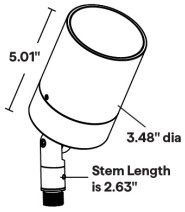
VOYA EM 3.5 COB STATIC WHITE 120VAC

120VAC COB Flood/Accent LED





- Our highest-output VOYA fixture for tall tree canopies and large-scale applications
- Integrated 120VAC requires no remote driver
- Specification-grade, flood/accent lighting with best-in-class lumen output, color quality, dimming performance, and optical control
- Available in ultra-durable powder-coated 6061 aluminum, polished brass, or polished 316L stainless steel
- Flexible tree, surface, wall and ground mounting options support diverse installations
- High lumen output with peak color performance including CRI > 95 and R9 > 90.
- Available with COB spot or flood light engine
- Wet listed for exterior applications

1 PRODUCT	2 KNUCKLE	3 CRI	4 CCT	5 SNOOT OPTIONS	6 COB	7 BEAM ANGLE	8 MATERIAL	9 FINISH	10 WATTAGE	11 MOUNTING OPTIONS	12 WEEP HOLE	13 ACCESSORY 1	14 ACCESSORY 2	15 ACCESSORY 3
VOYA-EM-3.5-COB-120VAC-SW	RA													

Sample Part Number: **VOYA-EM-3.5-COB-120VAC-SW-RA-95-30-30D-COB-51-A-BZT-21-MT-48-WPH-LV-N/A-N/A**

1 PRODUCT

VOYA-EM-3.5-COB-120VAC-SW	

2 KNUCKLE

RA	Rotational 360° Knuckle

3 CRI

95	
90	

4 CCT

22	2200K
24	2400K
27	2700K
30	3000K
35	3500K
40	4000K

5 SNOOT OPTIONS

FL	Flush
1R	1" Regress
30D	30 Degree

6 COB / 7 BEAM ANGLE / 8 MATERIAL / 9 FINISH / 10 WATTAGE

6 COB	7 BEAM ANGLE	8 MATERIAL	9 FINISH	10 WATTAGE
COBSP Spot	**12** 12 Degree	**A** 6061 Aluminum Anodized and Powder Coated	**BG** Beige **BB** Black Bronze **BK** Black **BKT** Black Texture **BZ** Bronze **BZT** Bronze Texture **SL** Silver **WH** White **CU** Custom	**20** 19.8 Watts **16** 15.6 Watts
		B Brass H59	**P** Polished	
		SS Stainless Steel 316L		
COB All Other	**19** 19 Degree **25** 25 Degree **37** 37 Degree **51** 51 Degree	**A** 6061 Aluminum Anodized and Powder Coated	**BG** Beige **BB** Black Bronze **BK** Black **BKT** Black Texture **BZ** Bronze **BZT** Bronze Texture **SL** Silver **WH** White **CU** Custom	**29** 28.7 Watts **21** 20.7 Watts **16** 15.8 Watts
		B Brass H59	**P** Polished	**25** 24.6 Watts **20** 19.8 Watts **16** 15.8 Watts
		SS Stainless Steel 316L		

Brass and Stainless Steel have longer lead times: consult factory

Lead times differ. BZT parts are readily available. All other standard finishes are painted upon order. Custom finishes: consult factory

11 MOUNTING OPTIONS

MT-48	In-Ground Mount
MT-49-BF	Surface Mount Back Feed
MT-49-SF	Surface Mount Side Feed
MT-50	Tree Mount

See Mounting section for compatibility information

12 WEEP HOLE

WPH	Weep Hole
N/A	No Weep Hole

Not using a weep hole while aiming up will void warranty. FL and GZR snoots do not have weep holes. If FL or GZR is chosen, select N/A

13 ACCESSORY 1

SP	Spread Lens
LS	Linear Spread Lens
WW	Wall Wash Lens
LV	Honeycomb Louver
N/A	No Accessory

Retaining Ring included.

14 ACCESSORY 2

SP	Spread Lens
LS	Linear Spread Lens
WW	Wall Wash Lens
LV	Honeycomb Louver
N/A	No Accessory

Retaining Ring included.

15 ACCESSORY 3

SP	Spread Lens
LS	Linear Spread Lens
WW	Wall Wash Lens
LV	Honeycomb Louver
N/A	No Accessory

Retaining Ring included.

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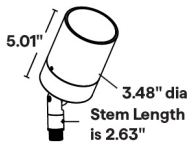
Specification subject to change. Rev-09-01-26

5 year warranty | Warranty only valid with QTL power supplies | Field modifications void warranty | Data subject to change, all data has +/- 5% tolerance

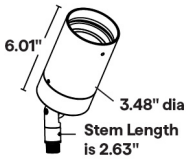
VOYA EM 3.5 COB STATIC WHITE 120VAC

120VAC COB Flood/Accent LED

1 PRODUCT - DIMENSIONS



Flush Snoot (FL)



1" Regress Snoot (1R)



30 Degree Snoot (30D)

6 DELIVERED LUMENS

Tested with VOYA-3.5-COB-120VAC-SW-RA-95-30-FL at 29W

COB - BEAM ANGLE	CCT	LUMENS	LM/W	PEAK INTENSITY (CD)	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
COB - 19°	2955	2469	90	16392	98	91	97	99
COB - 25°	2970	2644	97	12728	98	91	97	99
COB - 37°	2979	2604	95	6308	98	91	97	99
COB - 51°	2987	2608	95	3678	98	91	97	99

