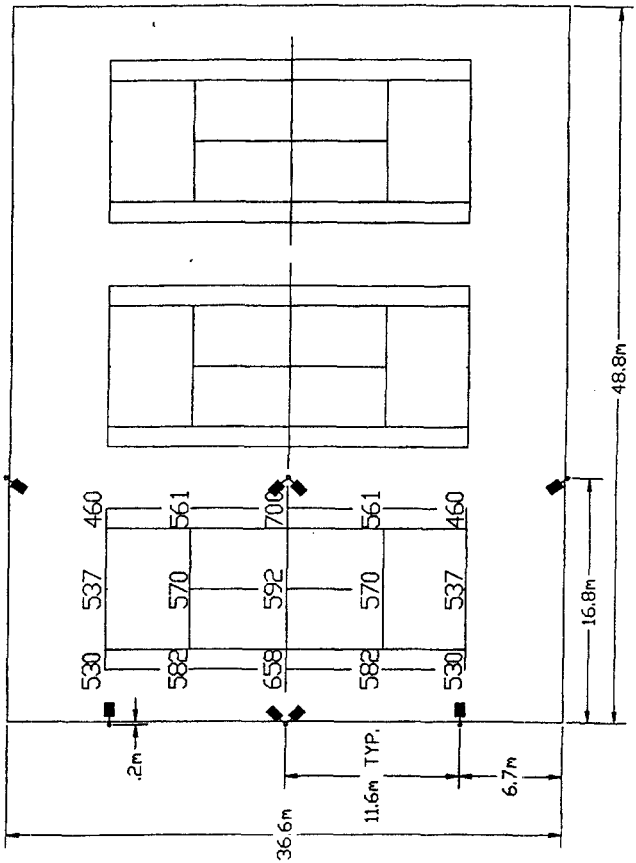
LIGHTING, INC. **MANUFACTURERS OF QUALITY LIGHTING**

NOTES

1. ILLUMINATION LEVELS ARE CALCULATED WITH A 0.8 LIGHT LOSS FACTOR AT GROUND LEVEL AND COMPUTED FROM ITL #45909.
2. COMPUTER CALCULATIONS ARE PREPARED WITH A BALLAST FACTOR OF 1.00 AND A LAMP LUMEN FACTOR OF 107,800 (OPTIMUM CONDITIONS). FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE.
3. LAMP SPECIFICATIONS AFTER APPROXIMATELY 100 HRS. OF USE METAL HALIDE LAMPS CAN DEPRECIATE UP TO 15% OF ORIGINAL INITIAL LUMEN OUTPUT AS PER LAMP MANUFACTURER SPECIFICATIONS.

RLS-TE-1000 EC
ITL45909
8m MOUNTING HT.
1m ARM LENGTH
3° TILT
FILE: ALX1354

PPA	
ILLUMINANCE (LUX)	
AVERAGE	562.2
MAXIMUM	700.2
MINIMUM	460.0
AVG/MIN	1.22
MAX/MIN	1.52



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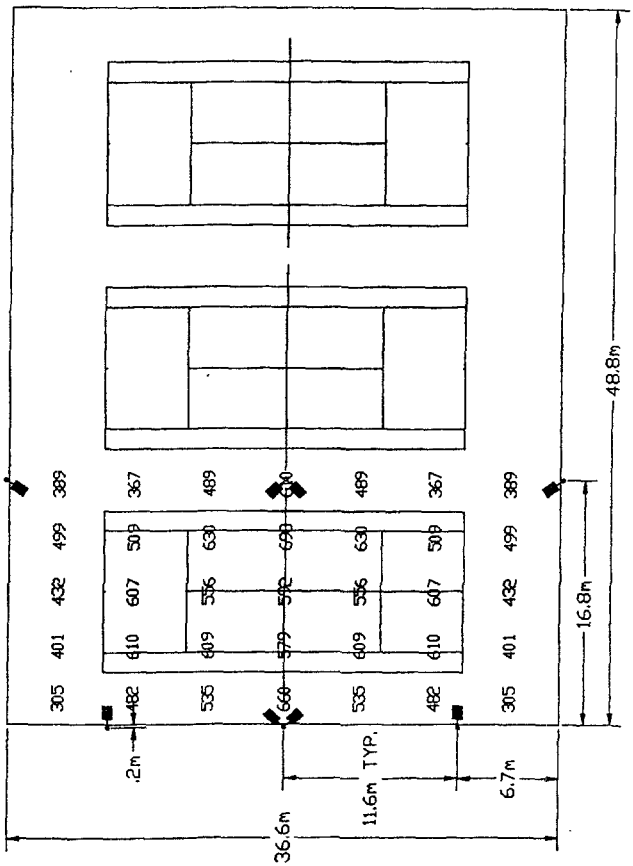
LIGHTING, INC. **MANUFACTURERS OF QUALITY LIGHTING**

RLS-TE-1000 EC
ITL45909
8m MOUNTING HT.
1m ARM LENGTH
3° TILT
FILE: ALX1354

IPA	
ILLUMINANCE (LUX)	
AVERAGE	513.7
MAXIMUM	693.0
MINIMUM	305.0
AVG/MIN	1.68
MAX/MIN	2.27

NOTES

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LIGHTING, INC.

MANUFACTURERS OF QUALITY LIGHTING

RLS-TE-1000 EC
ITL45909
8m MOUNTING HT.
1m ARM LENGTH
3° TILT
FILE: ALX1354

PPA	
ILLUMINANCE (LUX)	
AVERAGE	560.1
MAXIMUM	699.0
MINIMUM	464.8
AVG/MIN	1.20
MAX/MIN	1.50

NOTES

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LIGHTING, INC.

MANUFACTURERS OF QUALITY LIGHTING

RLS-TE-1000 EC
ITL45909
8m MOUNTING HT.
1m ARM LENGTH
3" TILT
FILE: ALX1354

IPA ILLUMINANCE (LUX)	
AVERAGE	516.8
MAXIMUM	710.5
MINIMUM	373.5
AVG/MIN	1.38
MAX/MIN	1.90

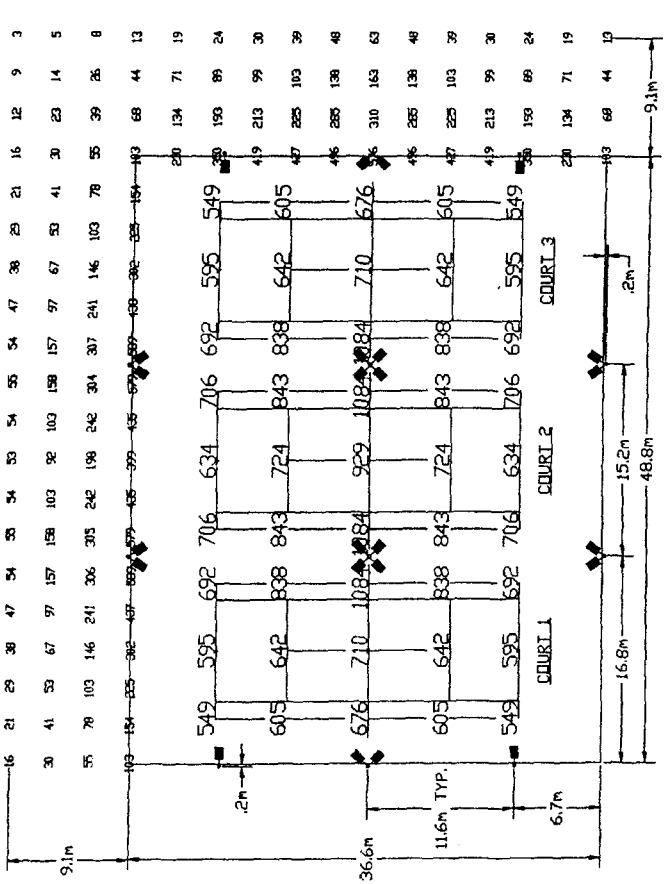
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P.P.A.

LIGHTING, INC.

MANUFACTURERS OF QUALITY LIGHTING



RLS-TE-1000 EC
ITL45909
8m MOUNTING HT.
1m ARM LENGTH
3° TILT
FILE: ALX1354

(PPA) COURTS 1 & 3 ILLUMINANCE (LUX)	
AVERAGE	687.6
MAXIMUM	1084.4
MINIMUM	549.4
AVG/MIN	1.25
MAX/MIN	1.97

(PPA) COURT 2 ILLUMINANCE (LUX)	
AVERAGE	800.5
MAXIMUM	1084.4
MINIMUM	633.9
AVG/MIN	1.26
MAX/MIN	1.71

NOTES

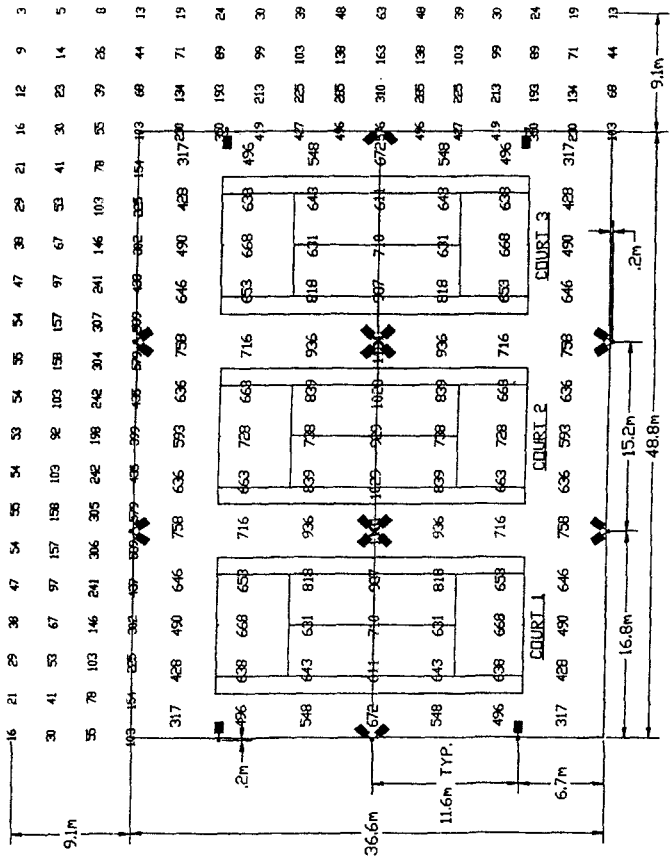
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T.P.A.

LIGHTING, INC.

