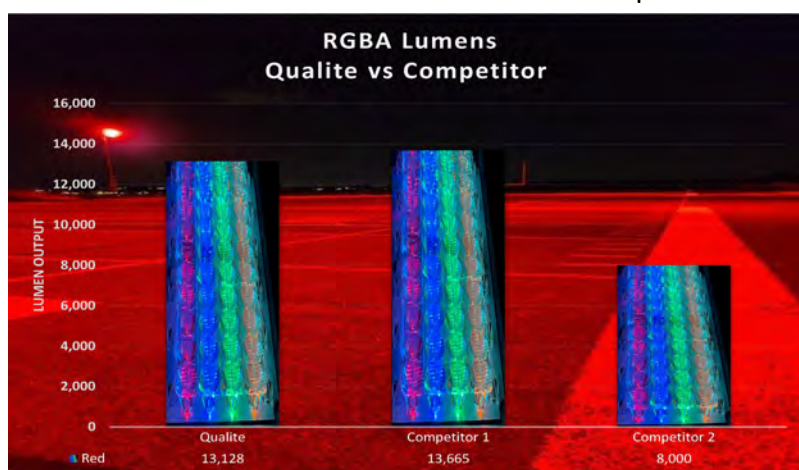
Color Chase

Vibrant colors chase around the venue

Color Carousel

Clockwise rotation of the color palette

TotalCommand™ system includes preprogrammed "one-touch" lighting effects. If you already have a DMX system in place, Qualite's system will act as an extension of your already-in-place system. Custom light scenes are also available as an option. Including preset scenes with music.





Disconnect Info

Data sheet

3VA5130-4EC31-0AA0



circuit breaker 3VA5 UL frame 125 breaking capacity class S 25kA @ 480V 3-pole, line protection TM230, FTAM, $I_n=30A$ overload protection $I_n=30A$ fixed short-circuit protection $I_i=5...10 \times I_n$ without connection

| Model | |
|---|-----------------------------|
| Product brand name | SENTRON |
| Product designation | Molded-case circuit breaker |
| Product designation / according to UL file | SEAS |
| Product version | System protection |
| Design of the load switch / acc. to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type) | Yes |
| Design of the overcurrent release | TM230 |
| Protective function of the overcurrent release | LI |
| Number of poles | 3 |
| General technical data | |
| Rated insulation voltage U_i | 800 V |
| Max. rated operational voltage U_e with AC 50/60Hz | 690 V |
| Max. rated operational voltage U_e with DC | 500 V |
| Power loss [W] / maximum | 9.3 W |
| Active power loss / for rated value of the current / at AC / in hot operating state / per pole | 3.1 W |
| Mechanical service life (switching cycles) / typical | 15 000 |

| | |
|---|---------|
| Electrical endurance (switching cycles) / at AC-1 / at 380/415 V 50/60 Hz | 8 000 |
| Electrical endurance (switching cycles) / at AC-1 / at 690 V 50/60 Hz | 4 000 |
| Electrical endurance (switching cycles) / at 480 V / at 50/60 Hz | 8 000 |
| Electrical endurance (switching cycles) / at 600 V / at 50/60 Hz | 4 000 |
| Neutral conductors / upgradeable/retrofitable | No |
| Ground fault monitoring version | Without |
| Product function | |
| • communication function | No |
| • other measurement function | No |

Current

| | |
|--|--------|
| Marking / acc. to UL 489 / 100%-rated breaker | No |
| Max. rated operational current of the frame size | 125 A |
| Rated continuous current I _u | 30 A |
| Operating current | |
| • at 40 °C | 30 A |
| • at 45 °C | 29.4 A |
| • at 50 °C | 28.8 A |
| • at 55 °C | 28.3 A |
| • at 60 °C | 27.7 A |
| • at 65 °C | 27.2 A |
| • at 70 °C | 26.7 A |

