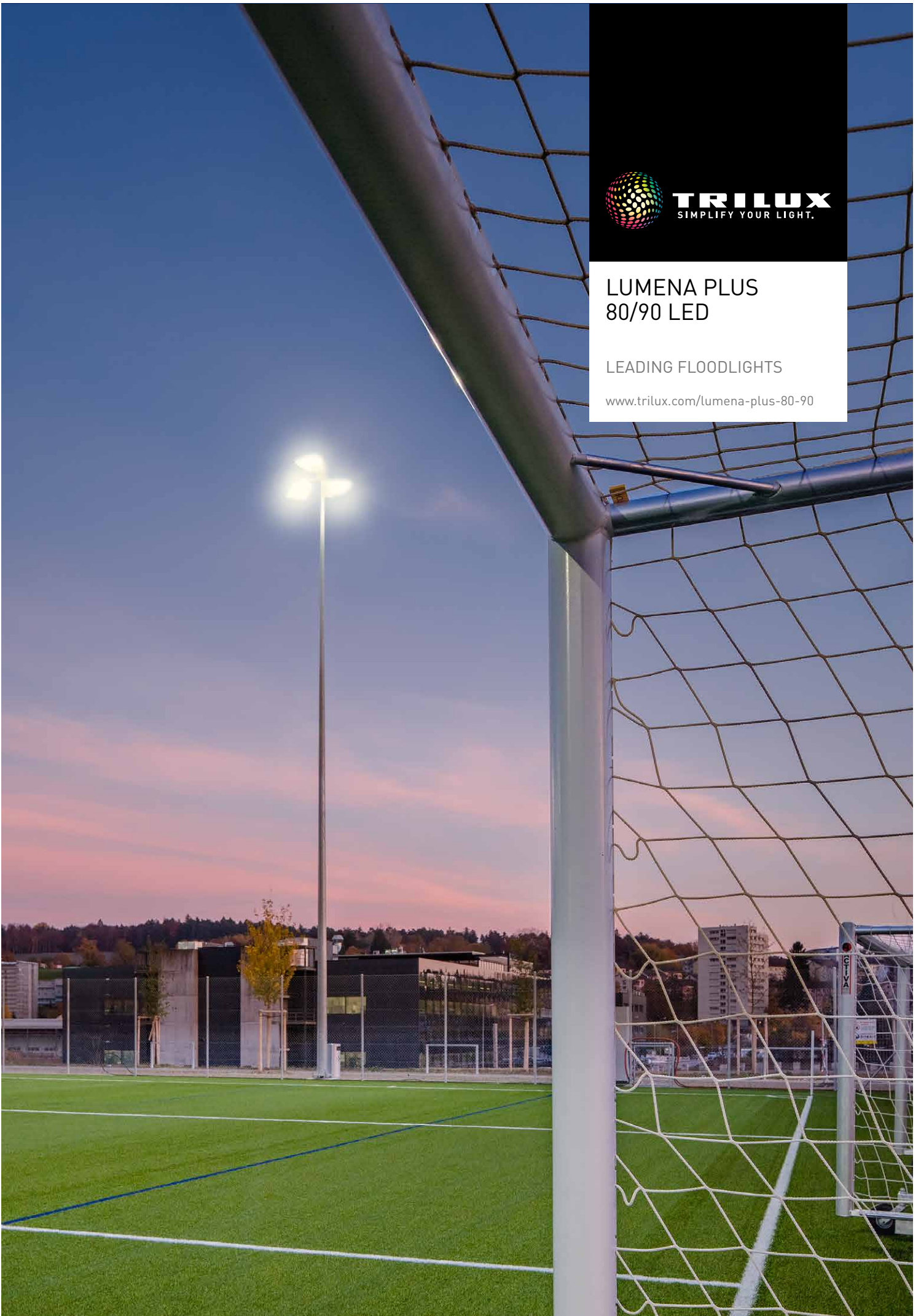


TRILUX
SIMPLIFY YOUR LIGHT.

