

# RazrLites

A  Celeritas Lighting Group Brand

## LED LIGHTING



# 2017

## PRODUCTS CATALOG

[RAZRLITES.COM](http://RAZRLITES.COM)





V I S I T   U S   O N   T H E   W E B   A T :  
W W W . R A Z R L I T E S . C O M

WHEN YOU ARE THERE YOU CAN:

- CREATE A LOGIN PROFILE TO SEE YOUR DISTRIBUTOR PRICING
- PRINT BROCHURES, TECHNICAL SHEETS, AND INSTALLATION INSTRUCTIONS
- PLACE ORDERS
- FIND OUT WHAT'S NEW AT RAZRLITES!

LED Tubes	5-10
RazrFlex LED Tube Retrofit Kits	11-13
LEDPRO LED Tube Retrofit Kits	14-18
LED Flat Panel	20-23
LED Tube Complete Fixtures	24-30
LED Small Wall Mount	31-32
LED Full Cutoff Wall Pack	33-34
Medium LED Wall Pack	35-36
Large LED Wall Pack	37-38
K Series Outdoor Fixtures	39-51
K Series Indoor Fixtures	52-54
K Series High Output Outdoor Fixtures	55-60
K Series Accessories	62-65
Exit & Emergency Lighting	66
Warranty	67



**DIRECT WIRE - AC LED T8 POLY/ALUMINUM TUBE**

**FEATURES**

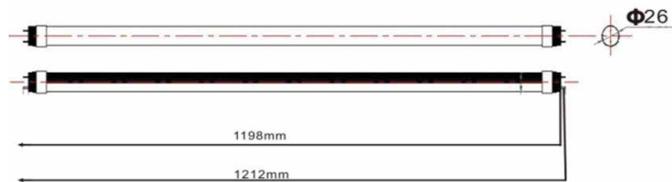
- T8, T10, or T12 tube for replacement
- Environmentally friendly with no mercury
- Built-in driver for easy installation
- High lumen efficiency & high CRI
- Built with Samsung LED Chips
- Five years limited warranty
- UL Classified & DLC Certified
- Not dimmable



**SPECIFICATIONS**

Model	Input	Frequency	Wattage	PF	CCT	CRI	Lumen
ST8LED-48-18W	100-277V	50-60Hz	18W	> 90	4000K-5000K	>80	2100
ST8LED-24-9W	100-277V	50-60Hz	9W	>90	4000K-5000K	> 80	1100

**DIMENSIONS**



Nominal length: 48"      Pin to pin: 47.7"  
 Base to base: 47.2"       $\phi = 1.0"$

**ORDERING INFORMATION**

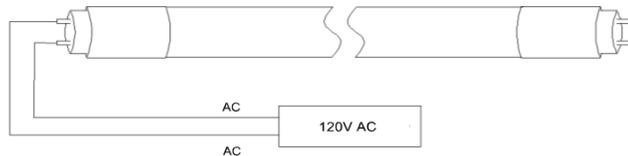
Example: ST8LED-18w-50K-C

Product ID	Power (W)	Color Temp	Lens Type
ST8LED	18	40K	C
	18W	=4000K	=CLEAR
9	9W	50K	F
		=5000K	=FROSTED

**INSTALLATION**

**Warning:** LED tubes cannot be used with shunted sockets. Use with bi-pin rapid start sockets only

1. Make sure that the supply voltage (input) is disconnected
2. Remove existing fluorescent lamp
3. Remove electronic ballast, starter, and/or capacitor
4. Rewire the light fixture as shown in the circuit diagram
5. One side will have "AC" to indicate the side for input
6. Insert LED tube into lamp socket



**DUAL MODE - BALLAST COMPATIBLE OR BYPASS T8 LED PC/AULM. TUBE**

**GENERAL SPECIFICATIONS**

- Name: Dual Mode LED Tube
- Model Number: ST8DUALLED-18W-50K-F
- LED Type/Qty: SMD2835/105pcs
- Power: 18 Watts
- Product Size: 1198mm\*26mm
- Lumen Flux: 1900LM
- Color Temp.: 3000K,4000K,5000K
- Main Material: Alu+PC Cover
- Beam Angle: 130°-165°
- Warranty: 5 Years
- Lifespan: 50,000 Hours
- Also Available in 2' configuration



**ELECTRICAL SPECIFICATIONS**

- Driver Type: Internal Ballast Compatible or Bypass
- Input Voltage: AC100-277V
- Frequency: 50/60Hz
- Power Factor: >0.9

**APPLICATION**

- Application: Indoor use
- Environment: -20°C~40°C/10%~90%RH

**CERTIFICATION**

- Certification: UL,cUL, FCC

**PACKING**

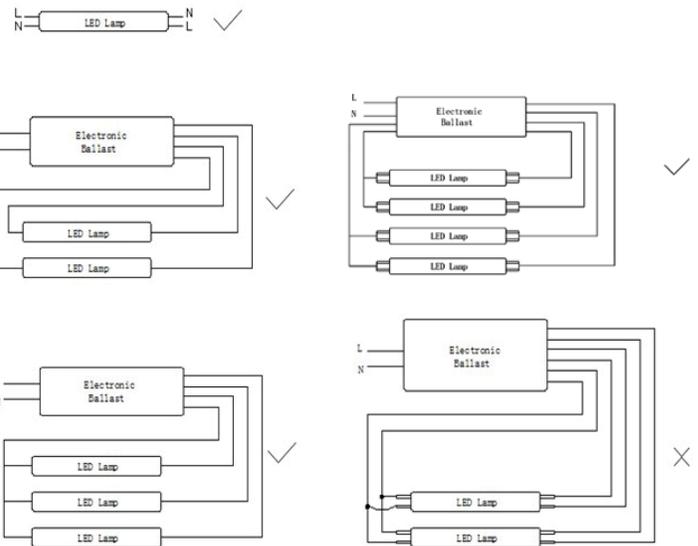
- Package: 25pcs/carton
- Package Size: 1270\*210\*225mm
- Gross Weight: 10.30 kg/carton

**Features:**

- Original LED lighting manufacturer
- Multi-ballast compatible, or bypass.
- Double insulated driver
- Retrofit kits available for direct replacement of T8, T10, or T12 tube for replacement
- Energy savings up to 60%
- Frosted PC Cover
- Not dimmable

**Remarks:**

- Suitable for damp locations
- Suitable to use in UL & cUL approved enclosed fixtures
- Used only with fluorescent luminaries



**ORDERING INFORMATION**

Example: ST8DUALLED-20w-50K-F

Product ID	Power (W)	Color Temp	Lens Type
ST8DUALLED	20	40K	C
	20W	=4000K	=CLEAR
		50K	F
		=5000K	=FROSTED



**BALLAST COMPATIBLE T8 LED POLY/ALUMINUM TUBE**

**GENERAL SPECIFICATIONS**

Name	Ballast Compatible LED Tube
Model Number	ST8BCLED-18W-50K-F
LED Type/Qty	SMD2835/105pcs
Power	18 Watts
Product Size	1198mm*26mm
Lumen Flux	1850LM
Color Temp.	3000K,4000K,5000K
Main Material	Alu+PC Cover
Beam Angle	130°-165°
Warranty	5 Years
Lifespan	50,000 Hours

Also available in 2' configuration



**ELECTRICAL SPECIFICATIONS**

Driver Type	Built-in, ballast compatible
Input Voltage	AC100-277V
Frequency	50/60Hz
Power Factor	>0.9

**APPLICATION**

Application	Indoor use
Environment	-20°C~40°C/10%~90%RH

**CERTIFICATION**

Certification	UL,cUL,DLC, FCC
UL Code	E348899 E348900

**PACKING**

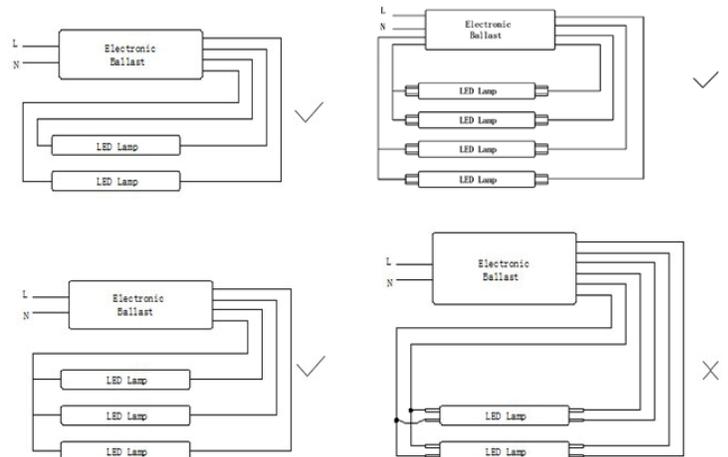
Package	25pcs/carton
Package Size	1270*210*225mm
Gross Weight	10.30 kg/carton

**Features:**

- Original LED lighting manufacturer
- Multi-ballast compatible, no need for rewiring.
- Double insulated driver
- Retrofit kits available for direct replacement of T8, T10, or T12 tube for replacement
- Energy savings up to 60%
- Frosted PC Cover
- Not dimmable

**Remarks:**

- Suitable for damp locations
- Suitable to use in UL & cUL approved enclosed fixtures
- Used only with fluorescent luminaries



**ORDERING INFORMATION**

Example: ST8BCLED-18w-40K-F

Product ID	Power (W)	Color Temp	Lens Type
ST8BCLED	18	40K	C
	18W	=4000K	=CLEAR
		50K	F
		=5000K	=FROSTED

**DIRECT WIRE - AC T8 LED TUBE - GLASS**

**GENERAL SPECIFICATIONS**

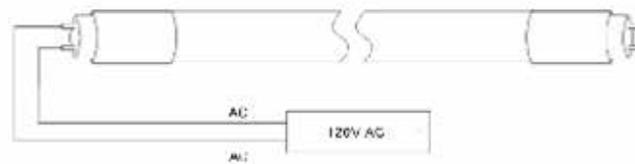
Name	Direct Line LED Tube
Model Number	ST8LED-15W-50K-G
LED Type/Qty	SMD2835/92pcs
Power	15 Watts
Product Size	1198mm*26mm
Lumen Flux	1900LM
Color Temp.	3000K,4000K,5000K
Main Material	GLASS
Beam Angle	300°
Warranty	5 Years
Lifespan	50,000 Hours

Also available in 2' configuration



**ELECTRICAL SPECIFICATIONS**

Driver Type	Built-in
Input Voltage	AC100-277V
Frequency	50/60Hz
Power Factor	>0.9



**APPLICATION**

Application	Indoor use
Environment	-20°C~40°C/10%~90%RH

**CERTIFICATION**

Certification	UL,cUL,DLC, FCC
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**PACKING**

Package	25pcs/carton
Package Size	1270*210*225mm
Gross Weight	10.30 kg/carton

**Features:**

- Original LED lighting manufacturer
- Double insulated driver
- Retrofit kits available for direct replacement of T8, T10, or T12 tube for replacement Energy savings up to 60%
- Frosted Glass Cover
- Not dimmable

**Remarks:**

- Suitable for damp locations
- Suitable to use in UL & cUL approved enclosed fixtures
- Used only with fluorescent luminaries

**ORDERING INFORMATION**

Example: ST8BCLED-15w-40K-F

Product ID	Power (W)	Color Temp	Lens Type
ST8LED	15	40K	G =GLASS
	15W	=4000K	
		50K	
		=5000K	



DUAL MODE T8 LED TUBE - GLASS

**GENERAL SPECIFICATIONS**

Name	Dual Mode LED Tube
Model Number	ST8DUALLED-15W-50K-G
LED Type/Qty	SMD2835/105 pcs
Power	15 Watts
Product Size	1198mm*26mm
Lumen Flux	1900LM
Color Temp.	3000K,4000K,5000K
Main Material	GLASS
Beam Angle	300°
Warranty	5 Years
Lifespan	50,000 Hours

Also available in 2' configuration



**ELECTRICAL SPECIFICATIONS**

Driver Type	Built-in, ballast compatible
Input Voltage	AC100-277V
Frequency	50/60Hz
Power Factor	>0.9

**APPLICATION**

Application	Indoor use
Environment	-20°C~40°C/10%~90%RH

**CERTIFICATION**

Certification	UL,cUL,DLC, FCC
UL Code	E348899 E348900

**PACKING**

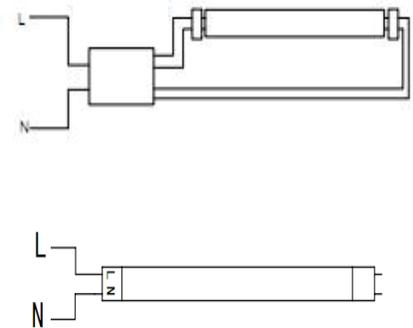
Package	25pcs/carton
Package Size	1270*210*225mm
Gross Weight	10.30 kg/carton

**Features:**

- Original LED lighting manufacturer
- Multi-ballast compatible, no need for rewiring.
- Double insulated driver
- Retrofit kits available for direct replacement of T8, T10, or T12 tube for replacement
- Energy savings up to 60%
- Frosted Glass Cover
- Not dimmable

**Remarks:**

- Suitable for damp locations
- Suitable to use in UL & cUL approved enclosed fixtures
- Used only with fluorescent luminaires



**ORDERING INFORMATION**

Example: ST8DUALLED-15w-40K-G

Product ID	Power (W)	Color Temp	Lens Type
ST8DUALLED	15	40K	G
	15W	=4000K	=GLASS
		50K	
		=5000K	

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**BALLAST COMPATIBLE T8 LED TUBE - GLASS**

**GENERAL SPECIFICATIONS**

Name	Ballast Compatible LED Tube
Model Number	ST8BCLED-15W-50K-G
LED Type/Qty	SMD2835/96 pcs
Power	15 Watts
Product Size	1198mm*26mm
Lumen Flux	1725LM
Color Temp.	3000K,4000K,5000K
Main Material	GLASS
Beam Angle	300°
Warranty	5 Years
Lifespan	50,000 Hours

Also available in 2' configuration



**ELECTRICAL SPECIFICATIONS**

Driver Type	Built-in, ballast compatible
Input Voltage	AC100-277V
Frequency	50/60Hz
Power Factor	>0.9

**APPLICATION**

Application	Indoor use
Environment	-20°C~40°C/10%~90%RH

**CERTIFICATION**

Certification	UL,cUL,DLC, FCC
UL Code	E348899 E348900

**PACKING**

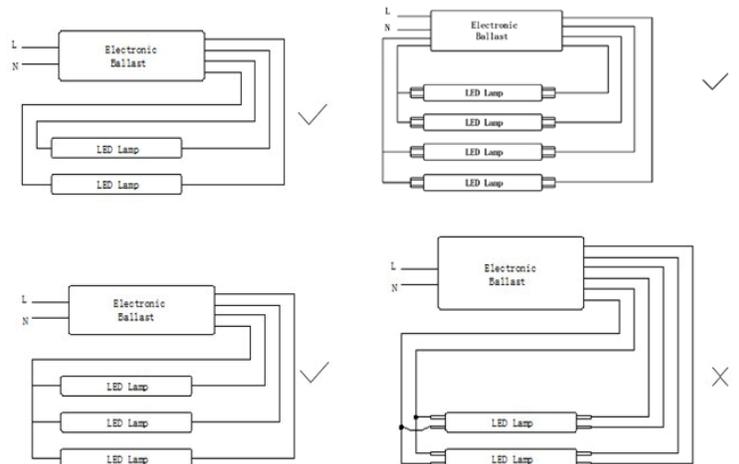
Package	25pcs/carton
Package Size	1270*210*225mm
Gross Weight	10.30 kg/carton

**Features:**

- Original LED lighting manufacturer
- Multi-ballast compatible, no need for rewiring.
- Double insulated driver
- Retrofit kits available for direct replacement of T8, T10, or T12 tube for replacement
- Energy savings up to 60%
- Frosted Glass Cover
- Not dimmable

**Remarks:**

- Suitable for damp locations
- Suitable to use in UL & cUL approved enclosed fixtures
- Used only with fluorescent luminaries



**ORDERING INFORMATION**

Example: ST8BCLED-15w-40K-F

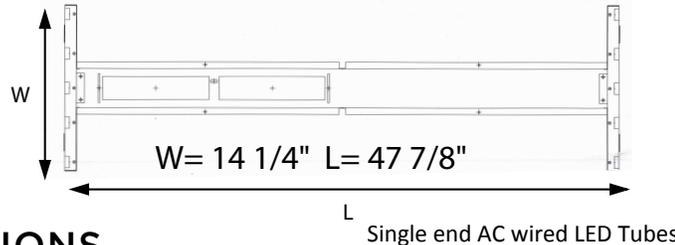
Product ID	Power (W)	Color Temp	Lens Type
ST8BCLED	15	40K	G
	15W	=4000K	=GLASS
		50K	
		=5000K	

**LED TUBE RAZR-FLEX KIT FOR 2X2 AND 2X4 LAY-IN FIXTURES**



**FEATURES**

- One piece bracket installs in one motion
- Pre-Wired and Pre-Loaded with fasteners for fast installation
- Universal bracket accepts 1-5 LED Tubes
- Celeritas T8 Ballast by-pass (single ended) LED Tubes
- Bi-level switching available



**LED TUBE SPECIFICATIONS**

Model No.	Input	Frequency	Wattage	PF	CCT	CRI	LUMEN
ST8LED-15W-XXK-F	100-277V	50-60Hz	15W	>0.90	4000K-5000K	80	1900
ST8LED-9W-XXK-F	100-277V	50-60Hz	9W	>0.90	4000K-5000K	80	1100

**RAZR FLEX KITS**

Size	# of LED Tubes	Total Watts	Total Lumens
2'x4'	4	60	7600
2'x4'	3	45	5700
2'x4'	2	30	3800
2'x2'	3	27	3300
2'x2'	2	18	2200



**INCLUDED PARTS**

- 1-4 UL & DLC certified T8 LED Tubes
- One-piece Razr-Flex kit-Pre-wired with sockets
- UL Warning Sticker already on Kit

**INSTALLATION OVERVIEW**

1. Make sure that the supply voltage (input) is disconnected
2. Remove existing fluorescent lamp
3. Remove electronic ballast, starter, and/or capacitor
4. Remove existing brackets
5. Install supplied luminaire disconnect
6. Plug in and then install the one piece bracket into fixture by bending in the middle and pushing upward until kit is flush with fixture body
7. Drive in pre-loaded fasteners on kit to permanently fasten to fixture body
8. Install lamps, close the door frame, and restore power to the fixture
9. Turn on the fixture and start saving!

**ORDERING INFORMATION**

Product ID	# of Lamps	Fixture Length in Feet	Wattage	Color Temp.
RFLT	1	4	15w	40K =4000K
	2	2	9w	50K =5000K

Example: Part# RFLT 2-4-15W-40K

US Patent Pending

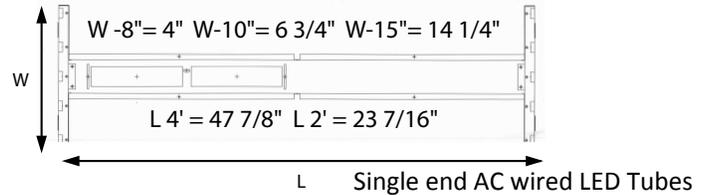
**Warning:** LED tubes cannot be used with shunted sockets. USE ONLY THE SOCKETS INCLUDED IN THE RETROFIT KIT.

