

COURT ACE SERIES - LARGE

High Lumen Large LED Tennis Court Light



CENTER COURT
LIGHTING

SPECIFICATIONS

APPLICATION

The Court Ace (CTA) Series of high output LED luminaires are designed for new outdoor sports lighting applications and to be a replacement for HID sports area lights. They are optimal for lighting applications where long life, low maintenance, and consistent color rendering is required.

CONSTRUCTION

A compact, one-piece die cast housing. Saving costs versus models that are extruded or cast and require additional parts. The heat sink is included in the actual casting, further minimizing the need for additional parts. Standard Arm Mount features an integral arm, increasing strength and simplifying installation. Each fixture can accommodate an optional twist-lock photocell which allows for further energy savings and an optional PIR motion sensor allows for security. The high lumen output allows the fixture to be used for general area or tennis lighting applications.

CTA-L optics are Full Cutoff design.

The new CTA-L LED Tennis Court Light delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The CTA-L delivers 45,000 to 80,000 lumens.

OPTICAL SYSTEM

Made with a state of the art UV stabilized acrylic high performance refractive optical assemblies that use high transmissivity materials to achieve precise photometric distributions.

ELECTRICAL SYSTEM

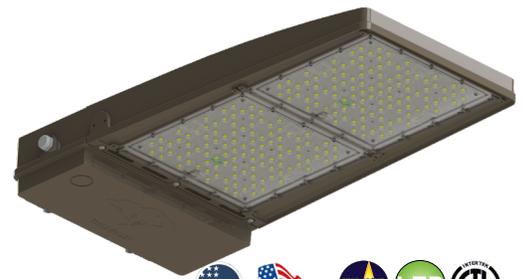
Available in up to a 80,000 nominal lumens in most optical distributions with either 4000K Neutral White or 5000K Cool White color temperatures. Universal input voltage 120-277Vac, 50/60Hz; 347/480Vac. Operating temperature range -40°C to 40° C.

MOUNTING

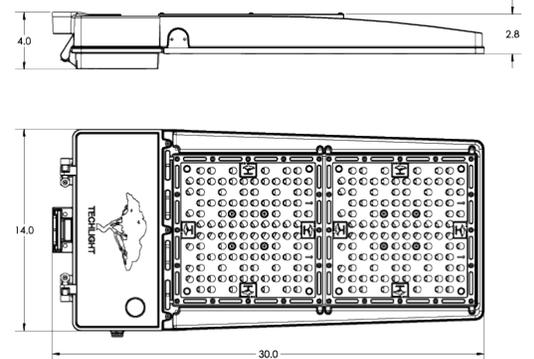
Available with several or multiple unique mountings, specifically designed to provide one-for-one, and in some cases two-for-one, solutions for replacing existing metal halide or high pressure sodium lighting. Features an integral universal mounting mechanism that allows the luminaire to be easily mounted on most existing drill hole patterns. This provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slip fitter and other mounting configurations are available.

FINISH

Heavy-duty housing is constructed of cast aluminum is epoxy e-coated with corrosion resistant polyester powder coat finish. Standard colors available: Black, Bronze, US Green, White. Custom colors available upon request.



DIMENSIONS



EXAMPLE: **CTA-L-C-80L-T4T-1-GR-BTEC**

ORDERING INFORMATION

CTA-L	C	80L	T4T	1	GR	BTEC
SERIES	COLOR TEMP	NOMINAL LUMENS	OPTICS	VOLTAGE	FINISH	OPTIONS
	C = Cool White (5000K) N = Neutral White (4000K)	45L = 45,000 Lumens 50L = 50,000 Lumens 55L = 55,000 Lumens 60L = 60,000 Lumens 65L = 65,000 Lumens 70L = 70,000 Lumens 75L = 75,000 Lumens 80L = 80,000 Lumens	T3 = Type III T4 = Type IV T4T = Type IV Tennis T5M = Type V Medium T5W = Type V Wide	1 = Multi-Volt ² 2 = 347~480v (HV)	BK = Black BZ = Bronze GR = US Green WH = White SP = Special ³	BTEC = Integrated Bluetooth Control Module Casambi Ready Mesh Network IMS = Fixture Mount Passive Infrared Motion Sensor (IMS Lenses Below, Ordered Separately) TLWSFSP-L3 = 360° lens, maximum coverage 40' diameter from 20' height (IMS) TLWSFSP-L7 = 360° lens, maximum coverage 100' diameter from 40' height (IMS) PCR7 = 7-Pin Twist-Lock Photocell receptacle ANSIC136.41 with Shorting Cap

