

Citadel-S Series LED



PROJECT NAME	
CATALOG #	
NOTES	

FEATURES

- > Remote Driver temperature up to 167°F (75°C)
- > Integrated Driver temperature up to 135°F (57°C)
- > UL Listed Drivers with less than 1% failure rate
- > Patent-pending remote driver minimizes fixture operating temperature without re-gridding required
- > Patent-pending design extends fixture life by helping prevent build-up of insulating dust and debris and eliminating illumination dead spots
- > Includes 10 Year Module Warranty - Full light engine or plug & play driver module replacement, rather than parts
- > Fail off 15KA transient voltage surge suppressor (TVSS) protects fixture against failure due to power supply surges
- > Optional motion sensor. Standard by Wattstopper with L7 lens (fig 1.1 & 1.2 on pg 3)
- > Dimmable 0-10V
- > UL 1598 listed
- > IP65 rated
- > BAA & BABA compliant

LUMINOUS OUTPUT, DIMENSIONS & WEIGHT

STANDARD TEMP -40°F - 130°F (-40°C - 55°C)			
WATTAGE	OUTPUT	LENGTH	WEIGHT
100 Watts	13,220 lumens	18in	18.039 lbs
150 Watts	21,600 lumens	18in	18.171 lbs
200 Watts	28,800 lumens	26in	21.439 lbs
250 Watts	36,000 lumens	34in	24.209 lbs
300 Watts	43,200 lumens	34in	24.629 lbs
400 Watts	57,600 lumens	50in	34.704 lbs
500 Watts	72,000 lumens	50in	34.704 lbs
600 Watts	86,400 lumens	68in	42.684 lbs
700 Watts	100,800 lumens	84in	47.539 lbs
800 Watts	115,200 lumens	92in	51.569 lbs
900 Watts	129,600 lumens	102in	54.339 lbs

SPECIFICATIONS

Power Factor.....>0.9 Available
 Wattages 100, 150, 200, 250, 300, 400, 500, 600, 700, 800, 900
 Kelvin Temperatures 4000K, 5000K
 Input Voltage 120/277V & 347/480V
 Performance Up to 160 lm/W
 Distribution 120°, 60° & Aisle
 Mount Type Suspension
 Color Rendering Index (4000K) >70 Color
 Rendering Index (5000K) >90

CITADEL-S ORDERING INFORMATION

SAMPLE ORDER NUMBER: CIT-1-150-40-2-6-1-1-2-X-X-X-6-2

SERIES	WATTAGE	CCT	OPTICS	LENS	FINISH	DRIVER VOLTAGE	REMOTE CABLE	MOTION SENSOR	BATTERY BACKUP	DLC	POWER CORD TYPE	CORD LENGTH
CIT-1	100	40-4000K	1-None	2- Flat Poly Clear ²	1 - Black	1- 120/277V	1-6'	X- No	X- No	X- N/A	1- whip 120-277V	1-6'
	150 ¹	50-5000K	2-60°	6- Tempered Glass		2- 240V DC	2-10'	1- Std ³	1- Yes	1- Std	2- whip 347-480V	2-12'
	200		4- Aisle			4- 347/480V	3-25'	2 - IOT ³		2- Prem	3- 125V 15amp Straight	
	250 ¹						4-50'				4- 125V 20amp Twistlock	
	300						5-100'				5- 250V 20amp Twistlock	
	400 ¹						6-200'				6- 277V 15amp Twistlock	
	500 ¹						7-500'				7- 277V 20amp Twistlock	
	600 ¹						8-1,000'				8- 480V 20amp Twistlock	
	700 ¹						9- Custom				9- 600V 20amp Twistlock	
	800 ¹						X- Integrated Driver				M- M12 3ft	
	900 ¹											