**LED TUBE RAZR-FLEX KIT FOR SURFACE MOUNTED WRAP FIXTURES**



**FEATURES**

- One piece bracket installs in one motion
- Pre-Wired and Pre-Loaded with fasteners for fast installation
- Universal bracket accepts 1-5 LED Tubes
- Celeritas T8 Ballast by-pass (single ended) LED Tubes
- Bi-level switching available



**LED TUBE SPECIFICATIONS**

Model No.	Input	Frequency	Wattage	PF	CCT	CRI	LUMEN
ST8LED-15W-XXK-F	100-277V	50-60Hz	15W	>0.90	4000K-5000K	80	1900
ST8LED-9W-XXK-F	100-277V	50-60Hz	9W	>0.90	4000K-5000K	80	1100

**RAZR FLEX KITS**

Size	# of LED Tubes	Total Watts	Total Lumens
RFLW 4'	4	60	7600
RFLW 4'	3	45	5700
RFLW 4'	2	30	3800
RFLW 2'	3	27	3300
RFLW 2'	2	18	2200



**INCLUDED PARTS**

- 1-4 UL & DLC certified T8 LED Tubes
- One-piece Razr-Flex kit-Pre-wired with sockets
- UL Warning Sticker already on Kit

**INSTALLATION OVERVIEW**

1. Make sure that the supply voltage (input )is disconnected
2. Remove existing flurescent lamp
3. Remove electronic ballast, starter, and/or capacitor
4. Remove existing brackets
5. Install supplied luminiare disconnect
6. Plug in and then install the one piece bracket into fixture by bending in the middle and pushing upward until kit is flush with fixture body
7. Drive in pre-loaded fasteners on kit to permanently fasten to fixture body
8. Install lamps, close the door frame, and restore power to the fixture
9. Turn on the fixture and start saving!

**ORDERING INFORMATION**

Product ID	# of Lamps	Fixture Length in Feet	Wattage	Color Temp.
RFLW8	1	4	15w	40K =4000K
RFLW10	2	2	9w	50K =5000K
RFLW15	3	Example: Part# RFLW15 2-4-15W-40K		
	4			

US Patent Pending

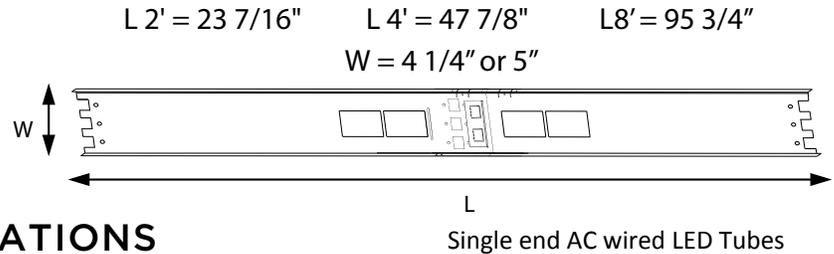
**Warning:** LED tubes cannot be used with shunted sockets.  
USE ONLY THE SOCKETS INCLUDED IN THE RETROFIT KIT.

LED TUBE RAZR-FLEX KIT FOR 4' AND 8' STRIP CHANNEL FIXTURES



**FEATURES**

- Two piece pan cover installs in one motion
- Hinged for FAST Installation
- Universal bracket accepts 1-6 LED Tubes
- Celeritas T8 Ballast by-pass (single ended) LED Tubes
- Bi-level switching available



**LED TUBE SPECIFICATIONS**

Model No.	Input	Frequency	Wattage	PF	CCT	CRI	LUMEN
ST8LED-18W-XXK-F	100-277V	50-60Hz	18W	>0.90	4000K-5000K	80	2200
ST8LED-9W-XXK-F	100-277V	50-60Hz	9W	>0.90	4000K-5000K	80	1100

**RAZR FLEX KITS**

Size	# of LED Tubes	Total Watts	Total Lumens
4'	1	18	2200
4'	2	36	4400
4'	3	54	6600
8'	2	36	4400
8'	4	72	8800
8'	6	108	13200



**INCLUDED PARTS**

- 1-6 UL & DLC certified T8 LED Tubes
- Razr-Flex kit Pre-wired with sockets installed
- UL Warning Sticker already on Kit

**INSTALLATION OVERVIEW**

1. Make sure that the supply voltage (input) is disconnected
2. Remove existing flurescent lamp
3. Remove electronic ballast, starter, and/or capacitor
4. Remove existing brackets
5. Install supplied luminiare disconnect
6. Holding one 4' section (sockets facing down), connect the two pans by inserting the tab into the slot (second 4' section should hang at a 90° angle).
7. Place horizontal 4' section over strip fixture and secure with preloaded screw.  
Raise the other 4' section to cover the other end of the strip fixture and secure with the preloaded screws
8. Install lamps, close the door frame, and restore power to the fixture
9. Turn on the fixture and start saving!

2' kits available

**ORDERING INFORMATION**

Product ID	# of Lamps	Fixture Length in Feet	Wattage	Color Temp.
RFLS5*	1	2	9w	40K =4000K
RFLS4*	2	4	18w	50K =5000K
	3	8		
	4			
	6			

Example: Part# RFLS5-4-8-18W-50K  
\*Kit can be ordered for 4.25" or 5" channels  
5" kit fitted with universal tabs to mount on 4.25" channel

US Patent Pending

**Warning:** LED tubes cannot be used with shunted sockets.  
USE ONLY THE SOCKETS INCLUDED IN THE RETROFIT KIT.

### LED TUBE • RETROFITS

#### T8LED-48-18W



Nominal length: 48"  
Pin to pin: 47.7"  
Base to base: 47.2"

#### FEATURES:

- ▶ 2 & 4 Foot LED tubes for T8 & T12 Replacement
- ▶ Environmentally friendly with no mercury
- ▶ Built-in driver for easy installation
- ▶ High lumen efficiency & high CRI
- ▶ Five years limited warranty



ORDER INFO	Model	Input	Frequency	Wattage	PF	CCT	CRI	Lumen
	ST8LED-48-18W	100-277V	50-60Hz	18W	> 0.90	5000K	> 70	2100
ST8LED-24- 9W	100-277V	50-60Hz	9W	> 0.90	5000K	> 70	1100	

All kits include engineered brackets, sockets, luminaire quick-connects, fasteners, and 1598C UL/ ETL conversion labels and LED Tubes

Kit comes pre-wired for quick install



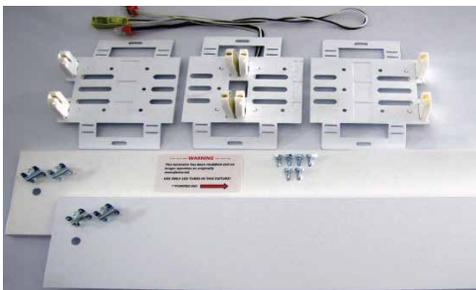
#### LEDPRO TROFFER KITS



#### LEDPRO WRAP KITS



#### LEDPRO STRIP KITS



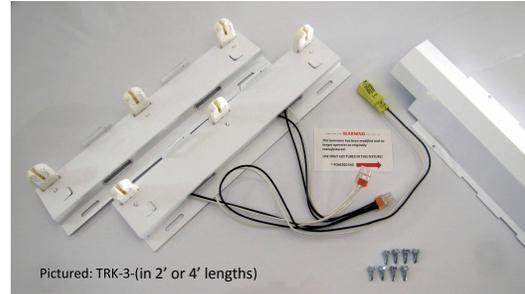
#### LEDPRO VAPORTIGHT KITS



**TRK LED Tube Retrofit Kits for Lay-In Fixtures**

**FEATURES**

- T8 tube for fluorescent replacement
- Environmentally friendly with no mercury
- Built-in driver for easy installation
- High lumen efficiency & high CRI
- Built with Samsung LED Chips
- Five years limited warranty



**LED Tube Specifications**

Model	Input	Frequency	Wattage	PF	CCT	CRI	Lumen
ST8LED-48-15W	100-277V	50-60Hz	15W	> 90	4000K-5000K	80	1900
ST8LED-24-9W	100-277V	50-60Hz	9W	>90	4000K-5000K	80	1100



**LED Pro Lay-in Fixture Kits**

Part (tube/length)	# of LED Tubes	Total Watts	Total Lumens
TRK-4-4'	4	60	7600
TRK-3-4'	3	45	5700
TRK-2-4'	2	30	3800
TRK-4-2'	4	36	4400
TRK-3-2'	3	27	3300
TRK-2-2'	2	18	2200
TRKN-1-4'	1	15	1900
TRKN-2-4'	2	30	3800
TRKN-1-2'	1	18	1100
TRKN-2-2'	2	36	2200



USE TRKP if the fixture is parabolic

**Included Parts**

- 1-4 UL & DLC certified T8 LED Tubes
- 2 End Brackets and required fasteners for each one
- 2 un-shunted 600W/600V sockets per LED tube
- Quick-disconnect for AC wiring
- UL 1598C required warning sticker
- Wire Cover

**Installation**

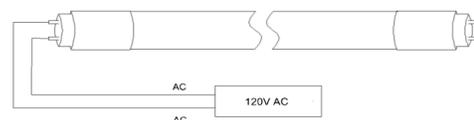
**Warning:** LED tubes cannot be used with shunted sockets. USE ONLY THE SOCKETS INCLUDED IN THE RETROFIT KIT.

1. Make sure that the supply voltage (input) is disconnected
2. Remove existing fluorescent lamp
3. Remove electronic ballast, starter, and/or capacitor
4. Remove existing brackets and install new kit brackets with supplied un-shunted sockets
5. Rewire the light fixture as shown in the circuit diagram
6. Apply warning sticker with arrow facing AC power input side
7. Install wire cage
8. Insert LED tube into lamp socket

**ORDERING INFORMATION**

Example: TRK-2-4-15w-H=40K-L

Product ID	# of Lamps	Fixture Length in Feet	Wattage	Lumen Output	Color Temp.	Low Profile Sockets
TRK Prismatic	1	2	15w	H	40K =4000K	L
TRKN Narrow	2	4	9w		50K =5000K	
TRKP Prismatic	3					



**WRK LED Tube Retrofit Kits for Wrap Fixtures**

**FEATURES**

- 4 foot T8 tube for F32T8 replacement
- Environmentally friendly with no mercury
- Built-in driver for easy installation
- High lumen efficiency & high CRI
- Built with Samsung LED Chips
- Five years limited warranty



Pictured: WRK15-4-4 (in 2' or 4' lengths)

**LED Tube Specifications**

Model	Input	Frequency	Wattage	PF	CCT	CRI	Lumen
ST8LED-48-15W	100-277V	50-60Hz	15W	> 0.90	4000K-5000K	80	1900
ST8LED-24-9W	100-277V	50-60Hz	9W	> 0.90	4000K-5000K	80	1100



**LED Pro Wrap Kits**

Wrap Width	# of LED Tubes	Total Watts	Total Lumens
WRK15"	4	60	7600
WRK15"	3	45	5700
WRK15"	2	30	3800
WRK10"	3	45	5700
WRK10"	2	30	3800
WRK10"	1	15	1900
WRK8"	2	30	3800
WRK8"	1	15	1900



**Included Parts**

- 1-4 UL & DLC certified T8 LED Tubes
- 2 End Brackets and required fasteners for each one
- 2 un-shunted 600W/600V sockets per LED tube
- Quick-disconnect for AC wiring
- UL 1598C required warning sticker
- Wire cover

**Installation**

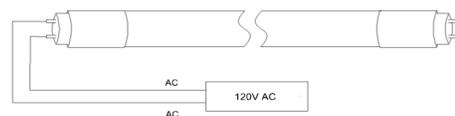
**Warning:** LED tubes cannot be used with shunted sockets. USE ONLY THE SOCKETS INCLUDED IN THE RETROFIT KIT.

1. Make sure that the supply voltage (input) is disconnected
2. Remove existing fluorescent lamp
3. Remove electronic ballast, starter, and/or capacitor
4. Remove existing brackets and install new kit brackets with supplied un-shunted sockets
5. Rewire the light fixture as shown in the circuit diagram
6. Apply warning sticker with arrow facing AC power input side
7. Install wire cage
8. Insert LED tube into lamp socket

**ORDERING INFORMATION**

Example: WRK10-2-4-15w-40K-L

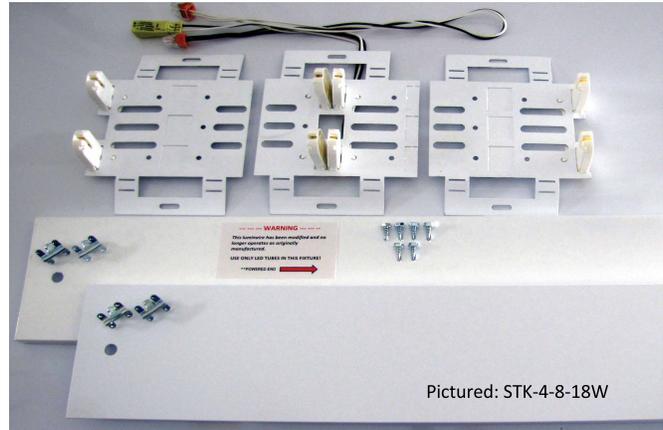
Product ID	# of Lamps	Fixture Length in Feet	Wattage	Lumen Output	Color Temp.	Low Profile Sockets
WRK8	1	4	15w	H	40K =4000K	L
WRK10	2	8	9w		50K =5000K	
WRK15	3					
	4					



STK-4 and STK-8 LED Tube Retrofit Kits for Strip Fixtures

**FEATURES**

- 4 foot T8 tube for F32T8 replacement
- Environmentally friendly with no mercury
- Built-in driver for easy installation
- High lumen efficiency & high CRI
- Built with Samsung LED Chips
- Five years limited warranty



Pictured: STK-4-8-18W

**LED Tube Specifications**

Model	Input	Frequency	Wattage	PF	CCT	CRI	Lumen
ST8LED-48-18W	100-277V	50-60Hz	18W	> 0.90	4000K-5000K	80	2100
ST8LED-24-9W	100-277V	50-60Hz	9W	>90	4000K-5000K	80	1100



**LED Pro Strip Channel Kits**

Length	# of LED Tubes	Total Watts	Total Lumens
4'	2	36	4200
4'	1	18	2100
8'	4	72	8400
8'	2	36	4200



**Included Parts**

- 1-4 UL & DLC certified T8 LED Tubes
- 2 End Brackets and required fasteners for each one
- 2 un-shunted 600W/600V sockets per LED tube
- Quick-disconnect for AC wiring
- 1-2 Ballast covers and required fasteners (5" standard width available in 4.25")
- UL 1598C required warning sticker
- Wire Cover

**Installation**

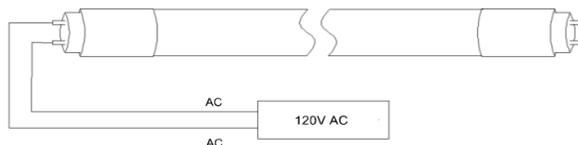
**Warning:** LED tubes cannot be used with shunted sockets. USE ONLY THE SOCKETS INCLUDED IN THE RETROFIT KIT.

1. Make sure that the supply voltage (input) is disconnected
2. Remove existing fluorescent lamp
3. Replace existing ballast cover with the new ballast cover and install using the provided half-turn fasteners
4. Remove electronic ballast, starter, and/or capacitor
5. Remove existing brackets and install new kit brackets with supplied un-shunted sockets
6. Rewire the light fixture as shown in the circuit diagram
7. Install wire cage
8. Apply warning sticker with arrow facing AC power input side
9. Insert LED tube into lamp socket

**ORDERING INFORMATION**

Example: STK-4-8-18w-H=50K

Product ID	# of Lamps	Fixture Length in Feet	Wattage	Lumen Output	Color Temp.
STK	1	4	18w	H	40K =4000K
	2	8	9w		50K =5000K
	4				



VTK-4 and VTK-8 LED Tube Retrofit Kits for Tight Fixtures

**FEATURES**

- 4 foot T8 tube for F32T8 replacement
- Environmentally friendly with no mercury
- Built-in driver for easy installation
- High lumen efficiency & high CRI
- Built with Samsung LED Chips
- Five years limited warranty



Pictured: VTK-2-4

**LED Tube Specifications**

Model	Input	Frequency	Wattage	PF	CCT	CRI	Lumen
ST8LED-48-18W	100-277V	50-60Hz	18W	> 0.90	4000K-5000K	80	2100
ST8LED-24-9W	100-277V	50-60Hz	9W	>90	4000K-5000K	80	1100



**LED Pro Wrap Kits**

Length	# of LED Tubes	Total Watts	Total Lumens
4'	2	36	4200
4'	1	18	2100
8'	4	72	8400
8'	2	36	4200



**Included Parts**

- 1-4 UL & DLC certified T8 LED Tubes
- 2 End Brackets and required fasteners for each one
- 2 un-shunted 600W/600V sockets per LED tube
- Quick-disconnect for AC wiring
- UL 1598C required warning sticker

**Installation**

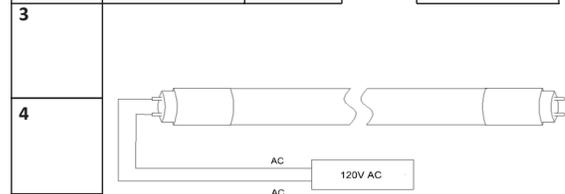
**Warning:** LED tubes cannot be used with shunted sockets. USE ONLY THE SOCKETS INCLUDED IN THE RETROFIT KIT.

