

SPECIFICATIONS

INTERNATIONAL Series™

World-class lighting design and efficiency

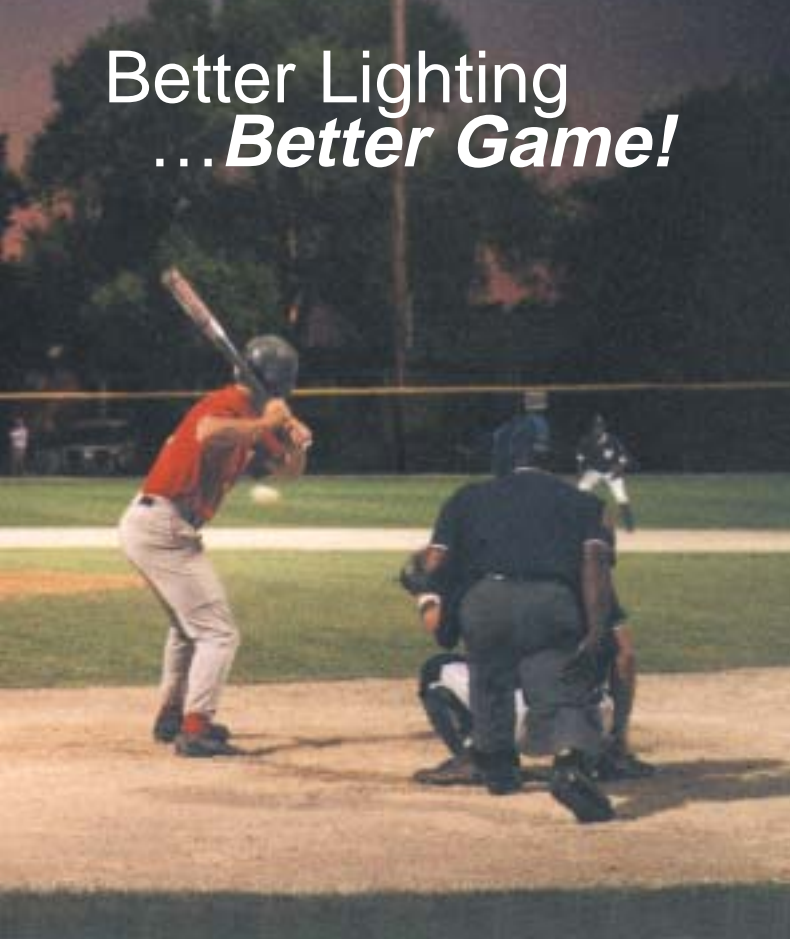
Qualite®



Qualite®
SPORTS LIGHTING, INC.



Better Lighting ... *Better Game!*



Qualite®

The International Lighting System by Qualite® is the ultimate application of controlled sports lighting. It utilizes the latest in double-ended metal halide lamp technology and a unique reflector design. Instead of having one focal point as in most reflectors, the International creates a *ring of focal points*, spreading the light source evenly as it exits the reflector. This lighting concept of combining an inner parabolic reflector and cross-axis double ended lamp, provides an extremely smooth, asymmetric oval beam pattern, creating a system up to *20% more efficient* than any other conventional outdoor sports light available.