LUMENA PLUS 80/90 LED

LEADING FLOODLIGHTS

www.trilux.com/lumena-plus-80-90



LUMENA PLUS 80/90 LED

WIDE BEAM FLOODLIGHT



HIGHLIGHTS

Bring quality into play

Made in Germany for a tough job: Excellent quality in terms of materials, construction and light make the Lumena Plus 80/90 wide beam projector a real professional for demanding, large-area lighting tasks in sports and industry.

Exciting light scenes on the sports ground

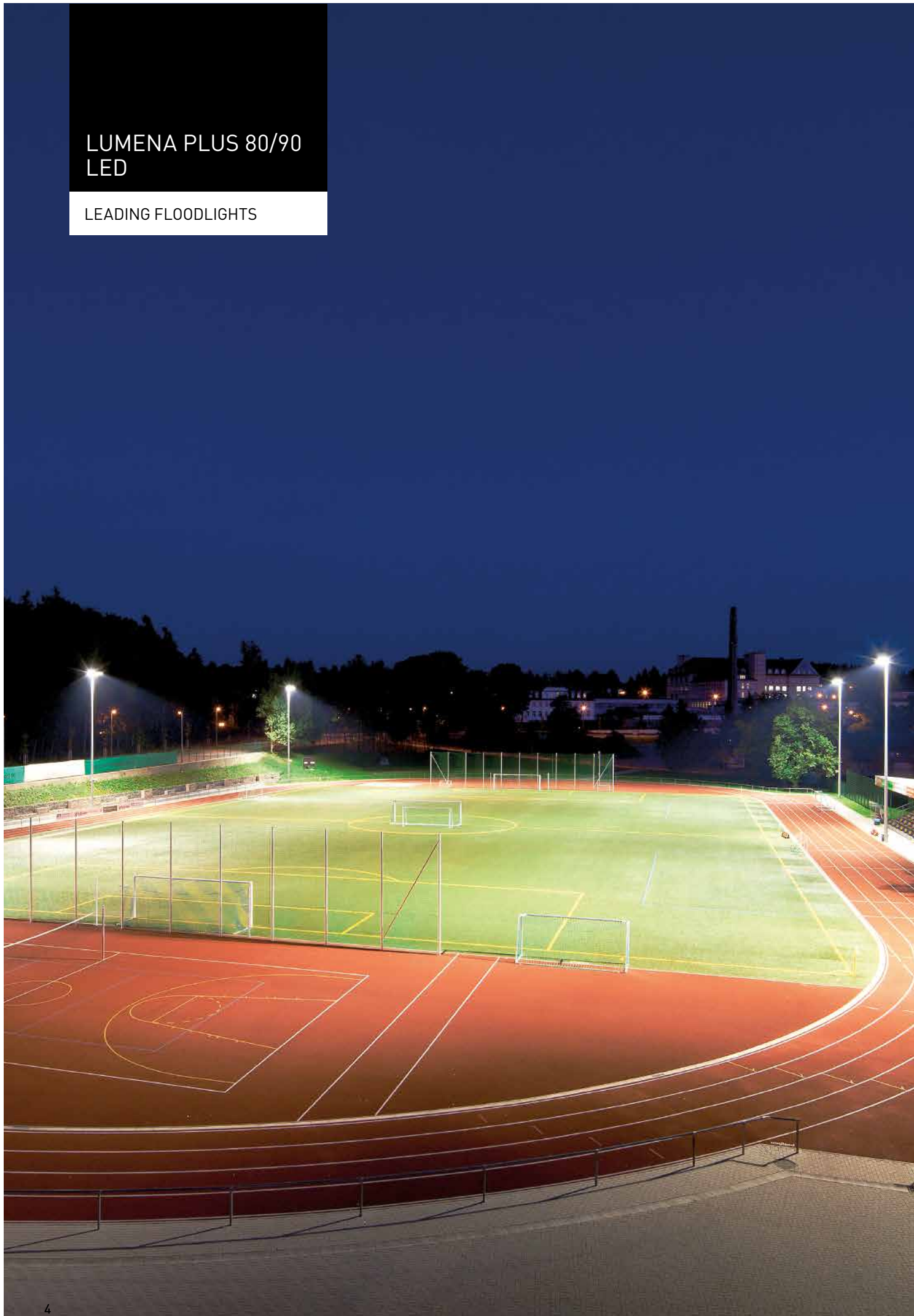
Light that inspires: with the (optional) LiveLink light management system, light can be precisely adapted to individual training situations, e.g. light for training, competition or an alternative event. In addition, dynamic lighting scenes can be effortlessly implemented, for example a light show when cheering for a goal. Ideal for exciting experiences and goose-bump moments.