CCT MULTIPLIERS	
2200K	0.84
2400K	0.88
2700K	0.93
3000K	1.00
3500K	1.04
4000K	1.08

WATTAGE MULTIPLIERS	
29W	1.00
25W	**
21W	0.75
20W	**
16W	0.53

Tested with VOYA-3.5-COB-120VAC-SW-RA-90-30-FL at 29W

COB - BEAM ANGLE	CCT	LUMENS	LM/W	PEAK INTENSITY (CD)	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
COB - 19°	2970	2758	100	18519	93	58	90	96
COB - 25°	2981	2979	108	14417	93	59	90	96
COB - 37°	2991	2928	107	7135	93	59	90	96
COB - 51°	2997	2949	107	4249	93	59	90	96

CCT MULTIPLIERS	
2200K	0.78
2400K	0.86
2700K	0.95
3000K	1.00
3500K	1.05
4000K	1.06

WATTAGE MULTIPLIERS	
29W	1.00
25W	**
21W	0.75
20W	**
16W	0.52

Tested with VOYA-3.5-COB-120VAC-SW-RA-95-30-FL at 20W

COB - BEAM ANGLE	CCT	LUMENS	LM/W	PEAK INTENSITY (CD)	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
COBSP - 12°	2947	1501	77	20392	98	92	97	99

CCT MULTIPLIERS	
2200K	0.81
2400K	0.88
2700K	0.95
3000K	1.00
3500K	1.06
4000K	1.10

WATTAGE MULTIPLIERS	
20W	1.00
16W	0.81

Tested with VOYA-3.5-COB-120VAC-SW-RA-90-30-FL at 20W

COB - BEAM ANGLE	CCT	LUMENS	LM/W	PEAK INTENSITY (CD)	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
COBSP - 12°	2949	1584	81	21355	97	87	94	99

CCT MULTIPLIERS	
2200K	0.81
2400K	0.89
2700K	0.92
3000K	1.00
3500K	1.03
4000K	1.01

WATTAGE MULTIPLIERS	
20W	1.00
16W	0.79

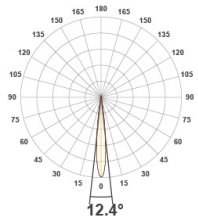
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VOYA EM 3.5 COB STATIC WHITE 120VAC

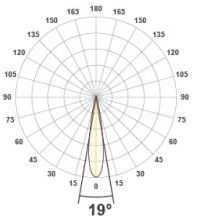
120VAC COB Flood/Accent LED

PHOTOMETRIC PERFORMANCE

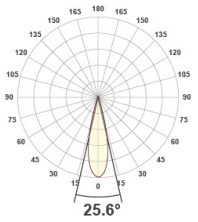
12°



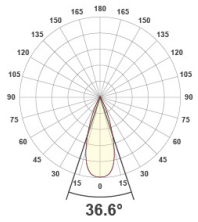
19°



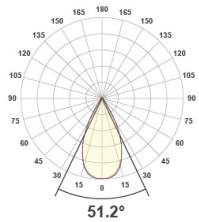
25°



37°



51°



9 FINISH

ALUMINUM POWDER COAT FINISHES

Lead times differ. BZT parts are readily available. All other standard finishes are painted upon order. Custom finishes: consult factory



Beige

Black

Black Texture

Bronze



Bronze Texture

Black Bronze

Silver

White

BRASS AND STAINLESS STEEL POLISHED FINISHES

Brass and Stainless Steel have longer lead times: consult factory



Polished Brass

Polished Stainless Steel

13/14/15 ACCESSORIES

Holds up to three accessories. Retaining Ring included with each accessory.

SP



Spread Lens

To order separately use ACC-3.5-SP

LS



Linear Spread Lens

To order separately use ACC-3.5-LS

WW



Wall Wash Lens

To order separately use ACC-3.5-WW

LV



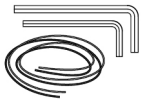
Honeycomb Louver

To order separately use ACC-3.5-LV



Retaining Ring

To order separately use ACC-3.5-RR



SNOOT INSTALL KIT

To order separately use VOYA-SNOOT-INSTALL-KIT

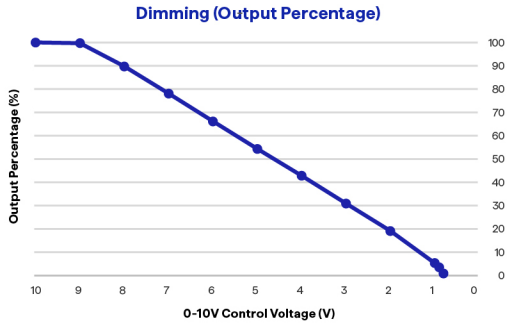
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VOYA EM 3.5 COB STATIC WHITE 120VAC

120VAC COB Flood/Accent LED

6 DIMMING

VOYA 3.5 120VAC COB fixtures dim lower than 1%.

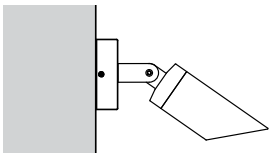


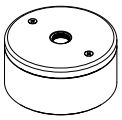
VOYA EM/SM 3.5" MOUNT COMPATIBILITY

Landscape Lighting

SURFACE/WALL

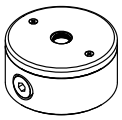
See Surface/Wall installation for dimensions and included hardware. Refer to the mount cut sheets for complete order codes regarding mount's options.