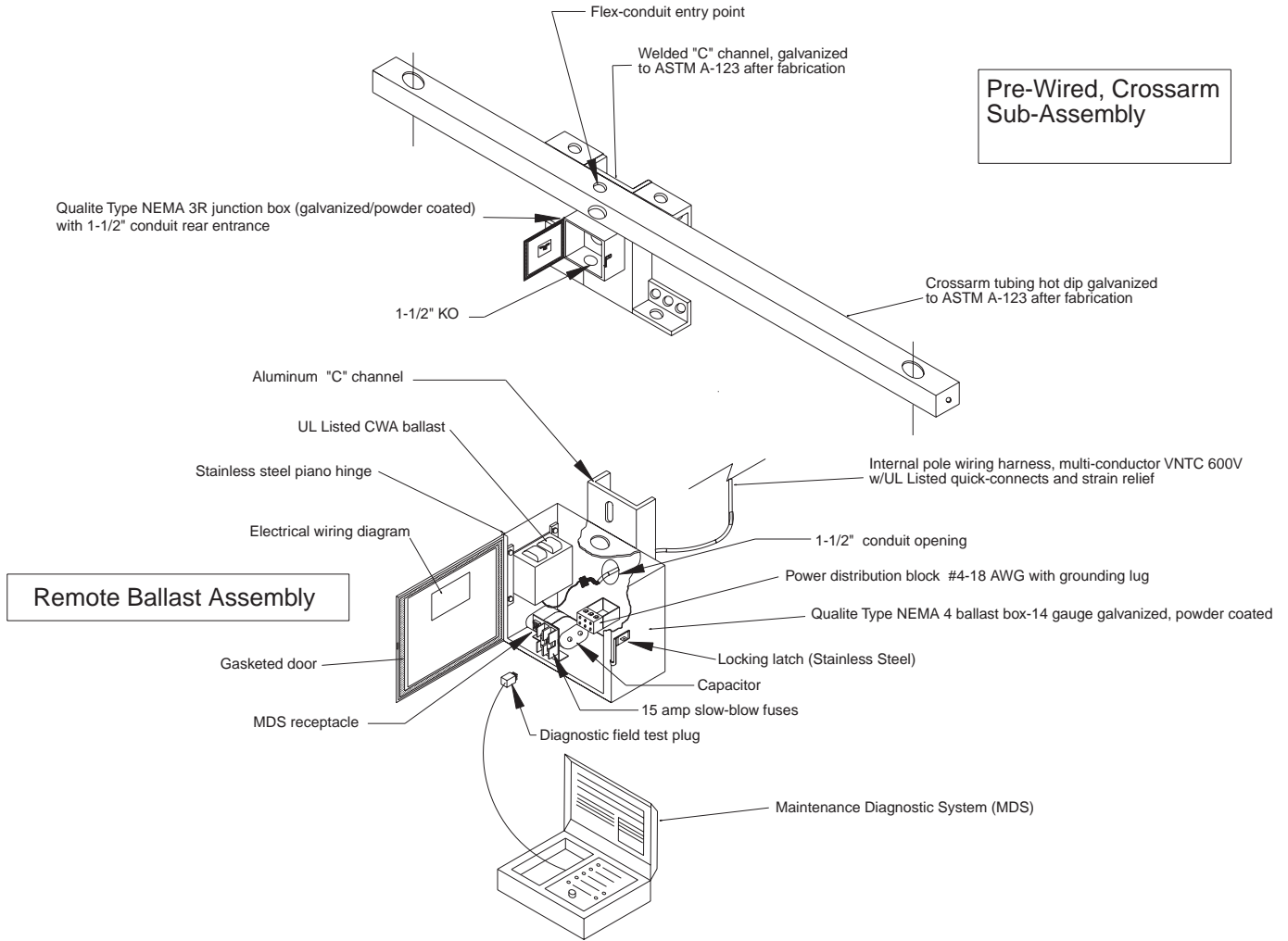
The International Lighting System will place the smoothest, most controlled light on your field, not on the homes and streets in the surrounding area, making your sports facility a very friendly neighbor in the community.

You'll find Qualite proven performance lighting systems at major sports facilities, high school and university athletic fields, golf courses, race tracks and multi-field sports complexes everywhere.

All Qualite lighting systems carry the best 10-year warranty in the business.



SYSTEM ASSEMBLY

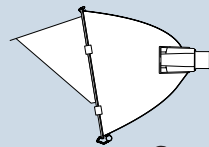


OPTIONS

(Check appropriate boxes)

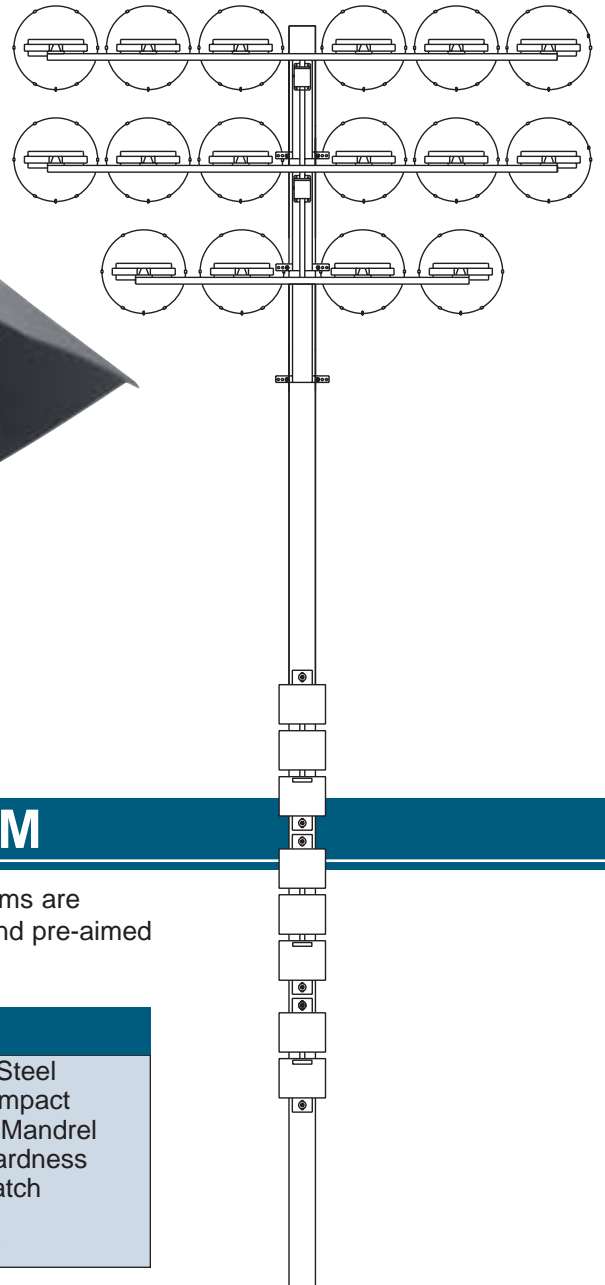
- Wire harness
- Pole breaker
- Top/bottom wire entrance
- Service basket
- Rear wire entrance
- QCC
- Pole disconnect
- ReQUEST
- Other _____