1. Make sure that the supply voltage (input) is disconnected
2. Remove existing fluorescent lamp
3. Remove electronic ballast, starter, and/or capacitor
4. Remove existing brackets and install new kit brackets with supplied un-shunted sockets
5. Rewire the light fixture as shown in the circuit diagram
6. Apply warning sticker with arrow facing AC power side
7. Install wire cage
8. Insert LED tube into lamp socket

**ORDERING INFORMATION**

Example: VTK-1-4-18w-H=50K

Product ID	# of Lamps	Fixture Length in Feet	Wattage	Lumen Output	Color Temp.
VTK	1	4	18w	H	40K =4000K
	2	8	9w		50K =5000K



LED FIXTURES

UL PANEL LIGHT

LDIT



DIRECT/INDIRECT TROFFER

LDIT



NARROW LENS STRIP

LSCL



LED TUBE FIXTURE

LPBT



LED TUBE FIXTURE

LPT



LED TUBE FIXTURE

LWR



LED TUBE FIXTURE

LSC



LED TUBE FIXTURE

LVT



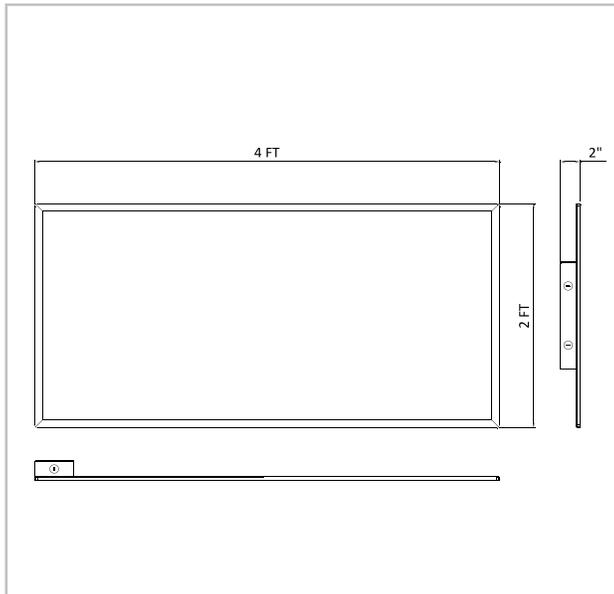
VT1  
VAPOR TIGHT

ACEVEL - A CELERITAS LIGHTING GROUP BRAND

**ACEVEL** LED Panel Light

Light Dream, Light Future

**UL Panel Light ( PL2448-UL-D03 )**



**PRODUCT INTRODUCTION**

- LED panel light with high brightness LED as light source, suitable for office, school, hospital, hotel, cafe, home interior, can directly replace the traditional fluorescent lamps, saving 70% energy.
- Aluminum heat-sink ensures good heat dissipation. Adopting diffusion plate with more than 90% light transmittance creates uniformity of light, no shadow, no dark.
- The use of accurate laser engraving of the light guide plate decreases the loss of light and ensures higher efficiency. High luminous ,energy efficient (110Lm/W delivered at 4000K)



**SPECIFICATION**

Wattage: 60W  
 Color Temperature: 4000K / 4500K / 5000K  
 CRI: Ra80  
 Driver: Input voltage 100-277V, PF>0.9  
 Dimming: 0-10V 1-10V PWM dimmable / no dimmable

**FEATURES**

Product surface color : silver, white  
 Light-emitting-diode recessed  
 Suitable for dry locations

**STANDARD(S) TANDARD(S) FOR SAFETY**

UL 1598 & CSA C22.2 NO 250.0-08, Luminaires.  
 UL 8750, Light Emitting Diode (LED) Equipment for Use in Lighting Products.  
 CSA C22.2 No. 250.13, Light Emitting Diode (LED) Equipment for Lighting Applications.

ACEVEL - A CELERITAS LIGHTING GROUP BRAND

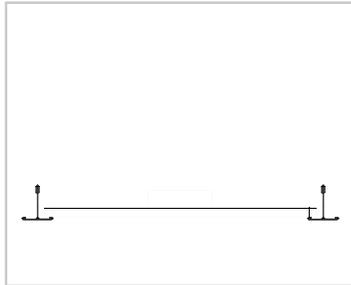
**ACEVEL** LED Panel Light

Light Dream, Light Future

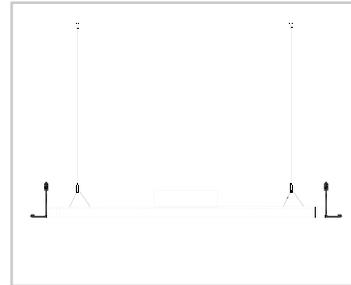
**UL Panel Light ( PL2448-UL-D03 )**

**PRODUCT INSTALLATION**

Embedded installation



Pendant Installation



**SPECIFICATIONS**

Model No.	Dimension (mm)	(W)	Voltage	CRI (Ra)	Color Temp. (K)	Luminous Flux(lm)	Dimming	IP Grade
PL2448-UL-D03	605x12095x51mm	60	AC100-277V	80	3000	6120	0-10V 1-10V PWM	IP20
					4000	6600		
					5000	6720		
PL2448-UL-03	605x1209x51mm	60	AC100-277V	80	3000	6120	no	IP20
					4000	6600		
					5000	6720		

. Thermally stable typical lumens ( $\pm 10\%$ )

**PACKAGE INFORMATION**

Model No.	Packaging unit	Pieces/Unit	Dimensions (L x W x H)	Gross weight	Volume
PL2448-UL	Outer box	2	1250x105x645mm	17kg	85dm3

ACEVEL - A CELERITAS LIGHTING GROUP BRAND

**ACEVEL** LED Panel Light

Light Dream, Light Future

**UL Panel Light ( PL2424-UL-D03 )**



**PRODUCT INTRODUCTION**

- LED panel light with high brightness LED as light source, suitable for office, school, hospital, hotel, cafe, home interior, can directly replace the traditional fluorescent lamps, saving 70% energy.
- Aluminum heat-sink ensures good heat dissipation. Adopting diffusion plate with more than 90% light transmittance creates uniformity of light, no shadow, no dark.
- The use of accurate laser engraving of the light guide plate decreases the loss of light and ensures higher efficiency. High luminous ,energy efficient (110Lm/W delivered at 4000K)



**SPECIFICATION**

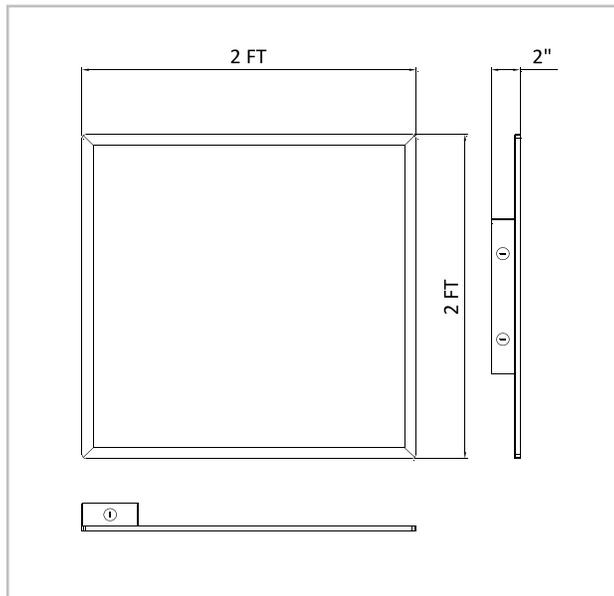
Wattage: 40W  
 Color Temperature: 4000K / 4500K / 5000K  
 CRI: Ra80  
 Driver: Input voltage 100-277V, PF>0.9  
 Dimming: 0-10V 1-10V PWM dimmable / no dimmable

**FEATURES**

Product surface color : silver, white  
 Light-emitting-diode recessed  
 Suitable for dry locations

**STANDARD(S) TANDARD(S) FOR SAFETY**

UL 1598 & CSA C22.2 NO 250.0-08, Luminaires.  
 UL 8750, Light Emitting Diode (LED) Equipment for Use in Lighting Products.  
 CSA C22.2 No. 250.13, Light Emitting Diode (LED) Equipment for Lighting Applications.



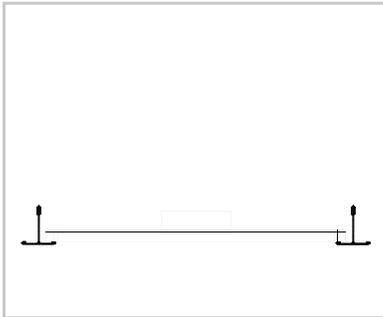
## ACEVEL - A CELERITAS LIGHTING GROUP BRAND

**ACEVEL** LED Panel Light

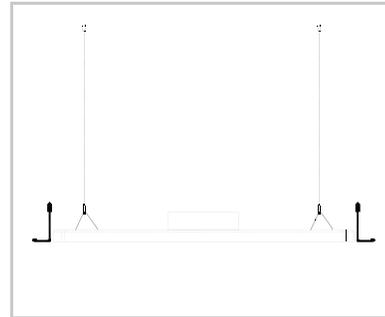
Light Dream, Light Future

**UL Panel Light ( PL2424-UL-D03 )**
**PRODUCT INSTALLATION**

Embedded installation



Pendant Installation


**SPECIFICATIONS**

Model No.	Dimension (mm)	(W)	Voltage	CRI (Ra)	Color Temp. (K)	Luminous Flux(lm)	Dimming	IP Grade
PL2424-UL-D03	605x605x51mm	40	AC100-277V	80	3000	4080	0-10V 1-10V PWM	IP20
					4000	4400		
					5000	4480		
PL2424-UL-03	605x605x51mm	40	AC100-277V	80	3000	4080	no	IP20
					4000	4400		
					5000	4480		

 Thermally stable typical lumens ( $\pm 10\%$ )

**PACKAGE INFORMATION**

Model No.	Packaging unit	Pieces/Unit	Dimensions (L x W x H)	Gross weight	Volume
PL2424-UL	Outer box	2	645x105x645mm	8.5kg	44dm <sup>3</sup>

**DIRECT/INDIRECT TROFFER- LED TUBES**

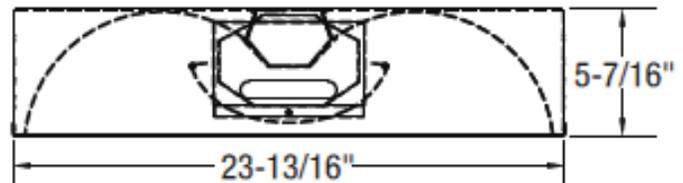


**FEATURES**

- Center Basket Direct/Indirect Fixture
- Low Glare Light
- 1, 2, or 3 Lamp
- Housing and Lamp Compartment Fully Recessed
- Standard Troffer Mounting

**APPLICATIONS**

- Office
- Schools
- Universities
- Fitness Rooms



**ORDERING INFORMATION**

EXAMPLE: LDIT-2-4-15w

HOUSING	# LAMPS	FEET	OPTIONS
LDIT	2    18W	2	40K - 4000K
	3    27W		
	2    30W	4	50K - 5000K
	3    45W		



**CONTEMPORARY LOOK TO BLEND WITH A VARIETY OF COMMERCIAL SPACES**

\*Input wattage calculated using ballast manufacturer data in an open-air lamp application.

Actual fixture wattage may vary based upon a variety of factors including: ballast factor; lamp wattage; input line voltage; ballast manufacturer; and/or environmental temperature.

**NARROW LENS STRIP- LED**

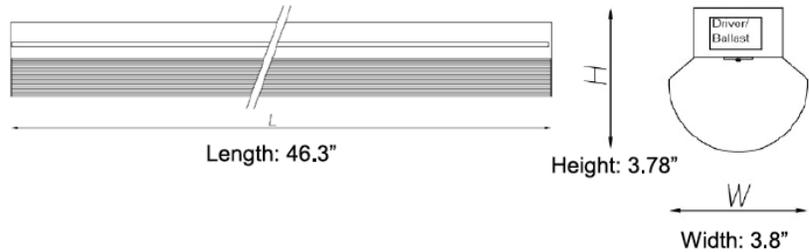


**FEATURES**

- Architectural linear lighting fixture
- Surface or Pendant Mounting
- Post-paint in powder coated matte white polyester
- Individual or Continuous row mounting- joiner available
- Acrylic frosted diffuser with 90% light transmission with toolless removal
- Driver standard with 0-10v dimming

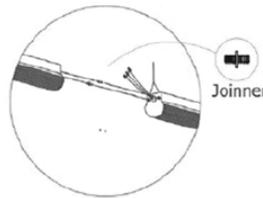
**APPLICATIONS**

- Warehouses
- Industrial
- Display Applications
- Retail



**ACCESSORIES**

- Sensor
- Pendant

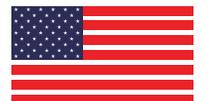


Continuous row assembling installation

**ORDERING INFORMATION**

EXAMPLE: LSCL-4-28w-UNV-50K

HOUSING	FEET	WATTAGE	120-277v	OPTIONS	LUMEN - 4000K
LSCL	4	28W	UNIV	40K-4000K	28W - 3070 lm
		33W		50K-5000K	52W - 5350 lm
		42W			
		52W			



Proudly Made in the USA



**CONTEMPORARY LOOK TO BLEND WITH A VARIETY OF COMMERCIAL SPACES**

\*Input wattage calculated using ballast manufacturer data in an open-air lamp application.

Actual fixture wattage may vary based upon a variety of factors including: ballast factor; lamp wattage; input line voltage; ballast manufacturer; and/or environmental temperature.

## LPBT LED Recessed Parabolic

### APPLICATION

The LPBT is designed for ease of installation on inverted "T" bar grid type ceilings. Earthquake clips are built in to each fixture to comply with construction codes. This troffer is suited for use in offices, commercial and institutional areas, and is available in several configurations to suit your specific needs.



### CONSTRUCTION

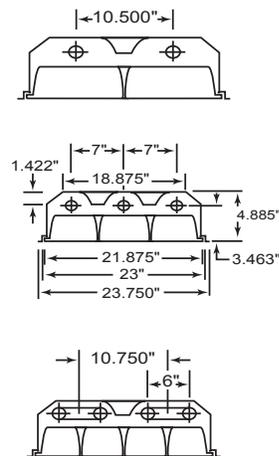
Housing is die formed from heavy gauge steel, and is finished in either baked white enamel or white post powder paint for maximum reflectivity and durability. Nominal three inch deep aluminum parabolic louver has mitered corners for a clean aesthetic look. Hinges and latches are integrated in the louver assembly to ease interior access for re-lamping or ballast maintenance. Consult factory for louver options.



### ELECTRICAL

Fixture comes wired with a quick disconnect and ready to receive single ended (direct wire-internal driver) LED tubes. Order with or without tubes. Our Celeritas Lighting Group tube outperforms the market in cost and light output! See page 5 for more information.

### DIMENSIONS



### ORDERING INFORMATION EXAMPLE: LPBT-2-4-18c-40K

HOUSING	LOUVER	# TUBES	OPTIONS
LPBT	2X2	2	NY 20 Gauge NYC Housing
	16 CELL 4X4	3	
		4	
	2X4		
	12 CELL 2X6		
	18 CELL 3X6		
	24 CELL 4X6		

*Consult factory for other options*

**LPT LED RECESSED PRISMATIC TROFFER**

**APPLICATION**

This static troffer fixture is designed for quick installation into “T” bar ceilings. It is suitable for use in all office, commercial, and industrial areas that use “T” bar grids. There are a wide variety of options available for customizing this fixture to your specific needs.

**CONSTRUCTION**

The housing for the LPT fixture is die formed from heavy gauge steel, and is finished in a baked white enamel or post powder coating for maximum reflectivity and durability. Hinged door frame with mitered corners comes with swivel motion cam latches for easy access into the fixture interior for relamping or maintenance. Standard lens is prismatic acrylic pattern 12, which provides uniform light distribution.

**ELECTRICAL**

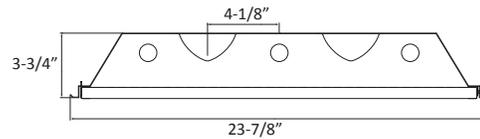
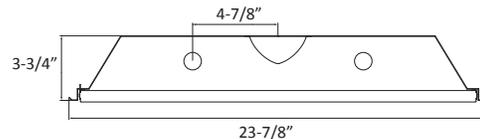
Fixture comes wired with a quick disconnect and ready to receive single ended (direct wire-internal driver) LED tubes. Order with or without tubes. Our Celeritas Lighting Group tube outperforms the market in cost and light output! See page 5 for more information.

**MOUNTING**

All units are stamped with 7/8” knock-outs in the top, sides and includes access plates. For additional safety, this fixture has “earthquake clips” integrated in the housing.



**DIMENSIONS**



**ORDERING INFORMATION**

EXAMPLE: LPT-2-4-18W-50K

HOUSING	# LAMPS	FEET	OPTIONS
LPT -	2 <b>18W</b>	2	<b>A12</b> Prismatic Acrylic Lens .125
	3 <b>27W</b>		<b>A15</b> Prismatic Acrylic Lens .156
	4 <b>36W</b>		<b>FLG</b> Flanged for Plaster Ceiling
	2 <b>36W</b>	4	<b>FP</b> Flange Pan Drop Dish
	3 <b>54W</b>		<b>NY</b> 20 Gauge NYC Housing
	4 <b>72W</b>		<b>PC</b> Polycarbonate Lens .125
			<b>WG</b> 11 Gauge Wire Guard

*Consult factory for other options*

**LWR8, LWR10, LWR15 LED WRAP**

**APPLICATION**

The wrap fixture is ideal for use in most commercial and institutional applications. Because of the versatile nature of its design, it is also very suitable for use in classrooms. This fixture is able to be mounted on stems if so desired. There are many LED tube configurations available for the LWR8 fixture to enable a specifier to achieve the lighting and energy saving results desired.



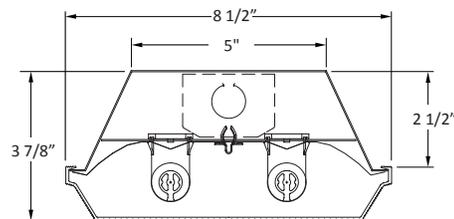
**CONSTRUCTION**

This fixture is constructed from heavy gauge die formed steel, and is finished in baked white enamel or white post powder paint for maximum reflectivity and durability. Clear acrylic prismatic diffuser snaps on and off for easy access to lamps, and includes prisms formed in traditional 12 pattern.

**ELECTRICAL**

Fixture comes wired with a quick disconnect and ready to receive single ended (direct wire-internal driver) LED tubes. Order with or without tubes. Our Celeritas Lighting Group tube outperforms the market in cost and light output! See page 5 for more information.

**DIMENSIONS**



Fixture Dimensions

- LWR8 - 8 1/2 in. x 3 7/8 in.
- LWR10 - 11 1/4 in. x 3 3/8 in.
- LWR15 - 16 in. x 3 3/8 in.

**ORDERING INFORMATION EXAMPLE: LWR8-2-4-18W-H-50K**

HOUSING	LENGTH	# LAMPS	OPTIONS
LWR8	2'	1	NY 20 Gauge NYC Housing
LWR10		2	
LWR15	4'	3	
		4	
			<i>Consult factory for other options</i>

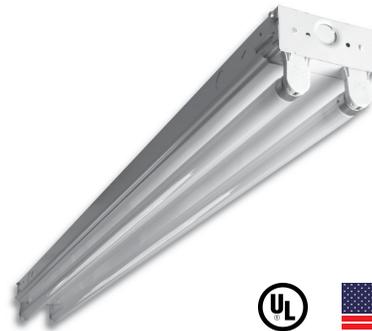
LSC - LED STRIP CHANNEL FIXTURE

**APPLICATION**

This economical strip light is ideal for use in all residential, commercial, and industrial areas where general area lighting is desired.

**CONSTRUCTION**

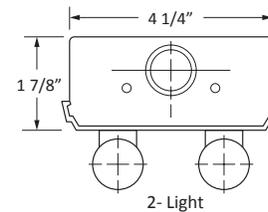
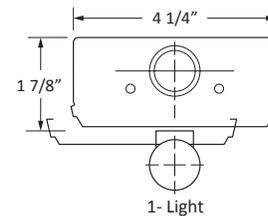
This fixture is formed in heavy gauge die formed metal, and is finished in baked white enamel or post powder paint for maximum reflectivity and durability. Socket bar, end plate, and ballast cover snap on for tool free assembly and component access when service is desired. End plate doubles as a joiner/aligner plate when fixtures are hung in continuous runs.