MANUFACTURERS OF QUALITY LIGHTING



RLS-TE-1000 EC
ITL45909
8m MOUNTING HT.
1m ARM LENGTH
3° TILT
FILE: ALX1354

(TPA) COURTS 1 & 3	
ILLUMINANCE (LUX)	AVERAGE
AVERAGE	655.1
MAXIMUM	1181.4
MINIMUM	317.3
AVG/MIN	2.06
MAX/MIN	3.72

(TPA) COURT 2	
ILLUMINANCE (LUX)	AVERAGE
AVERAGE	790.3
MAXIMUM	1180.8
MINIMUM	593.3
AVG/MIN	1.33
MAX/MIN	1.99

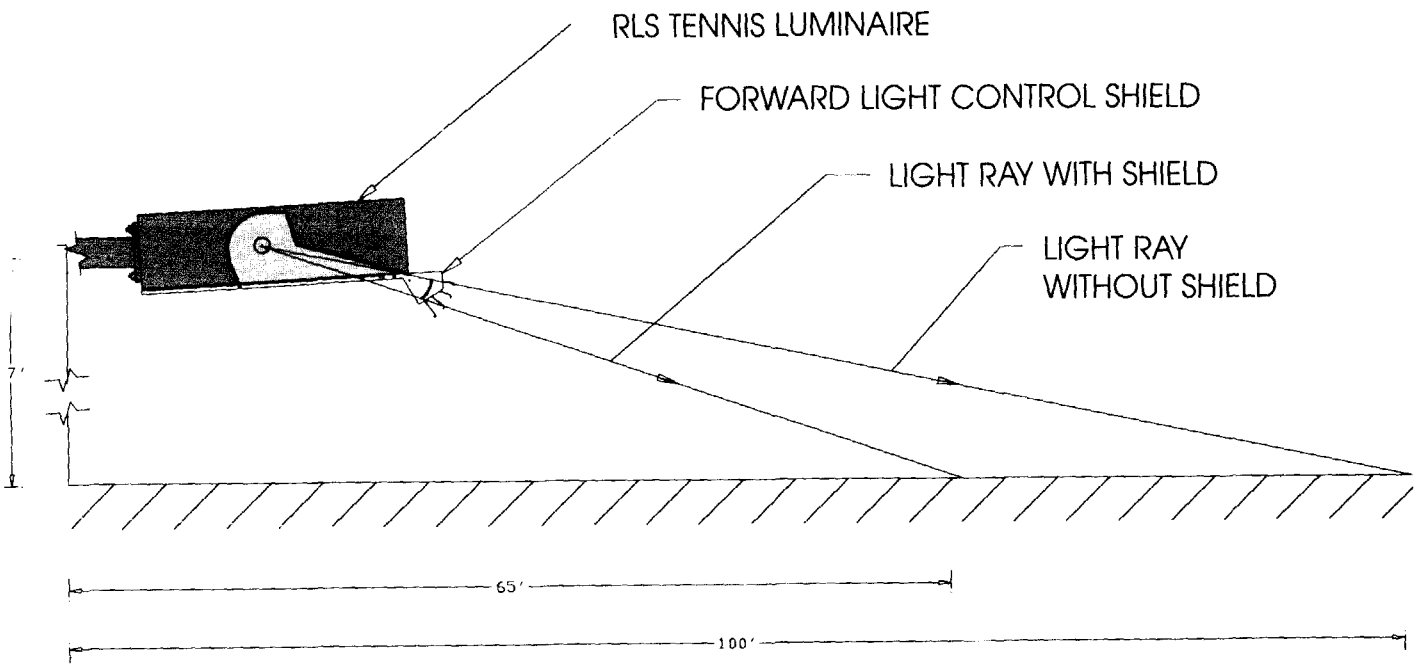
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PTIONAL EQUIPMENT

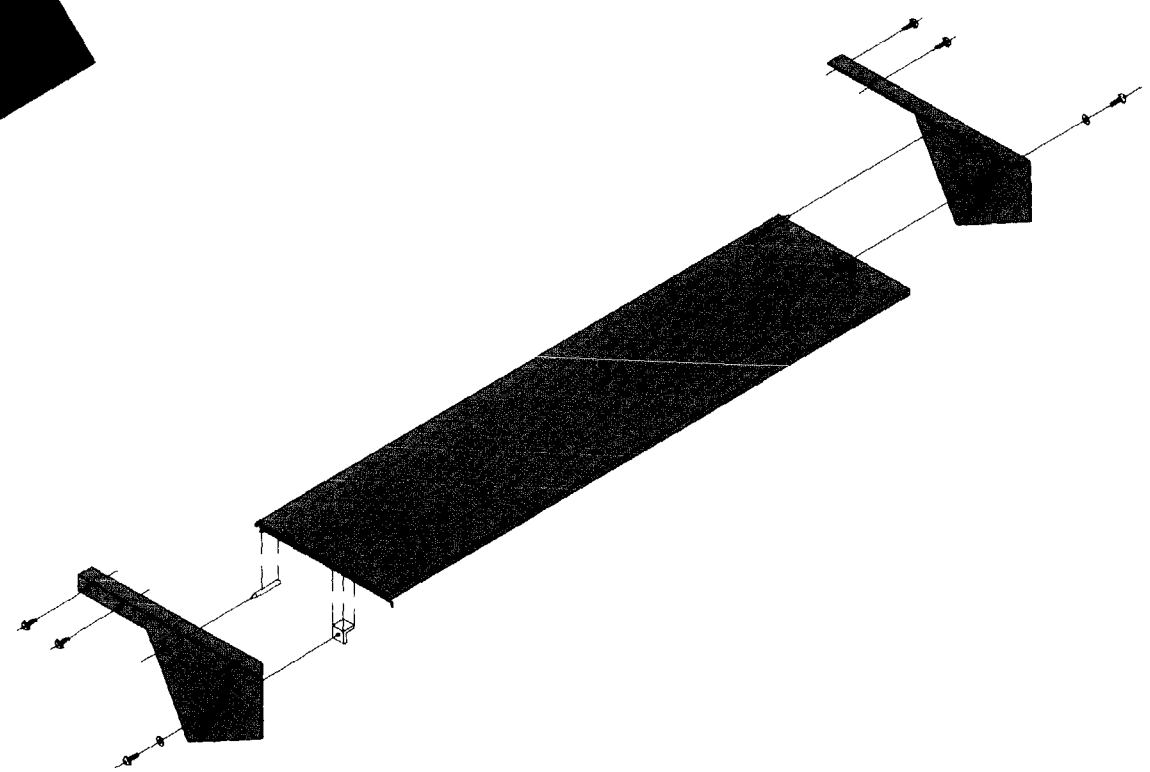
RLS ADJUSTABLE FORWARD CUT OFF SHIELD



GURE SHOWS THE EFFECT OF INSTALLING THE LIGHT CONTROL SHIELD ON THE RLS TENNIS MINAIRE FIXTURE. THE FORWARD BEAM SPREAD ANGLE IS REDUCED BY APPROX. 8 DEGREES.

NEW DESIGN EXCLUSIVELY FROM RLS

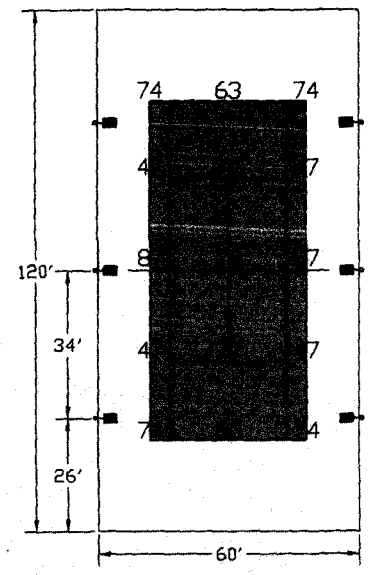
CUT OFF SHIELD



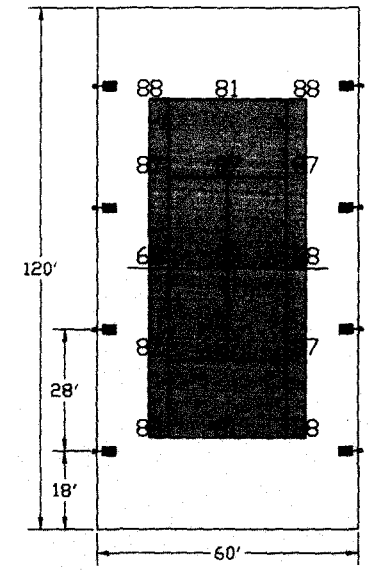
RLS-TE-1000 and TE-1000 EC SERIES LAYOUTS

I.T.L. #45909. IES

21' MOUNTING HEIGHT







LIGHTING PERFORMANCE

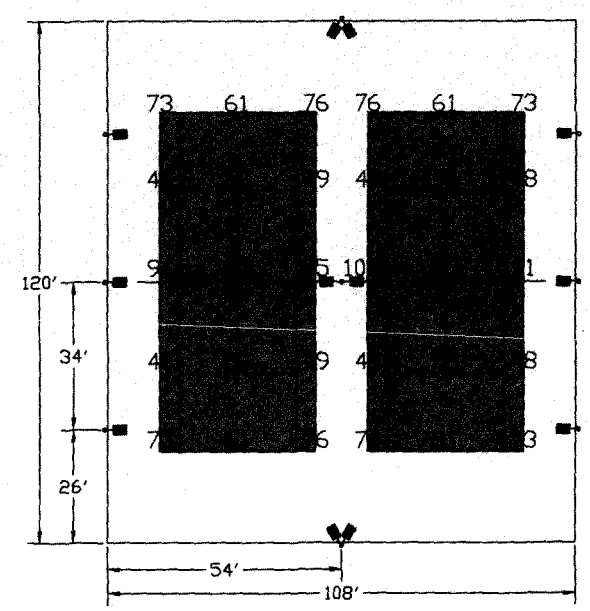
Lamp (1000 Watt Metal Halide)	
Maximum FC	87.1
Minimum FC	47.5
Average FC	67.1
Uniformity Ratio Max/Min Avg/Min	 1.83 1.41

AMPERES PER FIXTURE

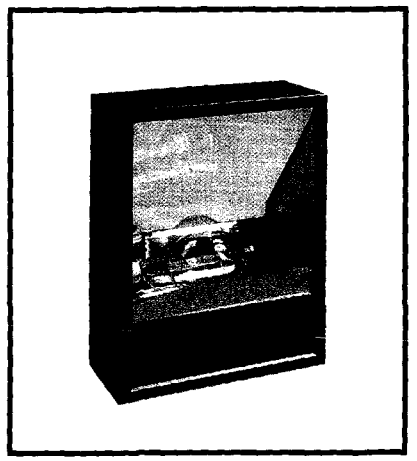
120 Volt	9.2
208 Volt	5.3
240 Volt	4.6
277 Volt	4.0
480 Volt	2.3

LIGHTING PERFORMANCE

Lamp (1000 Watt Metal Halide)	
Maximum FC	88.7
Minimum FC	68.5
Average FC	84.1
Uniformity Ratio Max/Min Avg/Min	 1.29 1.23



RLS TE-1000 E.C.



