

AC-RESIDENCE-INNL RIVERSIDE SITE 7/17/2020 11:25 AM

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT

GENERAL NOTES	
1. JS & ASSOCIATES SHALL IN NO WAY ASSUME RESPONSIBILITY FOR THE ELECTRICAL DESIGN OF THIS PROJECT. JSA LIGHTING DESIGN SHALL BE INCORPORATED AND VERIFIED BY ELECTRICAL ENGINEER OF RECORD FOR CODE COMPLIANCE.	2016 TITLE 24 §130.1(B) The general lighting of any enclosed area 100 square feet or larger, with a connected lighting load that exceeds 0.5 watts per square foot shall provide multi-level lighting control...
2. ALL MEASUREMENTS, HEIGHTS, BACKGROUNDS, FINISHES SHALL BE VERIFIED BY INTERIOR DESIGNER AND ARCHITECT OF RECORD.	2016 TITLE 24 §130.1(C)(6)(C) Lighting installed in corridors and stairwells shall be controlled by occupant sensing controls that separately reduce the lighting power in each space by at least 50 percent when the space is unoccupied. The occupant sensing controls shall be capable of automatically turning the lighting to fully ON only in the separately controlled space, and shall be automatically activated from all designed paths of egress.
3. LIGHTING FIXTURES: A. LIGHTING FIXTURES SHALL NOT BE SUBSTITUTED WITHOUT PRIOR APPROVAL. B. LIGHTING FIXTURES AND CONTROLS SHALL BE DELIVERED TO SITE IN NEW CONDITION ONLY. C. ALL EXIT SIGNS AND EMERGENCY LIGHTING SHALL COMPLY WITH UL 924 AND OPERATE FOR A MINIMUM OF 90MIN IN EMERGENCY MODE. D. ALL LIGHTING FIXTURES SHALL BE UL OR ETL LISTED AND HAVE APPROPRIATE LABORATORY TESTING.	2016 TITLE 24 §130.1(C)(8) Hotel motel guest rooms shall have captive card key controls, occupancy sensing controls, or automatic controls such that, no longer than 30 minutes after the guest room has been vacated, lighting power is switched off.
4. COMMERCIAL LIGHTING CONTROLS: A. HOTEL CORRIDORS SHALL MAINTAIN LESS THAN 0.5 WATTS OF GENERAL LIGHTING PER SQUARE FOOT AND SHALL BE CONTROLLED BY OCCUPANT SENSING CONTROLS TO REDUCE THE LIGHTING POWER BY 50% WHEN UNOCCUPIED USING THE CHECKER BOARDING METHOD. SEE 2016 TITLE 24 §130.1(B) & 2016 TITLE 24 §130.1(C)(6)(C) B. STAIRWELLS SHALL HAVE LIGHTING FIXTURES WITH INDEPENDENT, INTEGRATED ULTRASONIC MOTION SENSING AND BI-LEVEL DIMMING CONTROLS TO REDUCE THE LIGHTING POWER BY 50% WHEN THE SPACE BECOMES UNOCCUPIED. SEE 2016 TITLE 24 §130.1(C)(6)(C) & 2016 TITLE 24 §130.1(C)(6)(C) C. ALL OTHER COMMON AREAS SHALL MAINTAIN TITLE 24 COMPLIANT LIGHTING AND RECEPTACLE CONTROL AS REQUIRED. SEE LIGHTING CONTROL DETAILS ON SHEET LTG-5.0. D. AUTOMATIC DAYLIGHTING CONTROLS SHALL NOT BE REQUIRED IN AREAS WHERE THE PRIMARY DAYLIT ZONE CONTAINS LESS THAN 120W OF GENERAL LIGHTING OR ROOMS WITH A TOTAL GLAZING AREA OF LESS THAN 24 SQUARE FEET. SEE 2016 TITLE 24 §130.1(D)(2)(D) EXCEPTION 1 & 2. 