

SPORTS LIGHTING 1500W LAMPS					
POLE	HEIGHT	NARROW	MEDIUM	WIDE	TOTAL
F1	90	7	7		14
F2	90		12		12
F3	90	7	7		14
F4	80	4	9	1	14
F5	80	2	10		12
F6	80	4	9	1	14
P1	80	9	14	1	24
TOTAL		33	68	3	104


1 SITE PLAN - LIGHTING
 SCALE: 1" = 80'-0" 

Scope Drawings:
 These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems. The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the contract.
 On the basis of the general scope indicated or described, the trade contractor shall furnish all items required for the proper execution and completion of the work.

Revisions:

Issue Date	Drawn By	Checked By
05.02.2014	MNA	MNA

Drawing Title:
SITE PLAN
ELECTRICAL
LIGHTING

Certified By:

Drawing Number:
E001

Project Number:
12150

DESCRIPTION

The "state-of-the-art" Sports Floodlight features industry leading computer designed horizontal optics with optional internal glare/spill light control, and is the perfect choice for both amateur field lighting and professional sports Stadiums and arenas. UL Listed for wet location. CSA certified. Rated for 55°C indoor ambient temperature environment. Parks and recreation field lighting, high school and college sport facilities, and professional sport stadiums and arenas including color TV broadcasting.

SPECIFICATION FEATURES

A...Lamp Housing

Rugged die-cast aluminum ballast housing finished in corrosion resistant grey polyester powder coat. Transverse mounting with cast-in horizontal aiming protractor and single bolt mounting.

B...Ballast compartment

Isolated components for coolest component operation and extended component life. Ballast is rated to start and operate lamp in ambient temperatures down to -20 c.

C... Vertical Fixed Aiming

Stainless steels mounting arms feature separate vertical aiming pivot bolts and re-lamping hinge bolts prevent mis-aiming and provide permanent fixed aiming degree markers on both sides of the optical allow for easy pre-aiming on the ground or after installation.

D... Socket Casting

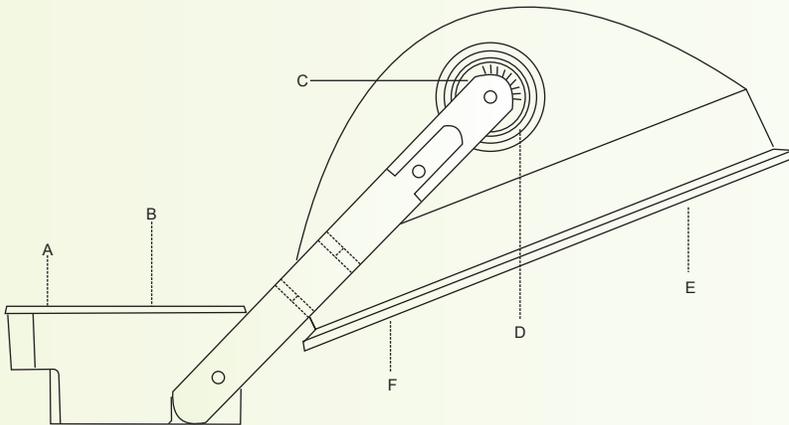
Die-cast aluminum socket castings are sealed with a high temperature silicone gasket to keep out contaminants.