**ELECTRICAL**

Fixture comes wired with a quick disconnect and ready to receive single ended (direct wire-internal driver) LED tubes. Order with or without tubes. Our Celeritas Lighting Group tube outperforms the market in cost and light output! See page 5 for more information.

**DIMENSIONS**



**MOUNTING**

LSC fixtures are equipped with knockouts and holes for surface, pendant, chain, or cable mounting. This fixture can be mounted individually or in continuous runs. End plates have 7/8" knock-outs for electrical connection from the end if desired.

**ORDERING INFORMATION EXAMPLE: LSC-4-8-18W-H-50K**

HOUSING	LENGTH	# LAMPS	OPTIONS
LSC	2'	1	<b>NY</b> 20 Gauge NYC Housing
		2	<b>WG</b> Wire Guard
	4'	3	
		4	
	8'	6	
		<i>Consult factory for other options</i>	

**LVT LED VAPOR TIGHT CHANNEL**

**APPLICATION**

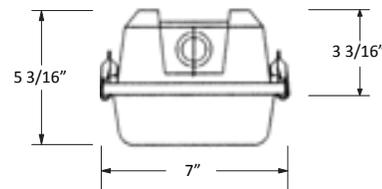
This fully weatherproof fixture is designed for use in areas that are known to be subjected to moisture from either natural causes or intent. This fixture is both waterproof and corrosion resistant. Suitable uses for this fixture are car washes, parking garages, kitchens, and many other applications. Its waterproof construction makes this fixture safe for hose down cleaning.



**CONSTRUCTION**

The housing exterior is designed from a single piece injection molded fiberglass/plastic blend. The waterproof seal is ensured by a neoprene gasket in conjunction with pressure locks around the housing. The interior unit is constructed of 23G steel with a baked white enamel finish to ensure durability.

**DIMENSIONS**



**ELECTRICAL**

Fixture comes wired with a quick disconnect and ready to receive single ended (direct wire-internal driver) LED tubes. Order with or without tubes. Our Celeritas Lighting Group tube outperforms the market in cost and light output! See page 5 for more information.

**ORDERING INFORMATION EXAMPLE: LVT-2-4-18w-H-50K-F**

HOUSING	LENGTH	# LAMPS	OPTIONS
LVT	4'	1	HB Hanging Bracket
		2	
	8'	3	
		4	
		5	
		6	
<i>Consult factory for other options</i>			

LED WALL MOUNT



### Features

- UL listing  
UL listed for wet location
- DesignLights Consortium  
DLC qualified at 4000K and 5000K.
- LEDs  
LM-80 certified high performance and reliable Lumileds LEDs
- Drivers  
Tailored constant-current Led power supply,UL class 2
- Housing and Finish  
Die-cast aluminum with durable dark bronze/black/white coat finish
- Installation  
Outlet box or wall mounted directly
- Ambient Temperature  
Suitable for use in -25 °C to 40 °C
- Warranty  
5 years limited warranty

### Applications

Security, entry ways, stairways and perimeter areas, as well as residential exteriors.

### Specification

Specification/Model	WM17W27V50KDP1	WM25W27V50KDP1
Input Power	17W	25W
Lumens output	1600lm	2200lm
Efficacy	94lm/w	88lm/w
CRI	82	
Color Temperature	2700K	
Input Voltage	120VAC	120VAC
Lens	Dark Bronze	
Energy Efficiency	Polycarbonate*	
Photocell	120V	
Equivalent	20W Incandescent	50W HID

**LED WALL MOUNT**

**ORDERING GUIDE**

**EXAMPLE: WM 17W 27V 40K D P1**

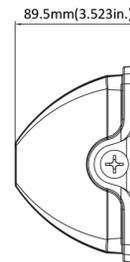
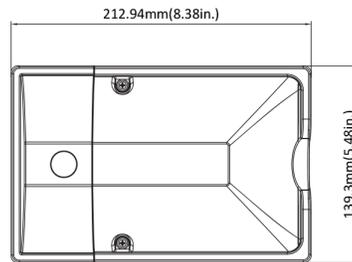
Lamp Type		Power Consumption		Voltage		CCT		Finish		Accessory	
WM	Wall Mount	17W 25W	17Watts 25Watts	27V	120-277V	40K 50K	4000K 5000K	D B W	Dark Bronze Black White	(Blank) P1 P2	No Photocell 120V Photocell 277V Photocell

**ORDERING INFORMATION**

Ordering Code	Input Voltage (VAC)	Luminaire Type	Wattage (W)	CCT	Initial Lumens (lm)	Lamp Efficacy (lpw)	Rated Life (hrs)	CRI	Power Factor	Dimmable	Certificate
WM17W27V40KD	120-277	Wall Mount	17	4000	1600	94	50000	82	0.9	NO	UL DLC
WM17W27V40KDP1	120	Wall Mount	17	4000	1600	94	50000	82	0.9	YES	UL DLC
WM17W27V40KDP2	277	Wall Mount	17	4000	1600	94	50000	82	0.9	YES	UL DLC
WM17W27V50KD	120-277	Wall Mount	17	5000	1700	100	50000	82	0.9	NO	UL DLC
WM17W27V50KDP1	120	Wall Mount	17	5000	1700	100	50000	82	0.9	YES	UL DLC
WM17W27V50KDP2	277	Wall Mount	17	5000	1700	100	50000	82	0.9	YES	UL DLC
WM25W27V40KD	120-277	Wall Mount	25	4000	2100	84	50000	82	0.9	NO	UL DLC
WM25W27V40KDP1	120	Wall Mount	25	4000	2100	84	50000	82	0.9	YES	UL DLC
WM25W27V40KDP2	277	Wall Mount	25	4000	2100	84	50000	82	0.9	YES	UL DLC
WM25W27V50KD	120-277	Wall Mount	25	5000	2200	88	50000	82	0.9	NO	UL DLC
WM25W27V50KDP1	120	Wall Mount	25	5000	2200	88	50000	82	0.9	YES	UL DLC
WM25W27V50KDP2	277	Wall Mount	25	5000	2200	88	50000	82	0.9	YES	UL DLC

**DIMENSION**

unit: mm



LED FULL CUTOFF WALL PACK



### Features

- UL listing  
UL listed for wet location
- Energy Star  
DLC qualified at 4000K and 5000K
- LEDES  
LM-80 certified high performance and reliable COB LEDES
- Drivers  
Tailored Constant-current led power supply, UL class 2
- Housing and Finish  
Die-cast aluminum housing with dark bronze coat finish, head can be tilted design
- Photometry  
Type II and Type III light distribution are available
- Ambient Temperature  
Suitable for use in -25 °C to 40 °C
- Installation  
Outlet box or wall mounted directly
- Warranty  
5 years limited warranty

### Applications

Security, pathway and perimeter lighting Building entryways and walkways

### Specification

Specification/Model	WPI20W27V50KDP1	WPI30W27V50KDP1	WPI40W27V50KDP
Input Power	20W	30W	40W
Lumens output	2000lm	3000lm	4400lm
Efficacy	100 lm/W	100 lm/W	110 lm/W
CRI	70		
Color Temperature	2700K		
Input Voltage	120-277VAC	120-277VAC	120-277VAC
Equivalent	50W HID	50W HID	100W HID
Finish Color	Dark Bronze		
Lens	Glass		
Mounting	Fits electrical box and wall mount directly		
Photocell	120V		

**LED FULL CUTOFF WALL PACK**

**ORDERING GUIDE**

**EXAMPLE: WPI 20W 27W 40K D P1**

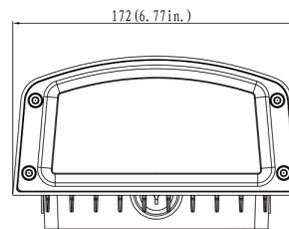
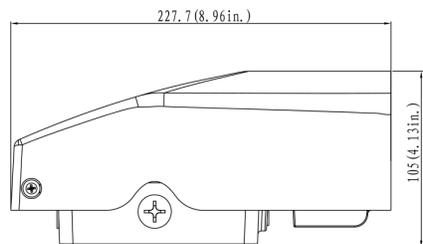
Luminaire Type	Power Consumption	Input Voltage	CCT	Finish	Sensor (Option)
WPI Full Cutoff Wall Pack with Intergrated Led	20W 20Watts	27V 120-277V	35K 3500K	D Dark Bronze	(Blank) No Photocell
	30W 30Watts	34V 300-380V	40K 4000K	B Black	P1 120V Photocell
	40W 40Watts		50K 5000K		P2 277V Photocell
			57K 5700K		P3 347-380V Photocell

**ORDERING INFORMATION**

Ordering Code	Input Voltage (VAC)	Luminaire Type	Wattage (W)	CCT	Initial Lumens (lm)	Lamp Efficacy (lpw)	Rated Life (hrs)	CRI	Power Factor	Dimmable	Certificate
WPI20W27V40KD	120-277	Full Cutoff Wall Pack	20	4000	2000	100	50000	70	0.9	NO	UL DLC
WPI20W27V40KDP1	120	Full Cutoff Wall Pack	20	4000	2000	100	50000	70	0.9	YES	UL DLC
WPI20W27V40KDP2	277	Full Cutoff Wall Pack	20	4000	2000	100	50000	70	0.9	YES	UL DLC
WPI20W27V50KD	120-277	Full Cutoff Wall Pack	20	5000	2000	100	50000	70	0.9	NO	UL DLC
WPI20W27V50KDP1	120	Full Cutoff Wall Pack	20	5000	2000	100	50000	70	0.9	YES	UL DLC
WPI20W27V50KDP2	277	Full Cutoff Wall Pack	20	5000	2000	100	50000	70	0.9	YES	UL DLC
WPI30W27V40KD	120-277	Full Cutoff Wall Pack	30	4000	3000	100	50000	70	0.9	NO	UL DLC
WPI30W27V40KDP1	120	Full Cutoff Wall Pack	30	4000	3000	100	50000	70	0.9	YES	UL DLC
WPI30W27V40KDP2	277	Full Cutoff Wall Pack	30	4000	3000	100	50000	70	0.9	YES	UL DLC
WPI30W27V50KD	120-277	Full Cutoff Wall Pack	30	5000	3000	100	50000	70	0.9	NO	UL DLC
WPI30W27V50KDP1	120	Full Cutoff Wall Pack	30	5000	3000	100	50000	70	0.9	YES	UL DLC
WPI30W27V50KDP2	277	Full Cutoff Wall Pack	30	5000	3000	100	50000	70	0.9	YES	UL DLC
WPI40W27V40KD	120-277	Full Cutoff Wall Pack	40	4000	4400	110	50000	70	0.9	NO	UL DLC
WPI40W27V40KDP1	120	Full Cutoff Wall Pack	40	4000	4400	110	50000	70	0.9	YES	UL DLC
WPI40W27V40KDP2	277	Full Cutoff Wall Pack	40	4000	4400	110	50000	70	0.9	YES	UL DLC
WPI40W27V50KD	120-277	Full Cutoff Wall Pack	40	5000	4400	110	50000	70	0.9	NO	UL DLC
WPI40W27V50KDP1	120	Full Cutoff Wall Pack	40	5000	4400	110	50000	70	0.9	YES	UL DLC
WPI40W27V50KDP2	277	Full Cutoff Wall Pack	40	5000	4400	110	50000	70	0.9	YES	UL DLC
WPI40W34V40KD	347-380	Full Cutoff Wall Pack	40	4000	4400	110	50000	70	0.9	NO	UL DLC
WPI40W34V50KDP3	347-380	Full Cutoff Wall Pack	40	4000	4400	110	50000	70	0.9	YES	UL DLC
WPI40W34V50KD	347-380	Full Cutoff Wall Pack	40	5000	4400	110	50000	70	0.9	NO	UL DLC
WPI40W34V50KDP3	347-380	Full Cutoff Wall Pack	40	5000	4400	110	50000	70	0.9	YES	UL DLC

**DIMENSION**

unit: mm/inch



**MEDIUM LED WALL PACK**



**Features**

UL listing  
UL listed for wet location

Energy Star  
DLC qualified at 4000K and 5000K

LEDs  
LM-80 certified high performance and reliable Lumileds LEDs

Drivers  
Tailored constant-current Led power supply,UL class 2

Housing and Finish  
Die-cast aluminum with durable dark bronze coat finish

Installation  
Recessed mounted, Junction box\*

Ambient Temperature  
Suitable for use in -25 °C to 40 °C

Equivalent  
80W and 120W Incandescent lamp

Warranty  
5 years limited warranty

**Applications**

Security, pathway and perimeter lighting, Building entryways and walkways

**Specification**

Specification/Model	WP45W27V50KDP1	WP70W27V50KDP1	WP75W34V50KDP2
<b>Input Power</b>	45W	70W	75W
<b>Lumens output</b>	3800lm	6000lm	6000lm
<b>Efficacy</b>	90 lm/W	84 lm/W	80 lm/W
<b>CRI</b>	80		
<b>Color Temperature</b>	5000K		
<b>Input Voltage</b>	120VAC	120VAC	300-430VAC
<b>Equivalent</b>	100W MH	175W MH	175W MH
<b>Finish Color</b>	Dark Bronze		
<b>Lens</b>	Polycarbonate*		
<b>Photocell</b>	120V	120V	277V**

## MEDIUM LED WALL PACK

### ORDERING GUIDE

**EXAMPLE: WP 70W 27V 40K D C P**

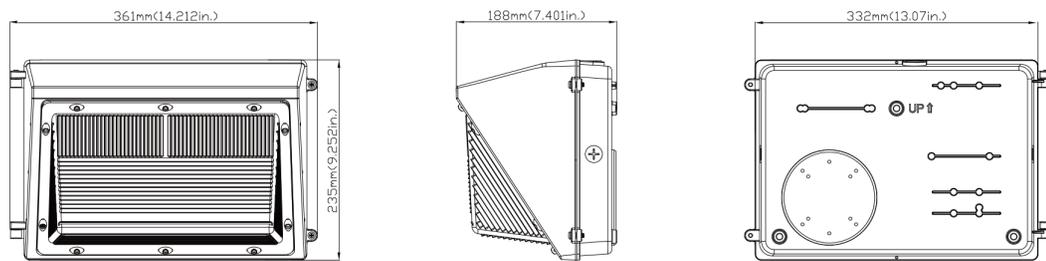
Luminaire		Power Consumption		Input Voltage		CCT		Finish		Accessory (Option)		Photocell(Option)	
WP	Wall Pack	45W	45Watts	27V	120-277V	27K	2700K	D	DarkBronze	(Blank)	No Cap	(Blank) No	Photocell
		70W	70Watts	34V	300-430V	30K	3000K		(Default)	C	DLC Cap	P1 120V	Photocell
		75W	75Watts			40K	4000K	B	Black			P2 230V/277V	Photocell
						50K	5000K	W	White				

### ORDERING INFORMATION

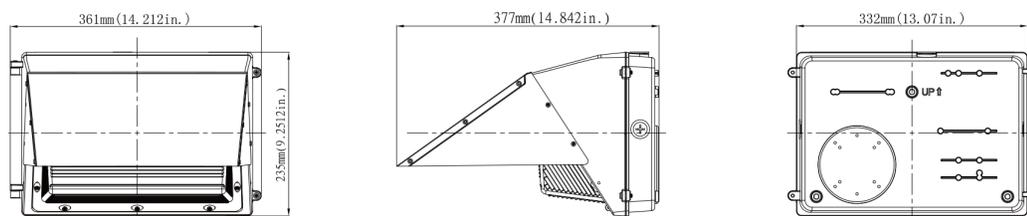
Ordering Code	Input Voltage (VAC)	Luminaire Type	Wattage (W)	CCT	Initial Lumens (lm)	Lamp Efficacy (lpw)	Rated Life (hrs)	Photocell	CRI	Power Factor	Dimmable	Certificate
WP45W27V40KDC	100-277	Wall Pack	45	4000K	3700	82	50000	NO	80	0.9	NO	UL DLC
WP45W27V40KDCP1	120	Wall Pack	45	4000K	3700	82	50000	YES	80	0.9	NO	UL DLC
WP45W27V40KDCP2	277	Wall Pack	45	4000K	3700	82	50000	YES	80	0.9	NO	UL DLC
WP45W27V50KDC	100-277	Wall Pack	45	5000K	3800	84	50000	NO	80	0.9	NO	UL DLC
WP45W27V50KDCP1	120	Wall Pack	45	5000K	3800	84	50000	YES	80	0.9	NO	UL DLC
WP45W27V50KDCP2	277	Wall Pack	45	5000K	3800	84	50000	YES	80	0.9	NO	UL DLC
WP70W27V40KDC	100-277	Wall Pack	70	4000K	5610	80	50000	NO	80	0.9	NO	UL DLC
WP70W27V40KDCP1	120	Wall Pack	70	4000K	5610	80	50000	YES	80	0.9	NO	UL DLC
WP70W27V40KDCP2	277	Wall Pack	70	4000K	5610	80	50000	YES	80	0.9	NO	UL DLC
WP70W27V50KDC	100-277	Wall Pack	70	5000K	6000	86	50000	NO	80	0.9	NO	UL DLC
WP70W27V50KDCP1	120	Wall Pack	70	5000K	6000	86	50000	YES	80	0.9	NO	UL DLC
WP70W27V50KDCP2	277	Wall Pack	70	5000K	6000	86	50000	YES	80	0.9	NO	UL DLC
WP75W34V40KDC	300-430	Wall Pack	75	4000K	5470	73	50000	NO	80	0.9	NO	UL DLC
WP75W34V40KDCP2	300-430	Wall Pack	75	4000K	5470	73	50000	YES	80	0.9	NO	UL DLC
WP75W34V50KDC	300-430	Wall Pack	75	5000K	6000	80	50000	NO	80	0.9	NO	UL DLC
WP75W34V50KDCP2	300-430	Wall Pack	75	5000K	6000	80	50000	YES	80	0.9	NO	UL DLC

### Dimension

unit: mm/inch



DLC Model with additional cap:



LARGE LED WALL PACK



### Features

- UL listing  
UL listed for wet location
- Energy Star  
DLC qualified at 4000K and 5000K
- LEDs  
LM-80 certified high performance and reliable Lumileds LEDs
- Drivers  
Tailored constant-current Led power supply,UL class 2
- Housing and Finish  
Die-cast aluminum with durable dark bronze coat finish
- Installation  
Recessed mounted, Junction box\*
- Ambient Temperature  
Suitable for use in -25 °C to 40 °C
- Equivalent  
80W and 120W Incandescent lamp
- Warranty  
5 years limited warranty

### Applications

Security, pathway and perimeter lighting, Building entryways and walkways

### Specification

Specification/Model	WP90W27V50KDP1	WP95W34V50KDP2	WP135W27V50KDP1	WP145W34V50KDP2
Input Power	90W	95W	135W	145W
Lumens output	8000lm	8000lm	12000lm	12000lm
Efficacy	89 lm/W	84 lm/W	89 lm/W	83lm/W
CRI	82			
Color Temperature	5000K			
Input Voltage	120VAC	300-430VAC	120VAC	300-430VAC
Equivalent	250W MH	250W MH	400W MH	400W MH
Finish Color	Dark Bronze			
Lens	Polycarbonate*			
PhotoCell	120V	277V**	120V	277V**