5. GUESTROOM LIGHTING CONTROLS: A. HOTEL GUEST ROOM LIGHTING SHALL HAVE OCCUPANCY SENSING CONTROLS SUCH THAT NO LONGER THAN 30 MINUTES AFTER THE GUEST ROOM HAS BEEN VACATED, THE LIGHTING POWER IS SWITCHED TO OFF. IN ADDITION TO LIGHTING CONTROL, THE PTAC OR VTAC SHALL ALSO DRIFT A MINIMUM + OR - 5° DEGREES. TELKONET SYSTEM AS DESIGNED SHALL MEET BOTH CRITERIA AND THEREFORE TITLE 24 COMPLIANT. REFER TO WIRING DETAILS. ALSO SEE 2016 TITLE 24 §130.1(C)(8). B. HOTEL GUEST ROOMS SHALL HAVE CONTROLLED RECEPTACLES FOR AT LEAST ONE-HALF OF THE 120-VOLT RECEPTACLES USING SPLIT-WIRED DEVICES. REFER TO WIRING DETAILS. ALSO SEE 2016 TITLE 24 §130.5(D)(4).	2016 TITLE 24 §130.1(D) Automatic Daylighting Controls. 1. Daylit Zones shall be designed as follows: B. PRIMARY SIDE/LIT DAYLIT ZONE is the area in plan view and is directly adjacent to each vertical glazing, one window head height deep into the area, and window width plus 0.5 times window head height wide on each side of the rough opening of the window, minus any area on a plan beyond a permanent obstruction that is 6 feet or taller as measured from the floor. 2. Luminaires providing general lighting that are in or are partially in the Skylit Daylit Zones or the Primary SideLit Daylit Zones shall be controlled independently by fully functional automatic daylighting controls that meet the applicable requirements of Section 110.8, and the applicable requirements below: A. All Skylit Daylit Zones and Primary SideLit Daylit Zones shall be shown on the plans. B. Luminaires in the Skylit Daylit Zone shall be controlled separately from those in teh Primary SideLit Daylit Zones. C. Luminaires that fall in both a Skylit and Primary SideLit Daylit Zone shall be controlled as part of the Skylit Daylit Zone. D. Automatic Daylighting Control Installation and Operation. For luminaires in daylight zones, automatic daylighting controls shall be installed and configured to operate according to all of following requirements: i. Photosensors... ii. Automatic daylighting controls shall provide functional multilevel lighting... EXCEPTION 1 to Section 130.1(d)2: Rooms in which the combined total installed general lighting power in the Skylit Daylit Zone and Primary SideLit Daylit Zone is less than 120 Watts. EXCEPTION 2 to Section 130.1(d)2: Rooms that have a total glazing area of less than 24 square feet. 2016 TITLE 24 §130.5(D)(4) For hotel and motel guest rooms, install controlled receptacles for at least one-half of the 120-volt receptacles in each guestroom. Electric circuits serving controlled receptacles in guestrooms shall have captive card key controls, occupancy sensing controls, or automatic controls so the power is switched off no longer than 30 minutes after the guestroom has been vacated.