LIGHTING PERFORMANCE

Lamp (1000 Watt Metal Halide)	
Maximum FC	104.9
Minimum FC	48.4
Average FC	67.0
Uniformity Ratio Max/Min Avg/Min	 2.16 1.38

TE-1500 PERFORMANCE AVAILABLE UPON REQUEST

:OMPONENT ORDERING INFORMATION

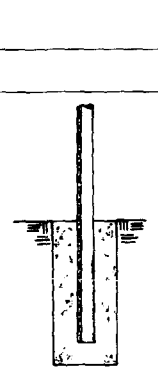
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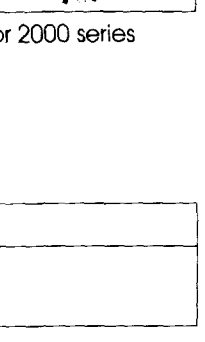
CATALOGUE NUMBER	DESCRIPTION
LS-TE-1000-EC	1000 W. Metal Halide Fixture w/Lamp
LS-TE-1000	1000 W. Metal Halide Fixture w/Removable Power Module
'LS-TE-1500	1500 W. Metal Halide Fixture w/Removable Power Module
:LS-TE-2000 Twin Lamp	2-1000 W. Metal Halide Fixture w/Lamps

Available with 50HZ Ballast

›les

CATALOGUE NUMBER	DESCRIPTION
Round Steel Poles: S	
Anchor Base Type	
RLS-18-AB-S	18' Standard
RLS-18-AB-S-HD*	18' for quads
RLS-24-AB-S-HD*-2	24' For TE 2000 Series
Direct Burial Type	
RLS-18-DB-S	18' Standard
RLS-18-DB-S-HD*	18' for quads
RLS-24-DB-S-HD*-2	24' for TE 2000 Series
Round Aluminum Poles: AL - Available in Anchor Base Only	
RLS-18-AB-AL	18' Standard
RLS-18-AB-AL-HD*	18' for quads
RLS-24-AB-AL-HD*-2	24' for TE 2000 Series
Fiberglass Poles: FG - Available in Anchor Base Only	
RLS-18-AB-FG	18' Standard
RLS-18-AB-FG-HD*	18' for quad
RLS-24-AB-FG-HD*-2	24' for TE 2000 Series
RLS-30-AB-FG-HD*	30' for TE 2000 Series



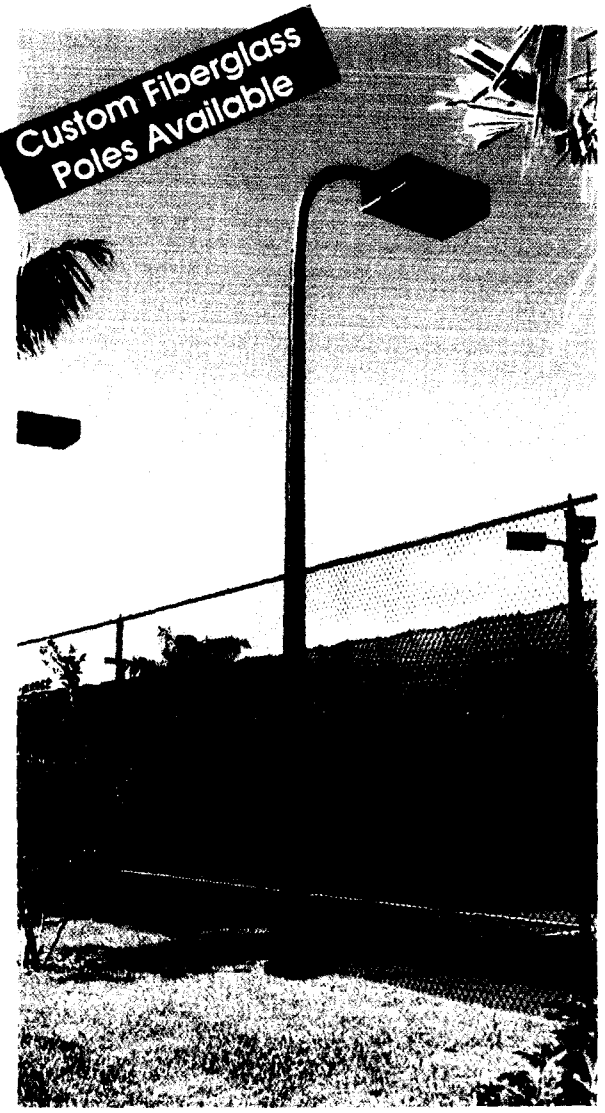


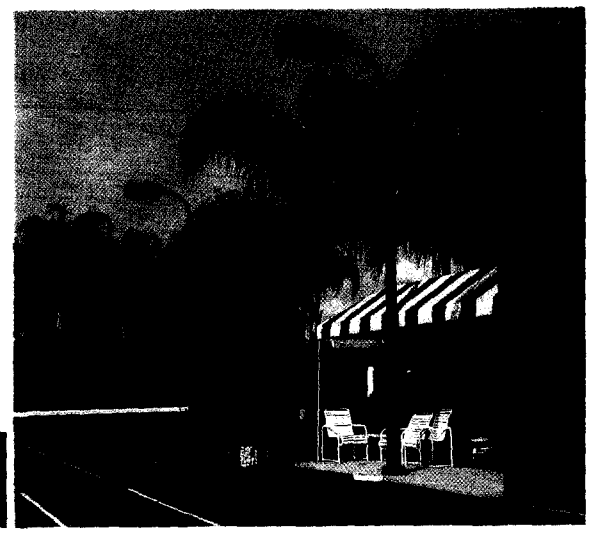
* HD denotes Heavy Duty for use with multiple luminaires or 2000 series
Other pole types are available upon request
Custom Orders Welcome

ptional Base Plate Covers

CATALOGUE NUMBER	DESCRIPTION
RLS-BPC-8	Base Plate Cover, 8" square
RLS-BPC-12	Base Plate Cover, 12" square





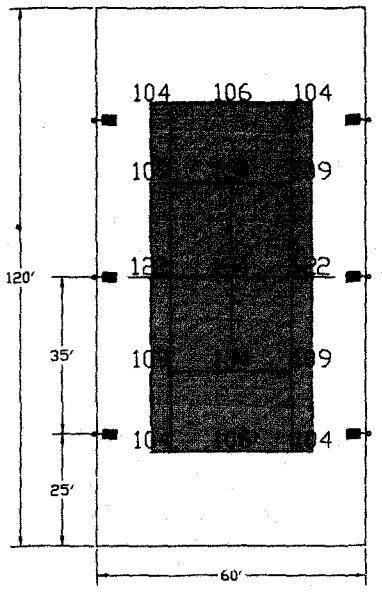


RLS
MANUFACTURERS OF QUALITY LIGHTING

RLS-TE-2000 SERIES COURT LAYOUTS

I.T.L. #45764, IES

27' MOUNTING HEIGHT



LIGHTING PERFORMANCE
TWIN 1000 LAMPS

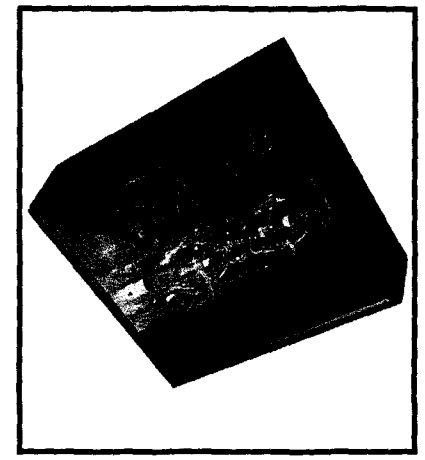
Lamp (1000 Watt Metal Halide)	
Maximum FC	134.4
Minimum FC	104.3
Average FC	114.4
Uniformity Ratio	
Max/Min	1.29
Avg/Min	1.10

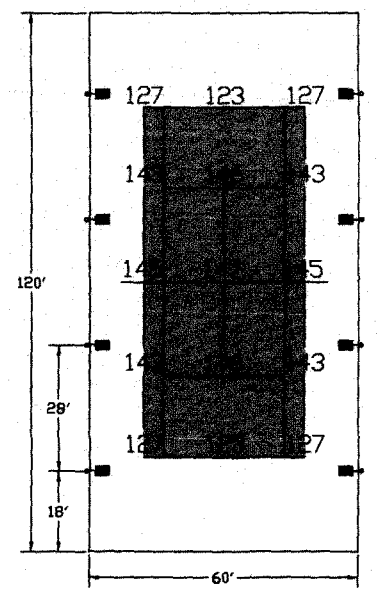
AMPERES PER FIXTURE
TWIN 1000 LAMPS

120 Volt	18.2
208 Volt	10.6
240 Volt	9.2
277 Volt	8.0
480 Volt	4.6

RLS-TE-2000

RLS TE-2000







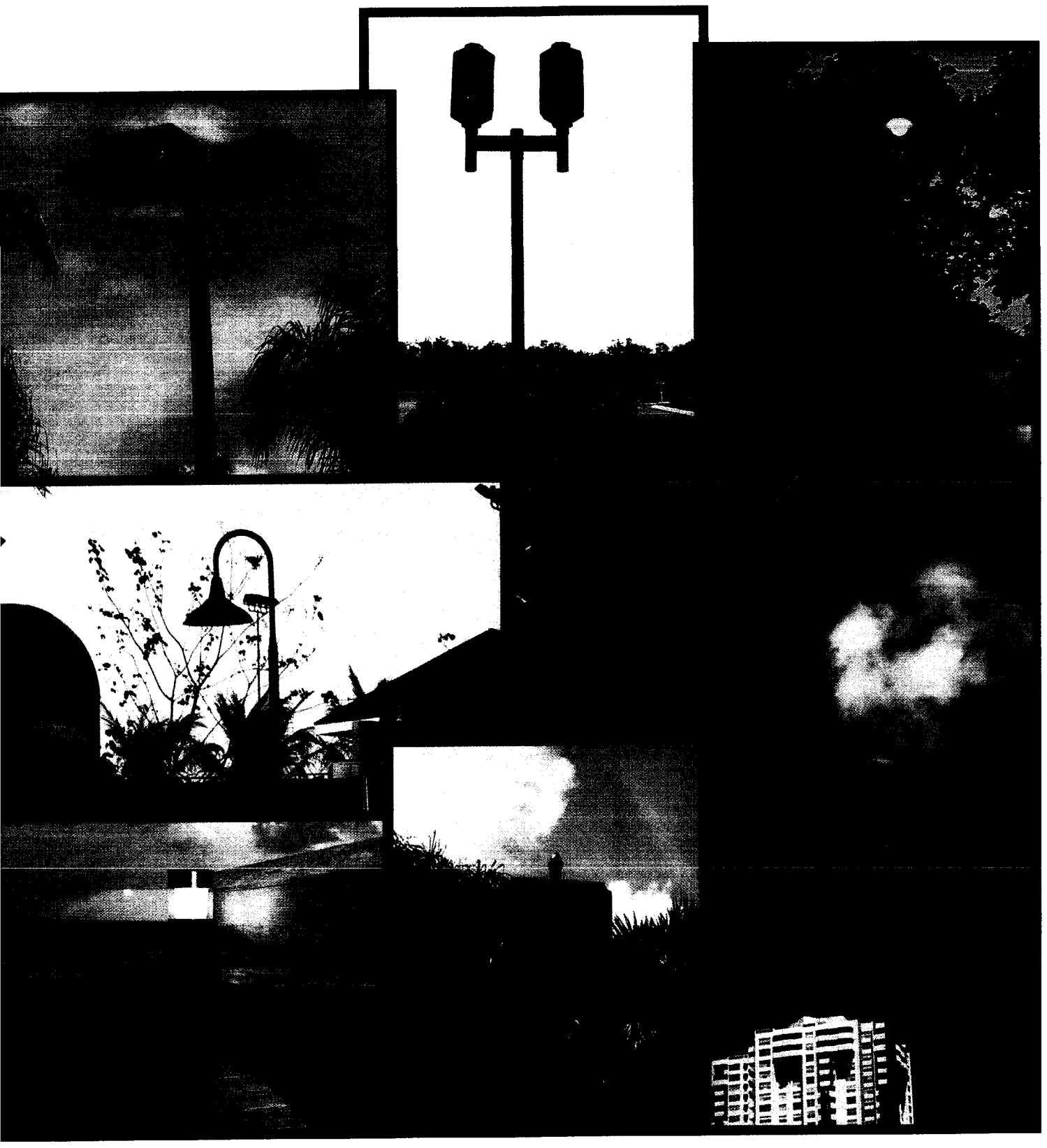
LIGHTING PERFORMANCE
TWIN 1000 LAMPS

Lamp (1000 Watt Metal Halide)	
Maximum FC	147.2
Minimum FC	123.4
Average FC	137.0
Uniformity Ratio	
Max/Min	1.19
Avg/Min	1.11

RLS
MANUFACTURERS OF QUALITY LIGHTING

RLS LIGH

Parking Area • Security • Walkways • Landscap



HIGH OUTPUT TENNIS LUMINAIRE

NEW DESIGN EXCLUSIVELY FROM RLS

RLS TE-1000 E.C.
Single Lamp High Output Tennis Luminaire
I.T.L. #41224 IES



Size: 24" x 30" x 11" Low Profile design.

