



Premium & Standard Series

The ASD-WLP01 series offers a traditional outlook, but with the efficiency only LEDs can deliver. Delivering up to 16,125 lumens these can replace up to 400 watt metal halide units. Glare shields and photocells are also available to meet any building codes and specs. We also offer a 5 year warranty with 75,000 hour L-70 Life. These lights are perfect for retrofit or new construction applications in industrial, warehouse, manufacturing, and commercial properties. More features and benefits are listed below.

Catalog number	
Notes	
Туре	

FEATURES AND BENEFITS: Easy to install, wire and mount Replaces up to 400 Watt Metal Halide

- Replaces up to 400 Watt Metal Halide
- ▶ Borosilicate prismatic glass Lens
- Dusk to down photocell available (optional)
- Glare shield available (optional)
- No maintenance
- Operating temperature of -40°F to 104°F
- Wet location IP65
- L-70 Life > 75.000 hrs
- cULus certified
- 5 Year warranty



PRODUCT LEGEND:

Family	Modification	Watts	Dimmable	CCT	Option	Series
ASD-WLP	01	XX	Х	XX	XX	XXX
LED Traditional Wallpack		30 = 30 W	N = Non-dimmable	50 = 5,000 K	PC = Photocell	PRM = Premium
		50 = 50 W	D = Dimmable		Blank = No photocell	Blank = Standard
		80 = 80 W				
		120 = 120 W				

LED TRADITIONAL WALLPACK:

Model	Watts	Dimming	Option	CCT	Lumens	Dimensions (LxWxH)	DLC
ASD-WLP01-50N50	50 W	No	-	5,000 K	5,969 lm	14 1/8" x 9 1/4"x 7 1/2"	Standard
ASD-WLP01-50N50-PC	50 W	No	Photocell	5,000 K	5,969 lm	14 1/8" x 9 1/4"x 7 1/2"	Standard
ASD-WLP01-30N50-PRM	30 W	No	-	5,000 K	4,132 lm	9 1/2" x 9"x 10 1/4"	Premium
ASD-WLP01-50N50-PRM	50 W	No	-	5,000 K	6,931 lm	14 1/8" x 9 1/4"x 7 1/2"	Premium
ASD-WLP01-80D50-PRM	80 W	Yes	-	5,000 K	11,144 lm	14 1/8" x 9 1/4"x 7 1/2"	Premium
ASD-WLP01-120D50-PRM	120 W	Yes	-	5,000 K	16,125 lm	18 1/2" x 9 1/16"x 9 3/8"	Premium

ORDERING INFORMATION:

Model	Individual Box Size	Individual Box W	eight	UPC	Pcs in one Carton	Carton Size	Carton Weight	GTIN 14 for Carton	
ASD-WLP01-50N50	15.4" x 9.1" x 11.6"	8.4 lbs		819201024414	4	20.9"x20.9"x12"	24.5 lbs	10819201027085	
ASD-WLP01-50N50-PC	15.4" x 9.1" x 11.6"	8.51 lbs		819201021499	-	-	-	-	
ASD-WLP01-30N50-PRM	10.6" x 9.8" x 10.7"	5.9 lbs		819201027088	-	-	-	-	
ASD-WLP01-50N50-PRM	15.4" x 9.1" x 11.6"	8.4 lbs		810050730174	-	-	-	-	
ASD-WLP01-80D50-PRM	15.4" x 9.1" x 11.6"	9.9 lbs		819201027071	-	-	-	-	
ASD-WLP01-120D50-PRM	20.1" x 11.4" x 12.2"	17.2 lbs		819201028504	-	-	-	-	
Accessories model	Name		Ma	aterials	Weight	Dimensio	ons	UPC	
ASD-WLP01-02-PC	Photocell for LED V	Vallpack	F	Plastic	0.08 lb (0.04 kg)	2 1/8" x 1 1/8" x 1 5/8"		819201024445	
ASD-SWLP01-50/80	Glare Shield for LED Wa	llpack WLP01	Alı	uminum	0.83 lb (0.375 kg)	12 3/4" x 9 1/2"	x 10 1/8"	857622006879	
Accessories model	Pcs in one Carton		Cart	on Size	Cartor	ı Weight	GTIN	14 for Carton	
ASD-WLP01-02-PC	200	14	4.17" x 1	1.02" x 16.93"	28.	28.66 lb		10819201024442	
ASD-SWLP01-50/80	8	14	4.37" x 1	3.58" x 13.58"	8.	8.16 lb		10857622006876	