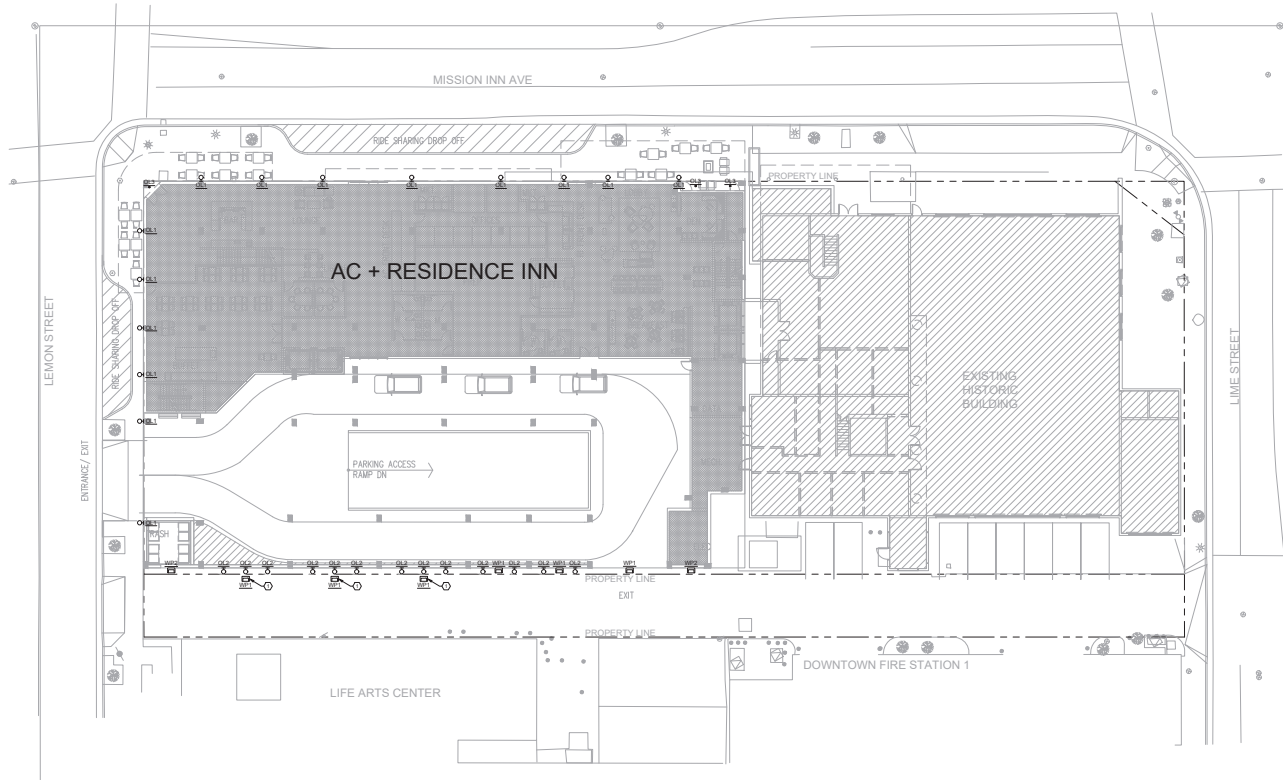
ELECTRICAL SYMBOLS LEGEND			
○	RECESSED FIXTURE - ROUND	○	FLUSH MOUNT J-BOX
⬢	RECESSED WALL WASH FIXTURE - ROUND	⬢	OCCUPANCY SENSOR
◻	RECESSED FIXTURE - SQUARE	⊗	POWER PACK
◻	RECESSED WALL WASH FIXTURE - SQUARE	⊗	POWER RELAY
○	PENDANT FIXTURE	↗	PANELBOARD
⊗	WALL MOUNTED FIXTURE	⬢	DUPLEX RECEPTACLE
2x2	2x2 LAY IN FIXTURE	⬢	1/2 HOT DUPLEX RECEPTACLE
2x4	2x4 LAY IN FIXTURE	⬢	GFCI RECEPTACLE
1x4	1x4 SURFACE-MOUNTED FIXTURE	⬢	QUADPLEX RECEPTACLE
⬢	HATCHING INDICATES EMERGENCY FIXTURE	⬢	1/2 HOT QUADPLEX RECEPTACLE
*****	RIBBON LIGHT AT COVE	⬢	ABOVE COUNTER RECEPTACLE
⬢	LINEAR PENDANT FIXTURE	⬢	208V RECEPTACLE - VTA/RANGE/OTHER
⬢	LINEAR RECESSED FIXTURE	⬢	CAT6 TELEPHONE JACK
⬢	ELEVATOR PIT FIXTURE	⬢	CAT6 DATA JACK
⬢	ELECTRIC BACKLIT MIRROR	⬢	COMBINATION TELEPHONE/DATA JACK
⬢	ELECTRIC BATHROOM EXHAUST FAN	⬢	RG6U COAX FOR TV
○	POLE MOUNTED FIXTURE	+44"	INDICATES MOUNTING HEIGHT ABOVE FINISHED FLOOR OR ABOVE FINISHED GRADE TO CENTER OF DEVICE.
▽	LANDSCAPE UPLIGHT - SPOT, 12V	⬢	WALL SWITCH
⬢	CEILING MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE	3	THREE WAY
⬢	WALL MOUNTED, UPPER EXIT SIGN SHADED REGION INDICATES FACE	os	OCCUPANCY SENSOR
⬢	WALL MOUNTED, LOWER EXIT SIGN SHADED REGION INDICATES FACE	d	DIMMER
⬢	EMERGENCY LIGHT FIXTURE	k	TAMPER OR KEY OPERATED
		m	CAPTIVE CARD
		t	TIMER
		⬢	KEYED NOTED
		##LTG-#	INDICATES VIEW ## ON SHEET LTG-#