Maximum relief and perfect results – our full-service promise

Whether a refurbishment project or new lighting design – we are your professional partner for quick and reliable upgrading to smart LED technology. With our broad portfolio of solutions, you can put any task in our hands, from on-site audit and lighting design to installation and operation. Even easier: as a full-service provider we are happy to take on the complete range of tasks for you.

LUMENA PLUS 80/90
LED

LEADING FLOODLIGHTS








For further product information see
www.trilux.com/lumena-plus-80-90





Lumena Plus 80/90 LED


-  **Mounting method/location**
Cross-arm on posts


-  **Light distribution**
asymmetric wide distribution
asymmetric narrow distribution


-  **Luminaire luminous flux**
135,000 - 190,000 lm


-  **Colour rendering index | Light colour**
Ra > 70 |
3,000 K (warm white), 4,000 K (neutral white)


-  **Service life**
100,000 h (L80)

-  **Luminaire colour**
Luminaire body anthracite (DB703)
Mounting bracket silver-grey

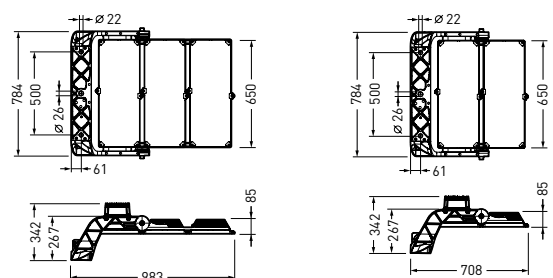
-  **Positioning of control gear units**
Directly on luminaire with accessory
to be ordered separately (TOC: 84 263 00)
or externally up to 200 m away from luminaire

-  **Switching type**
DALI dimmable (ETDD) with CLO
DMX

-  **Accessories**
Cross-arms

-  **Connectivity**
Control via LiveLink Sport Box
to be ordered separately

  IP66

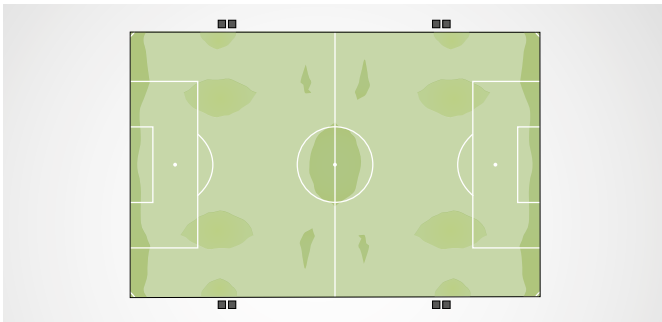


SPORTS- AND FOOTBALL FIELDS

REFERENCE CALCULATIONS
ACCORDING TO EN 12193
STANDARD



4-post system



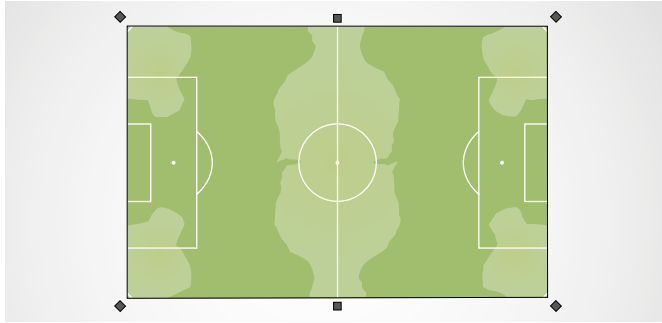
Reference calculation

Total area (W x L)	Main area (W x L)	Number of posts	Number of luminaires per post	Post height	Inclination angle	E_m	U_o
76 x 113 m	68 x 105 m	4	2	16 m	10°	110 lux	0.63