See Pg. 7 for more information



System	Lamp Options	Quantity
<input type="checkbox"/> INTV	<input type="checkbox"/> 1500 Watt	_____
<input type="checkbox"/> INT	<input type="checkbox"/> 2000 Watt	_____
Qty. _____		

Voltage		Phase	Ballast Position	Crossarm Position	Poles
1500 W	2000 W				
<input type="checkbox"/> 208V	<input type="checkbox"/> 277V	<input type="checkbox"/> Single phase	<input type="checkbox"/> Front mount (Field side)	<input type="checkbox"/> Front mount (Field side)	<input type="checkbox"/> Steel DB
<input type="checkbox"/> 240V	<input type="checkbox"/> 480V	<input type="checkbox"/> 3-phase	<input type="checkbox"/> Rear mount (Opposite field side)	<input type="checkbox"/> Rear mount (Opposite field side)	<input type="checkbox"/> Steel AB
<input type="checkbox"/> 277V					<input type="checkbox"/> Concrete DB
<input type="checkbox"/> 480V					<input type="checkbox"/> Other existing



THE QUALITE LIGHTING SYSTEM

Qualite remote ballast lighting systems begin with a patented 25" highly polished alzac coated reflector supported by a completely anodized aluminum housing and support yoke. All seals are of the highest grade materials and all fasteners are clear coated stainless steel or aluminum for longevity. Qualite heavy-duty crossarms are fabricated then hot dipped galvanized to ASTM 123 standards and are wind tunnel tested to 130 MPH with 1.3 gust factor.

Crossarms are fed from the remote ballast enclosures by multi-conductor VNTC tray cables supported within the pole by stainless strain relief. Ballast are CWA ANSI M48 (1500W) or M134 (2000W) and are UL Listed. No more than (2) ballast per enclosure assures cool running enclosure temperature.

Qualite NEMA Type 3R enclosures and doors are fabricated from galvanized sheet steel conforming to ASTM653/G90 standards and powder coated up to 5.0 mils. Each enclosure has stainless hinges and locking latches and is mounted to powder coated aluminum back channel for support.

All Qualite Lighting Systems are factory wired, UL listed and pre-aimed for shipment.

Enclosure Standards

ASTM 653/G90 Sheet Steel
 ASTM D2794 Dir/Rev Impact
 ASTM D522 Flexibility, Mandrel
 ASTM D3363 Pencil Hardness
 ASTM D3359 Cross Hatch Adhesion 5b (no loss)
 ASTM B117 Salt Spray

Qualite[®]



MAINTENANCE DIAGNOSTIC SYSTEM

DESCRIPTION

The Maintenance Diagnostic System is an exclusive UL Listed diagnostic testing analyzer integrated into all Qualite Lighting Systems. By utilizing a quick multi-pin connector, the MDS can isolate and troubleshoot common problems associated with HID lighting circuits such as a failed ballast, shorted lamp condition, failed capacitors or fuses. The MDS, with all incoming power off, will show test results with indicator lights on the display panel of the analyzer enclosure. The enclosure is molded of high-density polyethylene and measures 12-1/16" x 8" x 3-1/8". Its printed circuit board and connectors are UL recognized/certified components. The internal conductors are rated 300V, 60 degrees C minimum. The connection cable is multi-conductor AWM stranded 22 AWG minimum.