ABBREVIATIONS	
(D)	DEMO
(E)	EXISTING
(F)	FUTURE
(N)	NEW
(R)	RELOCATED
AC	ABOVE COUNTER, 4" ABOVE BACKSPASH
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AL	ALUMINUM
BLG	BELOW GRADE
BOD	BOTTOM OF DEVICE
C	CONDUIT
COO	CENTER OF DEVICE
CU	COPPER
EC	ELECTRICAL CONTRACTOR
GC	GENERAL CONTRACTOR
GEC	GROUNDING ELECTRODE CONDUCTOR
GES	GROUNDING ELECTRODE SYSTEM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
MC	MECHANICAL CONTRACTOR
NL	NIGHT LIGHT
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UTW	UNSHIELDED TWISTED PAIR
WP	WEATHERPROOF
XFMR	TRANSFORMER

CIRCUITING	
---	LIGHTING CIRCUIT CONDUIT CONCEALED IN CEILING OR WALL.
---	OCCUPANCY SENSOR-CONTROLLED LIGHTING CIRCUIT CONDUIT CONCEALED IN CEILING OR WALL.
---	NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS IN CABLE. GROUND WIRE NOT SHOWN, BUT SHALL BE INCLUDED. NO HASH MARKS INDICATES 2 CONDUCTORS PLUS GROUND.
---	LIGHTING CIRCUIT IN UNDERGROUND CONDUIT.
---	LIGHTING CIRCUIT HOMERUN. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS IN CABLE.
---	O.S. CIRCUIT HOMERUN. NUMBER OF HASH MARKS INDICATES NUMBER OF CONDUCTORS IN CABLE.

LIGHTING CONSULTANT	
JSA JS & ASSOCIATES	
535 PRINCELAND COURT CORONA CA 92679 P: 951.340.2475 JSASSOCIATESINC.COM	
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OWNER: GREENS ATMAN KADAKIA GREENS GROUP, INC. 8208 RESEARCH DRIVE IRVINE, CALIFORNIA 92618 P: 949.829.4900 C: 949.321.1760	
PROJECT: AC+RI RESIDENCE-INNL RIVERSIDE 3466 MISSION INN RIVERSIDE, CA	
DESCRIPTION	SITE LIGHTING & PHOTOMETRICS
DATE	2020.07.17
PRELIMINARY	
DRAWN BY: S.G.	
CHECKED BY: J.S.	
SCALE: AS SHOWN	
SHEET TITLE:	
SHEET INDEX NOTES ABBREVIATIONS & SYMBOLS	
SHEET NO.:	
LTG-0.1	

SHEET INDEX	
SHEET NO.	SHEET NAME
LTG-0.1	SHEET INDEX, NOTES, ABBREVIATIONS & SYMBOLS
LTG-1.0	SITE LIGHTING PLAN
LTG-1.1	SITE PHOTOMETRICS
LTG-2.0	EXTERIOR LIGHTING CUT SHEETS
LTG-2.1	EXTERIOR LIGHTING CUT SHEETS



1 SITE LIGHTING PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES:

1. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED VIA LIGHTING CONTROL PANEL WITH ASTRONOMICAL TIME CLOCK.
2. COORDINATE ALL EXTERIOR LIGHTING FIXTURE MOUNTING HEIGHTS WITH ARCHITECT & OWNER.
3. ALL EMERGENCY SHARED FIXTURES SHALL BE CONNECTED TO EMERGENCY INVERTER FOR EXTERIOR LIGHTING AND PRODUCE A MINIMUM OF 90 MIN EMERGENCY OPERATION.
4. REFER TO EXTERIOR LIGHTING FIXTURE SCHEDULE ON SHEET LTG-1.1 FOR TYPICAL FIXTURE MOUNTING HEIGHTS.