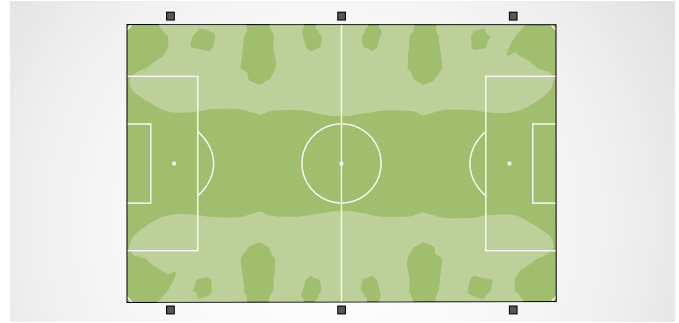
Order list

Designation	Description	TOC	Required quantity
LnPlus 90-AM19L/165000-740 120G1 ETDD	Luminaire	84 222 51	8
0805 cross-arm S2 2/108	Cross-arm	73 168 00	4
0801MF2/160-108/5+6 fvz	Post (post spigot 108 mm)	75 194 00	4
0802KÜ/3	Cable junction box (optional)	22 182 00	4
LMS-F LiveLink Sport Box L2 G2C	Light management control unit for two wide beam floodlights	84 695 00	4

6-post system



Corner variant



Moved-in variant

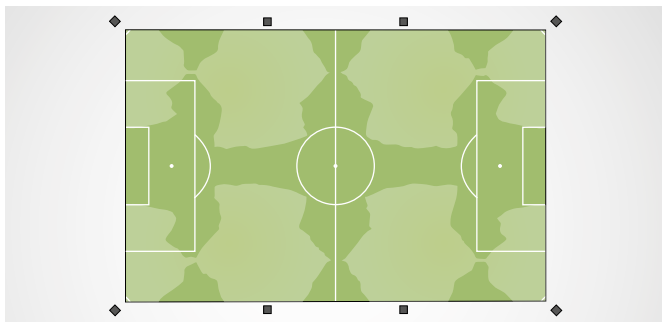
Reference calculation

Variant	Position	Total area (W x L)	Main area (W x L)	Number of posts	Number of luminaires per post	Post height	Inclination angle	E _m	U _o
Corner variant	Centre line	76 x 113 m	68 x 105 m	2	1	16 m	10°	79 lux	0.71
	Corner	76 x 113 m	68 x 105 m	4	1	16 m	10°	79 lux	0.71
Moved-in variant	Centre line	76 x 113 m	68 x 105 m	2	1	16 m	5°	78 lux	0.60
	Moved in	76 x 113 m	68 x 105 m	4	1	16 m	5°	78 lux	0.60

Order list

Designation	Description	TOC	Required quantity
LnPlus 90-AM19L/190000-740 120G1 ETDD	Luminaire corner variant / centre line	84 224 51	2
LnPlus 90-AT2L/190000-740 120G1 ETDD	Luminaire corner variant / corner	84 228 51	4
LnPlus 90-AT2L/165000-740 120G1 ETDD	Luminaire moved-in variant	84 226 51	6
0805 cross-arm S2 1/108	Cross-arm	73 167 00	6
0801MF2/160-108/5+6 fvz	Post (post spigot 108 mm)	75 194 00	6
0802KÜ/3	Cable junction box (optional)	22 182 00	6
LMS-F LiveLink Sport Box L1 G2C	Light management control unit for one wide beam floodlight	84 694 00	6

8-post system



Reference calculation

Total area (W x L)	Main area (W x L)	Number of posts	Number of luminaires per post	Post height	Inclination angle	E _m	U _o
76 x 113 m	68 x 105 m	8	1	16 m	5°	89 lux	0.68