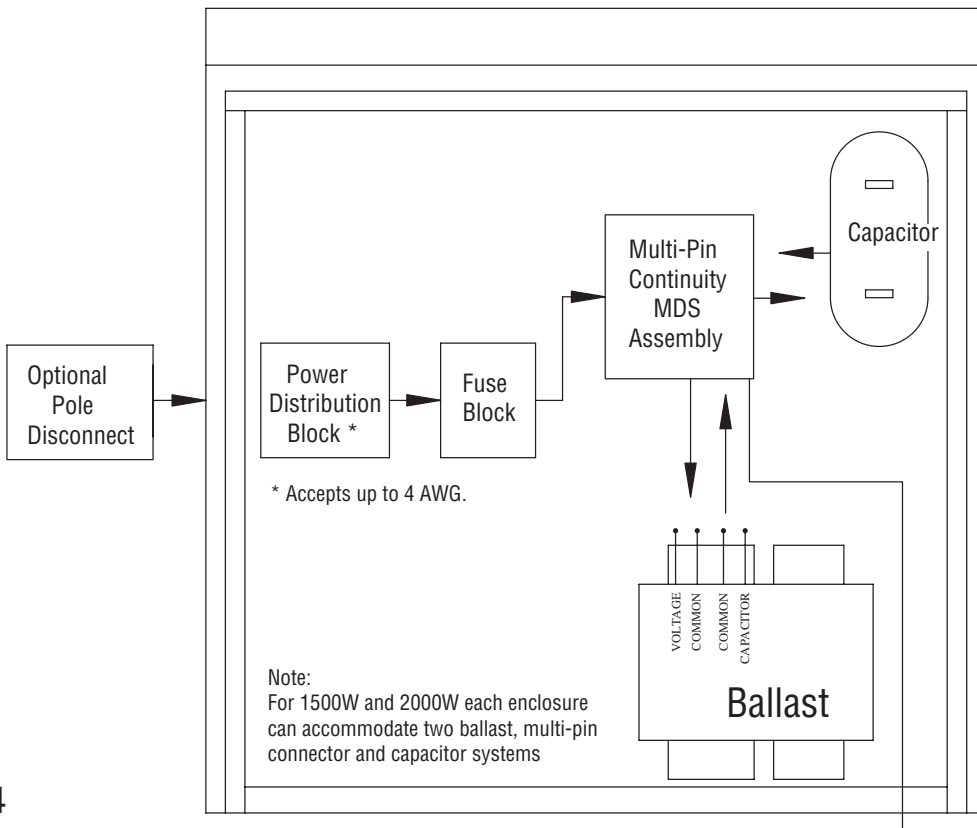
Patent No. 6,087,834

OPERATION

To operate the analyzer, open the de-energized ballast enclosure and unplug the multi-pin continuity plug. Plug in the analyzer's multi-pin connector and press the test button.

Indicator lights diagnose the problem. All MDS analyzers contain printed instructions within the enclosure lid and carry Qualite's standard ten-year warranty.