Weight: 65 lbs.

EPA: 2.7

Mounting Height: 18-25 ft.

Lamp: 1000 watt metal halide

Housing: Extruded aluminum housing mitered and welded to achieve a one piece structurally sound housing. Die formed top interlocks the extrusion and is sealed for weathertightness.

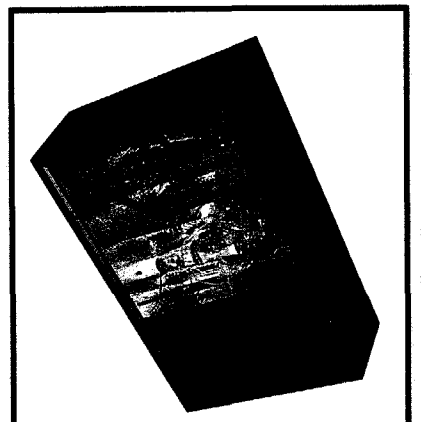
Ballast: 1000 watt metal halide high power factor constant wattage autotransformer, multi-voltage 120, 208, 240, 277 volt. (480 volt optional).

Reflector: Forward throw, sharp cut-off, die-formed to ensure consistency using a very highly specular aluminum sheet.

Lens: Clear, fully tempered (FT) as per ASTM C1048-92, 1/8" thick impact resistant glass lens framed in extruded aluminum and silicone sealed.

Lens Frame: Extruded aluminum mitered to form the frame shall be affixed to the housing with aluminum hinges and secured with low-profile, easy opening fasteners. Continuous neoprene gasket is employed to ensure seal.

RLS TE-1000/1500
Removable Power Module High Output Tennis Luminaire
I.T.L. #41224 IES



Size: 24" x 36" x 11" Low Profile design.

Weight: 76 lbs.

EPA: 3

Mounting Height: 18-25 ft.

Lamp: 1000 watt or 1500 watt metal halide

Housing: Extruded aluminum housing mitered and welded to achieve a one piece structurally sound housing. Die formed top interlocks the extrusion and is sealed for weathertightness.

Ballast Compartment: Isolated from the optical chambers but integral to housing. Compartment shall accept the component tray equipped with ballast and capacitor, and shall be removable for servicing.

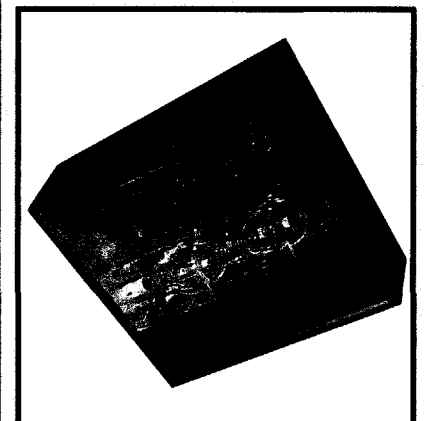
Ballast: 1000 watt metal halide high power factor constant wattage autotransformer, multi-voltage 120, 208, 240, 277 volt. (480 volt optional).

Reflector: Forward throw, sharp cut-off, die-formed to ensure consistency using a very highly specular aluminum sheet.

Lens: Clear, fully tempered (FT) as per ASTM C1048-92, 1/8" thick impact resistant glass lens framed in extruded aluminum and silicone sealed.

Lens Frame: Extruded aluminum mitered to form the frame shall be affixed to the housing with aluminum hinges and secured with low-profile, easy opening fasteners. Continuous neoprene gasket is employed to ensure seal.

RLS TE-2000
Twin Lamp High Output Tennis Luminaire
I.T.L. #38779 IES or
I.T.L. #45764 IES



Size: 36" x 36" x 11".

Weight: 110 lbs.

EPA: 3.3

Mounting Height: 25-40 ft.

Lamp: 2-1000 watt metal halide

Housing: Extruded aluminum housing mitered and welded to achieve a one piece structurally sound housing. Die formed top interlocks the extrusion and is sealed for weathertightness.

Ballast Compartment: Isolated from the optical chambers but integral to housing. Compartment shall accept the component tray equipped with ballast and capacitor, and shall be removable for servicing.

Ballast: 2-1000 watt metal halide high power factor constant wattage autotransformer, multi-voltage 120, 208, 240, 277 volt. (480 volt optional).

Reflector: Forward throw, sharp cut-off, die-formed to ensure consistency using a very highly specular aluminum sheet.

Lens: Clear, fully tempered (FT) as per ASTM C1048-92, 1/8" thick impact resistant glass lens framed in extruded aluminum and silicone sealed.

Lens Frame: Extruded aluminum mitered to form the frame shall be affixed to the housing with aluminum hinges and secured with low-profile, easy opening fasteners, Continuous neoprene gasket is employed to ensure seal.

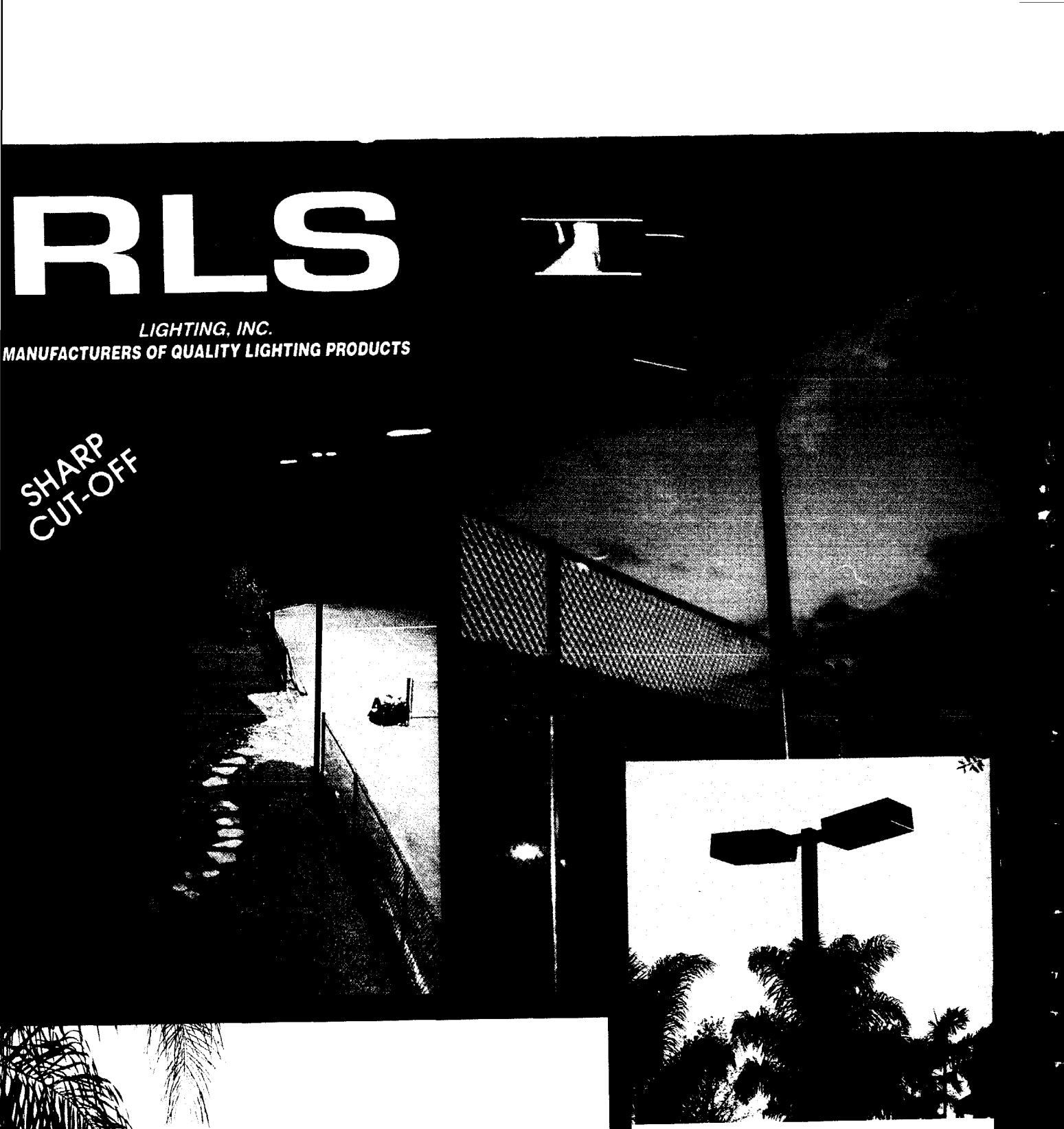
LIGHTING PERFORMANCE IS CALCULATED USING I.T.L. TESTING DATA REFERENCED ABOVE. FIELD PERFORMANCE (FOOTCANDLES) WILL DEPEND ON ACTUAL LAMP, BALLAST, ELECTRICAL, AND SITE CHARACTERISTICS.