**LARGE LED WALL PACK**

**ORDERING GUIDE**

**EXAMPLE: WP 90W 27V 40K D C P1**

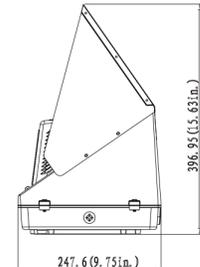
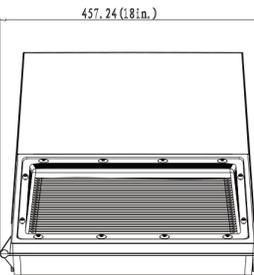
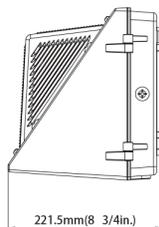
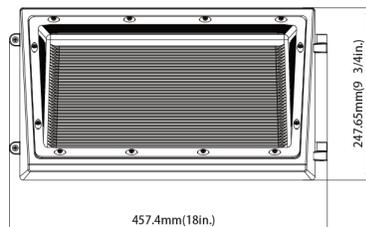
Luminaire		Power Consumption		Input Voltage		CCT		Finish		Accessory (Option)		Photocell (Option)	
WP	Wall Pack	90W	90Watts	27V	120-277V	27K	2700K	D	DarkBronze	(Blank)	No Cap	(Blank) No	Photocell
		95W	90Watts	34V	300-430V	30K	3000K		(Default)	C	DLC Cap	P1 120V	Photocell
		135W	135Watts			40K	4000K	B	Black			P2 230V/277V	Photocell
		145W	145Watts			50K	5000K	W	White				

**ORDERING INFORMATION**

Ordering Code	Input Voltage (VAC)	Luminaire Type	Wattage (W)	CCT	Initial Lumens (lm)	Lamp Efficacy (lpw)	Rated Life (hrs)	Photocell	CRI	Power Factor	Dimmable	Certificate
WP90W27V40KDC	120-277	Wall Pack	90	4000	7500	83	50000	NO	82	0.9	NO	UL DLC
WP90W27V40KDCP1	120	Wall Pack	90	4000	7500	83	50000	YES	82	0.9	NO	UL DLC
WP90W27V40KDCP2	277	Wall Pack	90	4000	7500	83	50000	YES	82	0.9	NO	UL DLC
WP90W27V50KDC	120-277	Wall Pack	90	5000	7700	86	50000	NO	82	0.9	NO	UL DLC
WP90W27V50KDCP1	120	Wall Pack	90	5000	7700	86	50000	YES	82	0.9	NO	UL DLC
WP90W27V50KDCP2	277	Wall Pack	90	5000	7700	86	50000	YES	82	0.9	NO	UL DLC
WP95W34V40KDC	300-430	Wall Pack	95	4000	7500	79	50000	NO	82	0.9	NO	UL DLC
WP95W34V40KDCP2	300-430	Wall Pack	95	4000	7500	79	50000	YES	82	0.9	NO	UL DLC
WP95W34V50KDC	300-430	Wall Pack	95	5000	7700	81	50000	NO	82	0.9	NO	UL DLC
WP95W34V50KDCP2	300-430	Wall Pack	95	5000	7700	81	50000	YES	82	0.9	NO	UL DLC
WP135W27V40KDC	120-277	Wall Pack	135	4000	11200	83	50000	NO	82	0.9	NO	UL DLC
WP135W27V40KDCP1	120	Wall Pack	135	4000	11200	83	50000	YES	82	0.9	NO	UL DLC
WP135W27V40KDCP2	277	Wall Pack	135	4000	11200	83	50000	YES	82	0.9	NO	UL DLC
WP135W27V50KDC	120-277	Wall Pack	135	5000	11500	85	50000	NO	82	0.9	NO	UL DLC
WP135W27V50KDCP1	120	Wall Pack	135	5000	11500	85	50000	YES	82	0.9	NO	UL DLC
WP135W27V50KDCP2	277	Wall Pack	135	5000	11500	85	50000	YES	82	0.9	NO	UL DLC
WP145W34V40KDC	300-430	Wall Pack	145	4000	11200	77	50000	NO	82	0.9	NO	UL DLC
WP145W34V40KDCP2	300-430	Wall Pack	145	4000	11200	77	50000	YES	82	0.9	NO	UL DLC
WP145W34V50KDC	300-430	Wall Pack	145	5000	11500	79	50000	NO	82	0.9	NO	UL DLC
WP145W34V50KDCP2	300-430	Wall Pack	145	5000	11500	79	50000	YES	82	0.9	NO	UL DLC

**Dimension**

unit: mm/inch



DLC Model with additional

### K SERIES DIRECTORY

KSL



KPL/KAL



KFL



KFL HIGH POWER



KAL HIGH POWER



KHB



APPENDIX

1



Photocell

2



Microwave Motion sensor

3



Surge Protection Device

### KPL- LED PARKING LOT/KAL - AREA LIGHT



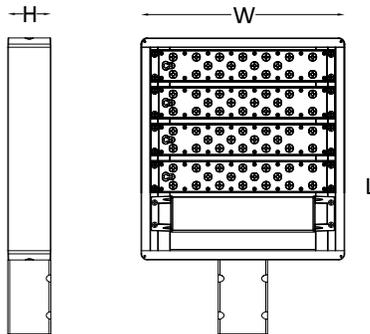
**CE IP67 IK08 ErP**

Compliant with the following standards :

- IEC/EN 60598-2-3/A1: 2011
- EN 62493:2010
- IEC62471: 2008
- IEC62471-2:2009
- EN 55015: 2013
- EN61547:2009
- EN61000-3-2/A2:2009
- EN 61000-3-3:2013
- (EU) 1194/2012:2012-12-12
- (EC) 244/2009:2009-03-18

Ik08 rating, 1000 hours salt mist test reports are furnished upon request.

### DIMENSIONAL DRAWING



### FEATURES & BENEFITS

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) Meet all the major product qualifications e. g cULus, DLC, CE, CB etc.
- 4) Sufficient optics solutions at option to meet almost all the lighting standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

### APPLICATIONS

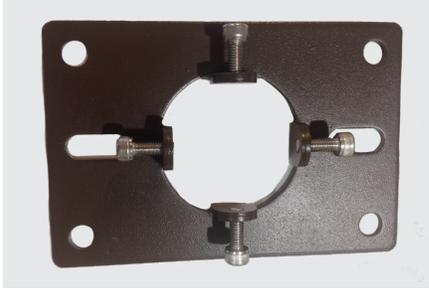
Airport Illumination  
 Company Campus Illumination  
 Healthcare Facilities Illumination  
 Municipal Illumination  
 Petroleum & Convenience Illumination

Restaurant & Hotel Illumination  
 Retail & Grocery Illumination  
 Education Facilities Illumination  
 Government Facilities Illumination

**KPL- LED PARKING LOT/KAL - AREA LIGHT**

**MOUNTING BRACKET INCLUDED with KPL FIXTURE**

Tenon mount adaptor (TMA) for mounting to building or poles



**ORDERING INFORMATION**

Example 1: KAL-200-U-T3L-50K-BK-00

Example 2: KPL-240-UH-T3L-50K-BK-00

Product ID	Power (W)	Voltage	Or	Product ID	Power (W)	Voltage	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control	Mounting Adaptor
KPL	80	U-120-277		KPL	80	UH-480	T1M	30K	BK Black (RAL:9011)	BLANK Not required	TMA Optional with KAL fixture
KAL	80W		KAL	80W	T2M		±175K				
	120			120	T3M						
	120W			120W	T3L	40K	GR Grey (RAL:7004)	±275K	DC DALI	PC PHOTOCELL	
	160			160	T4S						
	160W			160W	T5U		WH White (RAL:9010)	±283K			
	200			200	T5V	50K					
	200W			200W	T5W	5028	BZ Bronze (RAL:8017)	±355K			
	240			240	T5S						
	240W			240W	T5M	57K					
					T5L	5665					
					T5D						

**Notes:**

● **CCT\*:**

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● **Housing Color\*\*:**

- BK (Black) housings are always in stock largely to support prompt delivery of finished products.
- GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

\* Mounting KPL and KAL are tenon mounted fixtures with 2 1/2 inch slip fitter

● **Optic Lens Options:**

- |                         |   |
|-------------------------|---|
| 1) T1M: Type I Medium   | 7) T5V: 25°                                     |
| 2) T2M: Type II Medium  | 8) T5W: 40°                                     |
| 3) T3M: Type III Medium | 9) T5S: 60°                                     |
| 4) T3L: Type III Long   | 10) T5M: 90°                                    |
| 5) T4S: Type IV Short   | 11) T5L: 120°                                   |
| 6) T5U: 10°             | 12) T5D: (frosted front cover, glare resistant) |

1, 2: DALI control is not available.

## KPL- LED PARKING LOT/KAL - AREA LIGHT

### BRIEF SPECIFICATIONS

Model No.	KPL/KAL-80-U	KPL/KAL-120-U	KPL/KAL-160-U	KPL/KAL-200-U	KPL/KAL-240-U
Lumens@ 5000K	8027	11763	15604	19240	23572
Power	80W	120W	160W	200W	240W
Net Weight	5.88kg	6.87kg	7.53kg	9.25kg	10.21kg
Gross Weight	6.53kg	7.62kg	8.38kg	10.22kg	11.24kg
Dimensions (L x W x H)	360 x 330 x 70mm	420 x 330 x 70mm	480 x 330 x 70mm	600 x 330 x 70mm	660 x 330 x 70mm
Carton Dimensions (L x W x H)	370 x 425 x 160mm	430 x 425 x 160mm	490 x 425 x 160mm	610 x 425 x 160mm	670 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz				
EPA	0.398sq.ft	0.421sq.ft	0.459sq.ft	0.526sq.ft	0.564sq.ft

Model No.	KPL/KAL-80-UH	KPL/KAL-120-UH	KPL/KAL-160-UH	KPL/KAL-200-UH	KPL/KAL-240-UH
Lumens@ 5000K	8027	11763	15604	19240	23572
Power	80W	120W	160W	200W	240W
Net Weight	5.88kg	6.87kg	7.53kg	9.25kg	10.21kg
Gross Weight	6.53kg	7.62kg	8.38kg	10.22kg	11.24kg
Dimensions (L x W x H)	360 x 330 x 70mm	420 x 330 x 70mm	480 x 330 x 70mm	600 x 330 x 70mm	660 x 330 x 70mm
Carton Dimensions (L x W x H)	370 x 425 x 160mm	430 x 425 x 160mm	490 x 425 x 160mm	610 x 425 x 160mm	670 x 425 x 160mm
Input	347-480V AC 50/60Hz				
EPA	0.398sq.ft	0.421sq.ft	0.459sq.ft	0.526sq.ft	0.564sq.ft

#### Drive current

1. KPL\*U: 700mA
2. KPL\*UH: 700mA

#### General specifications for all the above items:

##### Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

##### Lifetime and working temperature:

3. Reported L70 Lifetime: >60,000 hours .  
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

##### Typical Luminous Efficacy:

5. Typical Luminous Efficacy: 100 lm/w ( 5000K CCT, Ra>70).
6. System Efficacy and power are customized, e.g. 130 lm/W.

##### Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: PHILIPS or MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
10. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

## KFL- LED FLOODLIGHT



Certified by TUV-sud according to the following standards:

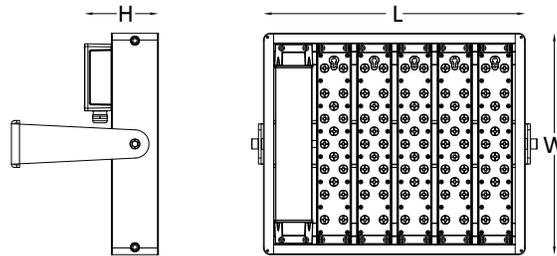
- IEC /EN 60598-1: 2008
- IEC /EN 60598-2-3/A1: 2011
- EN 62493:2010
- IEC62471: 2008
- IEC62471-2:2009
- EN 55015: 2013
- EN61547:2009
- EN61000-3-2/A2:2009
- EN 61000-3-3:2013
- (EU) 1194/2012:2012-12-12
- (EC) 244/2009:2009-03-18

ENEC: No.: U6140888771008(KFL-\* -U Models)  
 CB:No. : SG-LE-00945(KFL-\* -U Models)

Ik08 rating, 1000 hours salt mist test reports are furnished upon request.



### DIMENSIONAL DRAWING



### FEATURES & BENEFITS

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) Meet all the major product qualifications.
- 4) Sufficient optics solutions at option to meet almost all lighting standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

### APPLICATIONS

Commercial and industrial lighting

**KFL- LED FLOODLIGHT**

**ORDERING INFORMATION**

Example 1: KFL-60-U-T5M-50K-BK-00

Example 2: KFL-200-UH-T5L-50K-BK-00

Product ID	Power (W)	Voltage	or	Product ID	Power (W)	Voltage	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
KFL	<b>60</b> 60W	U-120-277	or	KFL	<b>80</b> 80W	UH - 480	<b>T1M</b>	<b>30K</b>	<b>BK</b>	<b>BLANK</b>
	<b>90</b> 90W				<b>120</b> 120W		<b>T2M</b>	3045	Black (RAL:9011)	Not required
	<b>120</b> 120W				<b>160</b> 160W		<b>T3M</b>	±175K		
	<b>150</b> 150W				<b>200</b> 200W		<b>T3L</b>	<b>40K</b>	<b>GR</b>	<b>PC</b>
	<b>180</b> 180W				<b>240</b> 240W		<b>T4S</b>	3985	Grey (RAL:7004)	Photocell
	<b>210</b> 210W				<b>280</b> 280W		<b>T5U</b>	±275K		<b>MS</b>
	<b>240</b> 240W				<b>320</b> 320W		<b>T5V</b>	<b>50K</b>	<b>WH</b>	Motion Sensor
	<b>270</b> 270W						<b>T5W</b>	5028	White (RAL:9010)	<b>PCMS</b>
	<b>300</b> 300W						<b>T5S</b>	±283K		Photocell+
							<b>T5M</b>	<b>57K</b>	<b>BZ</b>	Motion Sensor
		<b>T5L</b>	5665	Bronze (RAL:8017)	<b>DC</b>					
		<b>T5D</b>	±355K		DALI					
					<b>DM</b>					
					1-10V dimming					

**Notes:**

● **CCT\*:**

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● **Housing Color\*\*:**

- BK (Black) housings are always in stock largely to support prompt delivery of finished products.
- GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● **Optic Lens Options:**

- |                         |   |
|-------------------------|---|
| 1) T1M: Type I Medium   | 7) T5V: 25°                                     |
| 2) T2M: Type II Medium  | 8) T5W: 40°                                     |
| 3) T3M: Type III Medium | 9) T5S: 60°                                     |
| 4) T3L: Type III Long   | 10) T5M: 90°                                    |
| 5) T4S: Type IV Short   | 11) T5L: 120°                                   |
| 6) T5U: 10°             | 12) T5D: (frosted front cover, glare resistant) |

- 1, 2, 5: DALI control is not available.  
 3, 4: Photocell and motion sensing are available based on customization request.  
 5: Photocell is available based on customization request.

**KFL- LED FLOODLIGHT**

**BRIEF SPECIFICATIONS**

Model No.	KFL-60	KFL-90	KFL-120	KFL-150	KFL-180	KFL-210	KFL-240	KFL-270	KFL-300
Lumens @ 5000K	7214	11132	15513	18502	21988	26528	29475	33197	36610
Power	60W	90W	120W	150W	180W	210W	240W	270W	300W
Net Weight	4.97kg	6.10kg	7.01kg	7.74kg	10.13kg	10.96kg	12.23kg	12.98kg	13.68kg
Gross Weight	5.62kg	6.85kg	7.89kg	8.71kg	11.21kg	12.09kg	13.40kg	14.20kg	14.96kg
Dimensions (L x W x H)	210 x 330 x 110mm	270 x 330 x 100mm	330 x 330 x 110mm	390 x 330 x 100mm	510 x 330 x 110mm	570 x 330 x 110mm	630 x 330 x 110mm	690 x 330 x 110mm	750 x 330 x 110mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	495 x 425 x 160mm	615 x 425 x 160mm	675 x 425 x 160mm	735 x 425 x 160mm	795 x 425 x 160mm	855 x 425 x 160mm
Input	120-277V AC or 220-240V AC 50/60Hz								

Model No.	KFL-80	KFL-120	KFL-160	KFL-200	KFL-240	KFL-280	KFL-320
Lumens @ 5000K	8027	11763	15604	19240	23572	27025	31368
Power	80W	120W	160W	200W	240W	280W	320W
Net Weight	4.97kg	6.10kg	7.01kg	8.80kg	10.13kg	10.96kg	12.23kg
Gross Weight	5.62kg	6.85kg	7.89kg	9.77kg	11.21kg	12.09kg	13.40kg
Dimensions (L x W x H)	210 x 330 x 110mm	270 x 330 x 110mm	330 x 330 x 110mm	450 x 330 x 110mm	510 x 330 x 110mm	570 x 330 x 110mm	630 x 330 x 110mm
Carton Dimensions (L x W x H)	315 x 425 x 160mm	375 x 425 x 160mm	435 x 425 x 160mm	555 x 425 x 160mm	615 x 425 x 160mm	675 x 425 x 160mm	735 x 425 x 160mm
Input	347-480V AC 50/60Hz						

**Drive current**

1. KFL-\*-U: 530mA
2. KFL-\*-UH: 700mA

**General specifications for all the above items:**

**Electrical:**

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

**Lifetime per TM21 and working temperature:**

3. Reported L70 Lifetime: >60,000 hours .  
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

**Typical Luminous Efficacy:**

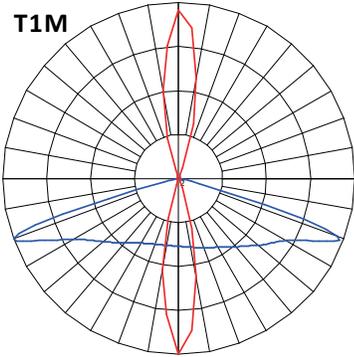
5. Typical Luminous Efficacy (KFL-\*-U models): 110 lm/w ( 5000K CCT, Ra>70).
6. Typical Luminous Efficacy (KFL-\*-UH models): 100 lm/w ( 5000K CCT, Ra>70).
7. System Efficacy and power are customized, e.g. 130 lm/W.