E... Reflector and internal

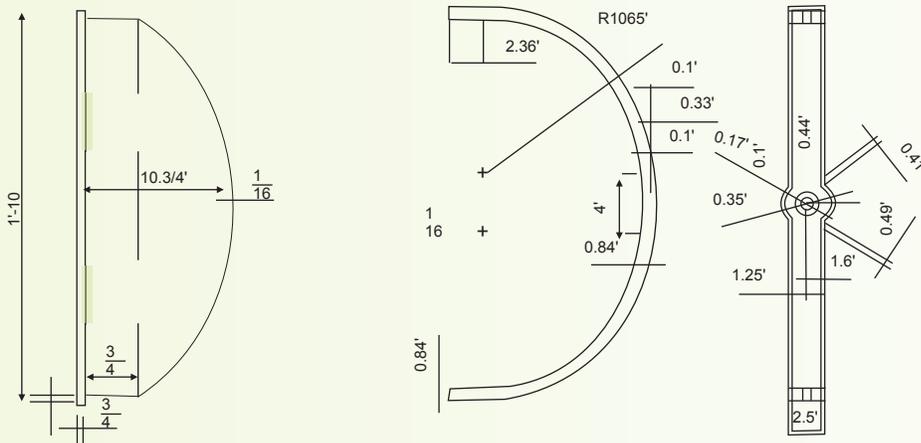
Glare/Spill Light Control Computer designed spun aluminum reflectors feature optional internal glare/spill light control louvers for maximum lighting control without unwanted glare and light trespass. Horizontal optics feature standard BT 56 mogul base lamps for safe, reliable operation.

F... Lens/Door Frame

1 / 8" tempered, heat-and shock-resistant glass lens is sealed with high temperature silicone gasket to protect optics from dirt and contaminant's and is mounted in hinged stainless steel door frame with stainless steel latches.



DIMENSIONS



Qualite
SPORTS LIGHTING, LLC



UNIVERSAL SERIES FIXTURE

1000 - 2000
Metal Halide

SPORTS LIGHTING FIXTURE



EPA

Effective Projective Area:
2.9 Sqr. ft

SHIPPING DATA

Approximate Net Weight:
73 lbs. (33kgs.)

Qualite Sports Lighting, LLC
215 West Mechanic Street
Hillsdale, MI 49242

Tel 800-933-9741

Fax 517-439-1194

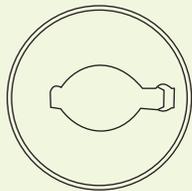
www.qualite.com

QUALITE UNIVERSAL FIXTURE

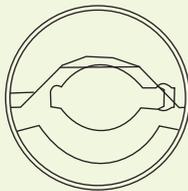
PHOTOMETRICS (Complete IES files available)

Distribution	Lamp type	Beam Spread H x V
Narrow	1000-2000W Metal Halide	40x15
Medium	1000-2000W Metal Halide	55x45
Wide	1000-2000W Metal Halide	72x75