Switching capacity according to IEC 60947

| | |
|--|--|
| Switching capacity class of the circuit breaker | S |
| Maximum short-circuit current breaking capacity (I _{cu}) | |
| • at 240 V | 55 kA |
| • at 415 V | 36 kA |
| • at 690 V | 5 kA |
| Operational short-circuit current breaking capacity (I _{cs}) | |
| • at 240 V | 85 kA |
| • at 415 V | 36 kA |
| • at 690 V | 5 kA |
| Short-circuit current making capacity (I _{cm}) | |
| • at 240 V | 121 kA |
| • at 415 V | 76 kA |
| • at 690 V | 7.5 kA |
| Design of short-circuit protection | For switching power values in DC networks, see the 3VA molded case circuit breaker device manual; link to be found under Service & Support in the last chapter |

Switching capacity according to UL 489

| | |
|---------------------------|-------|
| Breaking capacity current | |
| • at 240 V | 65 kA |
| • at 480 V | 25 kA |
| • at 600 Y/347 V | 14 kA |

Adjustable parameters

| | |
|---|-------|
| Adjustable response value current / I _r min. | 30 A |
| Adjustable response value current / I _r max. | 30 A |
| Adjustable response value current / I _i min. | 150 A |
| Adjustable response value current / I _i max. | 300 A |
| Ground fault protection / tripping switchable / I ₂ t=ON/OFF | No |

Mechanical Design

| | |
|-------------|---------|
| Height [in] | 5.5 in |
| Height | 140 mm |
| Width [in] | 3 in |
| Width | 76.2 mm |
| Depth [in] | 3 in |
| Depth | 76.5 mm |

Connections

| | |
|---|--------------------|
| Arrangement of electrical connectors / for main current circuit | Without connection |
| Type of electrical connection / for main current circuit | Without |

Auxiliary circuit

| | |
|--|---|
| Number of CO contacts / for auxiliary contacts | 0 |
|--|---|

Accessories

| | |
|--|-----|
| Product extension / optional / motor drive | Yes |
|--|-----|

Environmental conditions

| | |
|------------------------------------|--------|
| Protection class IP / on the front | IP40 |
| Ambient temperature | |
| • during operation / minimum | -25 °C |
| • during operation / maximum | 70 °C |
| • during storage / minimum | -40 °C |
| • during storage / maximum | 80 °C |

Certificates

| | |
|--|----|
| Reference code / acc. to DIN EN 81346-2 | Q |
| Certificate of suitability / as approval for NAVAL (no combat vessels) / Supplement SB | No |

Data sheet

3VA9133-QJB11

wire connector 3 units accessory for: 3VA4/5 125



| Model | |
|--|--|
| Product brand name | SETRON |
| Product designation | accessories |
| Connections according IEC | |
| IEC-marking / of terminals | 1.5-95 CU 4.0-95 AL NNL |
| Connectable conductor cross-section | |
| • for copper cable / stranded / minimum | 10 mm ² |
| • for copper cable / stranded / maximum | 95 mm ² |
| • for aluminum cable / solid / minimum | 10 mm ² |
| • for aluminum cable / solid / maximum | 16 mm ² |
| • for aluminum cable / stranded / minimum | 10 mm ² |
| • for aluminum cable / stranded / maximum | 95 mm ² |
| Wire stripping length | 12,2 mm |
| Connections according UL | |
| UL-marking / of terminals | TA1.1 CMC 14-3/0 CU7 12-3/0 AL7 UR CSA |
| Permissible temperature / of connectable conductor / according to UL 486A-486B | 75 °C |
| Connectable conductor cross-section | |
| • for copper cable / stranded / maximum | 3/0 AWG |
| • for copper cable / finely stranded / maximum | 3/0 AWG |
| • for aluminum cable / stranded / minimum | 12 AWG |
| • for aluminum cable / stranded / maximum | 3/0 AWG |



Technical Sheets



INTRODUCING THE Q-LED GAMECHANGER SYSTEM

We didn't just set out to design a better LED light, we set out to design a system that would *revolutionize* the sports lighting world.