¹ Under review - DLC approval pending

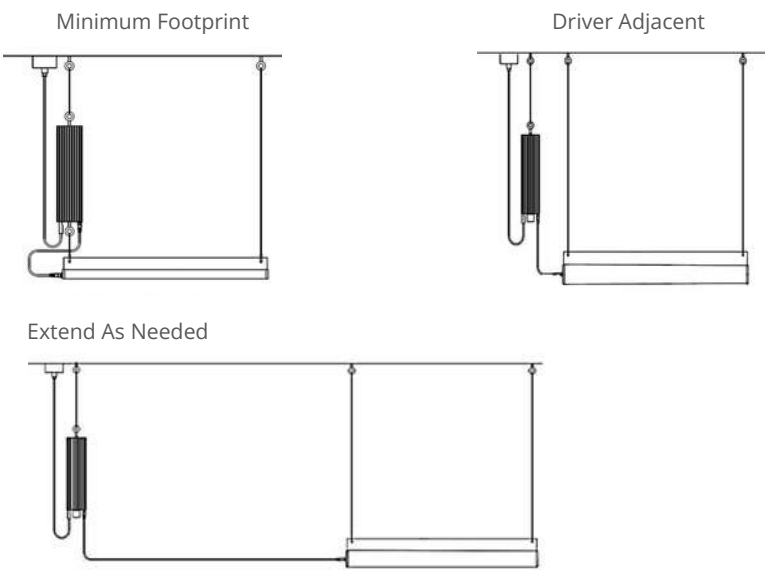
² Motion Sensor information: Standard (1) features sensors by Wattstopper with L7 lens.

³ Motion Sensor information: Standard (1) features sensors by Wattstopper with L7 lens. Internet of Things or IOT, (2) features sensors by Enlighted Sensors

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REMOTE DRIVER SYSTEMS

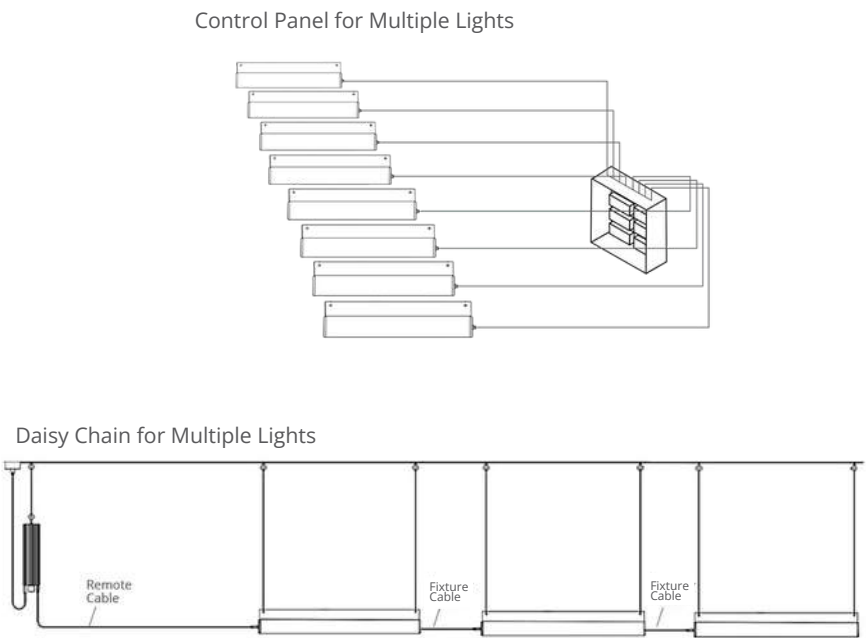
Tactik Lighting uses drivers that operate in ambient temperatures up to 167°F, while the light engine can handle up to 245°F. If temperatures exceed 167°F, the driver must be relocated to a cooler area within 10' to 1000' without voltage drop-off. The driver box can be mounted at ground level, ceiling level, or on a wall or strut. Its universal plug-and-play design ensures complete accessibility.



DAISY CHAIN & CONTROL PANEL OPTIONS

Our custom daisy chain configurations and custom control panel options allow you to power multiple fixtures with one driver, saving you money and space. And we can custom-mount your drivers at a height that best suits your environment.

Reach out to a manufacturing representative today for a custom quote for your facility.