Order list

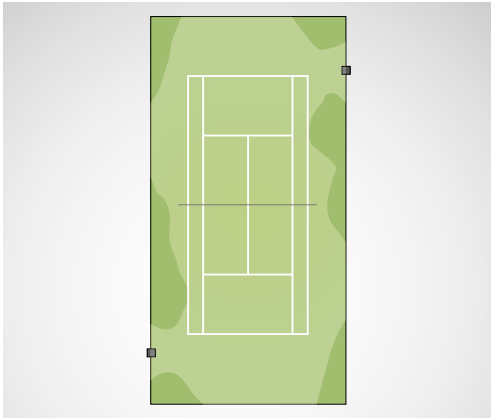
Designation	Description	TOC	Required quantity
LnPlus 90-AT2L/165000-740 120G1 ETDD	Luminaire	84 226 51	8
0805 cross-arm S2 1/108	Cross-arm	73 167 00	8
0801MF2/160-108/5+6 fvz	Post (post spigot 108 mm)	75 194 00	8
0802KÜ/3	Cable junction box (optional)	22 182 00	8
LMS-F LiveLink Sport Box L1 G2C	Light management control unit for one wide beam floodlight	84 694 00	8

TENNIS COURTS

REFERENCE CALCULATIONS
ACCORDING TO EN 12193
STANDARD



Single tennis court



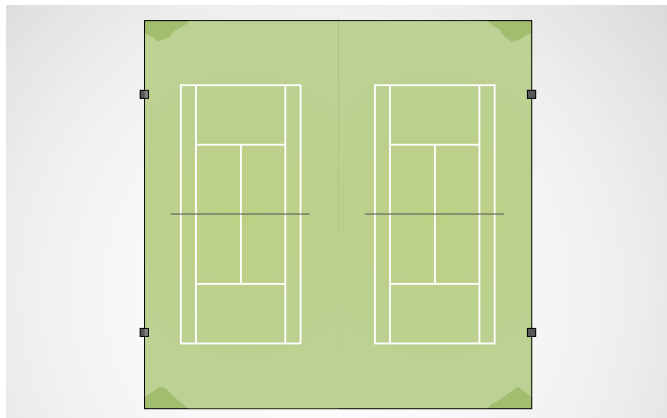
Reference calculation

Total area (W x L)	Evaluation field (W x L)	Number of posts	Number of luminaires per post	Post height	Inclination angle	E_m	U_o
18 x 36 m	15 x 30 m	2	1	10 m	0°	306 lux	0.70

Order list

Designation	Description	TOC	Required quantity
LnPlus 90-AM19L/190000-740 120G1 ETDD	Luminaire	84 224 51	2
0805 CROSS-ARM S2 1/108	Cross-arm	73 167 00	2
0801MGK/100-108-4 SOF fvz	Post (post spigot 108 mm)	22 166 00	2
0802KÜ/3	Cable junction box (optional)	22 182 00	1
LMS-F LiveLink Sport Box L1 G2C	Light management control unit for one wide beam floodlight	84 694 00	2

Double tennis court



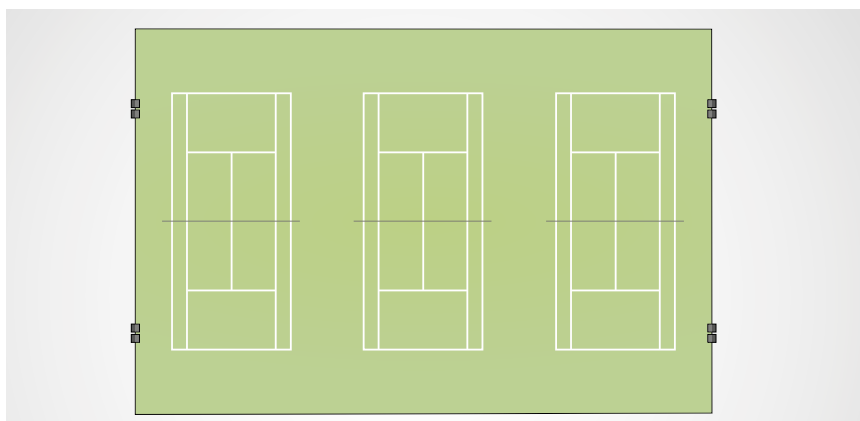
Reference calculation

Total area (W x L)	Evaluation field (W x L)	Number of posts	Number of luminaires per post	Post height	Inclination angle	E _m	U _o
36 x 36 m	2 x 15 x 30 m	4	1	10 m	0°	324 lux	0.75