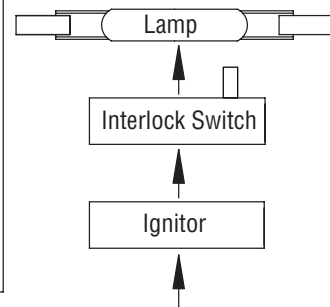
TYPICAL CIRCUIT DESIGN



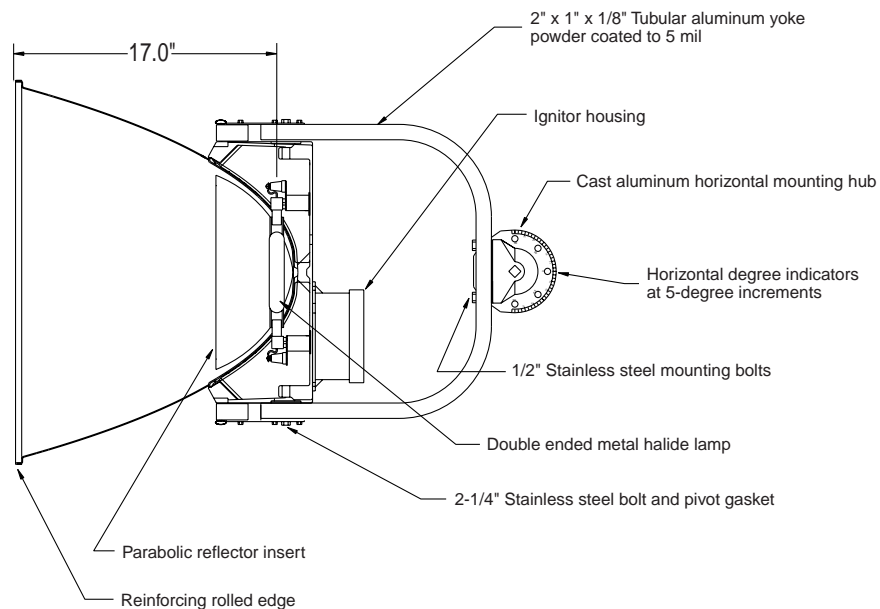
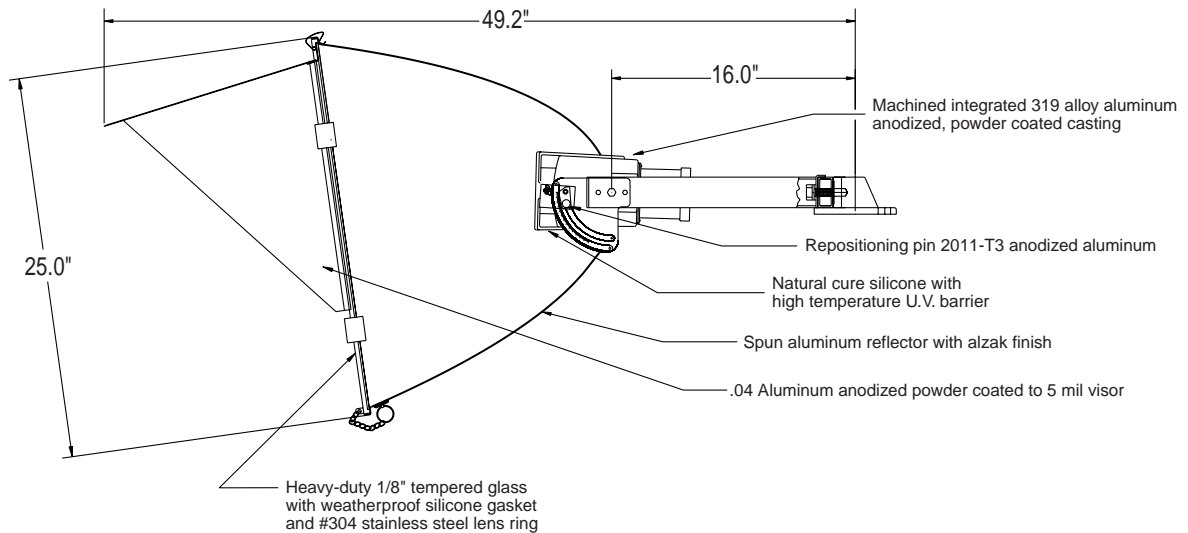
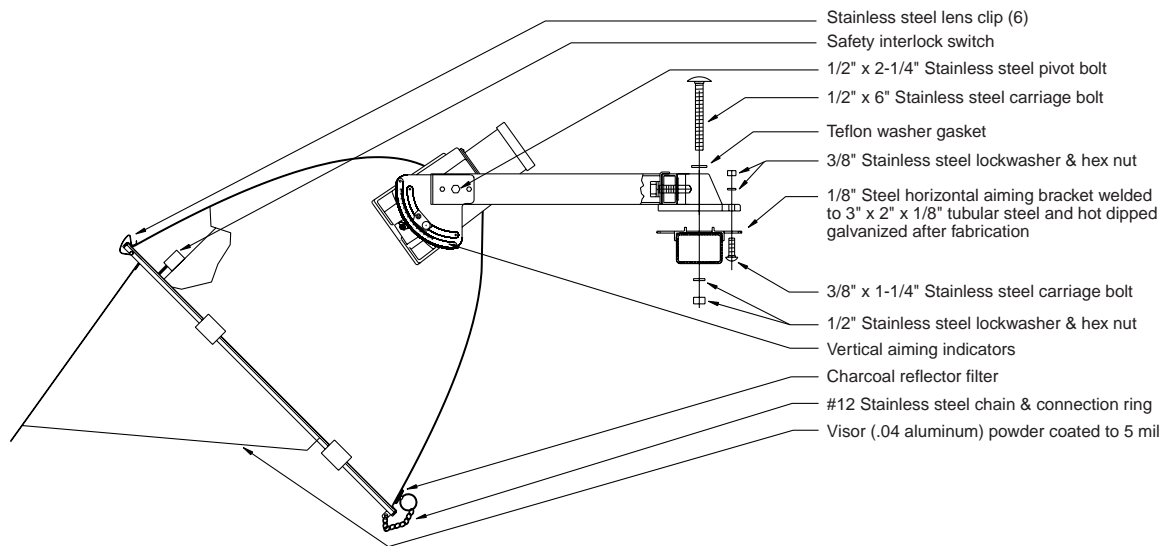
3 PHASE SYSTEM

Fixture loading is distributed evenly across the phases. Actual system loads are balanced by the contractor.