CITADEL-S DAISY CHAIN ORDERING INFORMATION

ORDER NUMBER: CIT-1-100-40-2-6-1-4-5-X-X-X-4-2-3-2

SERIES	WATTAGE	CCT	OPTICS	LENS	FINISH	DRIVER VOLTAGE	REMOTE CABLE	MOTION SENSOR	BATTERY BACKUP	DLC	POWER CORD TYPE	CORD LENGTH	DAISY CHAIN	FIXTURE CABLE
CIT-1	100	40-4000K	1-None	2- Flat Poly Clear	1- Black	1- 120/277V	1 - 6'	X- No	X - No	X - N/A	1 - whip 120-277V	1 - 6'	2	1 - 6'
	150	50-5000K	2-60°	6- Tempered glass		2- 240V DC	2 - 10'	1- Std	1 - Yes	1 - Std	2 - whip 347-480V	2 - 12'	3	2 - 10'
	200		3- Aisle			4- 347/480V	3 - 25'	2 - IOT		2 - Prem	3 - 125V 15amp Straight		4	3 - 25'
	250						4 - 50'				4 - 125V 20amp Twistlock		5	4 - 50'
	300						5 - 100'				5 - 250V 20amp Twistlock			5 - 100'
	400						6 - 200'				6 - 277V 15amp Twistlock			6 - 200'
	500						7 - 500'				7 - 277V 20amp Twistlock			7 - 500'
	600						8 - 1,000'				8 - 480V 20amp Twistlock			8 - 1,000'
	700						9 - Custom				9 - 600V 20amp Twistlock			9 - Custom
	800						X- Integrated Driver				M - M12 3ft			
	900													

Note: 100 Watt Max Daisy Chain = 3. 150 Watt Max Daisy Chain = 2.

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OPTIONS & ACCESSORIES

> Emergency Battery Backup

OPERATION

When AC power fails, the EM series emergency LED driver immediately switches to the emergency mode, operating the LEDs at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency driver automatically returns to the charging mode.



EM-L2554-LBF
EM series
emergency LED Driver

EMERGENCY LUMEN OUTPUT EXAMPLE - 25 WATT BATTERY

Est Luminaire Efficacy	Est Lumens @ 1 Minute	Est Lumens @ 45 Minutes	Est Lumens @ 90 Minutes
140 LPW	3500	3500	3500
150 LPW	3750	3750	3750
160 LPW	4000	4000	4000

> Sensors

* All Motion sensor purchases come as a set, including a motion sensor and an L7 Wattstopper lens. Coverage includes up to 40' and the maximum temperature rating for the motion sensors is 165°F

fig 1.1



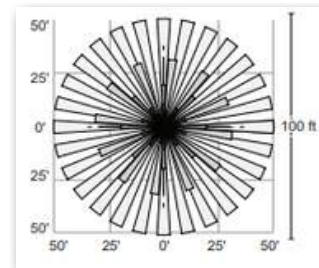
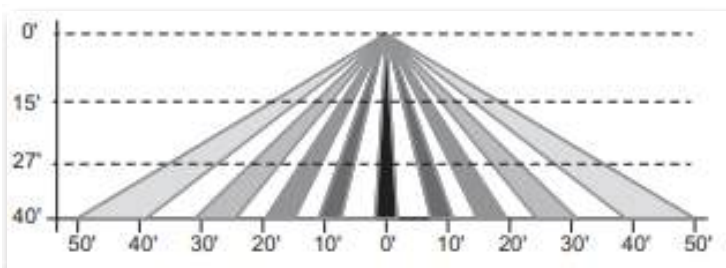
FSP-201
Wattstopper
with L7 lens