ACCESSORIES (Order Separately)

- TLWSFSIR-100** Remote Handheld Sensor Configuration Tool for IMS
- PC2** 347-480V Twist-Lock Photocell
- PC7** Multi-Tap (105-285V) Twist Lock Photocell
- CTA SM** Slide Mount Adaptor
- CER100⁵** Wireless Repeater

ARMS (Order Separately)

CCS 7° TILT ARMS

- Single Straight Arm with 7° Up Tilt
CCS-190
EPA: 1.8 29 lbs.
- Double Straight Arm at 180° with 7° Up Tilt
CCS-2180
EPA: 3.4 49 lbs.
- Double Straight Arm at 70° with 7° Up Tilt
CCS-270
EPA: 2.8 49 lbs.
- Quad Straight Arm at 70° with 7° Up Tilt
CCS-470
- Quad Straight Arm at 90° with 7° Up Tilt
CCS-490
EPA: 3.75 89 lbs.

DAVIT ARMS

- Single Davit Arm
DV190
EPA: 0.9 51 lbs.
- Double Davit Arm at 180°
DV2180
EPA: 1.4 83 lbs.
- Double Davit Arm at 70°
DV270
EPA: 1.1 83 lbs.
- Quad Davit Arm at 70°
DV470
- Quad Davit Arm at 90°
DV490
EPA: 1.6 145 lbs.

NOTES

- 1** = 80L only available in certain optics and wattages. See LUMINAIRE CHARACTERISTICS chart for details.
- 2** = Multi-Volt is an auto ranging power supply from 100V to 300V input.
- 3** = Custom RAL color matching is available. Contact your sales representative for additional info.
- 4** = Control Modules are installed and luminaires are commissioned at the factory. Lighting control system via the Casambi app for Apple iOS and Android devices provides diverse functionality for a control hierarchy capable of managing multiple schedules and scenes and incorporating a variety of energy saving accessories. ***STGA7L** (Wi-Fi ready tablet/Gateway Samsung Tab A7 Lite) is required as a gateway and can be purchased from a local retailer or online.
- 5** = For extended range greater than 150ft between BT Mesh Network connections.
- 6** = (55L-80L in T4, T4T) come standard with the CTA-SM + HDW Kit and C35 extended 35' long cord.

***STGA7L** = Enables remote access using the Gateway and Sites functionality in the Casambi App. Automatically restores network control settings and provides automatic time back up for the mesh network. This is required as a gateway and can be purchased from a local retailer or online.

Slide Mount Adaptor (CTA SM) must be used in conjunction with any of the arms above to properly mount CTA fixture.

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LUMINAIRE CHARACTERISTICS

Nominal Lumens	Delivered Lumens and Wattage/Optic Type														
	TYPE III			TYPE IV			TYPE 4T			TYPE 5M			TYPE 5W		
	Lumens	Wattage	Lm/W	Lumens	Wattage	Lm/W	Lumens	Wattage	Lm/W	Lumens	Wattage	Lm/W	Lumens	Wattage	Lm/W
45L	45,166	276W	164	45,484	276W	165	44,744	259W	173	44,892	276W	163	45,285	254W	178
50L	50,026	311W	161	50,378	311W	162	49,878	293W	170	49,723	311W	160	49,718	282W	176
55L	54,807	345W	159	55,192	345W	160	54,928	328W	167	55,259	351W	157	54,958	316W	174
60L	60,285	387W	156	59,927	381W	157	59,895	363W	165	59,919	387W	155	60,113	351W	171
65L	64,894	423W	153	65,350	423W	154	64,780	399W	162	65,256	429W	152	65,182	387W	168
70L	70,171	466W	151	69,912	460W	152	70,373	441W	160	69,746	466W	150	70,166	423W	166
75L	75,341	511W	147	75,133	504W	149	75,078	479W	157	74,884	511W	147	75,064	460W	163
80L	N/A			N/A			79,700	517W	154	N/A			79,877	498W	160