**Materials:**

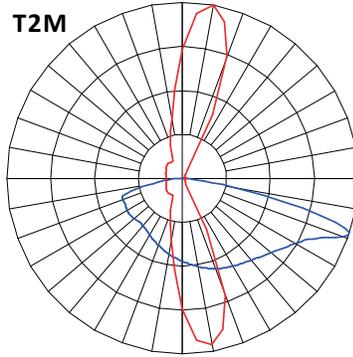
8. LED option: CREE or PHILIPS Lumileds.
9. LED Driver Origin: PHILIPS or MEANWELL.
10. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
11. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

### PHOTOMETRICS

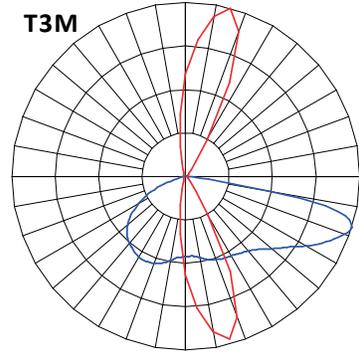
**T1M**



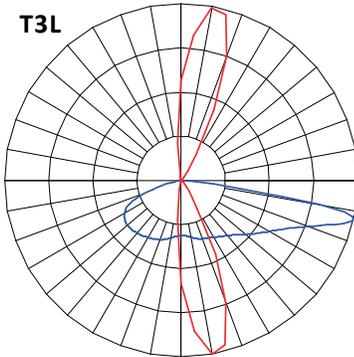
**T2M**



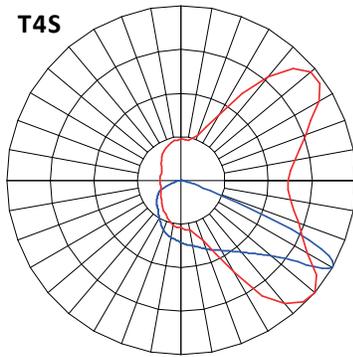
**T3M**



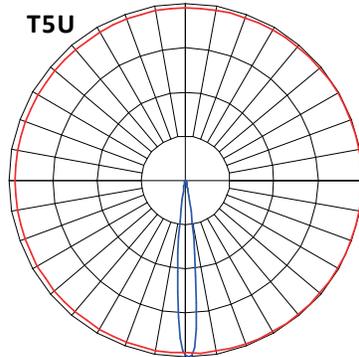
**T3L**



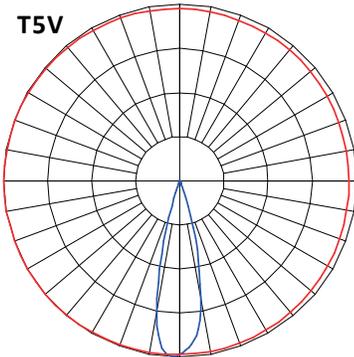
**T4S**



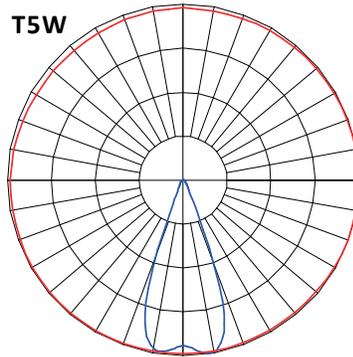
**T5U**



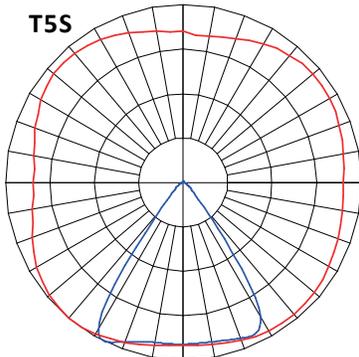
**T5V**



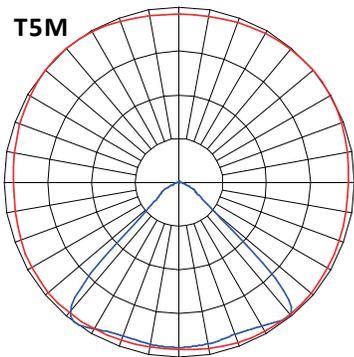
**T5W**



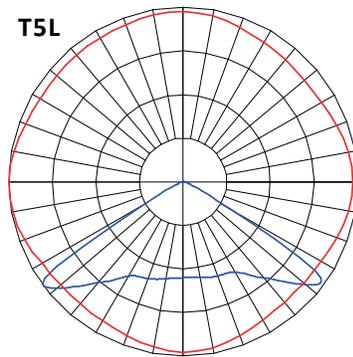
**T5S**



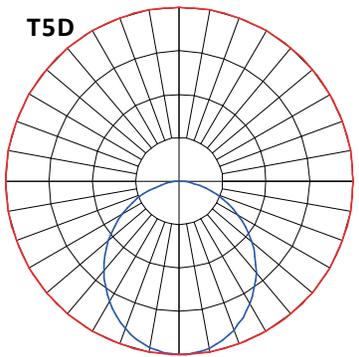
**T5M**



**T5L**



**T5D**



## KSL- LED ROADWAY/STREET LIGHT



Certified by TUV-sud according to the following standards:

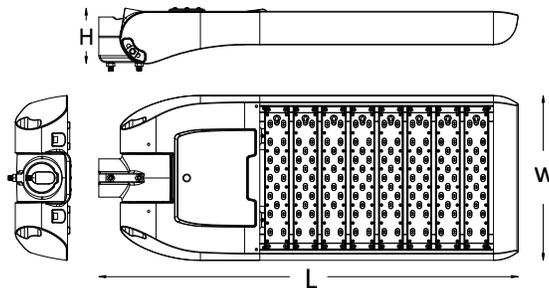
- IEC /EN 60598-1: 2008
- IEC /EN 60598-2-3/A1: 2011
- EN 62493:2010
- IEC62471: 2008
- IEC62471-2:2009
- EN 55015: 2013
- EN61547:2009
- EN61000-3-2/A2:2009
- EN 61000-3-3:2013
- (EU) 1194/2012:2012-12-12
- (EC) 244/2009:2009-03-18

**ENEC:** No.: U6140888771007 (KSL-<sup>®</sup>-U models)

**CB:** No. : SG-LE-00951 (KSL-<sup>®</sup>-U models)

**IK08 rating, 3G vibration, 1000 hours salt mist test reports are furnished upon request.**

### DIMENSIONAL DRAWING



### FEATURES & BENEFITS

- 1) Based on the most successful product development, manufacturing and application expertise and experience.
- 2) Powered by the worldwide best LED, LED drivers, and other key components.
- 3) cULus, DLC listed, and certified as per CE (lvd, emc, RoHs, Erp directives), CB, ENEC standards.
- 4) Sufficient optics solutions at option to meet almost all roadway/street and area lighting application standards.
- 5) Modular mechanical construction, and the most thoughtful design, make the product the most user friendly and easiest for assembly, maintenance and installation.
- 6) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 7) Environmentally friendly packaging materials (EPE).

### APPLICATIONS

Municipal and rural street, roadway, or area lighting.

**KSL- LED ROADWAY/STREET LIGHT**

**ORDERING INFORMATION**

Example 1: KSL-30-U-T3L-50K-GR-00

Example 2: KSL-80-UH-T3L-50K-GR-00

Product ID	Power (W)	Voltage	Or	Product ID	Power (W)	Voltage	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control			
KSL	30	U-120-277	Or	KSL	80	UH-480	T1M	30K	GR	BLANK			
	30W				80W		T2M				3045	Grey	Not required
	60				120		T3M				±175K	(RAL:7004)	
	60W				120W		T3L	40K	BK	PC			
	90				160		T4S				3985	Black	Photocell
	90W				160W		T5U	±275K	(RAL:9011)	MS			
	120				200		T5V	50K	WH	Motion Sensor			
	120W				200W		T5W				5028	White	
	150				240		T5S	±283K	(RAL:9010)	PCMS			
	150W				240W		T5M	57K	BZ	Photocell+			
	180				280		T5L				5665	Bronze	Motion Sensor
	180W				280W		T5D	±355K	(RAL:8017)	DC			
210	320								DM				
210W	320W								1-10V dimming				
240													
240W													
270													
270W													
300													
300W													

**Notes:**

● CCT\*:

- LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
- LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
- LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● Housing Color\*\*:

- GR (Grey) housings are always in stock largely to support prompt delivery of finished products.
- BK (Black), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with grey housing, but the lead time is longer relatively.
- Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

● Optic Lens Options:

- |                         |                                    |
|-------------------------|------------------------------------|
| 1) T1M: Type I Medium   | 7) T5V: 25°                        |
| 2) T2M: Type II Medium  | 8) T5W: 40°                        |
| 3) T3M: Type III Medium | 9) T5S: 60°                        |
| 4) T3L: Type III Long   | 10) T5M: 90°                       |
| 5) T4S: Type IV Short   | 11) T5L: 120°                      |
| 6) T5U: 10°             | 12) T5D: Glare resistant diffuser. |

1, 2, 3, 4, 7, 8: DALI control is not available.

7, 8: motion sensing is not available.

Photocell is available based on customization request.

8: 1-10V dimming and motion sensing are not available.

## KSL- LED ROADWAY/STREET LIGHT

### BRIEF SPECIFICATIONS

Model No.	KSL-30	KSL-60	KSL-90	KSL-120	KSL-150	KSL-180	KSL-210	KSL-240	KSL-270	KSL-300
<b>Lumens @ 5000K</b>	3585	7214	11132	15513	18502	21988	26528	29475	33197	36610
<b>Nominal Power</b>	30W	60W	90W	120W	150W	180W	210W	240W	270W	300W
<b>Net Weight</b>	6.46kg	7.09kg	8.22kg	8.88kg	9.47kg	10.83kg	11.47kg	12.49kg	13.12kg	13.88kg
<b>EPA (1 Fixture at 0° mount)</b>	0.46sq. ft.	0.5sq. ft.	0.54sq. ft.	0.59sq. ft.	0.63sq. ft.	0.67sq. ft.	0.72sq. ft.	0.76sq. ft.	0.8sq. ft.	0.84sq. ft.
<b>Gross Weight</b>	7.46kg	8.16kg	9.35kg	10.05kg	10.73kg	12.15kg	12.84kg	13.91kg	14.64kg	15.44kg
<b>Dimensions (L x W x H)</b>	463 x 345 x 116(mm)	523 x 345 x 116(mm)	583 x 345 x 116(mm)	643 x 345 x 116(mm)	703 x 345 x 116(mm)	763 x 345 x 116(mm)	823 x 345 x 116(mm)	883 x 345 x 116(mm)	943 x 345 x 116(mm)	1033 x 345 x 116(mm)
<b>Carton Dimensions (L x W x H)</b>	535 x 425 x 160(mm)	595 x 425 x 160(mm)	655 x 425 x 160(mm)	715 x 425 x 160(mm)	775 x 425 x 160(mm)	835 x 425 x 160(mm)	895 x 425 x 160(mm)	955 x 425 x 160(mm)	1015 x 425 x 160(mm)	1075 x 425 x 160(mm)
<b>Input</b>	U - 120V-277V AC 50/60Hz or 220-240V AC 50/60Hz									

Model No.	KSL-80	KSL-120	KSL-160	KSL-200	KSL-240	KSL-280	KSL-320
<b>Lumens @ 5000K</b>	8357	12509	16655	19894	24653	28693	33428
<b>Nominal Power</b>	80W	120W	160W	200W	240W	280W	320W
<b>Net Weight</b>	7.09kg	8.22kg	8.88kg	10kg	10.83kg	11.47kg	12.49kg
<b>EPA (1 Fixture at 0° mount)</b>	0.5sq. ft.	0.54sq. ft.	0.59sq. ft.	0.63sq. ft.	0.67sq. ft.	0.72sq. ft.	0.76sq. ft.
<b>Gross Weight</b>	8.16kg	9.35kg	10.05kg	11kg	12.15kg	12.84kg	13.91kg
<b>Dimensions (L x W x H)</b>	523 x 345 x 116(mm)	583 x 345 x 116(mm)	643 x 345 x 116(mm)	703 x 345 x 116(mm)	763 x 345 x 116(mm)	823 x 345 x 116(mm)	883 x 345 x 116(mm)
<b>Carton Dimensions (L x W x H)</b>	595 x 425 x 160(mm)	655 x 425 x 160(mm)	715 x 425 x 160(mm)	775x 425 x 160(mm)	835 x 425 x 160(mm)	895 x 425 x 160(mm)	955 x 425 x 160(mm)
<b>Input</b>	UH - 347-480V AC 50/60Hz						

Drive current: KSL\*-U: 530mA KSL\*-UH: 700mA

#### General specifications for all the above models.

##### Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

##### Lifetime per TM21 and working temperature:

3. Reported L70 Lifetime: >60,000 hours .  
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta):  
-40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

##### Typical Luminous Efficacy:

- 5.KSL\*-U models: 110 lm/w ( 5000K CCT, Ra>70).
- 6.KSL\*-UH models: 100 lm/w ( 5000K CCT, Ra>70). System Efficacy and power are customized, e.g. 130 lm/W.

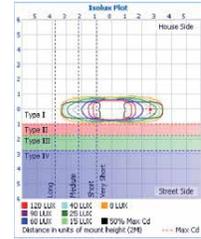
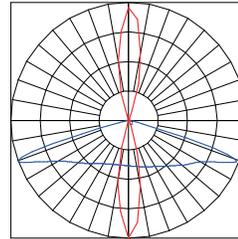
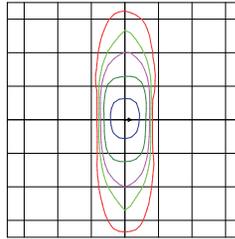
##### Materials

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: PHILIPS or MEANWELL.
9. Optional NEMA photocell with its receptacle, or shorting cap with its receptacle.
10. Optional motion sensing dimmer for future energy saving and intelligent lighting control.
11. Optional bird spike to avoid bird waste pollution
12. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring, two axis T-shaped bubble level for ease of leveling and tilting angle setup as well.
13. Die cast aluminium LED driver compartment, spigot, and led light bar end cap with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

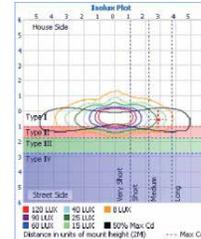
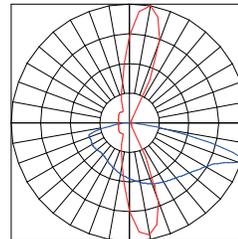
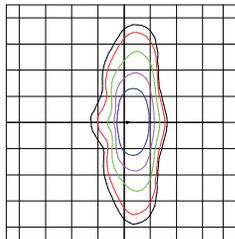
## KSL- LED ROADWAY/STREET LIGHT

### PHOTOMETRICS

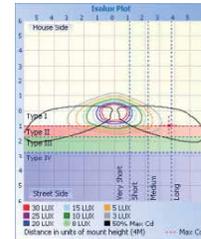
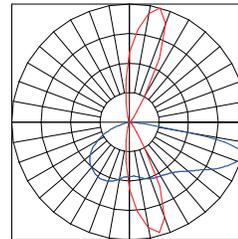
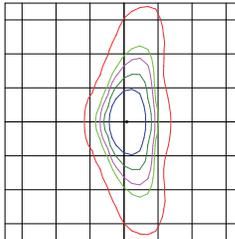
Optic Lens code: T1M  
IES Classification: IES Type I Medium



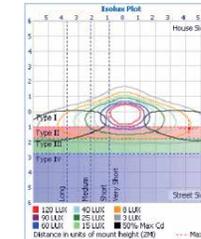
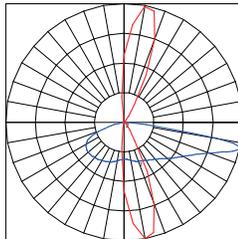
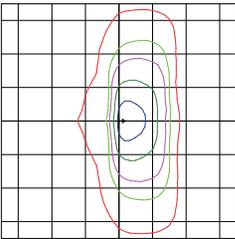
Optic Lens code: T2M  
IES Classification: IES Type II Medium



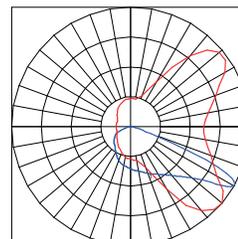
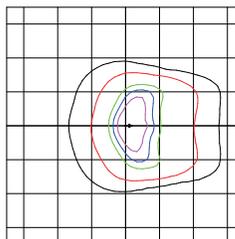
Optic Lens code: T3M  
IES Classification: IES Type III Medium



Optic Lens code: T3L  
IES Classification: IES Type III Long



Optic Lens code: T4S  
IES Classification: IES Type IV Short



## KSL- LED ROADWAY/STREET LIGHT

### ■ MOUNTING AND OPTIONAL ACCESSORIES

**1** Pole-arm (or horizontal tenon), Outer Diameter (O.D.) 42mm(1.660")-60mm(2.375"), insert depth 120mm(4.724").

**2** Spigot inner diameter 62mm (2.441").

**3** Smaller pole-arm in diameter can be fixed to the spigot via an adapter (or spacer).

**4** Adapter (spacer): O. D. 60mm(2.375"), inner diameter is 2mm(0.079") bigger than the O. D. of the smaller pole-arm. Length 110mm(4.331"), screw hole diameter 12mm(0.470"). Wall thickness of the adapter is customized.

**5** ±20 degrees adjustable spigot. As a standard, the spigot is assembled to the fixture for pole-arm mounting (or horizontal tenon mount / lateral / side-entry mounting).

**6** No extra accessories are required for pole top mounting. Just disassemble the spigot, then reversely assemble it. The reversely assembled spigot is adjusted ±20 degrees as well.



**7** Optional Field-installed Accessory: Bird Spikes for LED Light Bars.



**8** Two axis T-shaped bubble level as a standard configuration for ease of leveling and tilting angle setup as well.

**9** An optional receptacle and /or its photocell or shorting cap are furnished if desired. For more details, please consult the specsheet in the following page.

**10** An optional external motion sensor based on radar sensing technology for brightness dimming and intelligent wireless lighting control is equipped with the fixture if required.

**11** 10KA, 20KA at 277v/347v surge protectors are optional.

**Easy maintenance and installation tips:**

1. Unscrew the led driver compartment cover in the air, and do not worry about the screws may drop off because of the human centered design.
2. Press WAGO branded terminal block to connect or disconnect wire leads (#20-#12 AWG).
3. Use fingers only to release or fix the WAGO branded quick connectors to connect or disconnect wire leads.

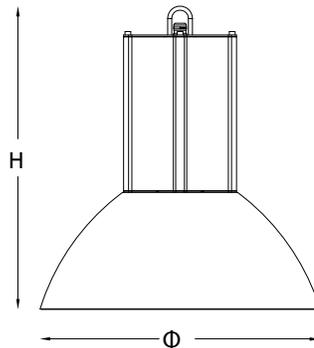
KHB - TRADITIONAL LED HIGH BAY



Certified by TUV-sud according to the following standards:

- IEC /EN 60598-1: 2008
- IEC /EN 60598-2-3/A1: 2011
- EN 62493:2010
- IEC62471: 2008
- IEC62471-2:2009
- EN 55015: 2013
- EN61547:2009
- EN61000-3-2/A2:2009
- EN 61000-3-3:2013

**DIMENSIONAL DRAWING**



**FEATURES & BENEFITS**

- 1) Compact, low-profile and lightweight mechanical construction design.
- 2) Ideal direct replacement for HID and fluorescent high/low bay lights, saving energy and re-lamp maintenance costs significantly.
- 3) Unique optic design provide excellent light distribution performance.
- 4) Flexible mounting choices, hook, cable, pendant, junction box direct mount.
- 5) Environmentally friendly packaging materials (EPE).

**APPLICATIONS**

Interior high-bay, low-bay, auto dealership, education, municipal, retail and grocery, industrial and warehouses.