OPERATION DATA		
V	1500W	2000W
480	3.4 A / 1.605 KW	4.6 A / 2.16 KW
347	4.7 A / 1.605 KW	6.4 A / 2.16 KW
277	5.9 A / 1.605 KW	7.8 A / 2.16 KW
240	6.8 A / 1.605 KW	9.0 A / 2.16 KW
208	7.8 A / 1.605 KW	10.4 A / 2.16 KW

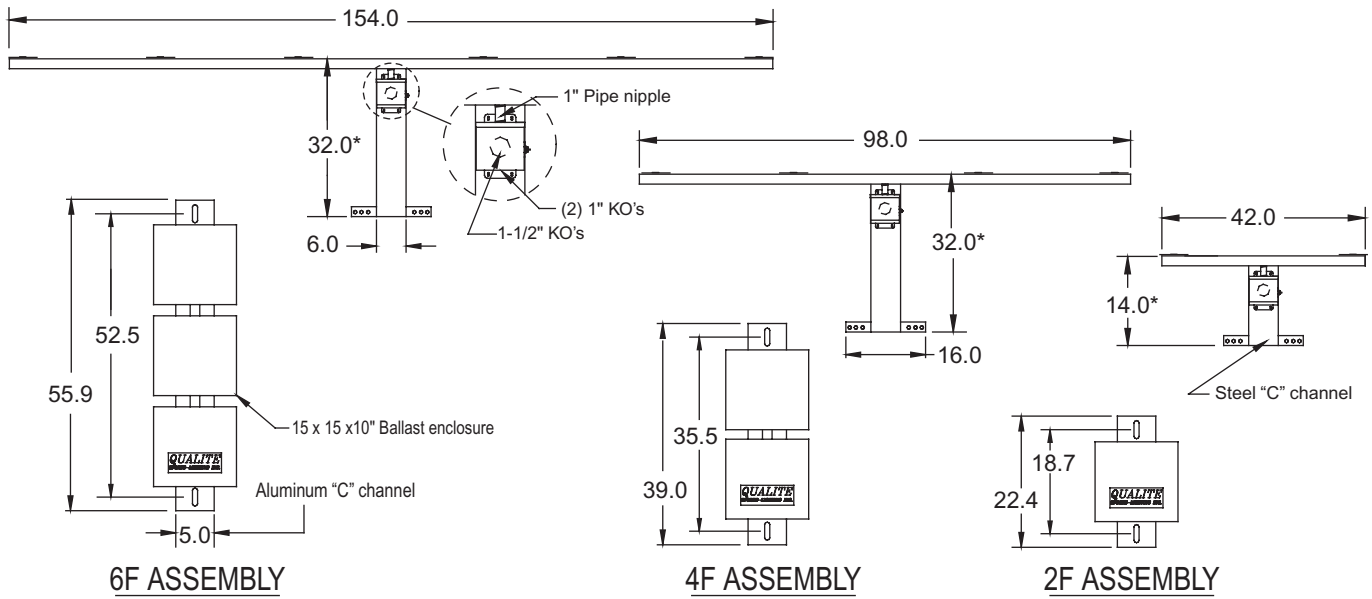


FIXTURE ASSEMBLY



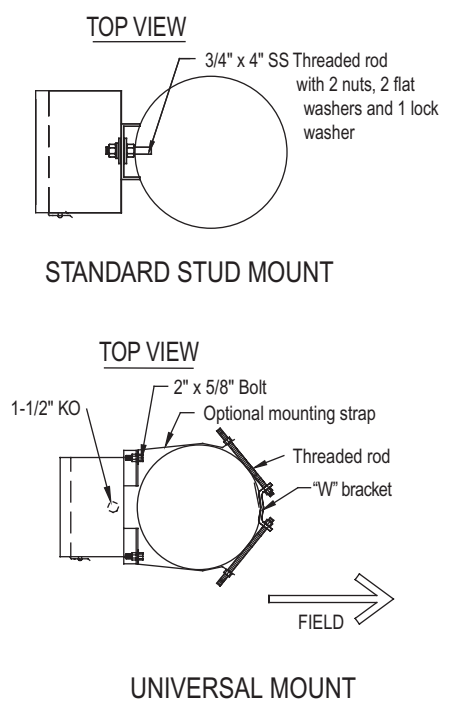
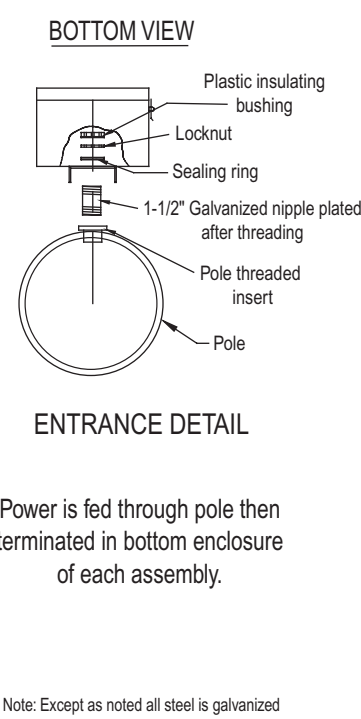
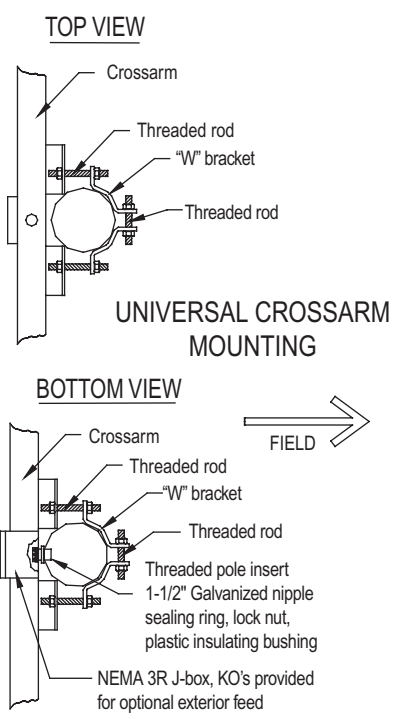
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BASIC ASSEMBLY CONFIGURATIONS & MOUNTINGS