KEY NOTES:

- INSTALL WALL PACK (WP1) CENTERED ABOVE SIGN LIGHT (SL2) AT HEIGHTS SPECIFIED ON LTG-1.1

LIGHTING CONSULTANT

JSA
JSA & ASSOCIATES
535 PRINCELAND COURT
CORONA CA 92719
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OWNER:
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ATMAN KADAKIA
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9208 RESEARCH DRIVE
IRVINE, CALIFORNIA 92618
P: 949.829.4900 | C: 949.322.1760

PROJECT:
AC HOTELS
Residence Inn
AC+RI
RIVERSIDE
3466 MISSION INN
RIVERSIDE, CA

DESCRIPTION
SITE LIGHTING & PHOTOMETRICS

DATE
2020.07.17

PRELIMINARY



DRAWN BY: S.G.
CHECKED BY: J.S.
SCALE: AS SHOWN
SHEET TITLE:

SITE LIGHTING PLAN

SHEET NO.:
LTG-1.0



PROJECT:

**AC
HOTELS
HUNTSVILLE**

**Residence
Inn
Marriott**

**AC+RI
RIVERSIDE**

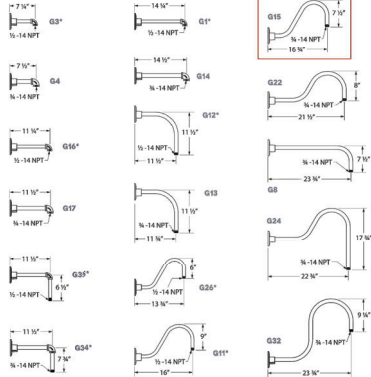
3466 MISSION INN
RIVERSIDE, CA

LTG-1.1

GOOSENECK LIGHTING

NOTES: REV 9

Timeless and practical, our vast selection of gooseneck arms provides the perfect angle and style for any setting. The curved arms evoke classic light styles while helping the shade direct light onto sidewalks, signs and more. Each gooseneck arm is crafted in our Florida-based manufacturing facility! Please Note: Select gooseneck arms cannot be used with certain designs and shades. For additional information, please visit the individual product listing. Additionally, gooseneck arms indicated with an asterisk are not available in copper and brass finishes.



RL428
LED RECYCLED DIE-CAST ALUMINUM LENSED REFLECTOR

NEW

650 LUMENS

COLOR QUALITY 3-Step MacAdam Ellipses

LUMEN OUTPUT 450 Lumens

LUMEN PER WATT Up to 60

CCT 27K, 30K, 35K, 40K, 50K

OPTIC 45° Cut-Off

WARRANTY 5 Years

CERTIFICATIONS

- ETL Listed
- UL Listed for Wet Locations
- California Title 24
- UL Listed for Wet Locations

UNIQUELY ENGINEERED FOR NEW AND EXISTING CONSTRUCTION

The RL428 is the newest, most efficient, and advanced LED retrofit module from ELITE Lighting. It's unique design delivers color quality above a 90 CRI rating. The color rendering has never been so close, with a strong as low as 3 Macadam ellipses. The RL428 LED retrofit meet an new mandatory luminaire use 24 requirements.

FEATURES

- One (1) adjustable luminaire is directed from the luminaire to the work surface
- Greater light output than a 100W CFL or a 50W incandescent bulb
- Rated at 50+ CRI to meet California Title 24 strict compliance standards
- Life tested to ensure light output up to 50,000 hours of operation to 175°
- Beam including cut-off angle of 55 degrees
- High performance optic hides LED chip design but still delivers an even beam of light
- ELITE's highly selective LED chip production uses ultra-thin and virtually no infrared light
- Tested to UL 79 and UL 94 standards
- UL listed for safety

DURABILITY

Our die-cast system puts the heat from the LED chip, allowing the continued cool operation for years. Our LED driver is rated for 50 to 60 Hz at 120V input, and produces less than 5% THD. This has a power factor between 0.90 and 1.00 and is thermal protected for additional safety.

DIMMABLE

The Elite LED Module is dimmable down to 10% of initial light output with compatible dimmers. Consult factory for complete list of compatible dimming systems.