Premium & Standard Series

PRODUCT SPECIFICATIONS:

Construction & Materials										
Lens	Glass									
Housing	Die-Casting Aluminum									
Finish	Bronze									
\M/-:-l-+	ASD-WLP01-50N50	6.8 lb (3.1 kg)	ASD-WLP01-30N50-PRM	4.9 lb (2.2 kg)	ASD-WLP01-80D50-PRM	8.4 lb (3.8 kg)				
Weight	ASD-WLP01-50N50-PC	7.14 lb (3.2 kg)	ASD-WLP01-50N50-PRM	7.1 lb (3.2 kg)	ASD-WLP01-120D50-PRM	15.9 lb (7.2 kg)				
Environmental System										
Work Environment	Suitable for Wet Locations	s, IP65								
Operating Temperature	-40°F to 104°F (-40°C to 41	J°C)								
L-70 Life	> 75,000 hrs									
Optical System										
Luminous Flux	ASD-WLP01-50N50		4,132 lm	ASD-WLP01-80D50-PRM	11,144 lm					
Lummous rtux	ASD-WLP01-50N50-PC	J,707 IIII	ASD-WLP01-50N50-PRM	6,931 lm	ASD-WLP01-120D50-PRM	16,125 lm				
Color Temperature	5,000 K									
CRI	ASD-WLP01-50N50	>70	ASD-WLP01-30N50-PRM	>80	ASD-WLP01-80D50-PRM	>80				
CNI	ASD-WLP01-50N50-PC	>70	ASD-WLP01-50N50-PRM	-00	ASD-WLP01-120D50-PRM	~ 00				
Electrical System										
Input Voltage	100-277V AC 50/60 Hz									
Max input current	ASD-WLP01-50N50	0.52 A	ASD-WLP01-30N50-PRM	0.35 A	ASD-WLP01-80D50-PRM	1 A				
Max Iriput current	ASD-WLP01-50N50-PC	U.32 A	ASD-WLP01-50N50-PRM	0.55 A	ASD-WLP01-120D50-PRM	1.4 A				
Inrush current	ASD-WLP01-50N50	20 A	ASD-WLP01-30N50-PRM	20 A	ASD-WLP01-80D50-PRM	30 A				
IIIIusiicuiteiii	ASD-WLP01-50N50-PC		ASD-WLP01-50N50-PRM	20 A	ASD-WLP01-120D50-PRM	30 A				
Action time (Inrush current)	ASD-WLP01-50N50	0.1 S	ASD-WLP01-30N50-PRM	0.1 S	ASD-WLP01-80D50-PRM	N 1 C				
Action time (inrush current)	ASD-WLP01-50N50-PC	600 mS	ASD-WLP01-50N50-PRM	0.15	ASD-WLP01-120D50-PRM	0.1 S				
AC input range	ASD-WLP01-50N50	min 100V	ASD-WLP01-30N50-PRM	min 100V	ASD-WLP01-80D50-PRM	min 100V				
AC Iriput rarige	ASD-WLP01-50N50-PC	max 277V	ASD-WLP01-50N50-PRM	max 277V	ASD-WLP01-120D50-PRM	max 277V				
Off State Power	0 W									
Power Consumption	ASD-WLP01-50N50	50 W	ASD-WLP01-30N50-PRM	30 W	ASD-WLP01-80D50-PRM	80 W				
<u>'</u>	ASD-WLP01-50N50-PC	30 44	ASD-WLP01-50N50-PRM	50 W	ASD-WLP01-120D50-PRM	120 W				
Power Factor	≥ 0.9									
Output voltage	ASD-WLP01-50N50	40-66 V	ASD-WLP01-30N50-PRM	36-60 V	ASD-WLP01-80D50-PRM	75-125 V				
output vollage	ASD-WLP01-50N50-PC	40 '00 V	ASD-WLP01-50N50-PRM	40-66 V	ASD-WLP01-120D50-PRM	75-125 V				
Max output current	ASD-WLP01-50N50	750 mA	ASD-WLP01-30N50-PRM	500 mA	ASD-WLP01-80D50-PRM	640 mA				
Max onthat callelit	ASD-WLP01-50N50-PC		ASD-WLP01-50N50-PRM	750 mA	ASD-WLP01-120D50-PRM	960 mA				
LED Driver Class	ASD-WLP01-50N50	Class B	ASD-WLP01-30N50-PRM	Class B	ASD-WLP01-80D50-PRM	Class B				
LED DUAGE CIG22	ASD-WLP01-50N50-PC	No	ASD-WLP01-50N50-PRM	CIdSS D	ASD-WLP01-120D50-PRM	Uld55 D				