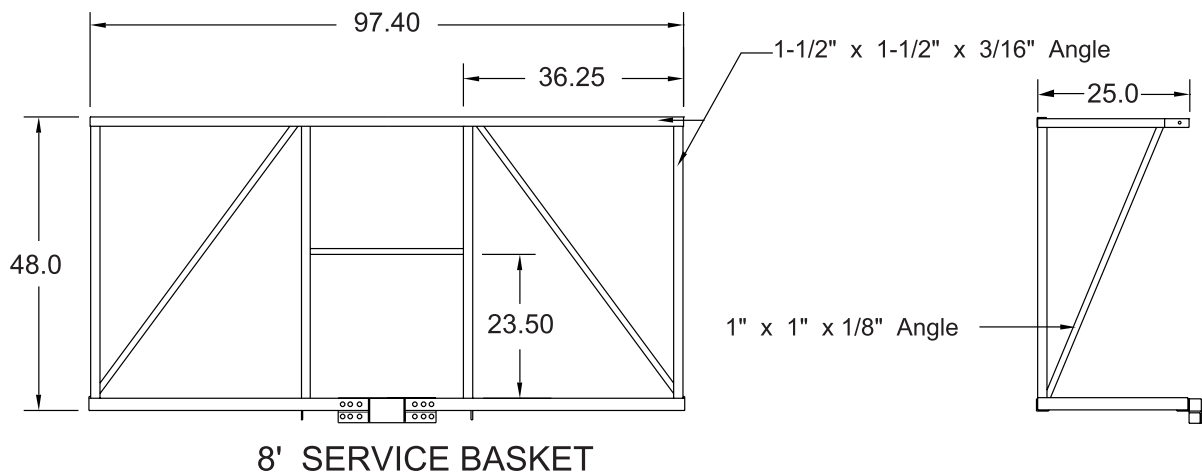
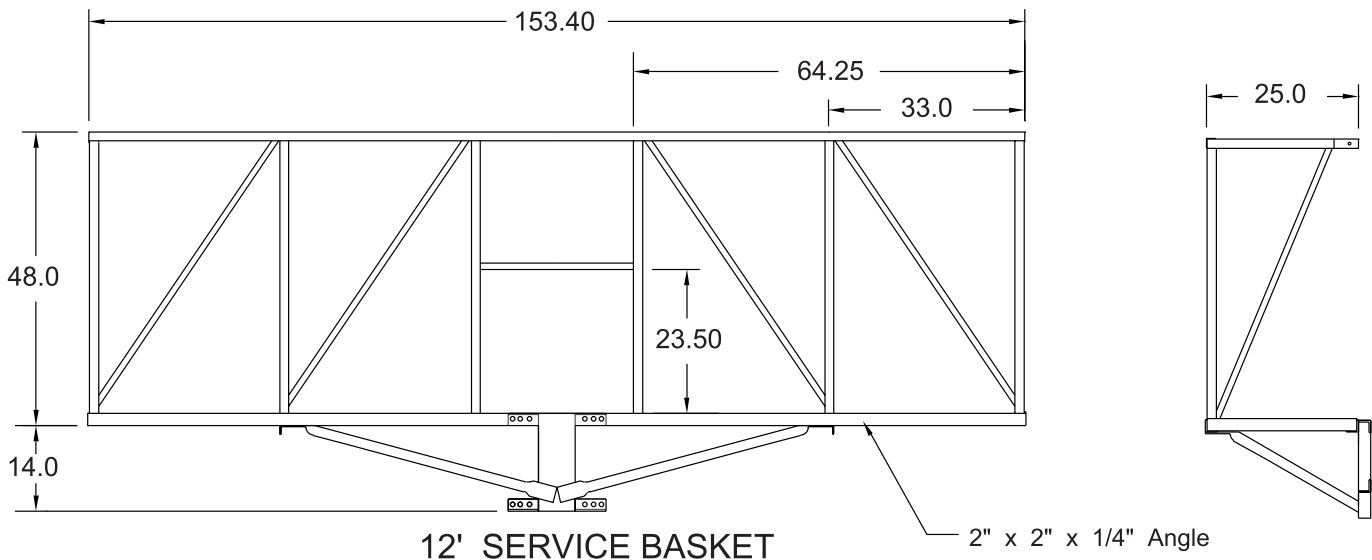