Q-MT-49-BF
(With Driver)

With Water Protection

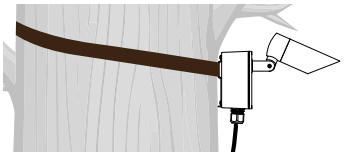


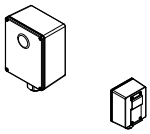
Q-MT-49-SF
(With Driver)

With Water Protection

TREE MOUNT

See Tree Mount installation for dimensions and included hardware. Refer to the mount cut sheets for complete order codes regarding mount's options.



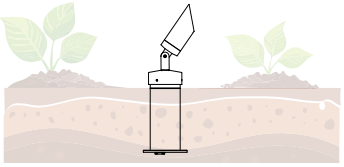


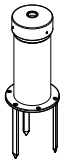
Q-MT-50
(With Driver)

With Water Protection
and Tree Strap

DIRECT BURIAL

See Direct Burial installation for dimensions and included hardware. Refer to the mount cut sheets for complete order codes regarding mount's options.





Q-MT-48
(With Driver)

With Water Protection

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VOYA 3.5" ADDITIONAL SNOOTS, OPTICS, KITS, FINISH KEY RINGS, & LENS FILTERS

Accessories

SNOOTS - NO WEEP HOLES

Flush



PART NUMBERS:

BEIGE	VOYA-3.5-FL-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-3.5-FL-SNOOT-ASM-A-BB
BLACK	VOYA-3.5-FL-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-3.5-FL-SNOOT-ASM-A-BKT
BRONZE	VOYA-3.5-FL-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-3.5-FL-SNOOT-ASM-A-BZT
SILVER	VOYA-3.5-FL-SNOOT-ASM-A-SL
WHITE	VOYA-3.5-FL-SNOOT-ASM-A-WH
BRASS	VOYA-3.5-FL-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-3.5-FL-SNOOT-ASM-SS-P

1" Regress



PART NUMBERS:

BEIGE	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-A-BG
BLACK BRONZE	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-A-BB
BLACK	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-A-BK
BLACK TEXTURE	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-A-BKT
BRONZE	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-A-BZ
BRONZE TEXTURE	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-A-BZT
SILVER	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-A-SL
WHITE	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-A-WH
BRASS	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-B-P
STAINLESS STEEL	VOYA-3.5-1R-SNOOT-NO-WEEP-ASM-SS-P

30 Degree



PART NUMBERS:

BEIGE	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-A-BG
BLACK BRONZE	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-A-BB
BLACK	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-A-BK
BLACK TEXTURE	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-A-BKT
BRONZE	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-A-BZ
BRONZE TEXTURE	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-A-BZT
SILVER	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-A-SL
WHITE	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-A-WH
BRASS	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-B-P
STAINLESS STEEL	VOYA-3.5-30D-SNOOT-NO-WEEP-ASM-SS-P

SNOOTS - WITH WEEP HOLES

1" Regress



PART NUMBERS:

BEIGE	VOYA-3.5-1R-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-3.5-1R-SNOOT-ASM-A-BB
BLACK	VOYA-3.5-1R-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-3.5-1R-SNOOT-ASM-A-BKT
BRONZE	VOYA-3.5-1R-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-3.5-1R-SNOOT-ASM-A-BZT
SILVER	VOYA-3.5-1R-SNOOT-ASM-A-SL
WHITE	VOYA-3.5-1R-SNOOT-ASM-A-WH
BRASS	VOYA-3.5-1R-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-3.5-1R-SNOOT-ASM-SS-P

30 Degree

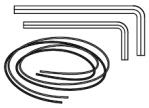


PART NUMBERS:

BEIGE	VOYA-3.5-30D-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-3.5-30D-SNOOT-ASM-A-BB
BLACK	VOYA-3.5-30D-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-3.5-30D-SNOOT-ASM-A-BKT
BRONZE	VOYA-3.5-30D-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-3.5-30D-SNOOT-ASM-A-BZT
SILVER	VOYA-3.5-30D-SNOOT-ASM-A-SL
WHITE	VOYA-3.5-30D-SNOOT-ASM-A-WH
BRASS	VOYA-3.5-30D-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-3.5-30D-SNOOT-ASM-SS-P

INSTALL KIT

Snoot Install Kit



PART NUMBERS:

VOYA-SNOOT-INSTALL-KIT

FINISH KEY RING

Finish Key Ring



PART NUMBERS:

VOYA-FINISH-KEY-RING

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VOYA 3.5" ADDITIONAL SNOOTS, OPTICS, KITS, FINISH KEY RINGS, & LENS FILTERS

Accessories

OPTICS - STATIC WHITE

12 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-3.5-OPTIC-SW-12

19 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-3.5-OPTIC-SW-19

25 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-3.5-OPTIC-SW-25

37 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-3.5-OPTIC-SW-37

51 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-3.5-OPTIC-SW-51

OPTICS - AMBER

21 Degree



PART NUMBERS:

AMBER	ACC-VOYA-3.5-OPTIC-A-21

28 Degree



PART NUMBERS:

AMBER	ACC-VOYA-3.5-OPTIC-A-28

39 Degree



PART NUMBERS:

AMBER	ACC-VOYA-3.5-OPTIC-A-39

52 Degree



PART NUMBERS:

AMBER	ACC-VOYA-3.5-OPTIC-A-52

LENS FILTERS

SPREAD



PART NUMBERS:

ACC-3.5-SP

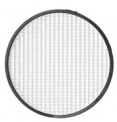
LINEAR SPREAD



PART NUMBERS:

ACC-3.5-LS

WALL WASH



PART NUMBERS:

ACC-3.5-WW

HONEYCOMB LOUVER



PART NUMBERS:

ACC-3.5-LV

RETAINING RING



PART NUMBERS:

ACC-3.5-RR

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3.5" VOYA LUMINAIRE

Landscape Lighting Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician - Field modifications void warranty
- Diagrams for representation only and not to scale.
- For all up-lighting applications, snoots require the weep hole to be unobstructed — orient at lowest point of aim.
- Licensed electrician required — 120V line voltage
- Dimmer wires can enter HV or LV compartment.