The LED Wallpack is designed to install as a surface mounted luminaire.

Dimming compatible controls			
Leviton	DS710	IP710	
Lutron	NTSTV-DV	NFTV	DVTV-WH
Legrand	H4FBL3PW		
Warranty & Certifications			

5-year limited warranty

DesignLights Consortium (DLC) listed (Classification: Standard and Premium)
Main: Outdoor Luminaires;
General Application: High Output;
Primary Use: Outdoor Non-Cutoff and Semi-Cutoff Wall-Mounted Area Luminaires

cULus certified E473804

PACKAGE CONTENTS:

Description	Q-ty
LED Traditional Wallpack	1
Вох	1
Installation Instructions	3

ACCSESSORIES (sold separately):
This light includes an optional Photocell which activates the light during low illumination (At Dusk) and de-activates the light when illuminated (At Dawn).

Photocell for LED Traditional Wallpack								
Model	ASD-WLP01	ASD-WLP01-02-PC						
On a rate Lavel	10-20 Lx	ON						
Operate Level	30-80 Lx	OFF						
Glare Shield for LED Trac	litional Wallpack	WLP01 50-80W						
Model	ASD-SWLP0	1-50/80						
Material	Aluminum							
Finish	Bronze	Bronze						
Dimensions (LxWxH)	12 3/4" x 9 1	12 3/4" x 9 1/2"x 10 1/8"						











Premium & Standard Series

INSTALLATION GUIDE

IMPORTANT SAFETY INFORMATION:

Please read all the instructions below before installation.

- Make sure that the supply voltage corresponds to the rated product voltage.
- The product must be installed by a qualified electrician in accordance with the National Electrical Code and corresponding local codes.
- If the product is damaged, do not use it.

A WARNING

RISK OF PERSONAL INJURY — READ and follow all WARNINGS and installation instructions.

Keep or give to the owner for future reference

Risk of cuts: Wear gloves to prevent cuts or abrasions when removing from carton, handling, installing, and maintaining this product.

Risk of electric shock: This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

Risk of Fire: Minimum 194°F supply conductors. Consult a qualified electrician to ensure correct branch circuit conductor.

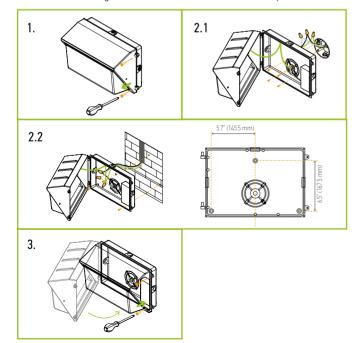
ASD® assumes no responsibility for claims arising out of improper or careless installation or handling of this product.