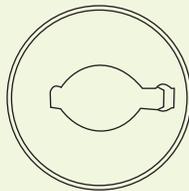
DISTRIBUTION



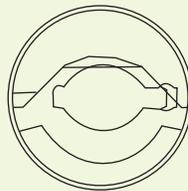
Narrow



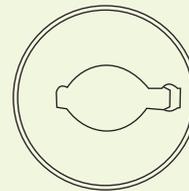
Narrow
Spill/Glare



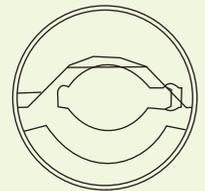
Medium



Medium
Spill/Glare



Wide



Wide
Spill/Glare

ORDERING INFORMATION

Sample Number: **MHCE-MS-1500-480V-U3**

Lamp type MH: Metal Halide	Distribution N: Narrow M: Medium W: Wide	Louvered Optics None S: Spill Light Control Louvers	Lamp Wattage 1000: 1000W 1500: 1500W 2000: 2000W	Voltage 120V: 120V 208V: 208V 240V: 240V 277V: 277V 347V: 347V 480V: 480V MT: Multi Tap TT : Triple Taps 220/50HZ: 220/50HZ	Options F1: Single Fuse (120,277, or 347V) EM: Quartz Restrike With Delay (Also Strikes at Cold Start) HD: Heavy Duty Shroud RQ: Remote Quartz HC: Luma Watt Fixture Module C6: 6 Cord, Prewired (Specify Voltage)	F2: Double Fuse (208, 240, or 480V) TV: Top Visor Q: Quartz Restrike DC Bayonet Base (Does not Strike at Cold Start) RT: Remote Quartz Cold [®] Start Time Delay C3: 3 Cold ,Prewired (Specify Voltage) U3: 3 USL Water Tight Cord & Plug for USL System (Specify Voltage)
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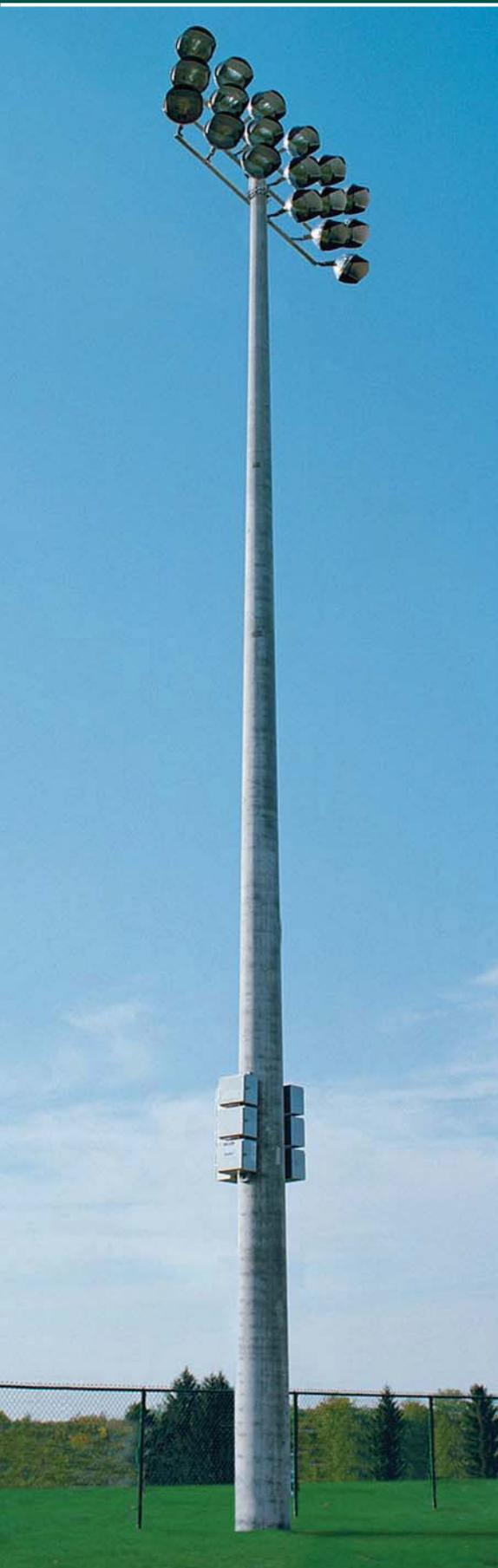
Note:

1. Products also available in non-US voltages and 50 Hz for international markets. Consult Qualite Representative for additional information
2. Wiring pulled for remote 1000 watt Max. Quartz Flood.
3. 1000-2000 W MH only
4. Housing Options - Heavy Duty Shroud & Die - Cast Aluminium body.



Qualite Sports Lighting, LLC
215 West Mechanic Street, Hillside, MI 49242
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www.qualite.com

S P O R T S L I G H T I N G P O L E S

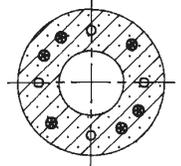


StressCrete



Sportslighting

80ft, 85ft, 90ft & 98ft Above Grade Pole Heights



Physical Details:

- round symmetrically tapered shaft
- 0.18" per linear ft. taper increase
- mold finish is standard but optional etched Decor colors are available
- various bullhorn, crossarm and platform configurations are available

The poles cataloged below represent a sampling only. Other heights and strengths are available upon request.