RLS MANUFACTURERS OF QUALITY LIGHTING

RLS

LIGHTING, INC.
MANUFACTURERS OF QUALITY LIGHTING PRODUCTS

SHARP CUT-OFF



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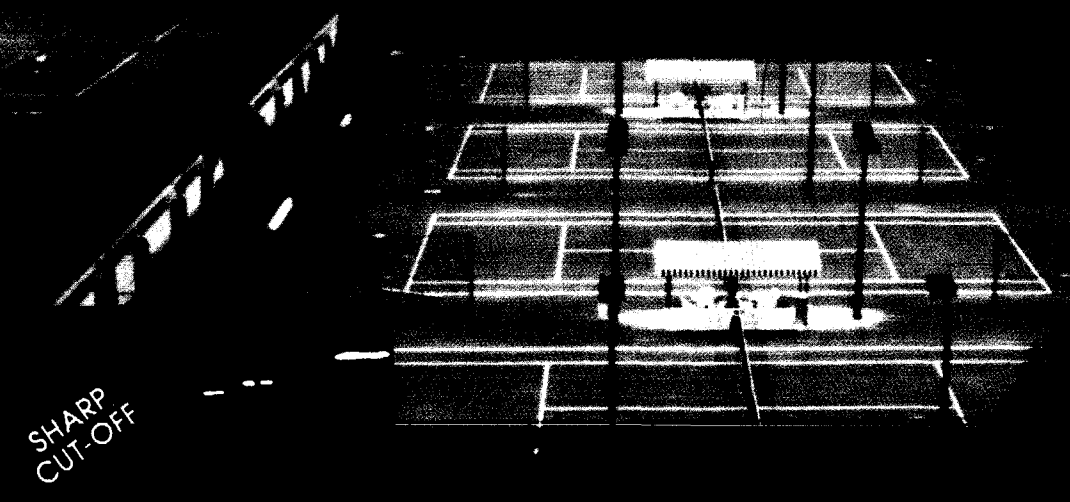
Pinewood Studios
Iver Heath, Buckinghamshire
SL0 0NH, United Kingdom
Tel: (0753) 653018/652919

FLOODLIGHTING LTD. ARE LICENCED FOR MANUFACTURE AND DISTRIBUTION WITHIN THE UK/EEC.

2160 SW 58 Way
Hollywood, FL 33023
(954) 983-4340
FAX (954) 983-3691
TOLL FREE 1-800-226-1757

RLS

LIGHTING, INC.
MANUFACTURERS OF QUALITY LIGHTING PRODUCTS



SHARP CUT-OFF

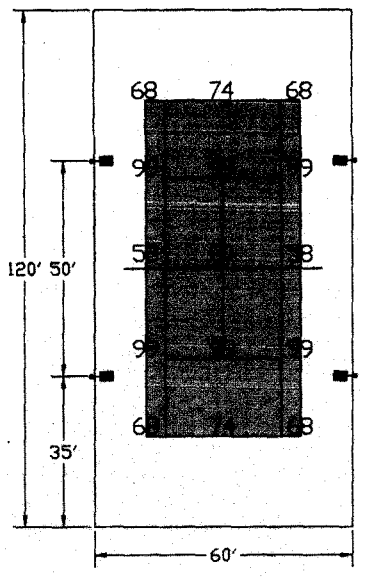


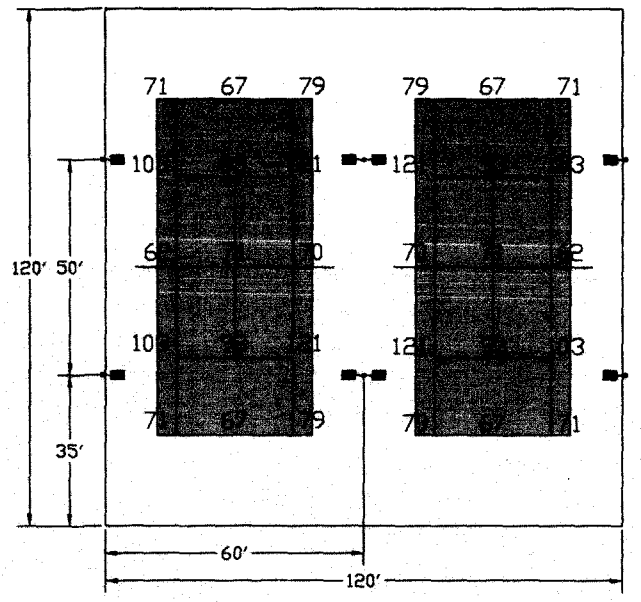
Environmentally Conscious
Court Lighting

LS-TE-2000 SERIES COURT LAYOUTS

.L. #45764. IES

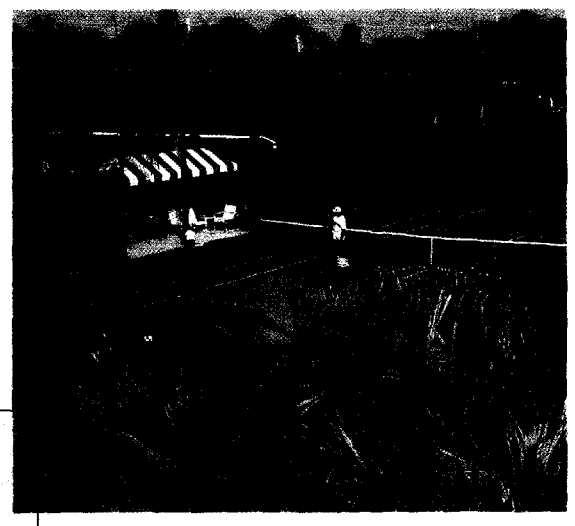
27' MOUNTING HEIGHT





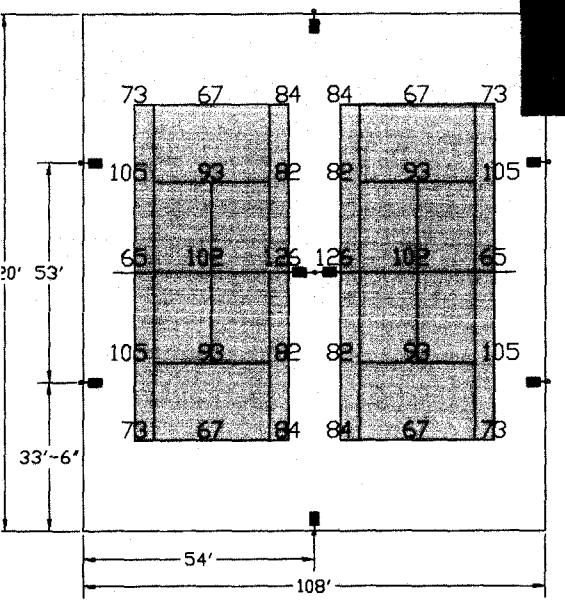
LIGHTING PERFORMANCE
TWIN 1000 LAMPS

Lamp (1000 Watt Metal Halide)	
Maximum FC	99.3
Minimum FC	57.7
Average FC	80.5
Uniformity Ratio	
Max/Min	1.72
Avg/Min	1.39



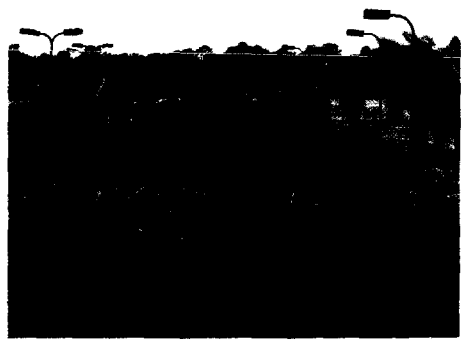
LIGHTING PERFORMANCE
TWIN 1000 LAMPS

Lamp (1000 Watt Metal Halide)	
Maximum FC	121.4
Minimum FC	61.6
Average FC	84.9
Uniformity Ratio	
Max/Min	1.97
Avg/Min	1.38

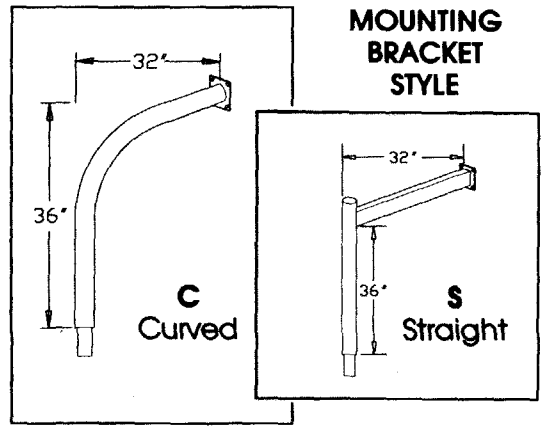


LIGHTING PERFORMANCE
TWIN1000 LAMPS

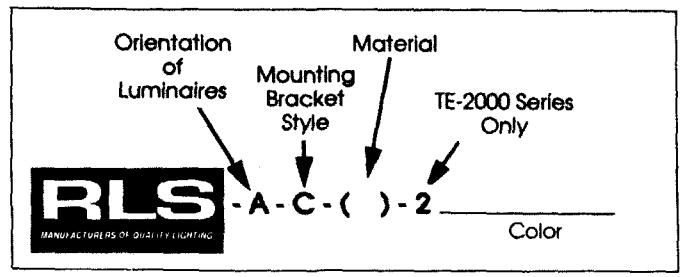
Lamp (1000 Watt Metal Halide)	
Maximum FC	126.0
Minimum FC	65.2
Average FC	86.9
Uniformity Ratio	
Max/Min	1.93
Avg/Min	1.33

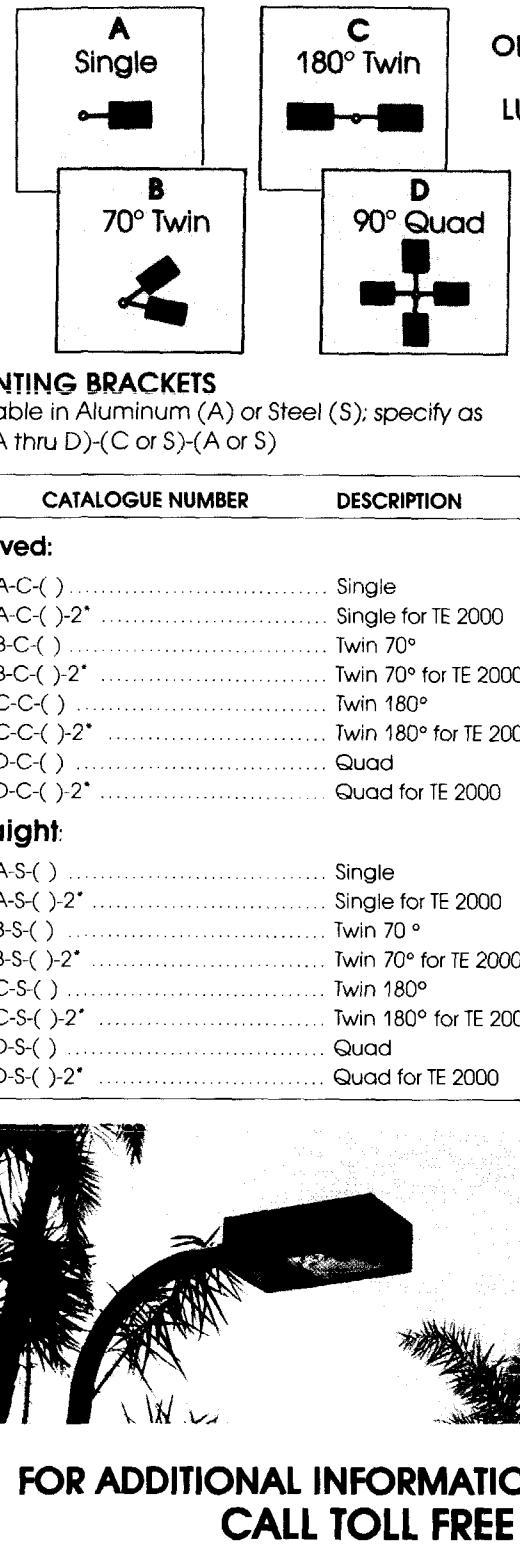


MOUNTING BRACKET STYLE



MATERIAL
(AL) Aluminum
(S) Steel





ORIENTATION OF LUMINAIRES

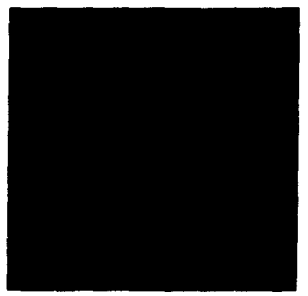
MOUNTING BRACKETS
Available in Aluminum (A) or Steel (S); specify as RLS-(A thru D)-(C or S)-(A or S)