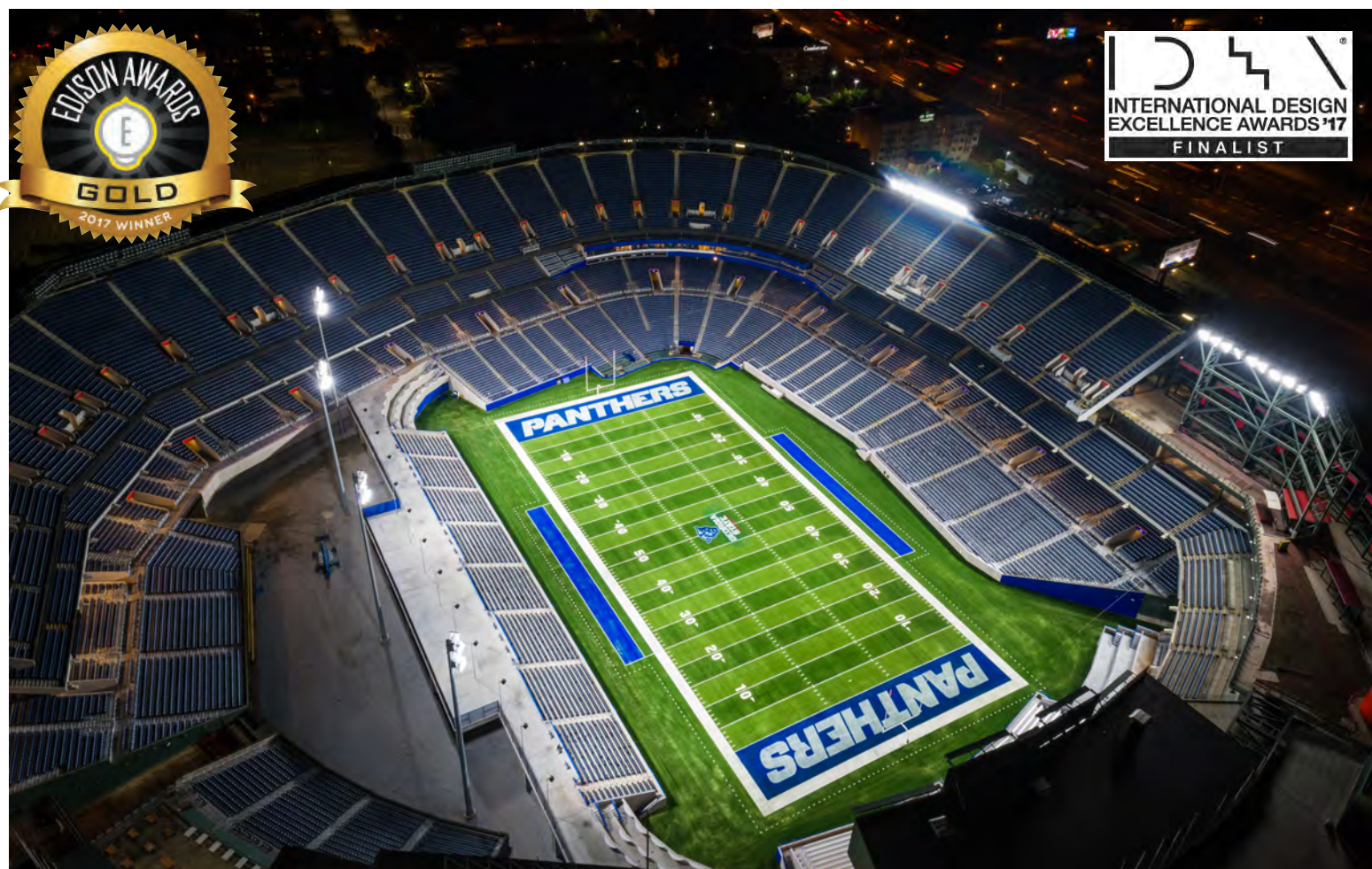
THE LATEST LED TECHNOLOGY

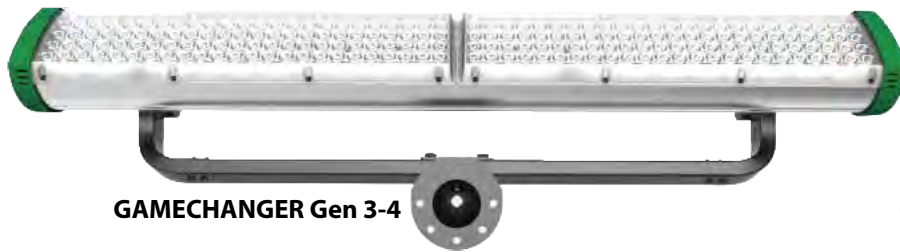
By combining over 30 years of focused sports lighting experience with the latest LED technology, we have developed a sports lighting system that is a true GameChanger™! Designed for HDTV broadcasting, digital photography and slow-motion recording of fast paced sports lighting venues from professional to recreational levels. With enhanced glare mitigation and specialized beam shapes we are able to paint the playing surface with smooth light and keep your neighbors dark and happy. Backed by the best warranty in sports lighting, guaranteed light levels and Qualite's life-long commitment to customer service.



Installation at Exeter Union High School, Exeter, CA.

Better Lighting, Better Game!





GAMECHANGER Gen 3-4



GAMECHANGER Gen 3-2

| GAMECHANGER™ Electrical Detail | GAMECHANGER™ Gen 3-4 | GAMECHANGER™ Gen 3-2 |
|--------------------------------|----------------------|----------------------|