SPECIFICATIONS

- INPUT VOLTAGE: 120VAC (LINE VOLTAGE)
- DRIVER: INTEGRAL 40W POWER SUPPLY
- COMPARTMENTS: HV (PRIMARY) + LV (SECONDARY)
- DIMMER WIRES: HV OR LV COMPARTMENT
- LEAD WIRE: 36" OF 120V LEADS
- SNOOT SCREW: M5X5mm

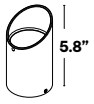
- WIRING DIAGRAM (PAGE 2)
- KNUCKLE INSTALLATION (PAGE 3)
- OPTICS INSTALLATION (PAGE 3)
- SNOOTS INSTALLATION (PAGE 4)

OPTICS



12°, 19°, 25°, 37°, 51°,
COB Spot for GZR®
OPTICS

SNOOTS

FL	1R	30D
		
FLUSH	1" RECESSED	30 DEGREE

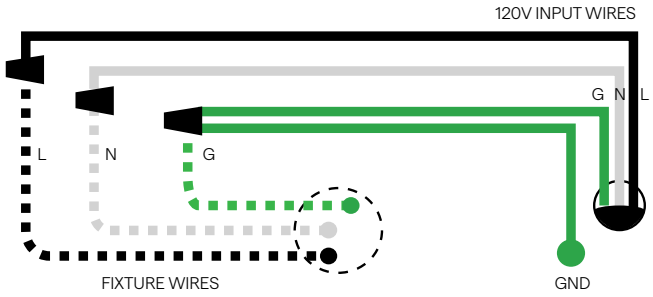
PROVIDED HARDWARE

		
M2.5 Allen Key	M4 Allen Key	12" Omniflex® Line
ALLEN KEY	ALLEN KEY	FLEXIBLE LINE

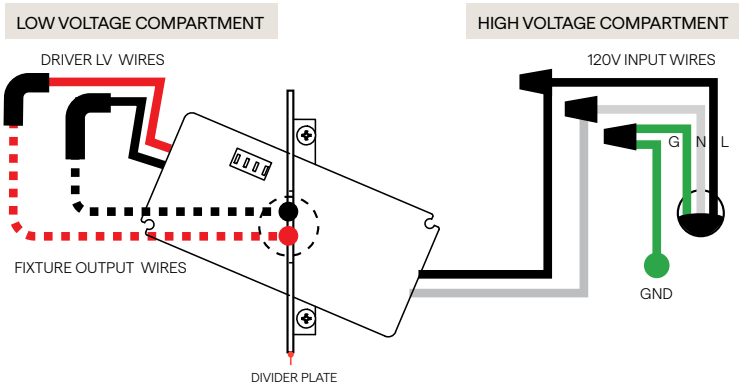
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WIRING DIAGRAM

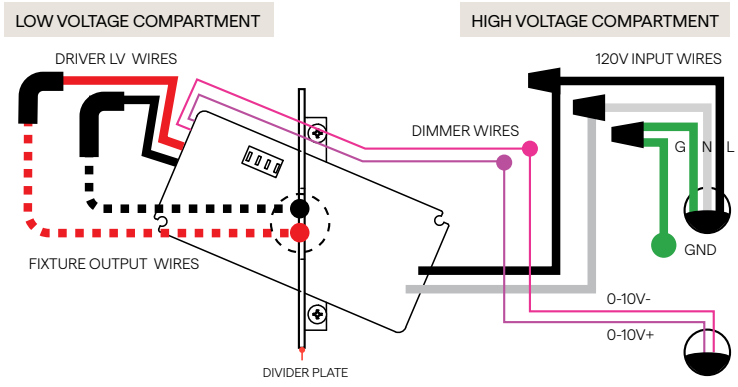
LINE VOLTAGE



120V POWER SUPPLY DRIVER



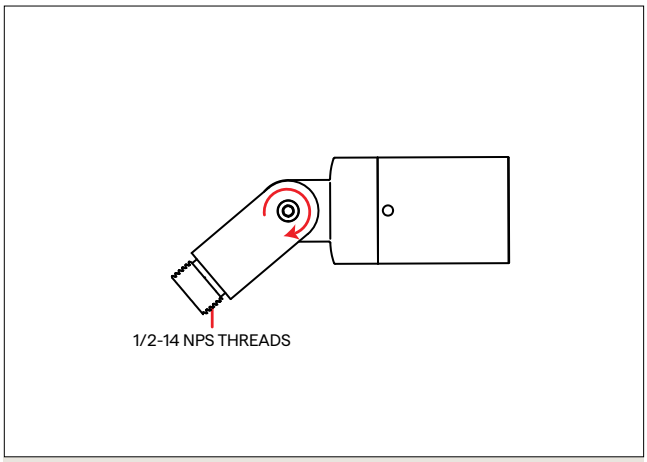
120V POWER SUPPLY DRIVER WITH DIMMER



IMPORTANT: DIMMER WIRES CAN BE SPLICED IN HIGH VOLTAGE COMPARTMENT OR LOW VOLTAGE COMPARTMENT.