System Wattage	L70 @ 25°C	Amperage Draw					
		120V	208V	240V	277V	347V	480V
254W	>50K Hrs.	2.12	1.22	1.06	0.92	0.73	0.53
259W	>50K Hrs.	2.16	1.25	1.08	0.94	0.75	0.54
276W	>50K Hrs.	2.30	1.33	1.15	1.00	0.80	0.58
282W	>50K Hrs.	2.35	1.36	1.18	1.02	0.81	0.59
293W	>50K Hrs.	2.44	1.41	1.22	1.06	0.84	0.61
311W	>50K Hrs.	2.59	1.50	1.30	1.12	0.90	0.65
316W	>50K Hrs.	2.63	1.52	1.32	1.14	0.91	0.66
328W	>50K Hrs.	2.73	1.58	1.37	1.18	0.95	0.68
345W	>50K Hrs.	2.88	1.66	1.44	1.25	0.99	0.72
351W	>50K Hrs.	2.93	1.69	1.46	1.27	1.01	0.73
363W	>50K Hrs.	3.03	1.75	1.51	1.31	1.05	0.76
381W	>50K Hrs.	3.18	1.83	1.59	1.38	1.10	0.79
387W	>50K Hrs.	3.23	1.86	1.61	1.40	1.12	0.81
399W	>50K Hrs.	3.33	1.92	1.66	1.44	1.15	0.83
423W	>50K Hrs.	3.53	2.03	1.76	1.53	1.22	0.88
429W	>50K Hrs.	3.58	2.06	1.79	1.55	1.24	0.89
441W	>50K Hrs.	3.68	2.12	1.84	1.59	1.27	0.92
460W	>50K Hrs.	3.83	2.21	1.92	1.66	1.33	0.96
466W	>50K Hrs.	3.88	2.24	1.94	1.68	1.34	0.97
479W	>50K Hrs.	3.99	2.30	2.00	1.73	1.38	1.00
498W	>50K Hrs.	4.15	2.39	2.08	1.80	1.44	1.04
504W	>50K Hrs.	4.20	2.42	2.10	1.82	1.45	1.05
511W	>50K Hrs.	4.26	2.46	2.13	1.84	1.47	1.06
517W	>50K Hrs.	4.31	2.49	2.15	1.87	1.49	1.08

EPA's (Ft.²)

Fixture Configuration	CCS7 ARM ⁷	DAVIT ARM ⁷
 1 @ 90°	2.5	1.6
 2 @ 180°	4.8	2.8
 2 @ 70°	3.8	2.2
 3 @ 90°	5.5	3.4
 4 @ 90° or 4 @ 70°	6.0	3.9

⁷ = EPA's shown include both the fixture and the mounting apparatus.

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ACCESSORIES (Order Separately)



CTA SM
Slide Mount Adaptor
(Required to Mount to Arms)



BTEC⁴
Integrated Bluetooth
Control Module
Casambi Ready Mesh
Network



PCR7
7-Pin Twist-Lock Photocell
Receptacle ANSI C136.41 and
Receptacle Shorting Cap
(Factory Installed)



STGA7L
Wi-Fi Ready Tablet /
Gateway Samsung Tab
A7 Lite



PC7
Multi-Tap (105-285V) Twist-
Lock Photocell



CER100⁵
Wireless Repeater

PC2
480V Twist-Lock Photocell

FIXTURE MOUNT MOTION SENSOR (IMS)

APPLICATION — The sensor is ideal for areas such as parking facilities, gas stations, pedestrian pathways, and warehouses. A choice of four lenses ensures complete coverage for mounting heights up to 40'.

OPERATION — Typically, the sensor ramps lighting On to the selected High mode level when motion is detected and the ambient light level is below the hold off setpoint. After the sensor stops detecting movement and the time delay elapses, lights fade to the Low mode level. If there is no motion during the subsequent cut off time delay, the lights will turn Off. For dusk to dawn control, the integral photocell can switch the lights On and Off based on the ambient light level so that lighting remains on overnight even without motion detection.

FEATURES —

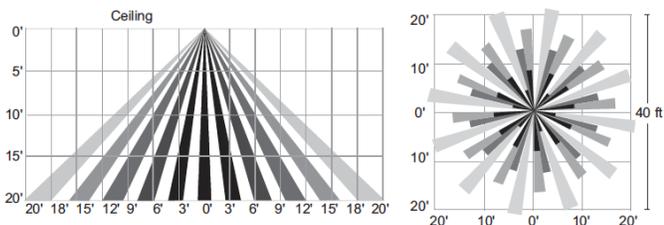
- Provides line voltage On/Off switching
- High and low modes fully adjustable from 0 to 10V
- Optional cut off delay
- Adjustable ramp up and fade down times
- Optional daylighting setpoints feature automatic calibration, or permit manual adjustment
- Polycarbonate construction; flame retardant, UV resistant, impact resistant, recyclable
- UL244A and UL508



MOTION SENSOR LENSES FIELD OF VIEW

TLWSFSP-L3

360° lens, maximum coverage 40' diameter from 20' height



TLWSFSP-L7

360° lens, maximum coverage 100' diameter from 40' height