| Kw Draw | 1.295 | 0.647 |
| *Lumen Output | 125,560 | 62,780 |
| CCT | 5,700 | 5,700 |
| CRI | >80 | >80 |
| Weight | 39 lbs. | 27 lbs. |
| CURRENT | Amps | Amps |
| 277v | 4.67 | 2.33 |
| 240v | 5.39 | 2.69 |
| 208v | 6.23 | 3.12 |
| 480 1 Ø | 2.7 | 1.35 |
| 480 3 Ø | 2.34 | 1.17 |

* The specifications listed were obtained under optimal testing conditions. Please note that changes in options, features and conditions may result in slightly different performance specifications among fixtures.

APPLICATIONS

Outdoor sports fields at all levels, general area lighting

RATINGS

IP66, -40°C to 55°C

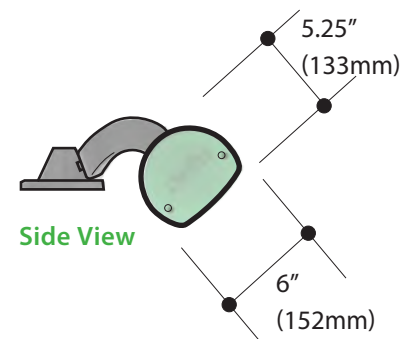
INPUT POWER

208v - 240v auto sensing

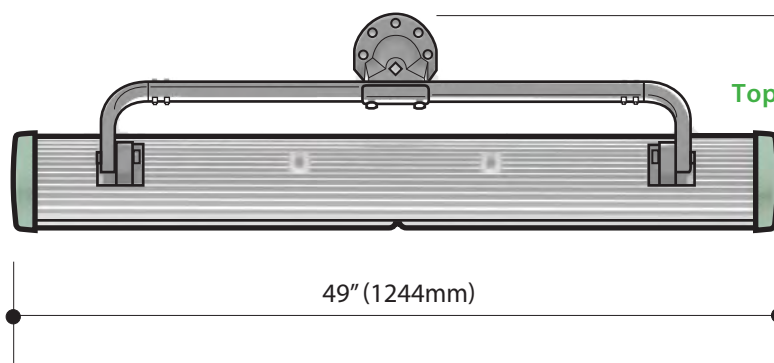
277v - 480v auto sensing

OPTICS/LENS

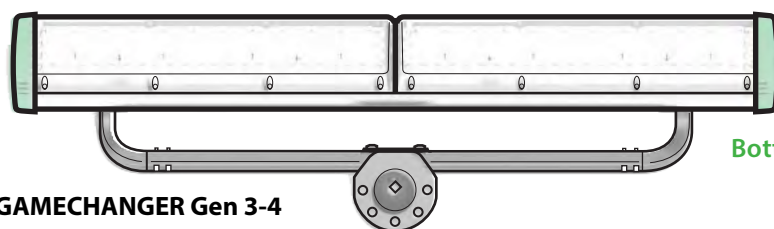
Various symmetrical and asymmetrical rectangular and round patterns with built in glare control utilizing TIR lens technology. PMMA outer lenses provide long life without yellowing.