Pole Catalog Number	Pole Height Above Grade (ft)*	Overall Pole Length (ft)	Pole Tip Diameter (Inches)	Pole Butt Diameter (Inches)	Nominal Pole Weight (lbs.)	Maximum EPA (sq. ft.)**						
						90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	150 mph

90ft Overall Pole Length

E-900-GPR-G	80' 0"	90' 0"	8.25	24.45	13300	48	37	26	20	12	5	N/A
E-900-HPR-G	80' 0"	90' 0"	8.25	24.45	13550	66	52	37	29	19	11	4
E-900-JPR-G	80' 0"	90' 0"	8.25	24.45	13700	86	67	51	40	30	22	15
E-900-KPR-G	80' 0"	90' 0"	9.50	25.70	14900	108	84	66	52	41	33	26
E-900-LPR-G	80' 0"	90' 0"	9.50	25.70	15250	132	103	82	65	53	43	35
E-900-MPR-G	80' 0"	90' 0"	9.50	25.70	15400	158	124	99	80	65	53	44
E-900-NPR-G	80' 0"	90' 0"	11.25	27.45	16980	185	146	117	95	78	64	53

96ft Overall Pole Length

E-960-KPR-G	85' 0"	96' 0"	9.50	26.78	17195	105	81	63	50	39	31	24
E-960-LPR-G	85' 0"	96' 0"	9.50	26.78	17330	128	100	79	63	50	41	33
E-960-MPR-G	85' 0"	96' 0"	9.50	26.78	17430	154	121	96	77	63	51	42
E-960-NPR-G	85' 0"	96' 0"	11.25	28.53	18635	181	142	114	92	75	62	51

101ft Overall Pole Length

E-1010-KPR-G	90' 0"	101' 0"	9.50	27.68	18620	102	78	61	48	37	29	22
E-1010-LPR-G	90' 0"	101' 0"	9.50	27.68	18755	125	97	76	61	48	38	31
E-1010-MPR-G	90' 0"	101' 0"	9.50	27.68	18875	151	118	93	75	60	49	40
E-1010-NPR-G	90' 0"	101' 0"	11.25	29.18	19815	177	139	111	89	73	59	49

110ft Overall Pole Length

E-1100-KPR-G	98' 0"	110' 0"	9.50	29.30	21745	98	74	57	44	34	26	19
E-1100-LPR-G	98' 0"	110' 0"	9.50	29.30	21800	121	93	72	57	45	35	27
E-1100-MPR-G	98' 0"	110' 0"	9.50	29.30	22035	146	113	89	71	57	45	36

* Embedment depths are assumed at 10% of pole length plus 2 ft. Footings are dependent upon soil strengths and must be sized to withstand the applied pole loadings.

** EPA calculations are as per AASHTO criteria set forth in the 2001 "Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals." If you are unsure of the wind condition in a project's location, please reference the isotach map in the "General and Technical" section.

Optional Etched Decor Colors

Mold finish is standard on all sportslighting poles. As well as cost effective, its pleasing color allows the poles to blend into most natural settings.

If a colored pole is desired, any of our standard etched Decor colors are available, but must be specified in the pole catalog number.

Color Finish	Eclipse (Black)	Ash White	Pearl Gray	Dusty Rose	Aztec Jade (Green)	Desert Sand (Buff)	Saluki Bronze (Brown)
Etched	E11	E35	E40	E41	E51	E70	E90

Sportlighting Accessories

Spun concrete poles can be adapted to fit most sportlighting accessories. Standard accessories such as step bolts, safety climbing system, lightning protection system, bullhorns, cross arms and platforms are detailed near the end of this section. If specific items are not shown, please call your local representative or our sales office.

Finishes

Mold finish is standard on all poles. Etched Decor or custom color finishes must be specified in the pole catalog number. Please see the front page of this brochure for information, or turn to Decor section.

Standard Openings & Handholes

(For more detailed information, please reference General & Technical section).

- 3 1/2" x 10 1/2" is the standard handhole box located 42" above grade. Both it and the tight fitting coverplate are available in non-metallic, non-conductive injection molded material or a rugged high density cast zinc.
- Standard coverplate fasteners are 1/4" stainless steel with either Allen (hex) head for the United States or black Robertson #3 (square) head in Canada. Tamperproof and non standard fasteners are available but must be specified.

The standard below grade wiring aperture is 4" x 10", located in line with the above grade handhole, 18" below grade.