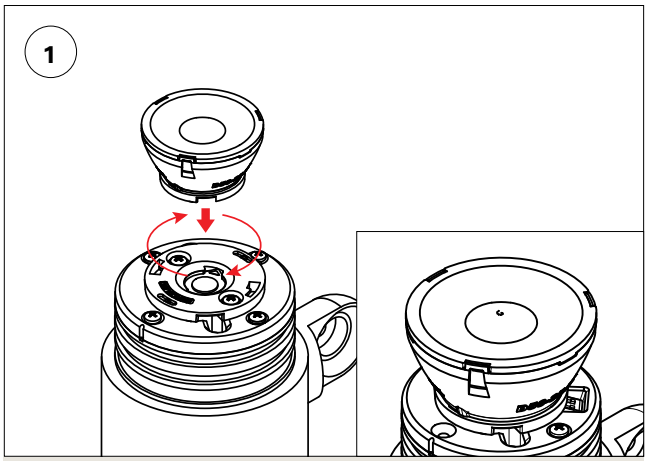
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KNUCKLE ADJUSTMENT

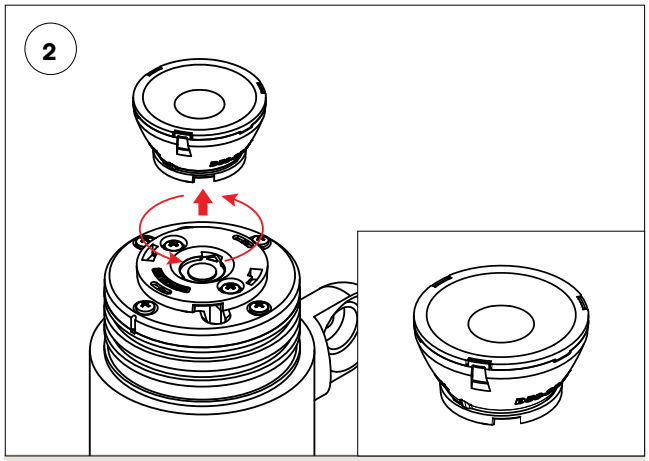


- Adjust and lock fixture at desired angle, using M4 Allen Key provided.

OPTICS INSTALLATION



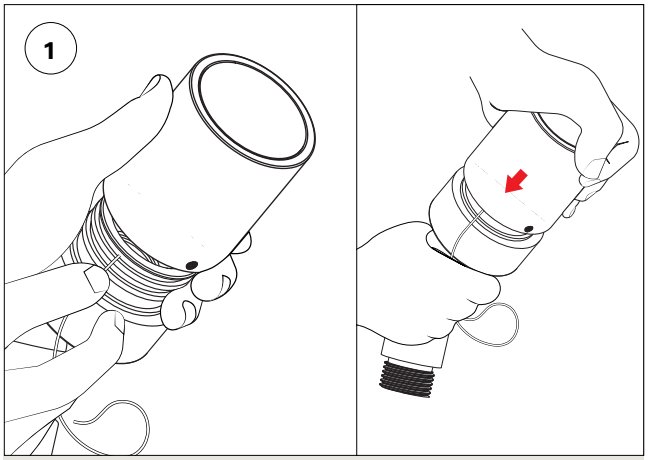
- Position the optic to align with COB holder. Apply downward pressure and rotate clockwise until it clicks into place.



- Rotate the optic counter-clockwise until disengaged from the COB holder. Then pull up to remove.

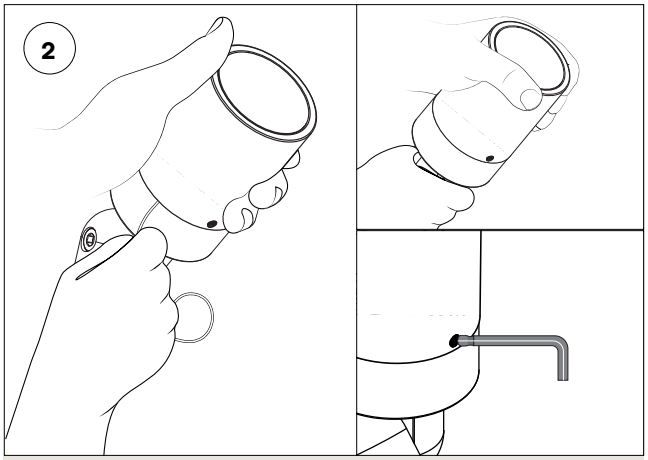
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SNOOT INSTALLATION



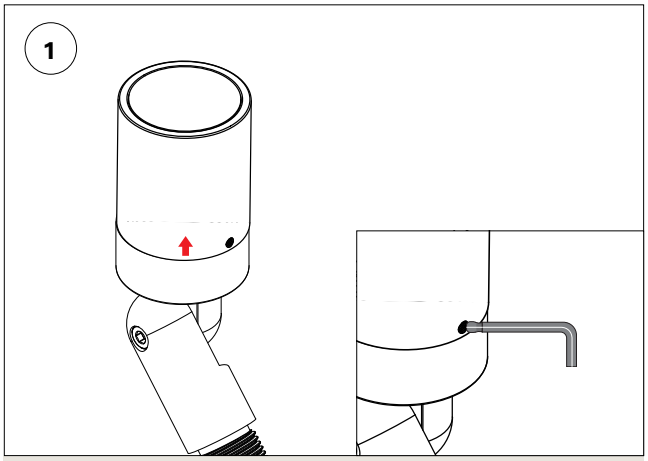
To Install

- **Align snoot:** Position snoot over fixture body and align it. Place the Omniflex® line over the gasket area.
- **Slide and rock onto base:** Slide snoot onto one side of fixture body. Rock gently back and forth while pressing down firmly until one side is fully seated.