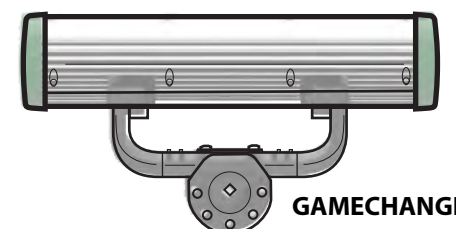
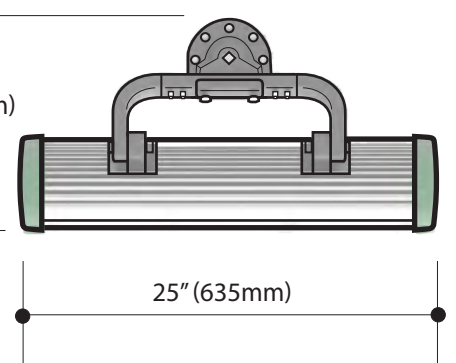
Top View



Bottom View



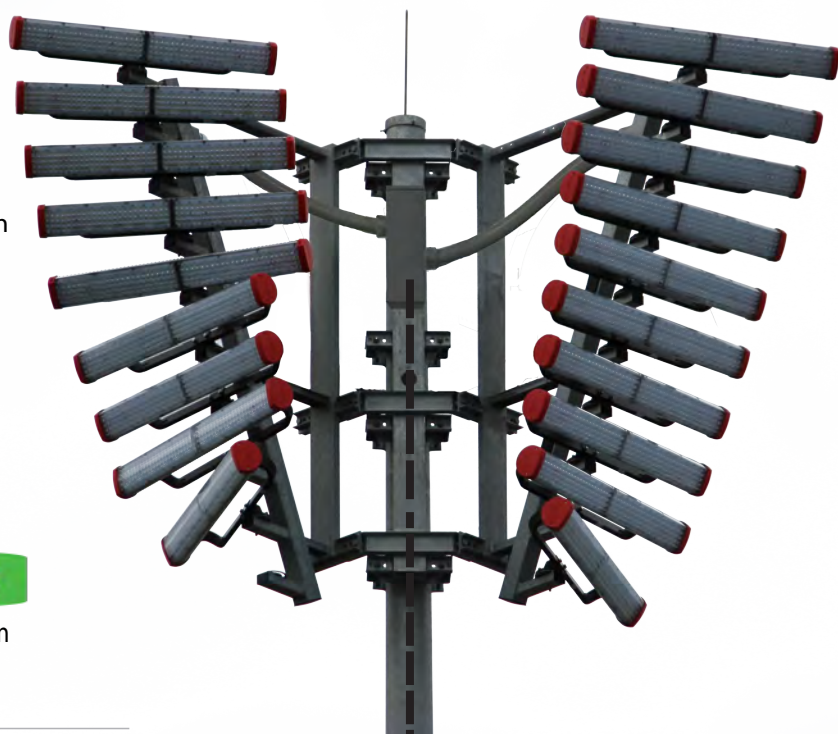
GAMECHANGER Gen 3-4



GAMECHANGER 3-2

BASIC ASSEMBLY CONFIGURATION:

Pre-wired, Pre-aimed, and
Pre-assembled light stanchion



THE GAMECHANGER LIGHTING SYSTEM

Pre-aimed, pre-wired and **FULLY ASSEMBLED** light racks for
unequaled ease of assembly with guaranteed performance.