Order list

Designation	Description	TOC	Required quantity
LnPlus 90-AM19L/190000-740 120G1 ETDD	Luminaire	84 224 51	4
0805 CROSS-ARM S2 1/108	Cross-arm	73 167 00	4
0801MGK/100-108-4 SOF fvz	Post (post spigot 108 mm)	22 166 00	4
0802KÜ/3	Cable junction box (optional)	22 182 00	4
LMS-F LiveLink Sport Box L1 G2C	Light management control unit for one wide beam floodlight	84 694 00	4

Triple tennis court



Reference calculation

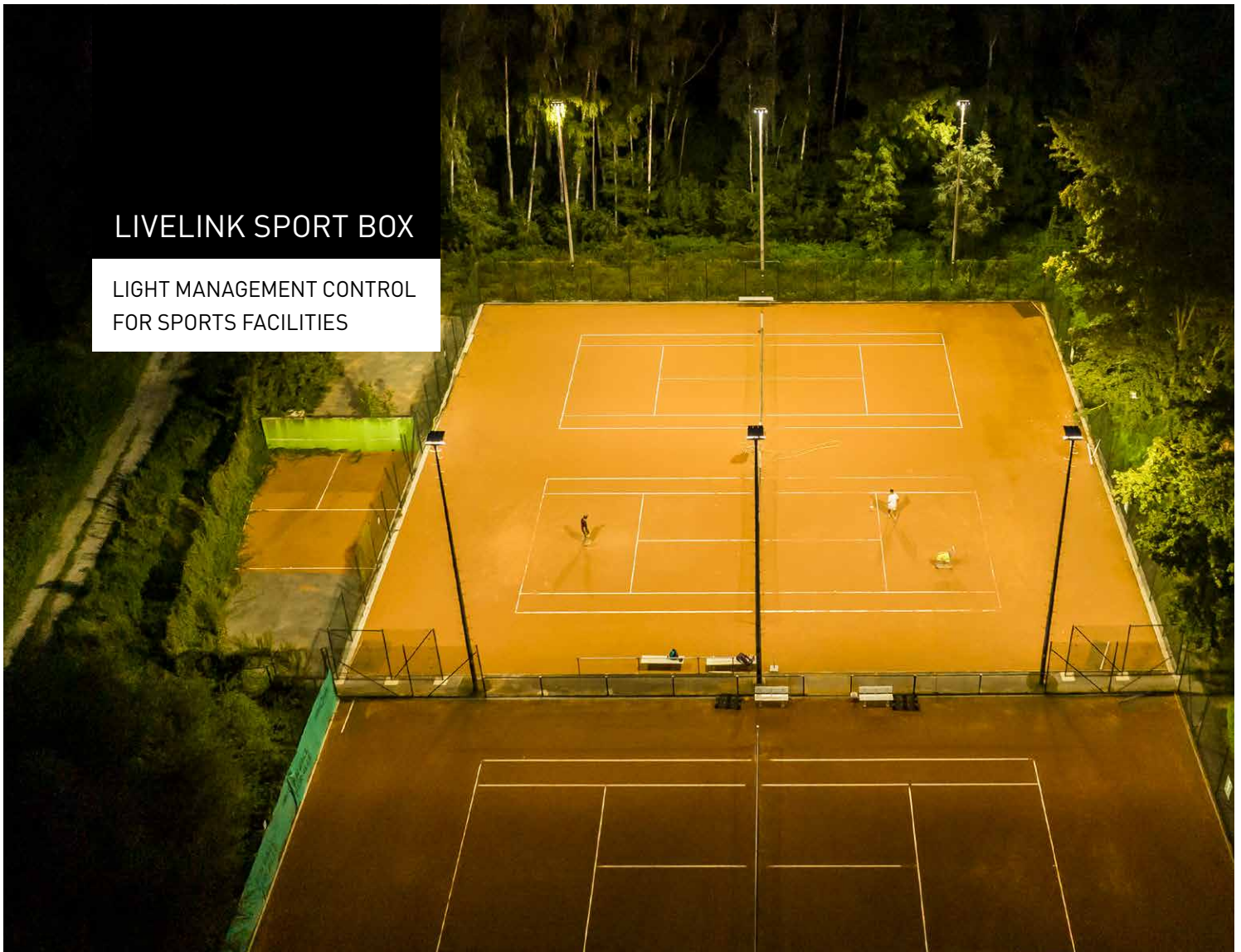
Total area (W x L)	Evaluation field (W x L)	Number of posts	Number of luminaires per post	Post height	Inclination angle	E _m	U _o
54 x 36 m	3 x 15 x 30 m	4	2	12 m	10°	336/318 lux	0.86/0.81