fig 1.2



FSP-L7
Wattstopper
with L7 lens

MOTION SENSOR COVERAGE



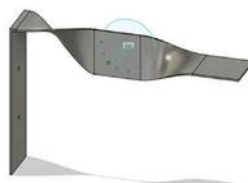
> Fixture Brackets & Mounting Options



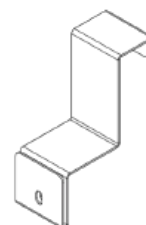
DB-Strut
Strut Mount
Driver Box



CIT-WM
Universal Swivel
Mount



CIT-WM2
Wall
Mount



CIT-PR1
Pallet Racking
Uplight



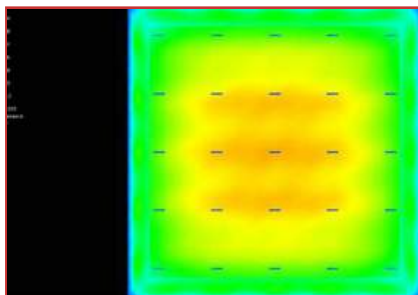
CIT-HU
Hanging
Uplight

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OPTICS INFORMATION

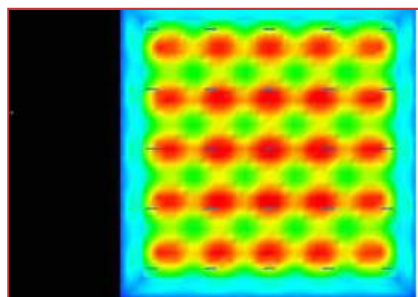
No Optics

- > Great for general illumination. No Optics are also great if you want to maximize horizontal light & to achieve uniform lighting overall. Ideal for 30 feet and below.



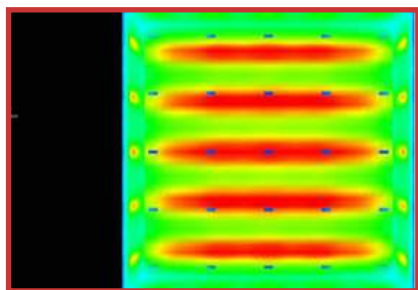
60 Degree Optics

- > Great for higher ceilings. Best used for fixtures mounted 30+ feet up. (This image captures a 25 foot mounting height).



Aisle Optics

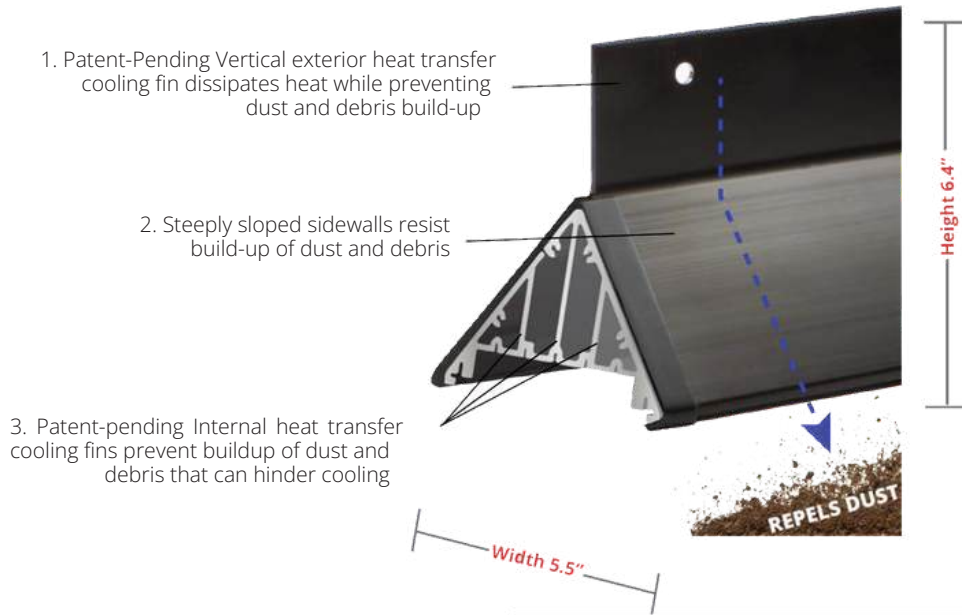
- > Great for racking. With Aisle Optics, light is not wasted in adjoining aisles. This means you can reduce the number of fixtures in your facility, or can substantially reduce wattage when switching from HID or Fluorescents to LED.