FEATURES

High Efficiency LED
High CCT & CRI

SYSTEM BENEFITS

Lower power consumption
Low Lumen depreciation
5700K / 80CRI Min

Pre-wired and Pre-aimed System

Ease of Installation Guaranteed
light levels System engineered
components

Instant On/Off

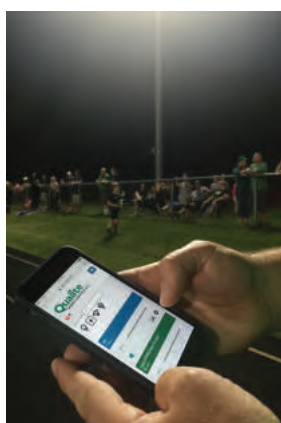
Allows for emergency
No warm-up/cool-down time

Color Consistency
Dimmable

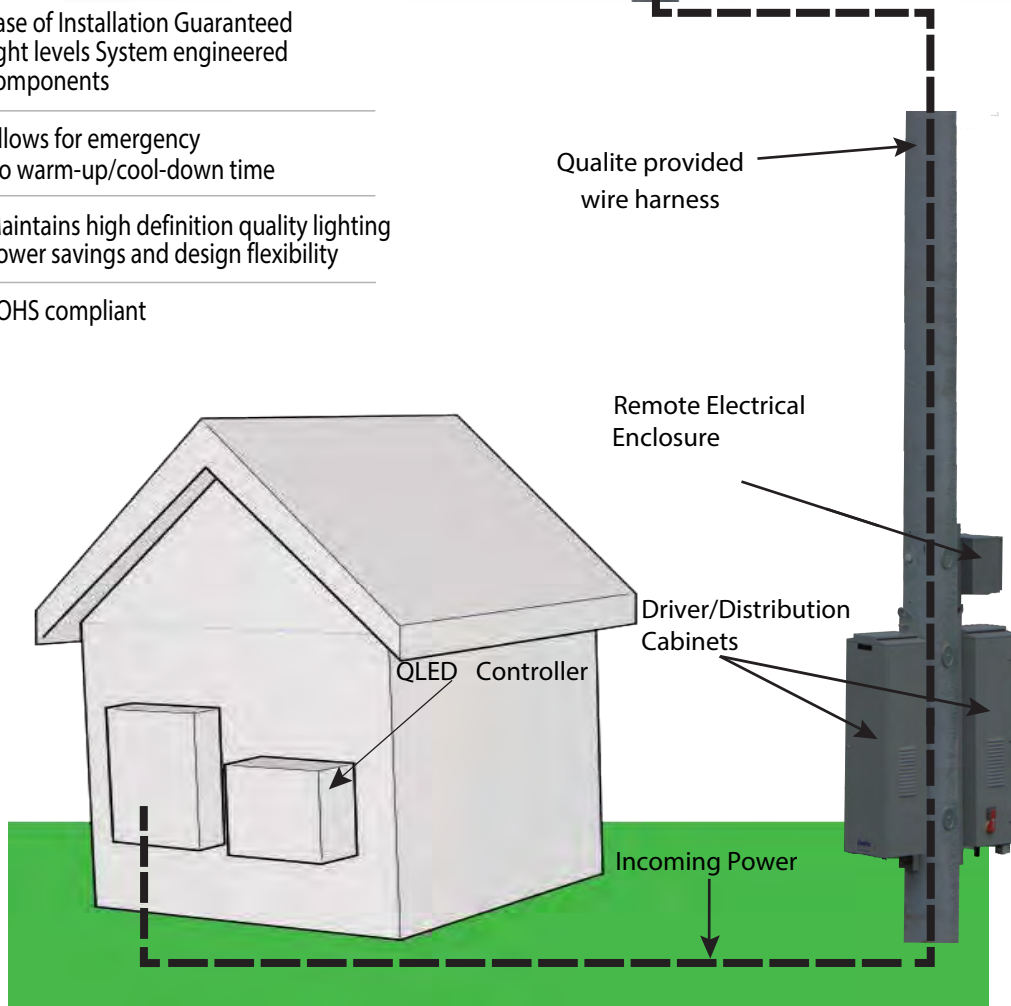
Maintains high definition quality lighting
Power savings and design flexibility

Environmentally Safe

ROHS compliant



GameChanger™ System being
controlled from a smart phone via an
app. GameChanger™ can be
programmed remotely from any
wireless device or laptop providing
the ultimate connectivity and control.
See the QLED controls brochure for
more information.