**KHB - TRADITIONAL LED HIGH BAY**

**ORDERING INFORMATION**

**Example 1: KHB-40-T5R-50K-BK-00**

Product ID	Power (W)	Optic Lens	CCT* (ANSI)	Housing Color**	Lighting Control
KHB	<b>40</b> 40W	T5R	<b>30K</b> 3045 ±175K	<b>BK</b> Black (RAL:9011)	<b>BLANK</b> Not required
	<b>60</b> 60W		<b>40K</b> 3985 ±275K	<b>GR</b> Grey (RAL:7004)	
	<b>90</b> 90W		<b>50K</b> 5028 ±283K		
	<b>120</b> 120W		<b>57K</b> 5700 ±355K		
	<b>200</b> 200W				

**Notes:**

● **CCT\*:**

1. LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
2. LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
3. LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

● **Housing Color\*\*:**

1. BK (Black) housings are always in stock largely to support prompt delivery of finished products.
2. GR (Grey) housing are available too, and the unit price of the finished product. with these types of housings may be different from that with black housing, but the lead time is longer relatively.
3. Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

1: Photocell and 1-10V dimming interface (wire) are available based on customization request.

## KHB - TRADITIONAL LED HIGH BAY

### BRIEF SPECIFICATIONS

Model No.	KHB-40	KHB-60	KHB-90	KHB-120	KHB-200
Lumens @ 5000K	3742	6022	8551	12110	19408
Power	40W	60W	90W	120W	180W
Net Weight	2.5kg	2.46kg	2.7kg	5.31kg	5.36kg
Gross Weight	4.17kg	4.13kg	4.37kg	6.98kg	7.03kg
Dimensions	Φ330*H400			Φ480*H560	
Carton Dimensions	555 x 415 x 210mm			770 x 570 x 270mm	
Input	90-305V AC				

#### General specifications for all the above items:

##### Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

##### Lifetime and working temperature:

3. L70 Lifespan: >50,000 hours.

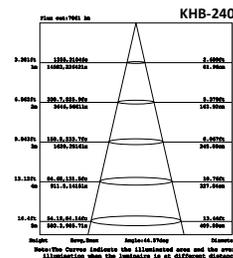
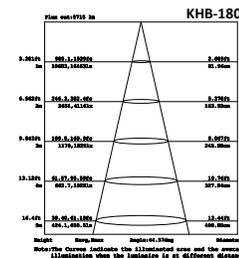
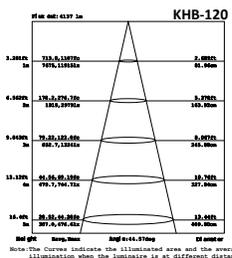
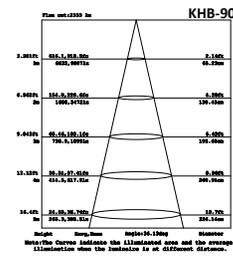
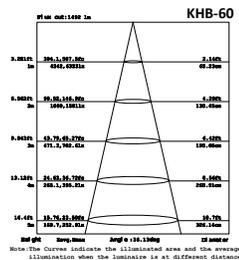
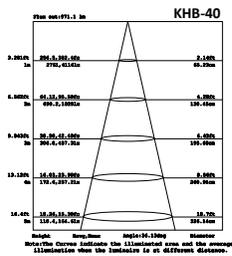
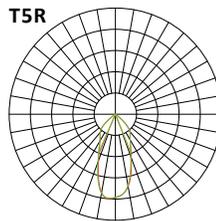
##### Typical Luminous Efficacy:

4. Typical Luminous Efficacy: 100 lm/w ( 5000K CCT, Ra>70).
5. System Efficacy and power are customized, e.g. 130 lm/w.

##### Materials:

6. LED option: CREE or PHILIPS Lumileds.
7. LED Driver Origin: MEANWELL.
8. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.

### PHOTOMETRICS



**KFL- HIGH OUTPUT FLOODLIGHT / BAY LIGHT**



**lighting facts** (Pending)

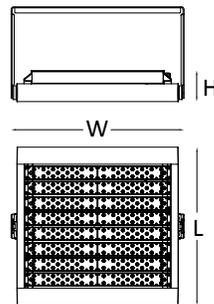
**CE CB IP67 IK08 ErP**

Compliant with the following standards :

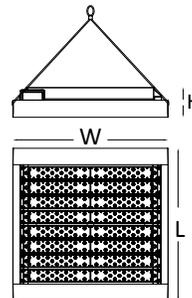
- IEC /EN 60598-1: 2008
- IEC /EN 60598-2-3/A1: 2011
- EN 62493:2010
- IEC62471: 2008
- IEC62471-2:2009
- EN 55015: 2013
- EN61547:2009
- EN61000-3-2/A2:2009
- EN 61000-3-3:2013
- (EU) 1194/2012:2012-12-12
- (EC) 244/2009:2009-03-18

**Ik08 rating, 1000 hours salt mist test reports are furnished upon request.**

**DIMENSIONAL DRAWING**



Mounting Type U



Mounting Type C

**FEATURES & BENEFITS**

- 1) Patented mechanical design and thermal management.
- 2) Compact, low profile design. Smaller in size and weight.
- 3) Standard 700mA drive current only, 100lm/W system efficacy.
- 4) Incomparable wattage (450W, 600W, 750W and 900W), lumen output and optic choices
- 5) Powered by the worldwide best LED, LED drivers, and other key components.
- 6) Compliant with almost all the major product qualifications e. g cULus, DLC, CE, CB.
- 7) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 9) Environmentally friendly packaging materials (EPE).

**APPLICATIONS**

Commercial and industrial high bay/super bay, airport hangars, and gymnasiums etc.

**KFL- HIGH OUTPUT FLOODLIGHT / BAY LIGHT**

**ORDERING INFORMATION**

Example 1: KFL-600-U-T5M-50K-BK-00-Y  
 Example 2: KFL-450-UH-T5L-50K-BK-00-C

Application	Product ID	Power (W)	Voltage	or	Product ID	Power (W)	Voltage	CCT* (ANSI)	Housing Color**	Optic Lens	Lighting Control	Mounting
FL	KFL	450 450W	U-120-277		KCL	450 450W	UH - 480	30K 3045 ±175K	BK Black (RAL:9011)	T1M	BLANK Not required	U - Yoke
		600 600W				T2M						
		750 750W				T3M						
		900 900W				40K 3985 ±275K		GR Grey (RAL:7004)	T3L	PC Photocell	C - Cable	
								50K 5028 ±283K	WH White (RAL:9010)	T5V		
										T5W		
										T5S		
										T5M		
										T5L		
										T5D		

**Notes:**

- **CCT\*:**
  - LEDs at 5000k CCT are always in stock largely to support prompt delivery of finished products.
  - LEDs at 3000k, 4000k, 5700k CCT are in stock as well, but the quantity is small to meet small needs, and the shipment for the finished products with these LEDs cannot be made sooner than those with LEDs at 5000k CCT.
  - LEDs at CCT or wavelength (unit nm) which is not in stock are available upon request, but the lead time for the finished products with these types of LEDs cannot be soon, also the unit price is higher.

- **Housing Color\*\*:**
  - BK (Black) housings are always in stock largely to support prompt delivery of finished products.
  - GR (Grey), WH (White), BZ (Bronze) housing are available too, and the unit price of the finished product with these types of housings may be different from that with black housing, but the lead time is longer relatively.
  - Other housing colors which are not mentioned can be customized, but the unit price is higher, the lead time is much longer.

- **Optic Lens Options:**
  - T1M: Type I Medium
  - T5U: 10°
  - T5V: 25°
  - T5W: 40°
  - T5S: 60°
  - T5M: 90°
  - T5L: 120°
  - T5D: 120° (frosted front cover, glare resistant)
  - T2M, T3M, T3L, T4S: Under Development

1, 2: Photocell and motion sensing are available based on customization request.  
 2: DALI control is not available.

**KFL- HIGH OUTPUT FLOODLIGHT / BAY LIGHT**

**BRIEF SPECIFICATIONS**

Model No.	KFL-450-U	KFL-450-UH	KFL-600-U	KFL-600-UH	KFL-750-U	KFL-750-UH	KFL-900-U	KFL-900-UH
Lumens @ 5000K	54238		70957		89852		106792	
Power	450W		600W		750W		900W	
Net Weight	19.63kg		23.21kg		27.45kg		30.72kg	
Gross Weight	21.68kg		25.76kg		30.07kg		33.72kg	
Dimensions (L x W x H)	502 x 680 x 123mm		622 x 680 x 123mm		742 x 680 x 123mm		862 x 680 x 123mm	
Carton Dimensions (L x W x H)	605 x 740 x 170mm		725 x 740 x 170mm		845 x 740 x 170mm		965 x 740 x 170mm	
Input	120-277V AC 220-240V AC	347-480V AC						

**Drive current**

1. KFL: 700mA

**General specifications for all the above items:**

**Electrical:**

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

**Lifetime and working temperature:**

3. Reported L70 Lifetime: >60,000 hours .  
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

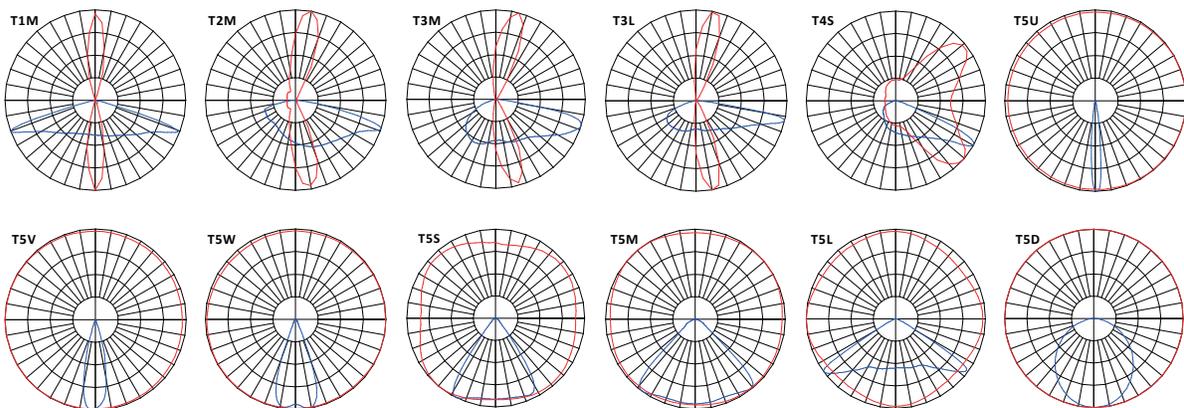
**Typical Luminous Efficacy:**

5. Typical Luminous Efficacy 100 lm/w ( 5000K CCT, Ra>70).
6. System Efficacy and power are customized, e.g. 130 lm/W.

**Materials:**

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: PHILIPS or MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
10. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.

**PHOTOMETRICS**



**KAL- HIGH OUTPUT AREA LIGHT/POLE LIGHT**



cUL<sup>US</sup> LISTED lighting facts (Pending)

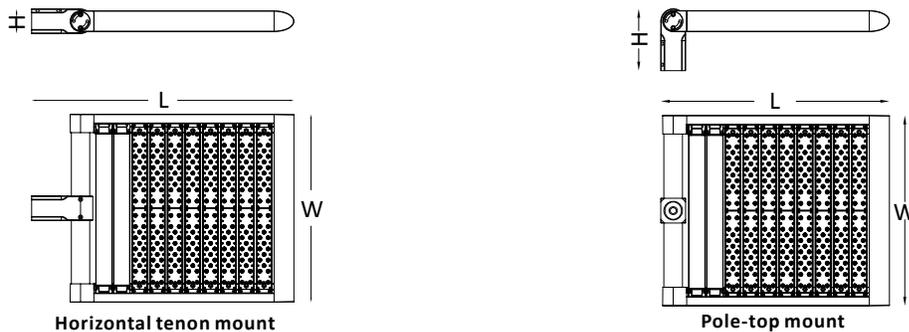
**CE CB IP67 IK08 ErP**

Compliant with the following standards :

- IEC /EN 60598-1: 2008
- IEC /EN 60598-2-3/A1: 2011
- EN 62493:2010
- IEC62471: 2008
- IEC62471-2:2009
- EN 55015: 2013
- EN61547:2009
- EN61000-3-2/A2:2009
- EN 61000-3-3:2013
- (EU) 1194/2012:2012-12-12
- (EC) 244/2009:2009-03-18

**10** Years Warranty

**DIMENSIONAL DRAWING**



**FEATURES & BENEFITS**

- 1) Patented mechanical design and thermal management.
- 2) Compact, low profile design. Smaller in size and weight.
- 3) Standard 700mA drive current only, 100lm/W system efficacy.
- 4) Incomparable wattage (450W, 600W, 750W and 900W), lumen output and optic choices.
- 5) Powered by the worldwide best LED, LED drivers, and other key components.
- 6) Meet all the major product qualifications e. g cULus, DLC, CE, CB.
- 7) The most competitive in cost performance, and one of the best ownership costs. 10 years limited warranty, free from maintenance for 10 years at least, the most competitive in operating cost, soonest in return on investment (ROI) or payback.
- 8) Environmentally friendly packaging materials (EPE).

**APPLICATIONS**

- |  |   |
|--|---|
| <ol style="list-style-type: none"> <li>1. Airport Illumination</li> <li>2. Auto Dealership Illumination</li> <li>3. Government Facilities Illumination</li> <li>4. Municipal Illumination</li> </ol> | <ol style="list-style-type: none"> <li>5. Parking Structure Illumination</li> <li>6. Petroleum &amp; Convenience Illumination</li> <li>7. Recreation &amp; Public Venue Illumination</li> <li>8. Other high-lumen applications</li> </ol> |
|--|---|



## KAL- HIGH OUTPUT AREA LIGHT/POLE LIGHT

### BRIEF SPECIFICATIONS

Model No.	KAL-450-U	KAL-450-UH	KAL-600-U	KAL-600-UH	KAL-750-U	KAL-750-UH	KAL-900-U	KAL-900-UH
Lumens @ 5000K	54238		70957		89852		106792	
Power	450W		600W		750W		900W	
Net Weight	19.63kg		23.21kg		27.45kg		30.72kg	
Gross Weight	20.63kg		24.71kg		29.02kg		32.67kg	
Dimensions (L x W x H)	765 x 635 x 83mm		885 x 635 x 83mm		1065 x 635 x 83mm		1185 x 635 x 83mm	
Carton Dimensions (L x W x H)	843 x 740 x 170mm		963 x 740 x 170mm		1143 x 740 x 170mm		1263 x 740 x 170mm	
EPA	0.778sq.ft		0.846sq.ft		0.959sq.ft		1.034sq.ft	
Input	120-277V AC 220-240V AC	347-480V AC						

#### Drive current

1. KAL-\*: 700mA

#### General specifications for all the above items:

##### Electrical:

1. Power Factor: >0.95 at full load.
2. Total Harmonic Distortion: <20% at full load.

##### Lifetime and working temperature:

3. Reported L70 Lifetime: >60,000 hours .  
Calculated L70 Lifetime: >100,000 hours.
4. Ambient Temperature (Ta): -40 to 50 degrees celcius (-40 to 122 degrees Fahrenheit).

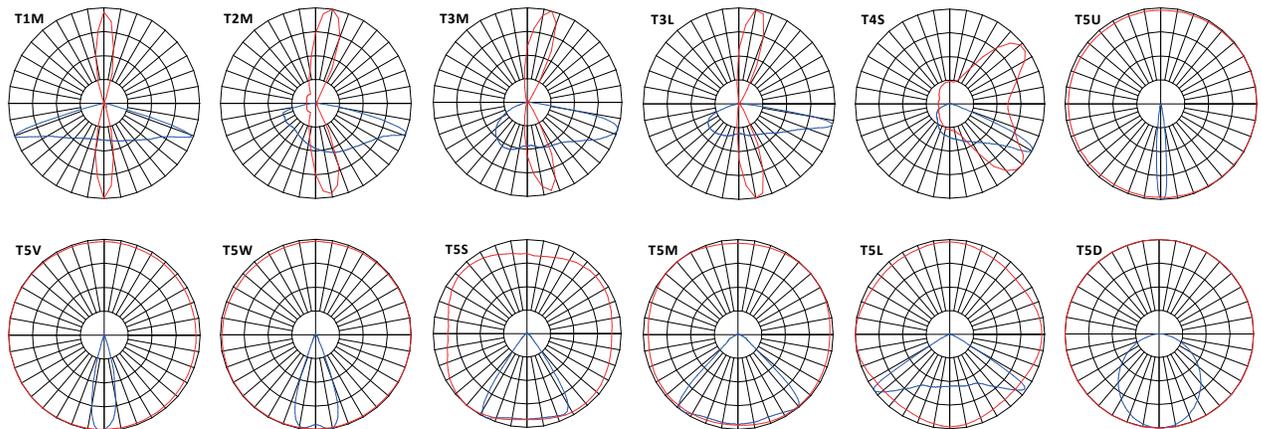
##### Typical Luminous Efficacy:

5. Typical Luminous Efficacy: 100 lm/w ( 5000K CCT, Ra>70).
6. System Efficacy and power are customized, e.g. 130 lm/W.

##### Materials:

7. LED option: CREE or PHILIPS Lumileds.
8. LED Driver Origin: PHILIPS or MEANWELL.
9. Worldwide top brand quick connector for tool-free wiring, and terminal block for easiest wiring.
10. Extruded aluminium LED driver compartment with die cast aluminium end cap, and led light bar end caps with corrosion resistant powder coating. Extruded aluminium alloy heat sink with anodized finish. 304 graded stainless steel protective cover to protect UV resistant polycarbonate lenses.
11. Suitable for 60mm(2.375") outer diameter pole-arm mount

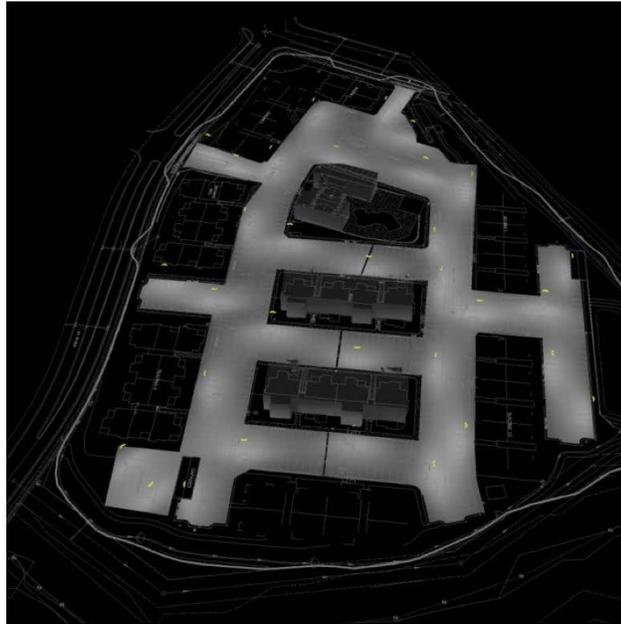
### PHOTOMETRICS



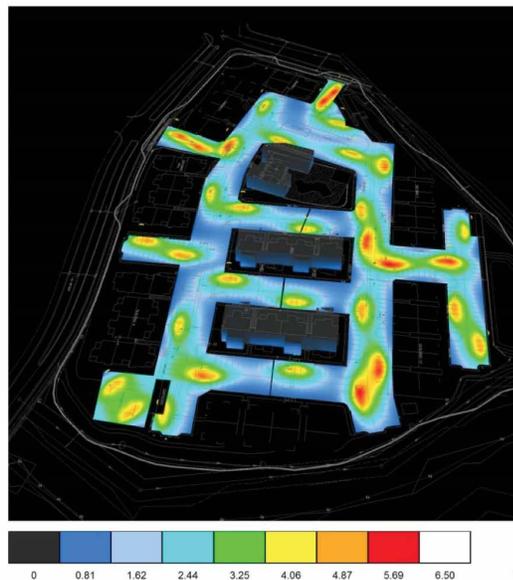
PHOTOMETRIC LAYOUTS

DESCRIPTION

RazrLites can create a precise photometric layout for your project utilizing your CAD drawing.