OUR WORD

The Elite LED lighting system carries a five-year warranty for parts and components. (Labor not included)

elitelighting.com • TEL: 714.973.0055 • FAX: 714.973.3333

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The RL428 is the newest, most efficient, and advanced LED retrofit module from ELITE Lighting. It's unique design delivers color quality above a 90 CRI rating. The color rendering has never been so close, with a strong as low as 3 Macadam ellipses. The RL428 LED retrofit meet an new mandatory luminaire use 24 requirements.

FEATURES

- One (1) adjustable luminaire is directed from the luminaire to the work surface
- Greater light output than a 100W CFL or a 50W incandescent bulb
- Rated at 50+ CRI to meet California Title 24 strict compliance standards
- Life tested to ensure light output up to 50,000 hours of operation to 175°
- Beam including cut-off angle of 55 degrees
- High performance optic hides LED chip design but still delivers an even beam of light
- ELITE's highly selective LED chip production uses ultra-thin and virtually no infrared light
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naturalLED
Turning Light into Savings

SLIM WALL PACK (SWP) Adjustable

Project: **LED-FXSWP28/840/BK**

Schedule: **LED-FXSWP28/840/BK**

Notes: **LED-FXSWP28/840/BK**

DESCRIPTION

naturalLED (SWP) is our slim, low-profile cutoff wall pack with the smooth contemporary design. Well-engineered, high-quality die-cast aluminum, delivering bright, crisp light. The excellent thermal design ensures our SWP's performance over rated life. Installation is made simple and easy with adjustable angle and hinged junction box.

Our Slim Wall Packs are available in 10W, 20W and 40W with color options of Black and Bronze. Optional "N" knuckle-mount, adjustable swivel bracket or slip fit provides you the flexibility for your application. SWP is ideal for landscape, walkways, low-level pathway, apartment buildings, schools and multi-use facilities.

FEATURES

- DLC Premium Certified
- 5-year warranty
- ADA Compliance
- Adjustable beam angle
- 12" NPT knock out
- Forward three beam
- Uniform and consistent color
- Excellent thermal design
- Aluminum die cast housing
- Photocell sensor compatible
- Material: Aluminum anodized
- Input low voltage: 120-277
- CRI: 90
- Power factor: >0.9
- Beam Angle: 140°
- Operating temperature: -4°F ~ 122°F

ACCESSORIES

- Slip Filter
- Swivel Bracket
- 3/4" NPT Knuckle Mount

APPLICATIONS

- Security Lighting
- Pathway Lighting
- Perimeter Lighting
- Emergency Lighting

WARRANTY

- 5 Year Warranty

COLORS

- Black
- Bronze

ORDERING

Qty	Part #	Description	Power (W)	Length (L)	Width (W)	Depth (D)	Weight (lb)	A	B	
15	8001	LED-FXSWP15/840/BK	4000K	1.800"	4.1"	1.000"	50.000	D. Bronze	-	P
15	8002	LED-FXSWP15/840/BK	4000K	1.800"	4.1"	1.000"	50.000	D. Bronze	-	P
15	8003	LED-FXSWP15/840/BK	4000K	1.800"	4.1"	1.000"	50.000	D. Bronze	-	P
20	8004	LED-FXSWP20/840/BK	4000K	3.400"	4.1"	1.750"	50.000	D. Bronze	-	P
20	8005	LED-FXSWP20/840/BK	4000K	3.400"	4.1"	1.750"	50.000	D. Bronze	-	P
20	8006	LED-FXSWP20/840/BK	4000K	3.400"	4.1"	1.750"	50.000	D. Bronze	-	P
40	8007	LED-FXSWP40/840/BK	4000K	5.400"	4.1"	2.000"	50.000	D. Bronze	-	P
40	8008	LED-FXSWP40/840/BK	4000K	5.400"	4.1"	2.000"	50.000	D. Bronze	-	P
40	8009	LED-FXSWP40/840/BK	4000K	5.400"	4.1"	2.000"	50.000	D. Bronze	-	P

SPECIFICATIONS

Length (L)	Width (W)	Depth (D)	Weight (lb)	A	B
7.87(200mm)	6.87(175mm)	4.1(103mm)	5.45	6.18"(157mm)	5.57(140mm)

INSTALLATION

1. Mounting bracket to wall.

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