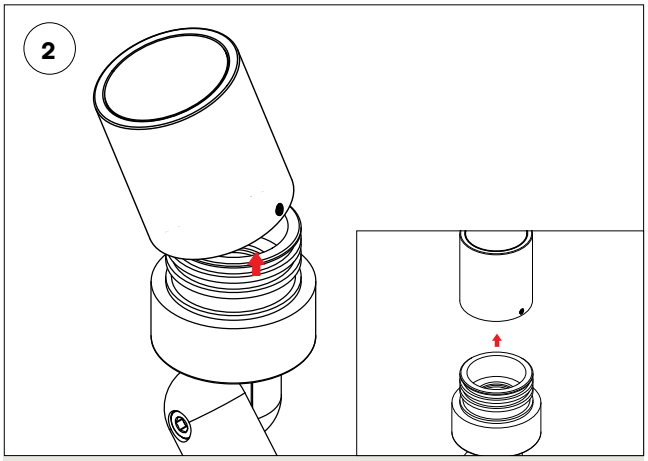
- **Secure the airtight seal:** Once the snoot is fully closed, pull the fishing wire through the snoot. Rotate the snoot until it is fully engaged, ensuring an airtight seal is maintained.
- **Secure set screw:** Tighten snoot set screw with M2.5 Allen Key, snug only. **DO NOT OVERTIGHTEN.**

For fixtures with weep hole, orient at lowest aiming angle for proper water drainage.



To Remove

- **Loosen set screw:** Loosen snoot set screw with M2.5 Allen Key, do not remove fully.



- **Rock and lift off:** Rock snoot side to side while gently pulling upward to release from fixture body.

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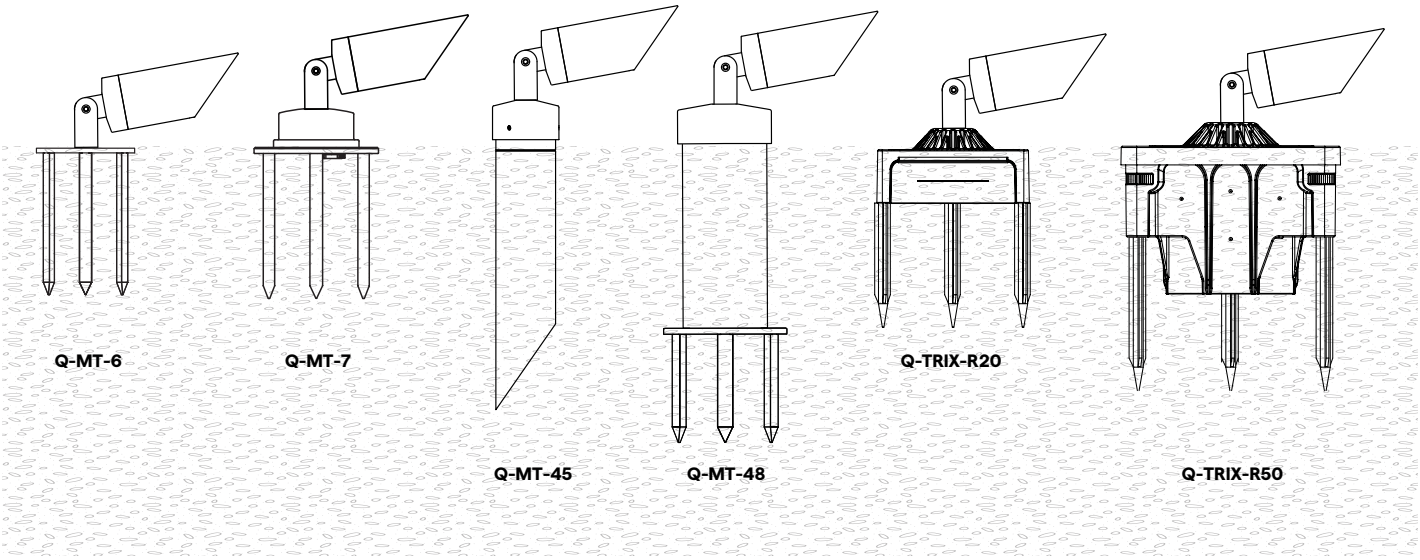
DIRECT BURIAL

Landscape Lighting Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product must be installed by a licensed electrician. Field modifications void the warranty.
- Warranty is valid only with QTL power supplies.
- Diagrams are for representation only and are not to scale.
- DO NOT cover the luminaire with soil or mulch.
- Squeeze silicone into the NPT threads on Q-TRIX units before mounting the fixture.
- Burial cable must be rated for direct burial and buried a minimum of 6" deep.
- J-BOX, connectors, and wire are supplied by the installer.
- Use a liquid-tight connector for 120V wire entry to the Q-MT-48.
- Voya 3.5 fixture shipped installed on the mounts - Q-MT-48, Q-MT-49 or Q-MT-50. Follow instructions for how to splice wires