- Top wiring will be through a 2" threaded coupling with access by way of a 2 1/2" and 8" handhole, 180 degrees to the coupling, at each platform/crossarm level. A "J" hook wire hanger will be provided at top coupling location only.

The above represents our standards only. We will be happy to discuss custom requirements with you.

Electrical Ground

All sportlighting poles will be supplied with a #6 stranded copper ground wire. When properly connected, this will electrically ground the pole.

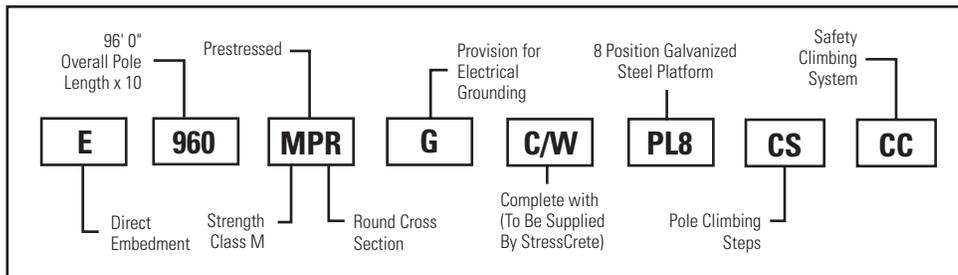
Footings

The standard method of installation is direct burial. The cost savings achieved by eliminating expensive foundations, together with resulting ease of installation, are generally quite significant.

Base plate mounting can, however, be made available for most poles when required. For details, please contact your local representative or our sales office.

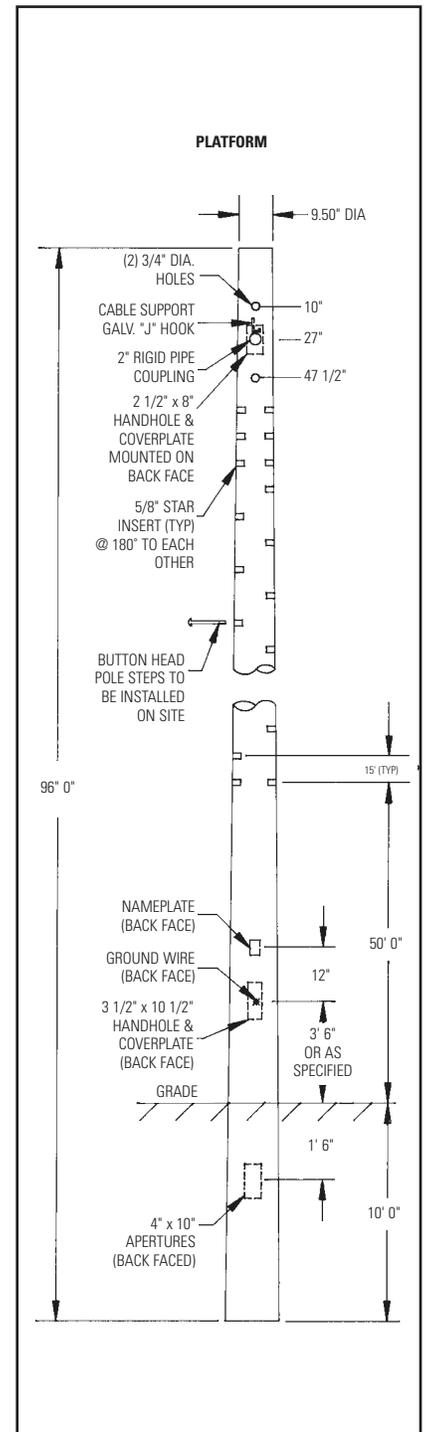
For catalog purposes we have assumed the standard rule of thumb for direct burial section as 10% of the pole length plus 2 ft. However, whether an anchor base or direct burial installation, care must be taken to ensure a proper sized footing is designed. For more detailed information, please refer to General and Technical Information section of this catalog.