Order list

Designation	Description	TOC	Required quantity
LnPlus 90-AM19L/165000-740 120G1 ETDD	Luminaire	84 222 51	8
0805 cross-arm S2 2/108	Cross-arm	73 168 00	4
0801MGK/120-108-4 fvz	Post (post spigot 108 mm)	69 337 00	4
0802KÜ/3	Cable junction box (optional)	22 182 00	4
LMS-F LiveLink Sport Box L2 G2C	Light management control unit for two wide beam floodlights	84 695 00	4

LIVELINK SPORT BOX

LIGHT MANAGEMENT CONTROL
FOR SPORTS FACILITIES



FIVE REASONS FOR THE LIVELINK SPORT BOX

1. Environmentally friendly and energy cost-cutting

Lighting according to requirements and time protects the climate and environment by reducing light emissions. Potential energy savings are also enabled.

2. Support via subsidies

The LiveLink Sport Box is eligible for the German Federal Ministry of Economics and Climate Protection subsidy.

3. Simple installation and commissioning

The LiveLink Sport Box is even easier and more flexible to install thanks to the new extended connection cable.

4. Connected and smart

The LiveLink Sport Box makes it possible to rapidly combine wide beam floodlights into an intelligent mesh network and control as required.

5. Light according to needs

The LiveLink Sport Box with its extensive functions supports demand-led lighting with outdoor luminaires.

LIVELINK SPORT BOX

Sports facilities: LiveLink Outdoor Sports

LiveLink Sport Box in outdoor lighting for intelligent control of sports lighting. The lighting network can be configured and controlled conveniently via smartphone or tablet via Casambi app with graphic user interface.

Self-regulating: on site or via remote control

Components: LiveLink Sport Box L1 G2C (1 floodlight),
LiveLink Sport Box L2 G2C (2 floodlights)



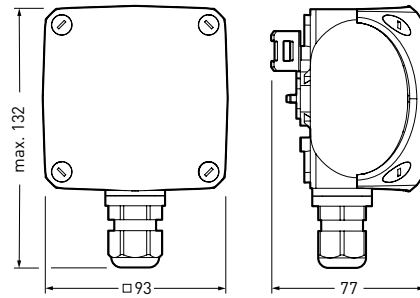
Connectivity and smartness

The following components are required to commission TRILUX LiveLink Outdoor (LiveLink Sport Box):









- LiveLink **Sport Box** L1 G2C or LiveLink **Sport Box** L2 G2C
- **Tablet PC** or **smartphone** with the Casambi app

For more control flexibility, the Sport Boxes are connected to a MESH network via BLE (Bluetooth Low Energy). Each device behaves like a repeater and refreshes the received Bluetooth signal for the following devices.

Optional: for post luminaires in car parks:
LMS-F LiveLink Casambi Hub G1C



Technical features

-  **Net weight:**
300 g
-  **Encryption:**
AES - 128
-  **Configuration:**
Bluetooth via Casambi app
-  **Mounting:**
outdoors in IP socket
-  **Operating temperature:**
-25°C to +65°C
-  **Creation of groups:**
≥ 250 units
-  **Power supply:**
100 V - 240 V
-  **Protection rating/class:**
IP66 / II

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Planning information: If luminaires, cross-arms and post attachments purchased from us are connected to posts and/or luminaires purchased elsewhere or already existing, the overall system must be checked on site for stability and suitability of the individual components.