METHODS OF INSTALLATION



- LUMINAIRE & MOUNT COMPATIBILITY (PAGE 2)
- COMPONENTS & HARDWARE (PAGE 3)
- SURFACE PREP (PAGE 4)
- DIRECT BURIAL - NO DRIVER (PAGE 5-9)
- DIRECT BURIAL - WITH DRIVER (PAGE 10-11)
- DIRECT BURIAL - DRIVER WITH DIMMER (PAGE 12-13)
- DIRECT BURIAL - Q-TRIX (PAGE 14-15)

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LUMINAIRE & MOUNT COMPATIBILITY

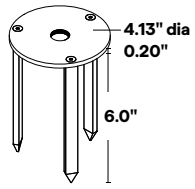
	Q-MT-6	Q-MT-7	Q-MT-45	Q-MT-48 No Driver	Q-MT-48 With Driver	Q-TRIX-R20 No Driver	Q-TRIX-R50 With Driver
VOYA-EM-1.75-MR11-12VAC	✓	✓	✓			✓	✓
VOYA-EM/SM-2.5	✓	✓	✓			✓	✓
VOYA-EM/SM-3.0-PAR20/GU10				✓			
VOYA-EM/SM-3.5-COB-120VAC					✓		
Excelsior UL-1	✓	✓					
Excelsior UL-1L	✓	✓					
Excelsior UL-2	✓	✓					
Excelsior UL-2L	✓	✓					
Excelsior UL-4	✓	✓					
Excelsior UL-4L	✓	✓					
Excelsior UL-5	✓	✓					
Excelsior UL-5L	✓	✓					
Excelsior UL-6	✓	✓					
Excelsior UL-6L	✓	✓					
Excelsior UL-7	✓	✓					
Excelsior UL-7L	✓	✓					
Excelsior PL-1	✓	✓	✓				
Excelsior PL-2	✓	✓	✓				
Excelsior PL-3	✓	✓	✓				
Excelsior PL-4	✓	✓	✓				
Excelsior PL-10	✓	✓	✓				
Excelsior PL-11	✓	✓	✓				
Excelsior PL-15	✓	✓	✓				
Excelsior PL-23	✓	✓	✓				
Excelsior PL-7	✓	✓	✓				
Excelsior PL-7L	✓	✓	✓				
Excelsior PL-27	✓	✓	✓				
Excelsior PL-28	✓	✓	✓				
Excelsior PL-5	✓	✓	✓				
Excelsior PL-6	✓	✓	✓				

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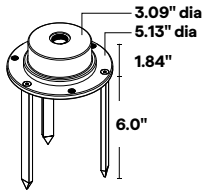
DIRECT BURIAL

Landscape Lighting Installation Instructions

Q-MT-6

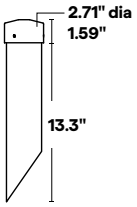


Q-MT-7

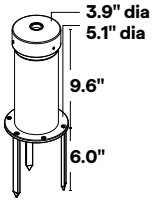


With Water Protection

Q-MT-45

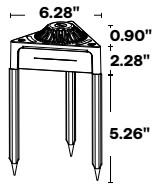


Q-MT-48



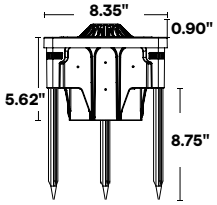
With Water Protection
No Driver | With Driver

Q-TRIX-R20



With Water Protection
No Driver

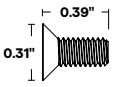
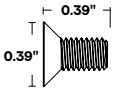
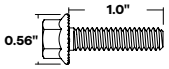
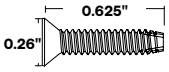
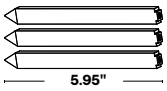
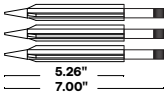
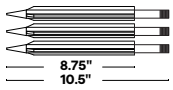
Q-TRIX-R50



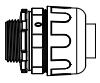
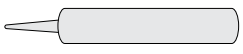
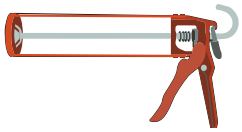
With Water Protection
With Driver

COMPONENTS & HARDWARE

PROVIDED HARDWARE

 **#PN** Q-MT-7 **QTY** 3	 **#PN** Q-MT-6, Q-MT-7 **QTY** 3, 3	 **#PN** Q-MT-45 **QTY** 3	 **TYPE** SCREWS For Q-TRIX-R50 **QTY** 3
M4x10mm	M5x12mm	M5x6mm	1/4"-20x1"
FLAT HEAD HEX SCREW	PHILLIPS FLAT HEAD SCREW	SET SCREW	SERRATED-FLANGE HEX HEAD SCREWS
 **TYPE** SCREWS For Q-TRIX-R20 **QTY** 3	 **#PN** Q-MT-6, Q-MT-7, Q-MT-48 **QTY** 3, 3, 3	 **TYPE** STAKE **QTY** 3	 **TYPE** STAKE **QTY** 3
6-32x5/8"	Stake: Use M5×12mm Phillips FH screws	Stake for Q-TRIX-R20	Stake for Q-TRIX-R50
PHILLIPS FLAT HEAD THREAD SCREW	PLANTING STAKE	PLANTING STAKE	PLANTING STAKE