INSTALLATION STEPS:

- 1. Use a screwdriver to loosen (2) screws securing fixture door and open it.
- 2. Can be mounted to a junction box (see 2.1) or directly to a wall (see 2.2).
- Carefully drill holes through castings to avoid damaging the driver, wires and quick connectors. Hang the fixture on the back plate. Connect wires into wiring terminal; white wire to "Neutral" terminal, black wire to "Live" terminal, green wire to "Ground" terminal; and fix them with screws.

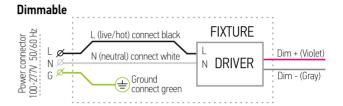
Replace one of the side caps pointed in the picture, insert power cord into the fixture and connect the wires as shown. Refer to size of the diagram to bore the holes in the wall.

Close fixture and tighten 2 screws removed in installation step 1.

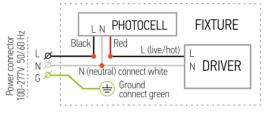


ELECTRICAL SCHEMATIC DIAGRAM:

Non-dimmable L (live/hot) connect black N (neutral) connect white N DRIVER Ground connect green



With Photocell

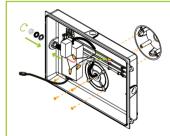


PHOTOCELL INSTALLATION:

Take out one of the knockout caps, place the first 0-ring on PC thread, install the photocell into the receptacle hase

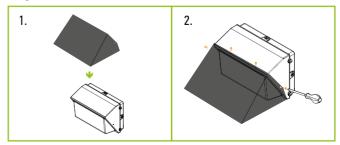
Place the second O-ring, screw the plastic nut, and tighten the transparent cap on PC thread at the outer side of the fixture.

Connect all the photocell wires according to PHOTOCELL ELECTRICAL SCHEMATIC DIAGRAM.



ASSEMBLING FIXTURE WITH OPTIONAL SHIELD:

- 1. Install the shield
- 2. Tighten the screws













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The ASD-WLP01 series offers a traditional outlook, but with the efficiency only LEDs can deliver. Delivering up to 16,125 lumens these can replace up to 400 watt metal halide units. Glare shields and photocells are also available to meet any building codes and specs. We also offer a 5 year warranty with 75,000 hour L-70 Life. These lights are perfect for retrofit or new construction applications in industrial, warehouse, manufacturing, and commercial properties. More features and benefits are listed below.

Catalog number	
Notes	
Туре	

FEATURES AND BENEFITS: Easy to install, wire and mount Replaces up to 400 Watt Metal Halide

- Replaces up to 400 Watt Metal Halide
- ▶ Borosilicate prismatic glass Lens
- Dusk to down photocell available (optional)
- Glare shield available (optional)
- No maintenance
- Operating temperature of -40°F to 104°F
- Wet location IP65
- L-70 Life > 75.000 hrs
- cULus certified
- 5 Year warranty



PRODUCT LEGEND:

Family	Modification	Watts	Dimmable	CCT	Option	Series
ASD-WLP	01	XX	Х	XX	XX	XXX
LED Traditional Wallpack		30 = 30 W	N = Non-dimmable	50 = 5,000 K	PC = Photocell	PRM = Premium
		50 = 50 W	D = Dimmable		Blank = No photocell	Blank = Standard
		80 = 80 W				
		120 = 120 W				

LED TRADITIONAL WALLPACK:

Model	Watts	Dimming	Option	CCT	Lumens	Dimensions (LxWxH)	DLC
ASD-WLP01-50N50	50 W	No	-	5,000 K	5,969 lm	14 1/8" x 9 1/4"x 7 1/2"	Standard
ASD-WLP01-50N50-PC	50 W	No	Photocell	5,000 K	5,969 lm	14 1/8" x 9 1/4"x 7 1/2"	Standard
ASD-WLP01-30N50-PRM	30 W	No	-	5,000 K	4,132 lm	9 1/2" x 9"x 10 1/4"	Premium
ASD-WLP01-50N50-PRM	50 W	No	-	5,000 K	6,931 lm	14 1/8" x 9 1/4"x 7 1/2"	Premium
ASD-WLP01-80D50-PRM	80 W	Yes	-	5,000 K	11,144 lm	14 1/8" x 9 1/4"x 7 1/2"	Premium
ASD-WLP01-120D50-PRM	120 W	Yes	-	5,000 K	16,125 lm	18 1/2" x 9 1/16"x 9 3/8"	Premium

ORDERING INFORMATION:

Model	Individual Box Size	Individual Box W	eight	UPC	Pcs in one Carton	Carton Size	Carton Weight	GTIN 14 for Carton	
ASD-WLP01-50N50	15.4" x 9.1" x 11.6"	8.4 lbs		819201024414	4	20.9"x20.9"x12"	24.5 lbs	10819201027085	
ASD-WLP01-50N50-PC	15.4" x 9.1" x 11.6"	8.51 lbs		819201021499	-	-	-	-	
ASD-WLP01-30N50-PRM	10.6" x 9.8" x 10.7"	5.9 lbs		819201027088	-	-	-	-	
ASD-WLP01-50N50-PRM	15.4" x 9.1" x 11.6"	8.4 lbs		810050730174	-	-	-	-	
ASD-WLP01-80D50-PRM	15.4" x 9.1" x 11.6"	9.9 lbs		819201027071	-	-	-	-	
ASD-WLP01-120D50-PRM	20.1" x 11.4" x 12.2"	17.2 lbs		819201028504	-	-	-	-	
Accessories model	Name		Ma	aterials	Weight	Dimensio	ons	UPC	
ASD-WLP01-02-PC	Photocell for LED V	Vallpack	F	Plastic	0.08 lb (0.04 kg)	2 1/8" x 1 1/8" x 1 5/8"		819201024445	
ASD-SWLP01-50/80	Glare Shield for LED Wa	llpack WLP01	Alı	uminum	0.83 lb (0.375 kg)	12 3/4" x 9 1/2"	x 10 1/8"	857622006879	
Accessories model	Pcs in one Carton		Cart	on Size	Cartor	ı Weight	GTIN	14 for Carton	
ASD-WLP01-02-PC	200	14	4.17" x 1	1.02" x 16.93"	28.	28.66 lb		10819201024442	
ASD-SWLP01-50/80	8	14	4.37" x 1	3.58" x 13.58"	8.	8.16 lb		57622006876	











Premium & Standard Series

PRODUCT SPECIFICATIONS:

Construction & Materials						
Lens	Glass					
Housing	Die-Casting Aluminum					
Finish	Bronze					
\M/-:-l-+	ASD-WLP01-50N50	6.8 lb (3.1 kg)	ASD-WLP01-30N50-PRM	4.9 lb (2.2 kg)	ASD-WLP01-80D50-PRM	8.4 lb (3.8 kg)
Weight	ASD-WLP01-50N50-PC	7.14 lb (3.2 kg)	ASD-WLP01-50N50-PRM	7.1 lb (3.2 kg)	ASD-WLP01-120D50-PRM	15.9 lb (7.2 kg)
Environmental System						
Work Environment	Suitable for Wet Locations, IP65					
Operating Temperature	-40°F to 104°F (-40°C to 40°C)					
L-70 Life	>75,000 hrs					
Optical System						
Luminous Flux	ASD-WLP01-50N50	5.969 lm	ASD-WLP01-30N50-PRM	4,132 lm	ASD-WLP01-80D50-PRM	11,144 lm
Luminous Flux	ASD-WLP01-50N50-PC	J,707 IIII	ASD-WLP01-50N50-PRM	6,931 lm	ASD-WLP01-120D50-PRM	16,125 lm
Color Temperature	5,000 K					
CRI	ASD-WLP01-50N50	>70	ASD-WLP01-30N50-PRM	>80	ASD-WLP01-80D50-PRM	>80
CNI	ASD-WLP01-50N50-PC	>/U	ASD-WLP01-50N50-PRM	>00	ASD-WLP01-120D50-PRM	>00
Electrical System						
Input Voltage	100-277V AC 50/60 Hz					
Max input current	ASD-WLP01-50N50	0.52 A	ASD-WLP01-30N50-PRM	0.35 A	ASD-WLP01-80D50-PRM	1 A
Max iriput current	ASD-WLP01-50N50-PC		ASD-WLP01-50N50-PRM	0.55 A	ASD-WLP01-120D50-PRM	1.4 A
Inrush current	ASD-WLP01-50N50	20 A	ASD-WLP01-30N50-PRM	20 A	ASD-WLP01-80D50-PRM	30 A
IIIIusii cuitetti	ASD-WLP01-50N50-PC		ASD-WLP01-50N50-PRM		ASD-WLP01-120D50-PRM	
Action time (Inrush current)	ASD-WLP01-50N50	0.1 S	ASD-WLP01-30N50-PRM	0.1 S	ASD-WLP01-80D50-PRM	0.1 S
Action time (initiasi current)	ASD-WLP01-50N50-PC	600 mS	ASD-WLP01-50N50-PRM		ASD-WLP01-120D50-PRM	
AC input range	ASD-WLP01-50N50	min 100V	ASD-WLP01-30N50-PRM	min 100V	ASD-WLP01-80D50-PRM	min 100V max 277V
AC Input range	ASD-WLP01-50N50-PC	max 277V	ASD-WLP01-50N50-PRM	max 277V	ASD-WLP01-120D50-PRM	
Off State Power	0 W					
Power Consumption	ASD-WLP01-50N50	50 W	ASD-WLP01-30N50-PRM	30 W	ASD-WLP01-80D50-PRM	80 W
	ASD-WLP01-50N50-PC	30 11	ASD-WLP01-50N50-PRM	50 W	ASD-WLP01-120D50-PRM	120 W
Power Factor	≥ 0.9					
Output voltage	ASD-WLP01-50N50	40-66 V	ASD-WLP01-30N50-PRM	36-60 V	ASD-WLP01-80D50-PRM	75-125 V
	ASD-WLP01-50N50-PC	40 00 V	ASD-WLP01-50N50-PRM	40-66 V	ASD-WLP01-120D50-PRM	75-125 V
Max output current	ASD-WLP01-50N50	750 mA	ASD-WLP01-30N50-PRM	500 mA	ASD-WLP01-80D50-PRM	640 mA
Max output current	ASD-WLP01-50N50-PC		ASD-WLP01-50N50-PRM	750 mA	ASD-WLP01-120D50-PRM	960 mA
LED Driver Class	ASD-WLP01-50N50	Class B	ASD-WLP01-30N50-PRM	Class B	ASD-WLP01-80D50-PRM	Class B
LLD DIIVEL C(922	ASD-WLP01-50N50-PC	No	ASD-WLP01-50N50-PRM	CIGSS D	ASD-WLP01-120D50-PRM	CIGOS D

The LED Wallpack is designed to install as a surface mounted luminaire.

Dimming compatible controls				
Leviton	DS710	IP710		
Lutron	NTSTV-DV	NFTV	DVTV-WH	
Legrand	H4FBL3PW			
Warranty & Certifications				

5-year limited warranty

DesignLights Consortium (DLC) listed (Classification: Standard and Premium)
Main: Outdoor Luminaires;
General Application: High Output;
Primary Use: Outdoor Non-Cutoff and Semi-Cutoff Wall-Mounted Area Luminaires

cULus certified E473804

PACKAGE CONTENTS:

Description	Q-ty
LED Traditional Wallpack	1
Вох	1
Installation Instructions	3

ACCSESSORIES (sold separately):
This light includes an optional Photocell which activates the light during low illumination (At Dusk) and de-activates the light when illuminated (At Dawn).