Our engineers can maximize the efficiency of any design with our State-of-the-Art fixture line up.



Call our customer service line today to find out how we can help you win your next bid with this valuable service

## PHOTOCELL

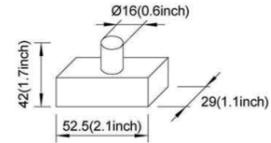
### PRODUCT SUMMARY



**ANSI C136.10-1996 Twist Lock**  
**Time Delay 30~120 seconds**  
**Temperature compensate**  
**Various Enclosures**  
**Lightning Arrester Available**  
**1" Photocell Deluxe Version Available**

1. The photocell PCA, PCB series is applicable to control the street lighting, garden lighting, passage lighting and doorway lighting automatically in accordance with the ambient natural lighting level. This product is designed on the basis of thermal - bimetallic structure that provides time delay over 30 seconds to avoid mis-operation due to spotlight or lightning during the night time. A temperature compensation system provides consistent performance regardless to the ambient temperature.

2. This product provides three twist-lock terminals meeting the requirements of ANSI C136.10-1996 and the Standard for Plug-In, Locking Type Photocell for Use with Area Lighting UL773, 4th Edition, dated Jan. 19th, 1995. PCA, PCB series has been listed by UL Inc for United States and Canada.



**SPST-NO**  
**Thermal switch**  
**Polycarbonate enclosure & eye**  
**1/2" CDS photocell**  
**3/8"- 18 thread nipple, with rubber gasket & plastic lock nut**  
**High grade leads available**

1. Applicable to control passage lighting and doorway lighting automatically in accordance with the ambient lighting level.
2. UL & C-UL listed by UL Inc and is comply with the Standard for Non-industrial Photoelectric Switches for lighting Control UL773A
3. Raintight, applicable for outdoor purpose

### TECHNICAL DATA

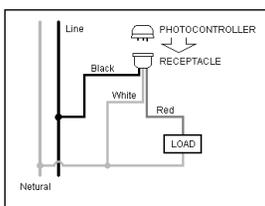
Model No.	PC-TL-120	PC-TL-277	PC-BT-120	PC-BT-277
Nominal Rated Voltage	90-120V AC	220-277V AC	90-120V AC	220-277V AC
Applicable Volt Range	Nominal +/-10%		Nominal +/-10%	
Rated Frequency	50/60Hz		50/60Hz	
Rated Loading	1200W	1800W	600W	1000W
Power Consumption	1.5VA (Average)		1.5VA Max	
Standard Operate Level	10~20Lx On, 30~60Lx Off		10~20Lx On(Dusk); 30~60Lx Off(Dawn)	
Ambient Temperature	-40 ~ +70		-40 ~ +70	
Related Humidity	99%		99%	
Overall Dimensions (mm)	Φ74 x 50mm		52.2(L) x 29(w) x 42(H)mm	
**Enclosure Color (M/H)	Gray		Black	
**Clear Enclosure (Null)	Available		Available	
Weight Approx.	62~90grs		32grs	

**Materials: Enclosure & Lens – High impact UV stabilized Polycarbonate**  
**Base – High impact Polybutylene terephthalate**  
**Photocell – Cadmium Sulfide 0.5" with heat sink (Standard) / 1" (Deluxe)**

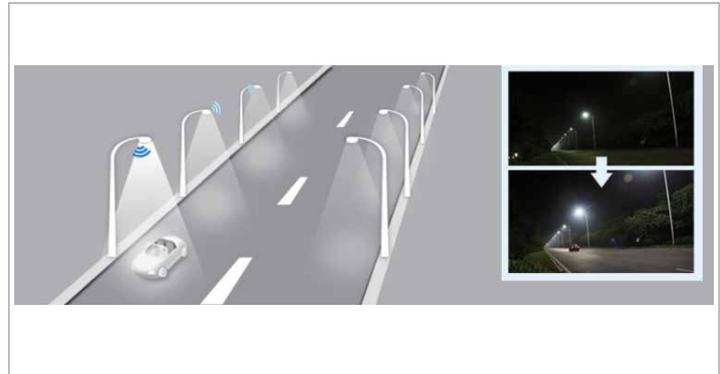
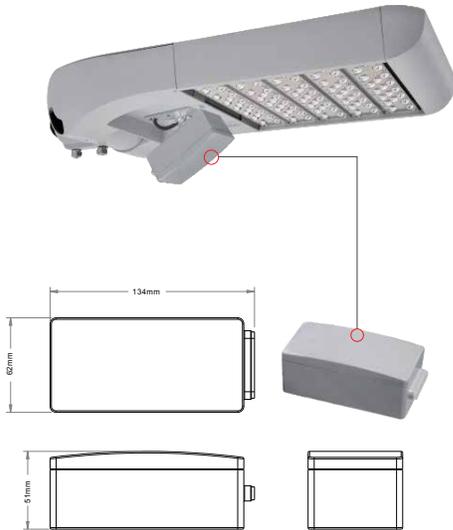
### INSTALLATION

Disconnect power; wire the color coded receptacle according to the diagram below.  
 Push the photocell on and twist it clockwise to lock it into the receptacle.

**Install the photocell with the Photocell facing the NORTH direction as indicated on the top of the photocell.**  
 Adjust the receptacle position if necessary.



**MICROWAVE MOTION SENSOR**



Model No.: MMS277

**Applications and Features**

The sensor is mainly used for the roadway automatic lighting control or roadway lighting real-time dimming control for energy saving purpose. The sensor detects the moving object(s) and transmits the preset 1-10v dimming control signal to the led electronic driver (s) with 1-10v dimming interface so as to activate the 1-10v dimmable led driver. The qualified technician authorized by the end user can set codes by themselves so as to preset the delay period, brightness dimming, power-on delay period etc. The sensor can be equipped with a wireless transceiver as well, thus the wireless communication grouping frequency band (WCGFB) can be set to make all the motion sensors in WCGFB installed to the led street lights communicate by themselves, as a result the led street lights with MMS277 equipped which are not in MMS277 detection range are activated and dimmed to a preset percentage of brightness in advance, e.g. 100% brightness (lumen output) for enough driving security and safety.

**Technical Parameters**

- Rated Operating Voltage: 120-277VAC 50/60Hz
- Ingress Protection Rating : IP67
- Compliance: UL, FCC
- Lifetime : 50,000 hours

**Operating Environment Requirements**

- Operating Ambient Temperature : -40 - 60
- Applicable Mounting Height : 6-18m. Maximum mounting height is 30 meters, but the sensing range is decreased. To achieve the same sensing performance, the sensing surface of the moving object is required to be increased, or increase the speed of the moving object, e.g. a running car.
- Detection Range: A rectangular area under a 120°× 60° detection angle.
- Detection Sensitivity: The motion sensor is mainly used for the detection and reaction for the automobiles on the roadway. The detection sensitivity rating is 100% if the speed of the automobile is 20km/h~150km/h, while there is no metal plate or glass cover to block the sensor. If the speed of the automobile is less than 20km/h~150km/h, or there are passing pedestrians only, the sensitivity is supposed to be lowered. To remain the sensitivity, another model # MSB277 is the choice.

**Function Code Set**

a) 100% brightness hold-on time

1	2	3	Delay period
			5s
			1min
			3min
			10min

b) Brightness Dimming Preset Function  
(Constant Voltage Output 5v/3v/2v/1.5v)

4	5	Constant Voltage Output	Luminaire Brightness Ratio
		5V	45-50%
		3V	25-30%
		2V	15-20%
		1.5V	5-10%

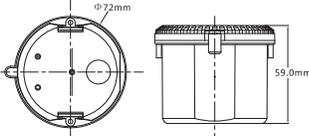
c) Dimming Start-up Delay

6	7	8	Power-on Detection Period
			10s
			4h
			6h
			8h

d) Wireless Management Grouping Configuration

9	10	Wireless Communication Frequency Band
		A
		B

## MICROWAVE MOTION SENSOR

MMS-P277	DIP SWITCH CONFIGURATION																																																																																																							
 <ul style="list-style-type: none"> <li>● Automatic dimming when used in combination with 1-10V dimmable LED drivers or ballasts</li> <li>● Built-in adjustable daylight sensor</li> <li>● Detection area, time delay and daylight threshold can be precisely set via DIP switch</li> <li>● Wide detection area, range up to 16m in diameter and mounting height 15M Max suitable for warehouse use</li> <li>● Special clip for installation easy to be fixed with high bay</li> <li>● Three kinds of installation</li> <li>● IP65 rated.</li> </ul> 	<p><b>a) Detection Area</b></p> <table border="1"> <tr> <td>ON</td> <td></td> <td>1</td> <td></td> </tr> <tr> <td>I</td> <td></td> <td>ON</td> <td>100%</td> </tr> <tr> <td>II</td> <td></td> <td>-</td> <td>50%</td> </tr> </table> <p><b>b) Hold Time</b></p> <table border="1"> <tr> <td>ON</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>I</td> <td>ON</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>II</td> <td>-</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>III</td> <td>ON</td> <td>-</td> <td>ON</td> </tr> <tr> <td>IV</td> <td>-</td> <td>-</td> <td>ON</td> </tr> <tr> <td>V</td> <td>ON</td> <td>ON</td> <td>-</td> </tr> <tr> <td>VI</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> <p><b>c) Stand-by Period</b></p> <table border="1"> <tr> <td>ON</td> <td>5</td> <td>6</td> <td>7</td> </tr> <tr> <td>I</td> <td>ON</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>II</td> <td>-</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>III</td> <td>ON</td> <td>-</td> <td>ON</td> </tr> <tr> <td>IV</td> <td>-</td> <td>-</td> <td>ON</td> </tr> <tr> <td>V</td> <td>ON</td> <td>ON</td> <td>-</td> </tr> <tr> <td>VI</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table> <p><b>d) Stand-by Dimming Level</b></p> <table border="1"> <tr> <td>ON</td> <td>8</td> <td>9</td> </tr> <tr> <td>I</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>II</td> <td>-</td> <td>ON</td> </tr> <tr> <td>III</td> <td>ON</td> <td>-</td> </tr> <tr> <td>IV</td> <td>-</td> <td>-</td> </tr> </table> <p><b>e) Daylight sensor</b></p> <table border="1"> <tr> <td>ON</td> <td>10</td> <td>11</td> <td>12</td> </tr> <tr> <td>I</td> <td>ON</td> <td>ON</td> <td>ON</td> </tr> <tr> <td>II</td> <td>-</td> <td>ON</td> <td>-</td> </tr> <tr> <td>III</td> <td>ON</td> <td>-</td> <td>-</td> </tr> <tr> <td>IV</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>	ON		1		I		ON	100%	II		-	50%	ON	2	3	4	I	ON	ON	ON	II	-	ON	ON	III	ON	-	ON	IV	-	-	ON	V	ON	ON	-	VI	-	-	-	ON	5	6	7	I	ON	ON	ON	II	-	ON	ON	III	ON	-	ON	IV	-	-	ON	V	ON	ON	-	VI	-	-	-	ON	8	9	I	ON	ON	II	-	ON	III	ON	-	IV	-	-	ON	10	11	12	I	ON	ON	ON	II	-	ON	-	III	ON	-	-	IV	-	-	-
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## TECHNICAL PARAMETERS

Model No.	MMS277	MMS-P277
Operating voltage	120-277VAC, 50/60Hz	120-277VAC, 50/60Hz
Rated load	400W@120VAC, 800W@220-277VAC (inductive) 800W@120VAC, 1200W@220-277VAC (resistive)	N/A
HF system	5.8GHz±75MHz, ISM wave band	10.525GHz
Transmitting power	<0.5mW	<0.5mW
Power consumption	≤0.8W(standby), <1.5W(operation)	≤0.8W
Detection zone	Max.(D x H): 16m x 15m	Max.(D x H): 10m x 25m
Detection sensitivity	100% / 50%	N/A
Hold time	5s / 30s / 90s / 3min / 20min / 30min	5s / 1min / 3min / 10min
Daylight sensor	50lux / 100lux / 200lux / Disable	N/A
Stand-by period	5s / 5min / 10min / 30min / 1h / Disable	N/A
Stand-by dimming level	10% / 20% / 30% / 50%	5-10% / 15-20% / 25-30% / 45-50%
Mounting height	15m Max.	15m Max.
Motion detection	0.5~3m/s	20-120Km/h
Detection angle	150°(wall installation), 360°(ceiling installation)	Rectangle Area: 120°(L) x 60°(W)
Operating temperature	-35°C~70°C	-40°C~60°C

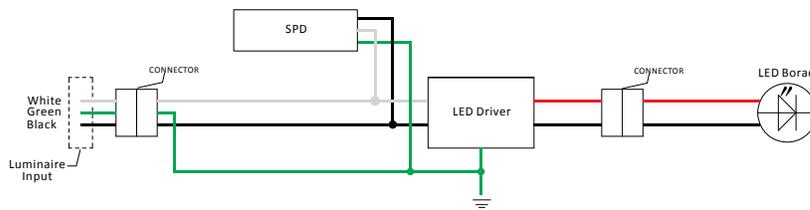
**SURGE PROTECTION DEVICE**

**FEATURES**

Adapted to SSL outdoor lighting, the SPD277 and SPD480 surge protection device provides single phase protection for line/neutral, line/ground and neutral/ground in accordance with IEEE C62.41 2002C High. The SPD277 and SPD480 small size corresponds to the current design requirements for the new technology luminaires, like a LED light engine in outdoor lighting.



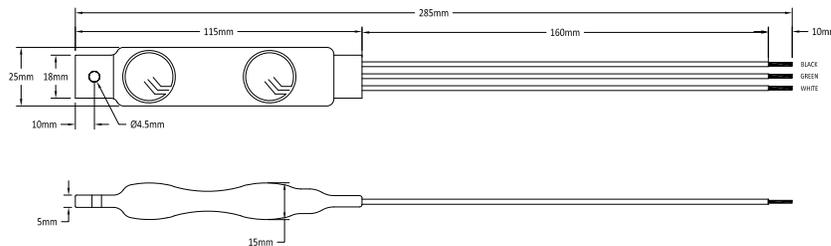
**ELECTRICAL DIAGRAM**



**BRIEF SPECIFICATIONS**

<b>Voltage Input:</b>	120V-277V (+/- 5%)		347V-480V (+/- 5%)	
<b>Frequency:</b>	50Hz-60Hz		50Hz-60Hz	
<b>Clamping Voltage:</b>	320V		625V	
<b>Maximum Energy:</b>	430 Joules	850 Joules	630 Joules	1260 Joules
<b>Maximum Peak Current:</b>	10kA (8/20µs standard wave)	22kA (8/20µs standard wave)	10kA (8/20µs standard wave)	22kA (8/20µs standard wave)
<b>Wiring:</b>	14 Gauges stranded wires, 200 , 600V			
<b>Wire Connections:</b>	Black and white: 10mm skinned and thin platted Green: 10mm skinned with terminal malt			
<b>Mounting hole:</b>	Φ5mm			

**DIMENSIONAL DRAWING**





**Please Call for Availability and Pricing on Exit and Emergency Lighting Fixtures**



All exit signs and emergency products are UL924 listed and meet NFPA Life Safety Codes 101\* and 101B\*

### STANDARD PRODUCTS LIMITED WARRANTY

RazrLites warrants to the purchaser that the product that is in the subject of this sale, (a) conforms to the manufacturer's published specifications and (b) is free from defects in materials and workmanship.

The standard warranty terms and conditions for RazrLites direct replacement lamps are listed below.

RazrLites products are to be free from manufacturer's defects or defects in workmanship for a period of five (5) years unless agreed to in writing on a commercial invoice.

### CONDITIONS OF WARRANTY

For warranty service evaluation, a Return Materials Authorization (RMA) number must be obtained by calling the RazrLites customer services department. Packages returned without the RMA #printed clearly on the outside carton or documentation may be refused. Warranty service requiring the return of any product to RazrLites: the product must be returned in its original shipping container, or equivalent that properly provides a high depth of cushioning and protection from rough shipping conditions. Under NO circumstances will RazrLites honor any warranty claim on damage deemed to have been caused by the shipping company, insurance agents, or officials.

Purchaser will notify RazrLites AND freight company if the product arrives damaged. Purchaser agrees to hold RazrLites harmless in the case of shipping damage and will assist RazrLites in the insurance claim process. Parts replaced under warranty will become the property of RazrLites and must be returned to RazrLites or a facility designated by RazrLites. RazrLites will issue a credit when the defective units are received, evaluated, and determined to have failed under warranty conditions.

RazrLites agrees to replace and/or repair any defective parts during the warranty period free of charge. Labor for warranty service will be performed at a RazrLites designated facility or as mutually agreed in writing for the specific claim. The purchaser will be solely responsible for all shipping to RazrLites and/or customs (if applicable) associated with warranty returns and service. If the return is declared a warranty repair by RazrLites, RazrLites will return the repaired product to the purchaser using normal ground or economy shipping at no cost to the purchaser. If the purchaser so desires the product to be returned from RazrLites in expedited fashion, the difference in economy freight and the desired expedited service will be the sole responsibility of the purchaser. RazrLites will insist that the returned product be insured for the total value of the product unless a hold harmless waiver is signed and submitted to RazrLites prior to shipping. Insurance costs will be the responsibility of the purchaser.

Should any on-site warranty service be required; standard daily technician rates and travel costs for RazrLites to perform the warranty service shall be the sole responsibility of the purchaser.

### LIMITATIONS OF WARRANTY

The non-transferable warranty applies only to the original purchaser in the country of purchase. RazrLites does not authorize anyone to make a warranty claim of any kind on its behalf and purchaser should not rely on anyone making such statements. The RazrLites warranty is limited to the repairing and replacing of the equipment, without charge, which proves to be defective under warranty. RazrLites is the sole and final determining authority on validity.

### RETURNS

RazrLites will accept returns within 30 days of receipt, in the original packaging, in original condition. Retrofit kits must not have been installed and be in original sealed package. No credit or refund will be given for product that does not meet the aforementioned criteria. A 25% restocking fee will be assessed from the original material purchase price.







P.O. BOX 11723 NORFOLK, VA 23517 (702) 979-1000

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[www.razrlites.com](http://www.razrlites.com)