CATALOGUE NUMBER	DESCRIPTION
Curved:	
RLS-A-C-( )	Single
RLS-A-C-( )-2*	Single for TE 2000
RLS-B-C-( )	Twin 70°
RLS-B-C-( )-2*	Twin 70° for TE 2000
RLS-C-C-( )	Twin 180°
RLS-C-C-( )-2*	Twin 180° for TE 2000
RLS-D-C-( )	Quad
RLS-D-C-( )-2*	Quad for TE 2000
Straight:	
RLS-A-S-( )	Single
RLS-A-S-( )-2*	Single for TE 2000
RLS-B-S-( )	Twin 70 °
RLS-B-S-( )-2*	Twin 70° for TE 2000
RLS-C-S-( )	Twin 180°
RLS-C-S-( )-2*	Twin 180° for TE 2000
RLS-D-S-( )	Quad
RLS-D-S-( )-2*	Quad for TE 2000

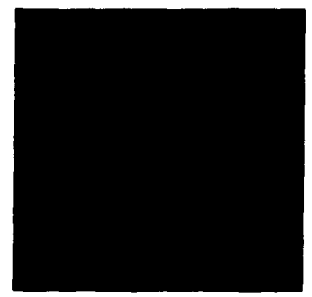


FINISH

The finish is electrostatically applied, baked on dry powder polyester coating. Standard colors are tennis green and black - other colors available.



BLACK Please indicate color selection.



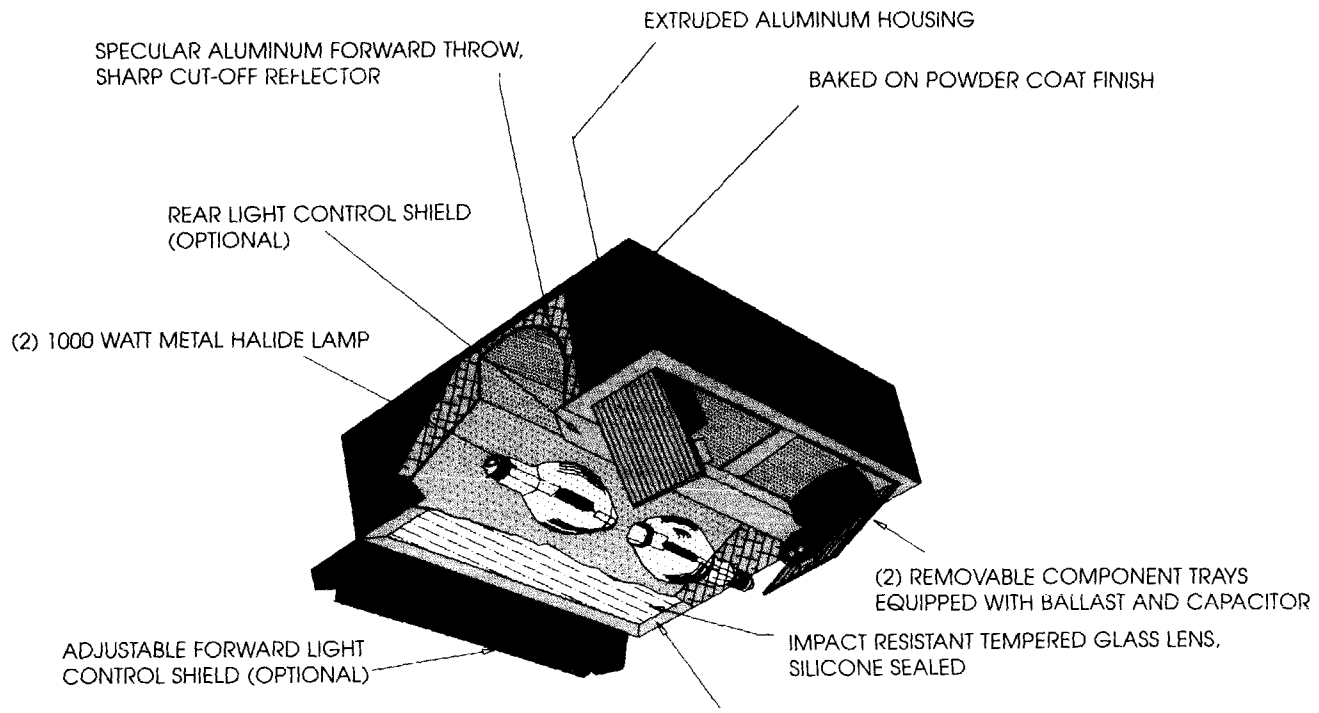
TENNIS GREEN

FOR COMPLETE ORDERING INFORMATION SEE PAGES 12-13

FOR ADDITIONAL INFORMATION OR ORDERING ASSISTANCE
CALL TOLL FREE 1-800-226-1757

N DESIGN
XCLUSIVELY
FROM RLS

RLS-TE-2000
PATENTED TWIN LAMP HIGH OUTPUT TENNIS LUMINAIRE



ADVANTAGES TO THE RLS-TE-2000

Two 1000 watt lamps in a single housing reduces equipment costs.
Four poles per single court provides comparable lighting levels as to a typical 8 pole 1000 watt system.
Half the poles means reduced installation costs.
Extruded aluminum housing is designed to withstand 125 mph windloads.
Removable power modules makes servicing easier and safer.
Standard 27' mounting height makes lob shots visible to 30' plus.
Retro fitting with effective mounting height of 25' to 40', replacing obsolete flood lighting on existing poles is simplified.
Optional adjustable forward cut off light shield for even greater spillage control. (Page 10)
In stock, ready to ship in either black or tennis green. As are all RLS fixtures!

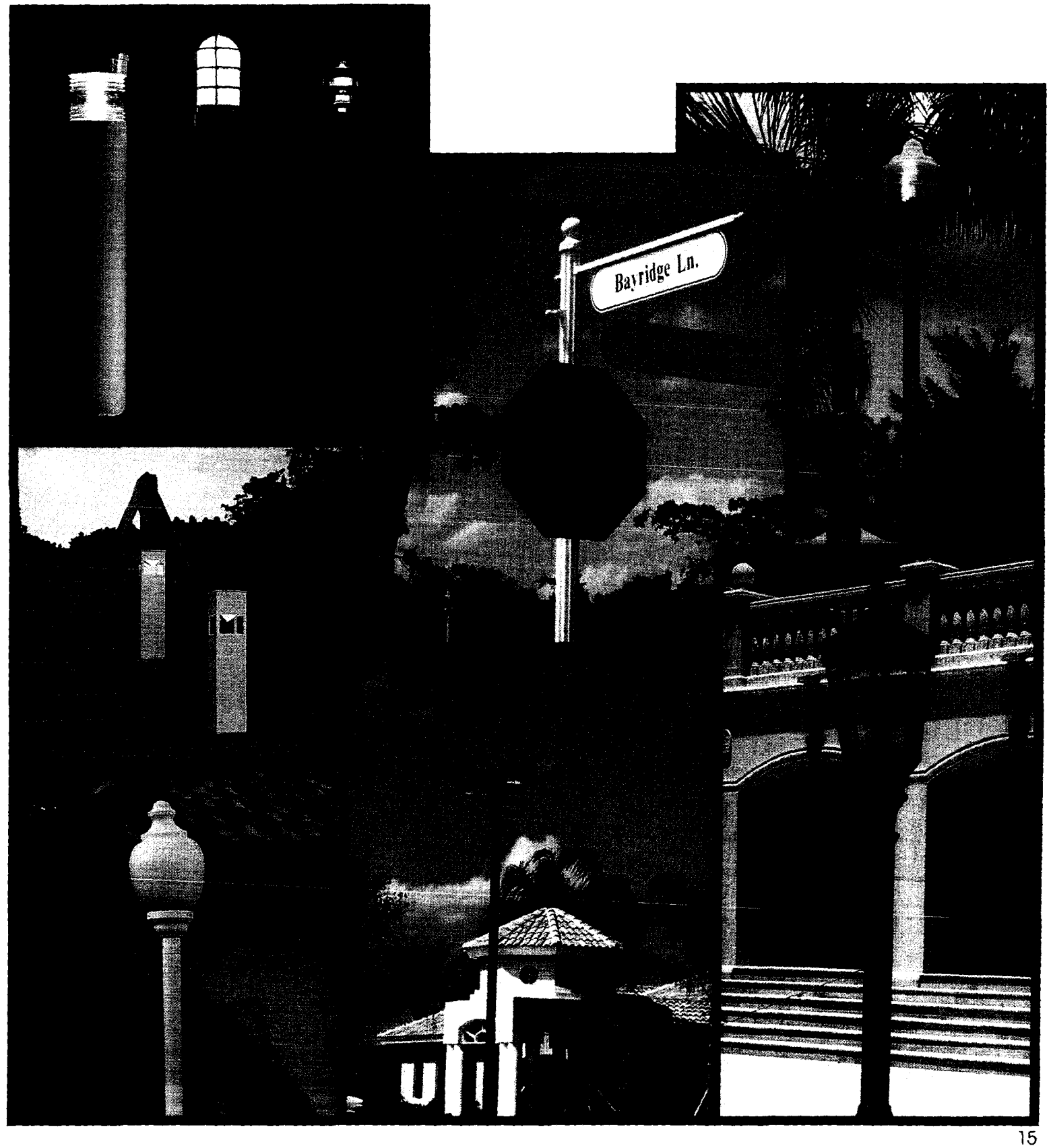
Note: RLS Lighting, Inc. equipment should be installed by a properly licensed contractor and qualified electricians.