*Dimension based on lighting assembly configuration

Ballast and cross-arm sub-assemblies are shipped pre-wired and pre-aimed. Each ballast enclosure assembly is pre-wired requiring only one power feed located in the bottom enclosure. All ballast enclosure assemblies are pre-assembled to aluminum back channel as shown above. Complete pole assemblies will vary depending on lighting requirements.



OPTIONAL SERVICE BASKETS



Service baskets are hot dipped galvanized after fabrication

CONTROL EQUIPMENT

- **Qualite® Control Cabinet (QCC)** Customized enclosed control within NEMA 3R or 4 powder coated steel enclosure.
- **ReQUEST™** Wireless zone control with software interface mounted in NEMA 4, 4X or 3R door enclosures with sealed weather tight door.
- **Qualite® Safety Disconnect (QSD)** Standard dead front disconnect mounted within a NEMA 3R enclosure with sealed weather tight door.

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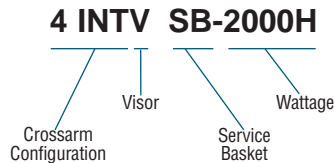
SYSTEM ASSEMBLY WEIGHTS & EPA CHART

NOTES:

- Add 6 lbs. per fixture for 2000 W models
- 98" platform, 245 lbs.
- 154" platform, 350 lbs.
- All weights are less mounting hardware
- EPA values are valid for 1500 W and 2000 W models
- EPA values have been certified by a registered professional engineer
- Crossarm assemblies are rated for wind speeds of 130 MPH + 1.3 gust factor

CROSSARM CONFIGURATION		REMOTE			
		EPA W/O SB	EPA W/ SB	LBS. BAL. ASSY.	LBS. ARM ASSY.
1 INTV	20" ARM	2.29		78	62
1 INTV	42" ARM	2.29		78	70
2 INTV	42" ARM	6.18		111	102
2 INTV	98" ARM	7.21	15.58	111	130
3 INTV	42" ARM	8.95		182	148
3 INTV	98" ARM	10.96	17.73	182	160
4 INTV	2-42" ARM	12.60		214	204
4 INTV	98" ARM	14.71	22.12	214	192
5 INTV	2-42" ARM	15.25		286	250
5 INTV	98" ARM	17.85		286	237
5 INTV	154" ARM	20.35	32.19	286	258
6 INTV	2-42" ARM	18.90		318	296
6 INTV	3-42" ARM	18.54		318	306
6 INTV	98"/42" ARM	20.89	28.26	318	294
6 INTV	154" ARM	25.03	36.87	318	290
7 INTV	3-42" ARM	21.55		396	352
7 INTV	2-98" ARM	25.19	32.56	396	352
7 INTV	154" ARM	28.69		396	336
8 INTV	98"/42" ARM	27.98		428	385
8 INTV	2-98" ARM	29.36	36.73	428	384
9 INTV	3-42" ARM	26.85		500	444
9 INTV	2-98" ARM	32.53		500	409
9 INTV	154"/42" ARM	33.97	45.81	500	438
9 INTV	154"/98" ARM	34.99	46.83	500	450
10 INTV	2-98" ARM	37.70		532	444
10 INTV	154"/98" ARM	39.70	51.54	532	482
11 INTV	154"/98" ARM	42.87		604	528
11 INTV	2-154" ARM	45.37	57.21	604	548
12 INTV	154"/98" ARM	47.04		636	573
12 INTV	2-154" ARM	50.04	61.88	636	580

TYPICAL ASSEMBLY NUMBER:



ISO 9001:2000
CERTIFIED

MADE IN USA

BEST WARRANTY IN THE BUSINESS

Qualite warrants its luminaire assemblies and alignment of their pre-aimed positions for a period of **ten (10) years** from the date of purchase, or date of significant completion as defined by AIA document

G702, whichever applies. Any parts, except lamps and fuses, found to be defective will be replaced, labor included, during the first five (5) years and parts only for the remainder of the warranty period. Lamps are warranted for a total of two (2) years; installation included for the first year only.

Qualite Sports Lighting Systems



International



ArenaPro Outdoor lighting technology, indoor lighting excellence



PRO-Series™

Qualite®
SPORTS LIGHTING, INC.

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Gold Series

EXCLUSIVE MDS (Maintenance Diagnostic System)



Patent No. 6,087,834



Simplifies testing of sports field lighting by allowing you to make critical tests from the ground with the power turned off.