Typical Catalog Numbers



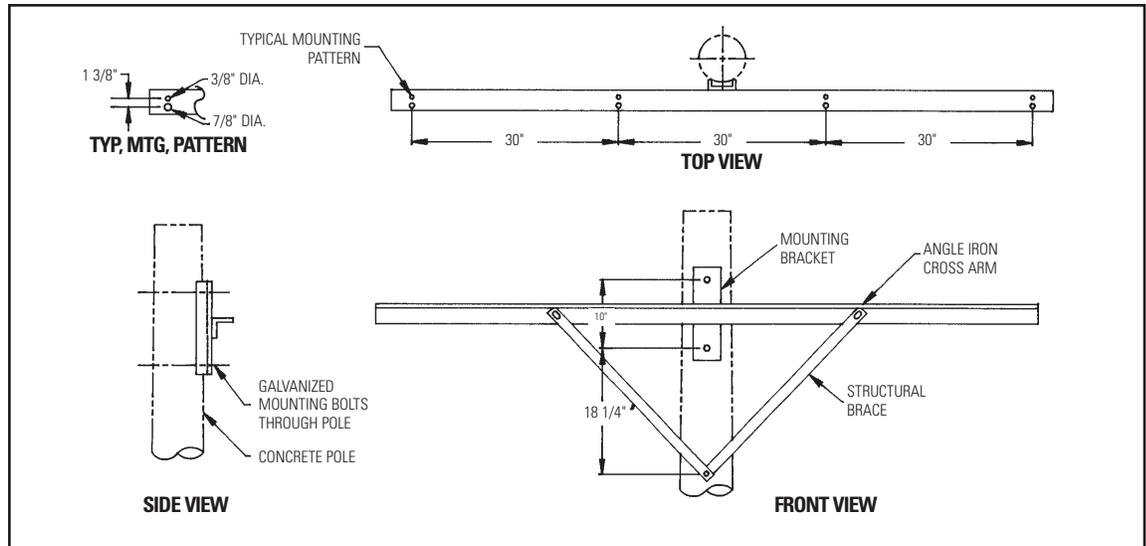
Typical for all types:

1. Based on desired pole length and EPA loading, select pole catalog number from charts.
2. If a color is desired, select an etched Decor color. (If not indicated, pole will be natural mold finish)
3. Select sportlighting accessories e.g. crossarms etc.



Angle Cross Arms

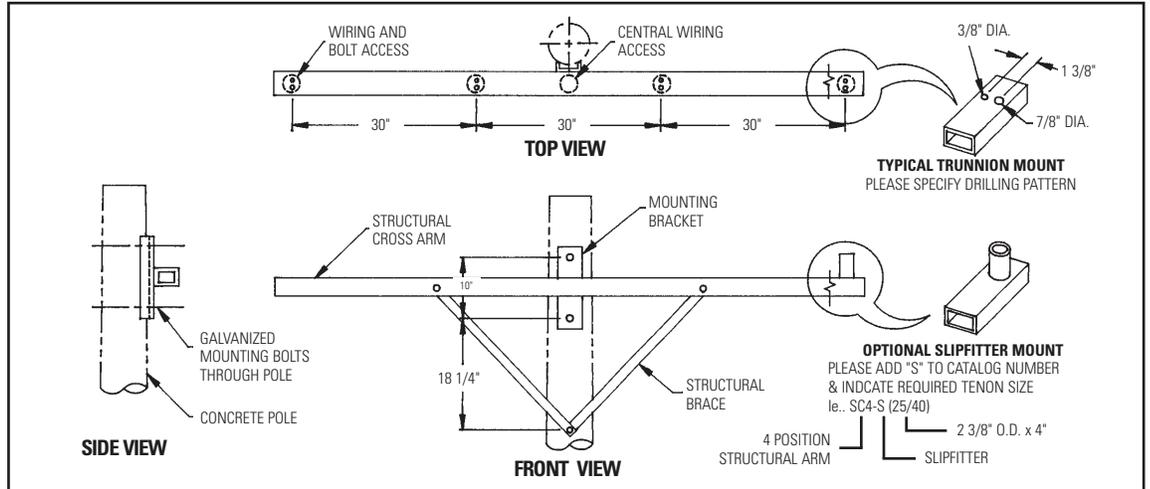
These cross arms are manufactured of hot dipped galvanized steel angles. If a special finish or color is required it must be specifically requested. We have shown typical trunnion mounting holes for a floodlight. As each lighting manufacturer has their own mounting configurations, care must be taken to ensure the correct mounting pattern is specified. This will ensure compatibility between cross arm and fixture.