Photocell for LED Traditional Wallpack					
Model	ASD-WLP01-02-PC				
Operate Level	10-20 Lx	ON			
Operate Level	30-80 Lx	OFF			
Glare Shield for LED Traditional Wallpack WLP01 50-80W					
Model	ASD-SWLP0	ASD-SWLP01-50/80			
Material	Aluminum	Aluminum			
Finish Bronze					
Dimensions (LxWxH)	12 3/4" x 9 1	12 3/4" x 9 1/2"x 10 1/8"			











Premium & Standard Series

INSTALLATION GUIDE

IMPORTANT SAFETY INFORMATION:

Please read all the instructions below before installation.

- Make sure that the supply voltage corresponds to the rated product voltage.
- The product must be installed by a qualified electrician in accordance with the National Electrical Code and corresponding local codes.
- If the product is damaged, do not use it.

A WARNING

RISK OF PERSONAL INJURY — READ and follow all WARNINGS and installation instructions.

Keep or give to the owner for future reference

Risk of cuts: Wear gloves to prevent cuts or abrasions when removing from carton, handling, installing, and maintaining this product.

Risk of electric shock: This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.

Risk of Fire: Minimum 194°F supply conductors. Consult a qualified electrician to ensure correct branch circuit conductor.

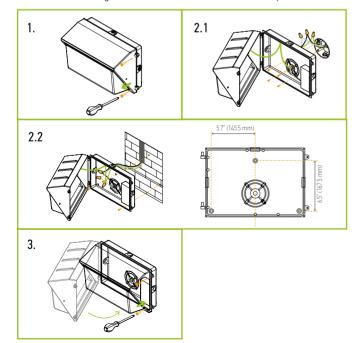
ASD® assumes no responsibility for claims arising out of improper or careless installation or handling of this product.

INSTALLATION STEPS:

- 1. Use a screwdriver to loosen (2) screws securing fixture door and open it.
- 2. Can be mounted to a junction box (see 2.1) or directly to a wall (see 2.2).
- Carefully drill holes through castings to avoid damaging the driver, wires and quick connectors. Hang the fixture on the back plate. Connect wires into wiring terminal; white wire to "Neutral" terminal, black wire to "Live" terminal, green wire to "Ground" terminal; and fix them with screws.

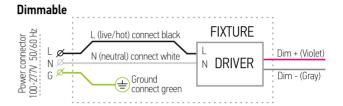
Replace one of the side caps pointed in the picture, insert power cord into the fixture and connect the wires as shown. Refer to size of the diagram to bore the holes in the wall.

Close fixture and tighten 2 screws removed in installation step 1.

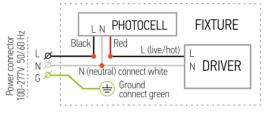


ELECTRICAL SCHEMATIC DIAGRAM:

Non-dimmable L (live/hot) connect black N (neutral) connect white N DRIVER Ground connect green



With Photocell

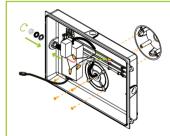


PHOTOCELL INSTALLATION:

Take out one of the knockout caps, place the first 0-ring on PC thread, install the photocell into the receptacle hase

Place the second O-ring, screw the plastic nut, and tighten the transparent cap on PC thread at the outer side of the fixture.

Connect all the photocell wires according to PHOTOCELL ELECTRICAL SCHEMATIC DIAGRAM.



ASSEMBLING FIXTURE WITH OPTIONAL SHIELD:

- 1. Install the shield
- 2. Tighten the screws