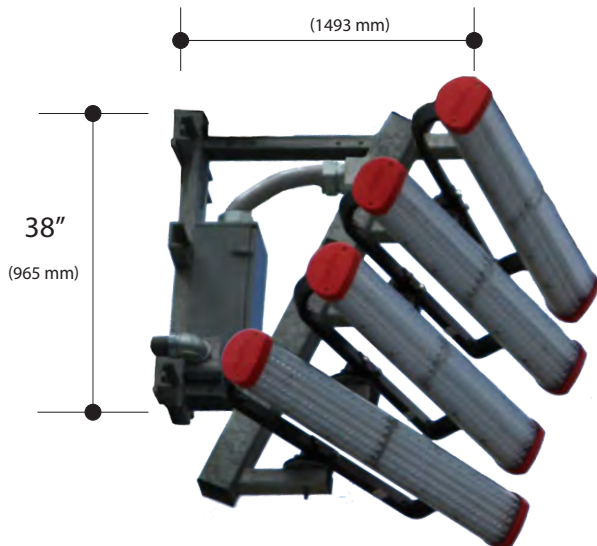


4F ASSEMBLY



58.8"

(1493 mm)



38"

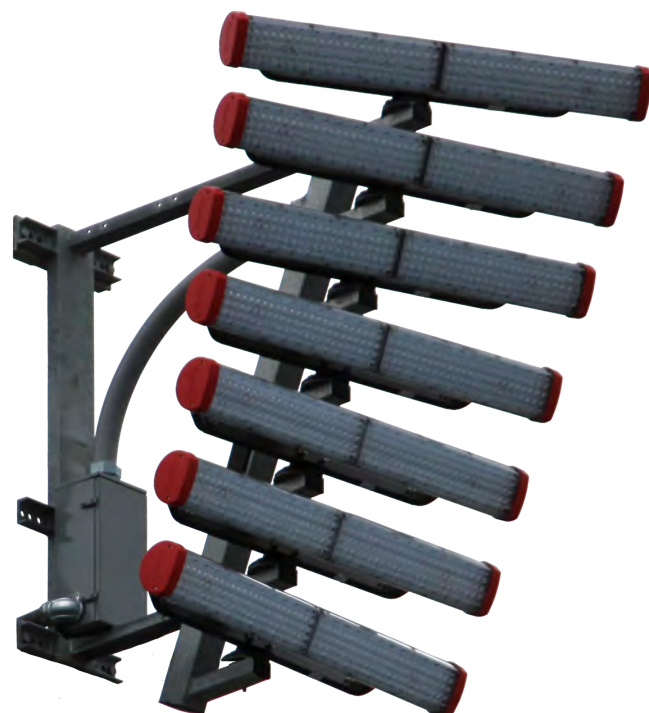
(965 mm)

Weight - approximately 296lbs

4F Side View



7F ASSEMBLY

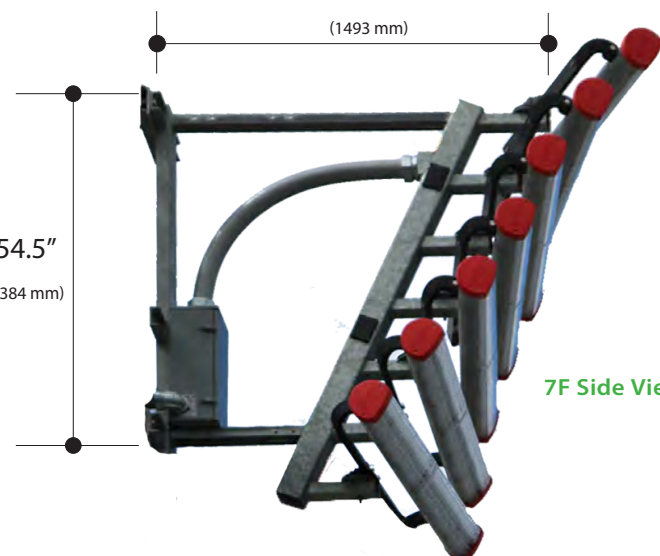


58.8"