Configurations	ANGLE CROSS ARM CATALOG NUMBER	CROSS ARM SIZE		MAXIMUM INDIVIDUAL FLOODLIGHT SIZE	
		E.P.A. (sq. ft.)	WEIGHT (lbs.)	E.P.A. (sq. ft.)	WEIGHT (lbs.)
	AC2	2.0	35	3.1	100
	AC3	3.5	60	3.1	100
	AC4	5.0	80	3.1	100
	AC6	10.0	160	3.1	100

Structural Cross Arms

Structural cross arms are manufactured of hot dipped galvanized hollow structural tubing. If a special finish or color is required it must be specifically requested. These arms will accommodate either a trunnion hole mount or a slipfit tenon mount for floodlighting. In each case, the lighting manufacturer will have their own mounting configuration. Care must be taken to ensure the correct mounting requirements are specified. **If specified we do offer an enclosed wiring system with optional pre-wiring.**

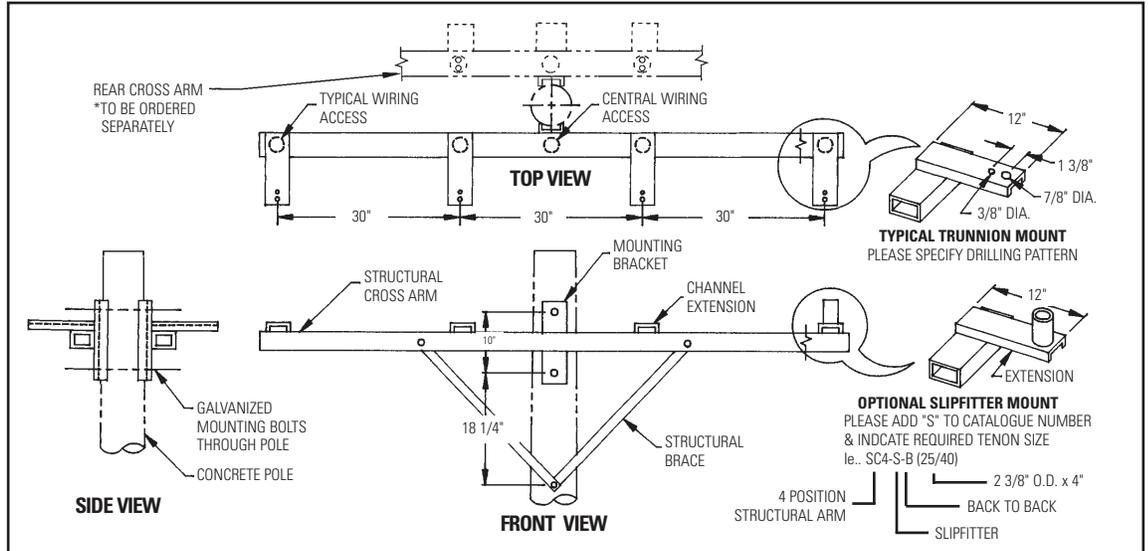


Configurations		STRUCTURAL CROSS ARM CATALOG NUMBER	CROSS ARM SIZE		MAXIMUM INDIVIDUAL FLOODLIGHT SIZE	
			E.P.A. (sq. ft.)	WEIGHT (lbs.)	E.P.A. (sq. ft.)	WEIGHT (lbs.)
		SC2 SC2-S	2.5	45	4.5	120
		SC3 SC3-S	4.0	75	4.5	120
		SC4 SC4-S	5.5	90	4.5	120
		SC5 SC5-S	6.0	115	4.5	120
		SC6 SC6-S	10.5	140	4.5	120

Back to Back Cross Arm Configurations

When mounting cross arms back to back, care must be taken to ensure the floodlight ballasts do not touch the ballasts on the opposite cross arm. On our larger pole top sizes this is generally not a problem, but on the smaller pole top sizes (4 3/4" & 6 1/2") it may be a concern. It is our recommendation that when cross arms are to be mounted back to back, both cross arms should have offset mounting positions as detailed below.