RLS
MANUFACTURERS OF QUALITY LIGHTING

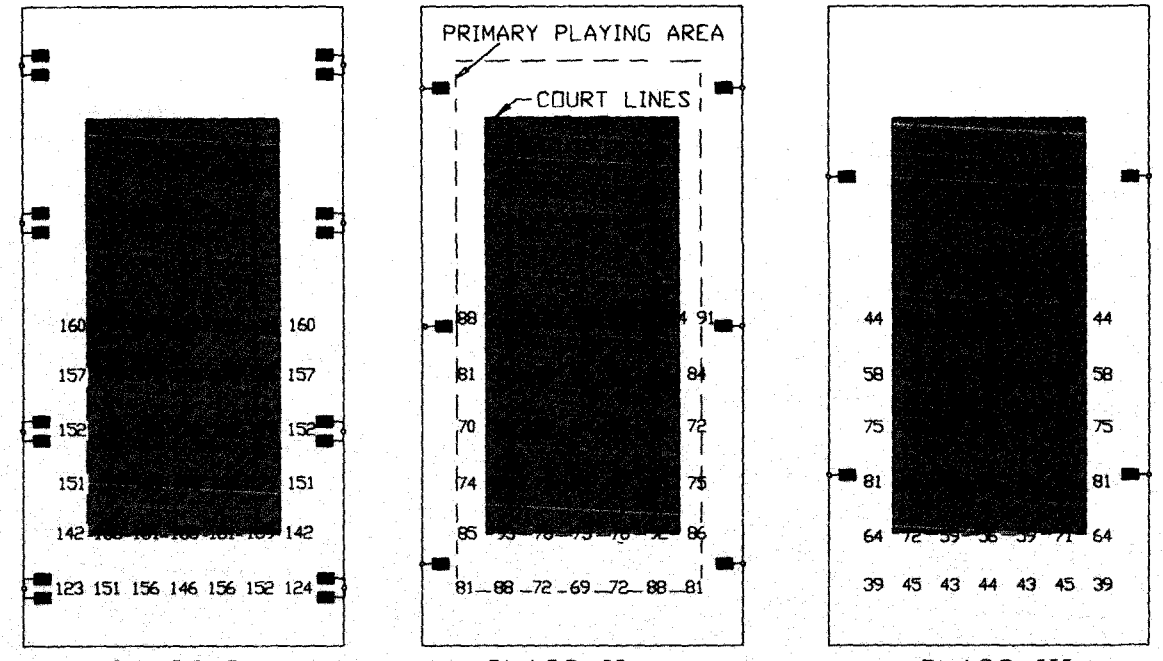
TING INC.

e • Area Lighting • Roadway • Specialty Signs



RLS-TE-2000

THE FIRST ENVIRONMENTAL CUT-OFF LUMINAIRE WHICH MEETS THE ILLUMINATION REQUIREMENTS OF U.S.T.A. & I.E.S. CLASS I, II, & III



CLASS I CLASS II CLASS III

LIGHTING PERFORMANCE

(I.T.L. Test No: 38779)

CLASS		MOUNTING HEIGHT (FT)	INITIAL FOOT-CANDLES PRIMARY PLAYING AREA (PPA)		UNIFORMITY (MAXIMUM TO MINIMUM)	
			AVERAGE	MINIMUM	WITHIN COURT LINES	WITHIN PPA
I	FOR PROFESSIONAL, NATIONAL AND INTERNATIONAL CHAMPIONSHIPS.	40	177	131	1.1	1.5
II	FOR SECTIONAL, STATE, CITY, AND COLLEGE CHAMPIONSHIPS.	30	84	69	1.4	1.5
III	FOR CLUBS, INSTRUCTIONAL, PARKS, HIGH SCHOOL, AND RESIDENTIAL.	30	62	40	1.7	2.0

REFERENCE: LIGHTING HANDBOOK - ILLUMINATING ENGINEERING SOCIETY (I.E.S.)
UNITED STATES TENNIS ASSOCIATION (U.S.T.A. HANDBOOK).