(1493 mm)

54.5"

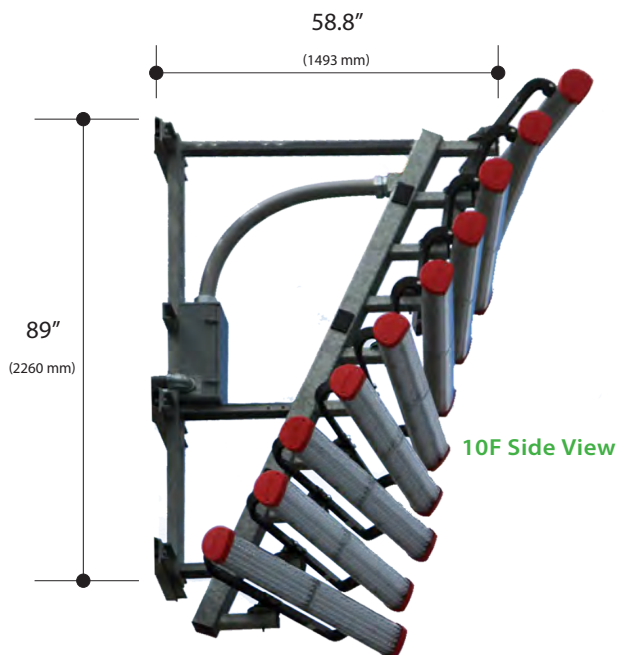
(1384 mm)



7F Side View

Weight - approximately 430lbs

10F ASSEMBLY



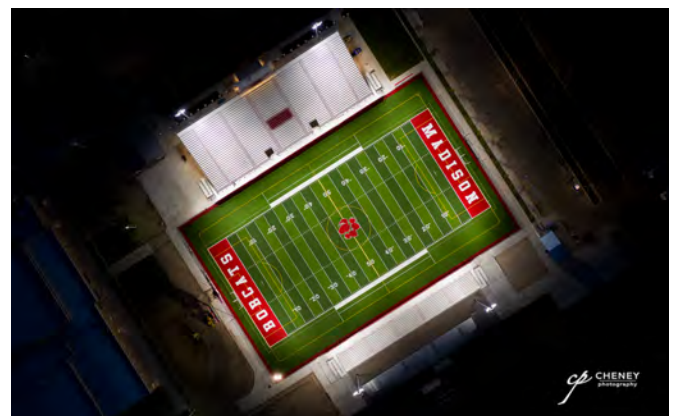
Weight - approximately 770lbs

Stanchion Assembly Details:

- Designed to meet AASHTO 150mph and Florida Building Code.
- Galvanized to ASTM A123/A123M standards.
- For use on new or retrofit.
- Fully Assembled and inspected prior to shipment.



Installation at Northwest High School, Jackson, MI.



Installation at Madison High School, Rexburg, ID.

RELIABILITY

Unlike legacy bulb-based systems, Q-LED™ System contains no parts to wear out or replace so you can be sure your lighting is maintenance-free for thousands of hours. Q-LED™ System is weather-proof and can handle the elements.

INTEGRATED CONTROLS

For the greatest control, Q-LED™ System interfaces with the Qualite wireless control system to offer the ultimate fan experience. With dimming, scheduling and many other functions, the customization possibilities are endless.

BEST WARRANTY IN THE BUSINESS

Qualite not only warranties our product, but we also guarantee the light levels, for the life of the system! We have the best standard warranty in the industry and can create a custom warranty to meet the customers needs.

Patent Pending

*Shown with optional external visor
for extreme spill and glare control.*



ABOUT QUALITE

Qualite has been the sports lighting partner for high schools, colleges, parks and recreation departments, and minor and major league sport franchises for over 30 years. In addition, Qualite has partnered with a leading LED fixture manufacturer to provide the highest quality LED technology to sports facilities, including the host stadium to the 2015 Super Bowl, The University of Phoenix in Glendale, AZ.