Two Cross Arms must be ordered.

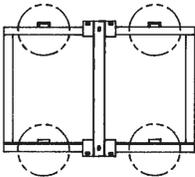
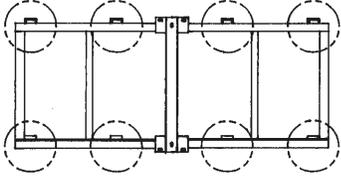
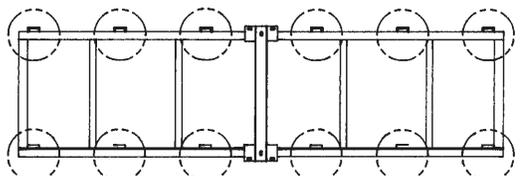
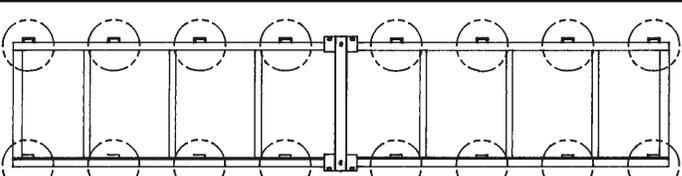
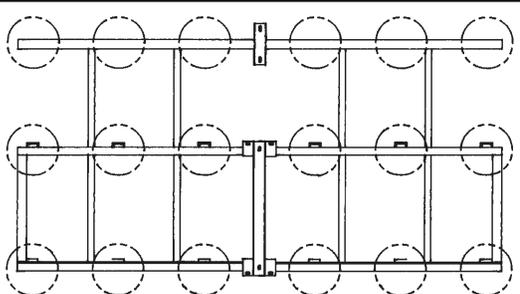


Configurations	STRUCTURAL CROSS ARM CATALOG NUMBER	CROSS ARM SIZE		MAXIMUM INDIVIDUAL FLOODLIGHT SIZE	
		E.P.A. (sq. ft.)	WEIGHT (lbs.)	E.P.A. (sq. ft.)	WEIGHT (lbs.)
 LUMINAIRE (BY OTHER) 21"	SC2-B SC2-S-B	2.5	60	4.5	120
 30"	SC3-B SC3-S-B	4.0	90	4.5	120
 30" 15"	SC4-B SC4-S-B	6.0	115	4.5	120
 30" 15"	SC5-B SC5-S-B	6.5	140	4.5	120
 30" 30" 15"	SC6-B SC6-S-B	11.0	180	4.5	120

*** N.B. - As the back to back configurations may be uneven, the rear standard cross arm must be ordered separately.**

Platforms

Platforms are manufactured of hot dipped galvanized steel. If a special finish or color is required it must be specifically requested. As each lighting manufacturer has their own fixture mounting configuration, care must be taken to ensure the correct mounting pattern is specified. This will ensure compatibility between platform and fixture.

Configurations	PLATFORM CATALOG NUMBER	NUMBER OF FLOODLIGHTS	PLATFORM SIZE	
			WEIGHT (lbs.)	E.P.A. (sq. ft.)
	PL4	4	300	8
	*PLB8	8 (4 BACK TO BACK)	400	8 1/2
	PL8	8	450	11
	*PLB16	16 (8 BACK TO BACK)	600	11 1/2
	PL12	12	600	18
	*PLB24	24 (12 BACK TO BACK)	750	19
	PL16	16	850	26
	*PLB32	32 (16 BACK TO BACK)	1000	27
	PL18M (PL12 & EXTRA AC6 CROSS ARM)	18	750	28