AMPERES PER FIXTURE

120 Volt	9.2
208 Volt	5.3
240 Volt	4.6
277 Volt	4.0
480 Volt	2.3

RLS-TE-1000

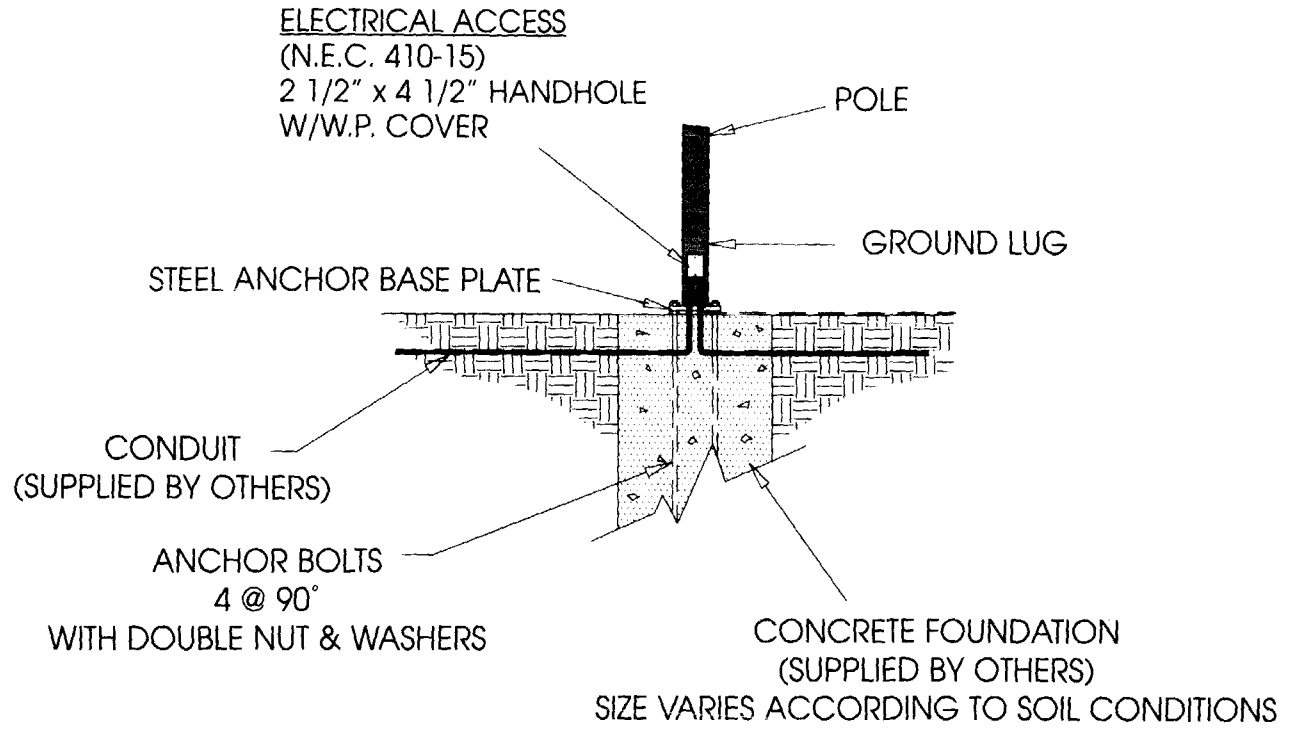
AMPERES PER FIXTURE
TWIN 1000 LAMPS

120 Volt	18.2
208 Volt	10.6
240 Volt	9.2
277 Volt	8.0
480 Volt	4.6

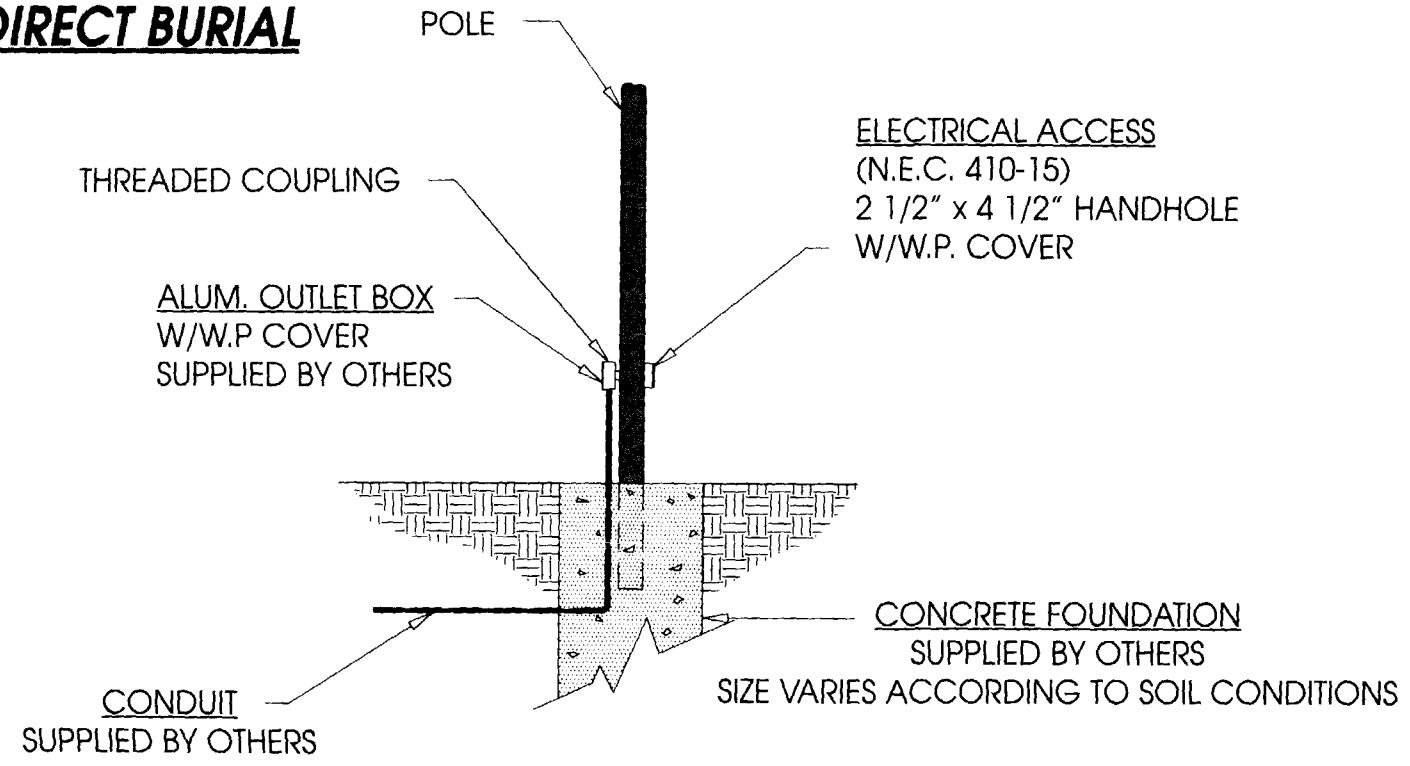
RLS-TE-2000

FOR COMPLETE ORDERING INFORMATION SEE PAGES 12-13

ANCHOR BASE INSTALLATION



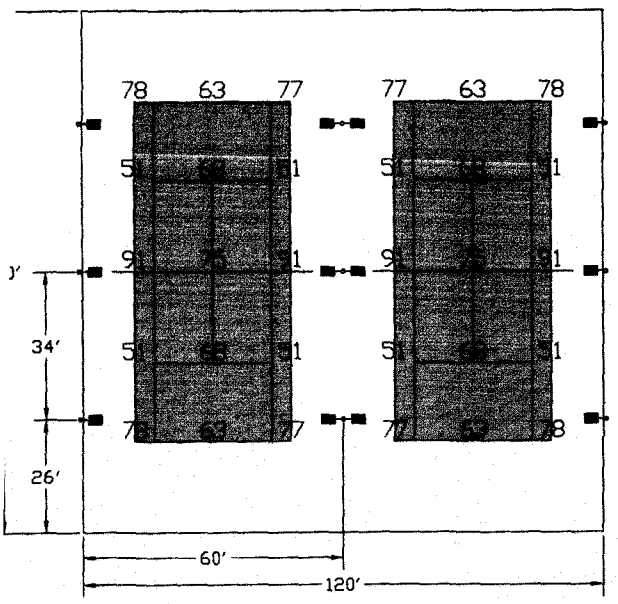
DIRECT BURIAL

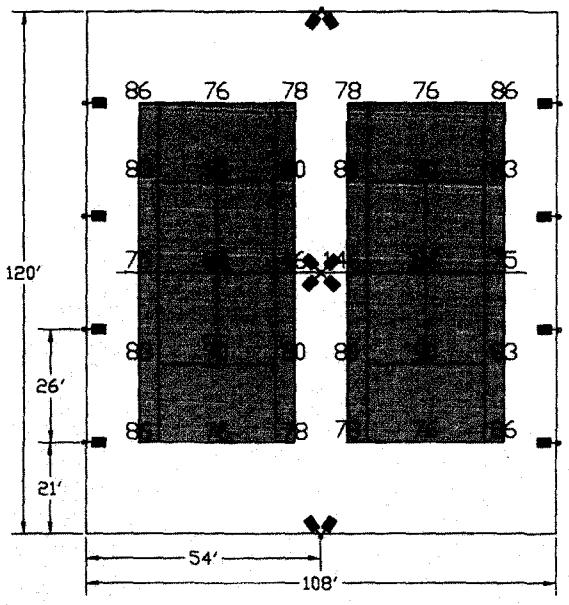


FOR COMPLETE ORDERING INFORMATION SEE PAGES 12-13

RLS-TE-1000 and TE-1000-EC SERIES LAYOUTS

I.T.L. #45909. IES **21' MOUNTING HEIGHT**





LIGHTING PERFORMANCE

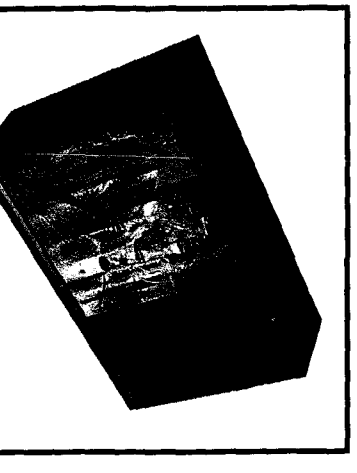
Lamp (1000 Watt Metal Halide)	
Maximum FC	91.4
Minimum FC	51.2
Average FC	69.0
Uniformity Ratio Max/Min Avg/Min	 1.79 1.35

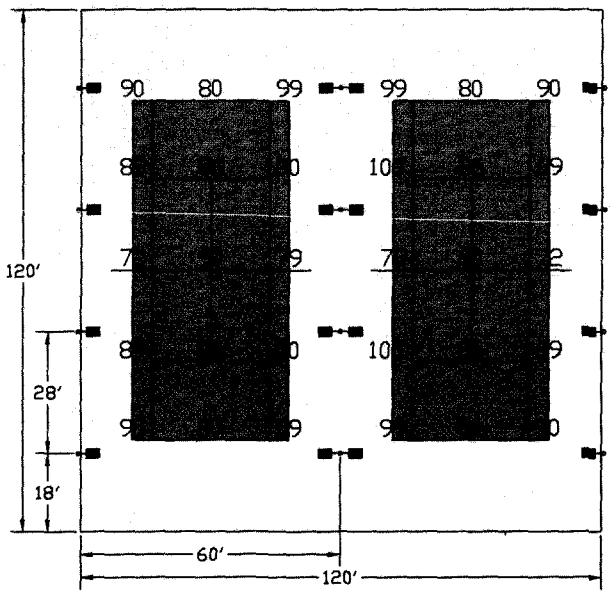


LIGHTING PERFORMANCE

Lamp (1000 Watt Metal Halide)	
Maximum FC	146.3
Minimum FC	75.1
Average FC	86.1
Uniformity Ratio Max/Min Avg/Min	 1.95 1.15

RLS TE-1000/1500



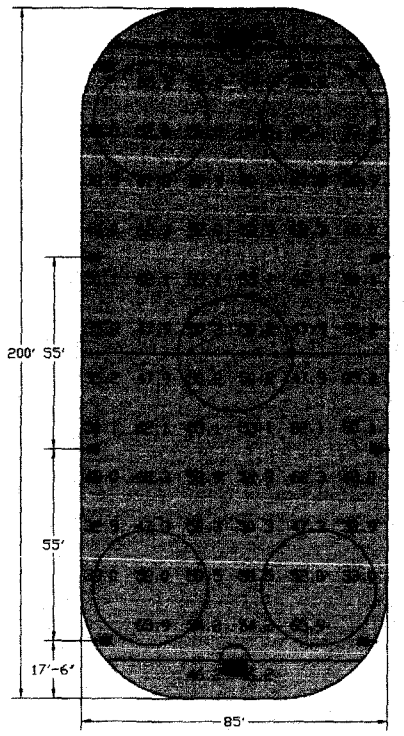


LIGHTING PERFORMANCE

Lamp (1000 Watt Metal Halide)	
Maximum FC	99.6
Minimum FC	71.9
Average FC	88.7
Uniformity Ratio Max/Min Avg/Min	 1.38 1.23

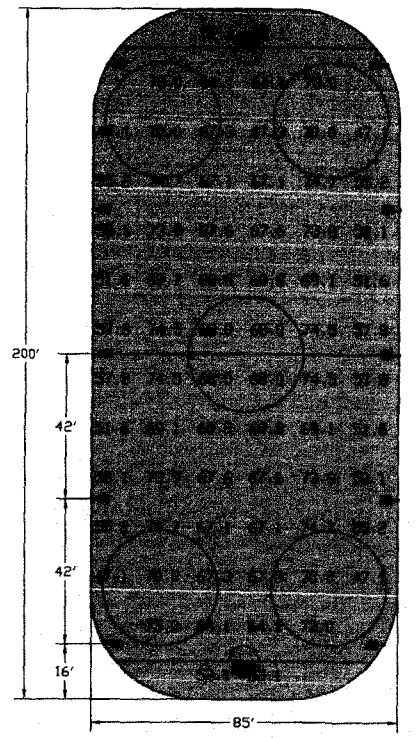
RLS-TE-2000 HOCKEY ARENA LAYOUTS

I.T.L. #45764. IES **30' MOUNTING HEIGHT**



LIGHTING PERFORMANCE
TWIN 1000 LAMPS

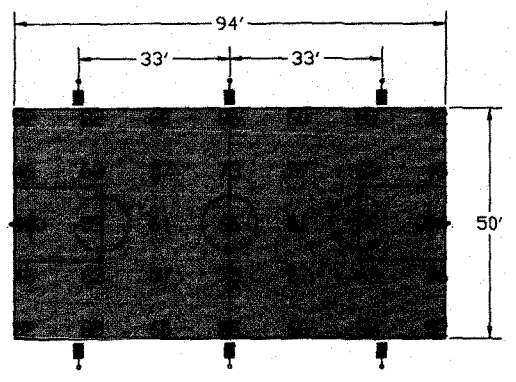
Lamp (1000 Watt Metal Halide)	
Maximum FC	74.7
Minimum FC	47.1
Average FC	64.4
Uniformity Ratio Max/Min Avg/Min	 1.59 1.37



LIGHTING PERFORMANCE
TWIN 1000 LAMPS

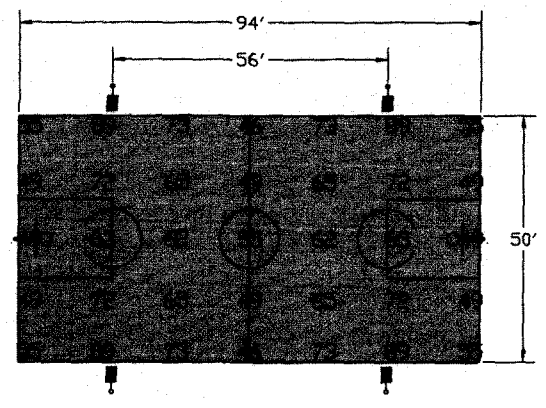
Lamp (1000 Watt Metal Halide)	
Maximum FC	65.9
Minimum FC	32.9
Average FC	49.7
Uniformity Ratio Max/Min Avg/Min	 2.00 1.51

RLS TE-1000 & TE-2000 HIGH OUTPUT BASKETBALL COURT LUMINAIRES (MOUNTING HEIGHT: 21' & 30')



LIGHTING PERFORMANCE

Lamp (1000 Watt Metal Halide)	
Maximum FC	85.9
Minimum FC	43.8
Average FC	61.5
Uniformity Ratio Max/Min Avg/Min	 1.96 1.40

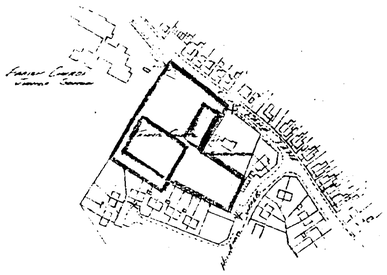


LIGHTING PERFORMANCE - TWIN 1000 LAMPS

Lamp (1000 Watt Metal Halide)	
Maximum FC	89.0
Minimum FC	45.6
Average FC	63.0
Uniformity Ratio Max/Min Avg/Min	 1.95 1.38

FOR ADDITIONAL INFORMATION OR ORDERING ASSISTANCE
CALL TOLL FREE 1-800-226-1757

PARISH CHURCH PRIMARY SCHOOL



SITE PLAN

21

22

EXISTING HOUSES

EXISTING BEECH HEDGING

CLARENCE GARDENS

10

CLUB HOUSE AND SQUASH COURTS

car park

access from

North

EXISTING FLOODLIT MACADAM COURTS

denotes existing floodlight positions

Southfields
BUNGALOW

CLAY LAKE LANE

14

24

PLAN

PODPLANS
Architectural Design Consultants

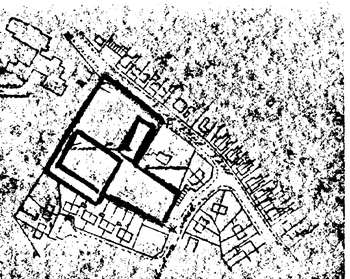
SPALDING TOWN
LAWN TENNIS CLUB

SOUTH HOLLAND DC
HOUSING & PLANNING
15 JUN 1998
Ref. 0613/98

1:200

2831-1

PARISH CHURCH PRIMARY SCHOOL



SITE PLAN

21

22

10

CLARENCE GARDENS

EXISTING BEECH HEDGING

EXISTING SEMI HOUSES

EXISTING

52M

16.8M

36.58M

11.6M

6.7M

0.2M MAX

NEW FLOODLIGHTS

EXISTING FLOODLIT MACADAM COURTS

denotes existing floodlight positions

34.69M

6.4M

CLARE LANE

14

24

CLUB HOUSE AND SQUASH COURTS

car park

access from Holyrood Walk

Southfields

BUNGALOW

North

DETAILED PLAN

SOUTH HOLLAND DC
HOUSING & PLANNING
16 JUN 1998
Ref. 0613/98

PODDINGTONS
Architectural Design Consultants

SPALDING TOWN
LAWN TENNIS CLUB

1:200

2631-1