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PREVENT PREMATURE FIXTURE FAILURE

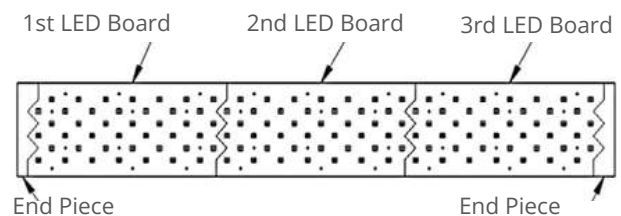
As dust & debris accumulate, they act as insulators. This causes internal temperatures to premature fixture failure. The Citadel Series' innovative design addresses this issue three different ways.



LED BOARD CONFIGURATIONS

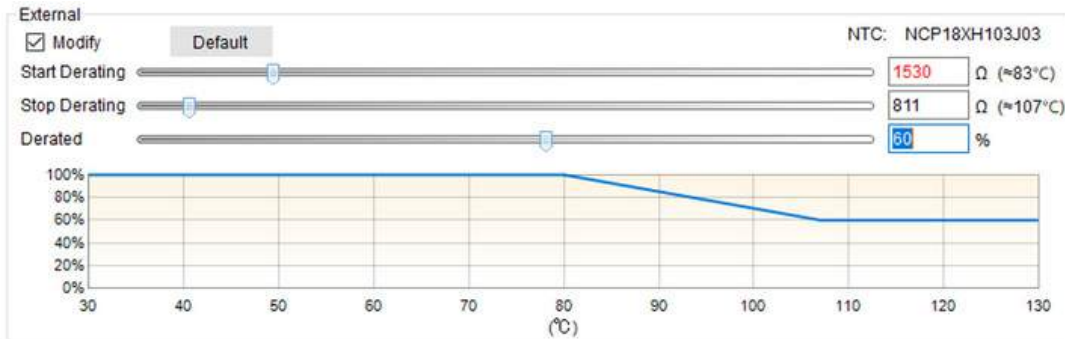
Patent-pending shark tooth design enables LED boards to be configured for any of 11 models, ranging from 100-900 Watts. The resulting array provides uniform light distribution with no dead spots.

Each 8" board has a maximum wattage of 75W. The higher the selected wattage of the fixture, the longer the fixture gets.



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EXTERNAL THERMISTOR DIMMING



* LEDs set to dim to 60% once the boards reach 108°C

LM80 REPORT

AMBIENT TEMPERATURE	DATA AVERAGES				
	OPERATING HOURS				
	0	6,000	9,000	12,000	13,000
55°C	100%	96.92%	95.99%	95.33%	95.08%
85°C	100%	96.33%	95.14%	94.21%	93.88%
105°C	100%	95.48%	93.97%	92.70%	92.31%

FLICKER TEST



REPORT

TEST CONDITIONS			
TEMPERATURE	VOLTAGE	POWERFACTOR	FREQUENCY
25.1°C	120.0 VAC	0.999	60Hz

OPERATIONAL DATA			
PACKAGE	INPUT WATTAGE	CCT	CIT-X LUMENS (LPW)
100W	89.24 W	4000K	13,220 (156)
		5000K	13,881 (139)
150W	153.3 W	4000K	21,600 (153)
		5000K	22,680 (151)
200W	203.6 W	4000K	32,900 (157)
		5000K	34,545 (165)
250W	258.0 W	4000K	36,000 (144)
		5000K	39,910 (151)
300W	299.0 W	4000K	42,820 (159)
		5000K	49,550 (159)
350W	348.7 W	4000K	57,793 (165)
		5000K	57,973 (165)
400W	398.4 W	4000K	66,050 (165)
		5000K	66,050 (165)

ADDITIONAL LITERATURE

Component Temperature Ratings

- > Cord(s): Up to 90°C (194°F)
- > Nylon Nut(s): Up to 121°C (250°F)
- > Polycarbonate Lens: Up to 138°C (280°F)
- > Motion Sensor: Up to 77°C (167°F)