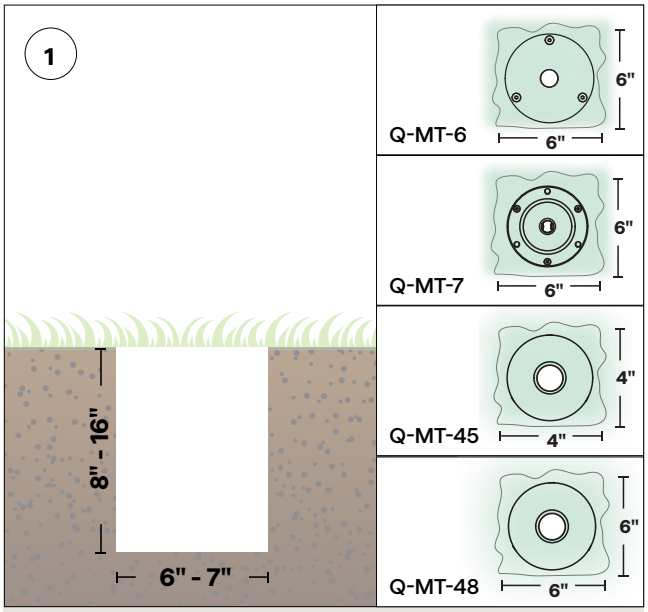
RECOMMENDED HARDWARE | **SUGGESTED TOOLS/MATERIALS**

 **#PN** Q-MT-6 **QTY** 1	 **#PN** Q-MT-7, Q-MT-48 **QTY** 1, 1		
1/2-14 NPS HEX NUT	1/2" Liquid-Tight Connector (By Others)	Waterproof Silicone	
HEX NUT / JAM NUT	CONDUIT CONNECTOR	ALL PURPOSE SILICONE	CAULKING GUN

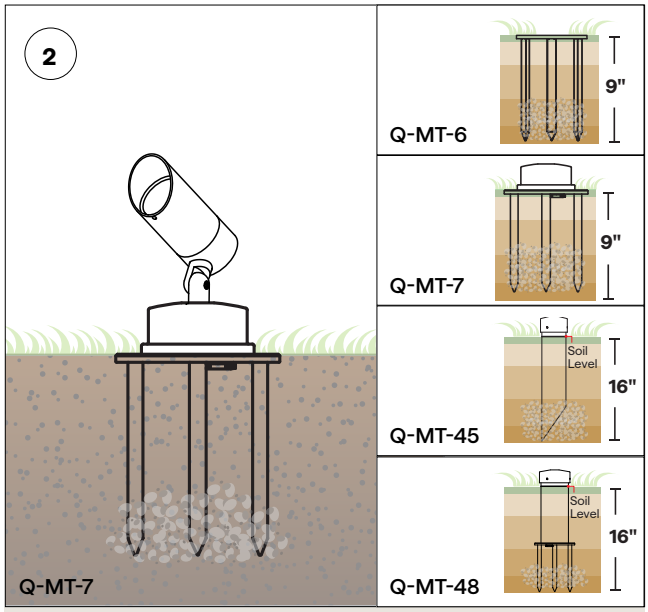
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SURFACE PREP

EXCAVATE (DIG HOLE): Q-MT-6, Q-MT-7, Q-MT-45, Q-MT-48

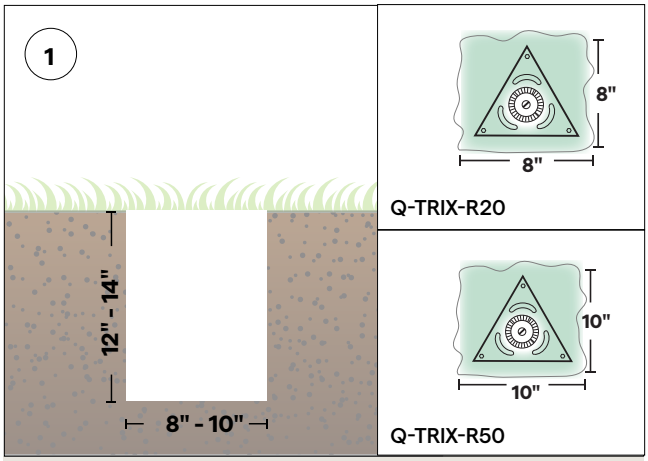


- Dig the hole to match the size of the housing for the product, as shown above for the hole length and width.

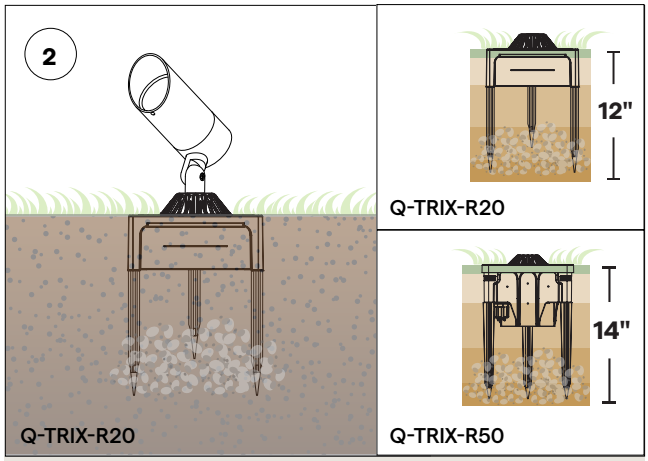


- Dig the hole to match the size of the housing for the product, as shown above for the hole depth.

EXCAVATE (DIG HOLE): Q-TRIX-R20, Q-TRIX-R50



- Dig the hole to match the size of the housing for the product, as shown above for the hole length and width.



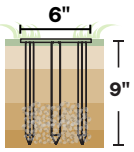
- Dig the hole to match the size of the housing for the product, as shown above for the hole depth.

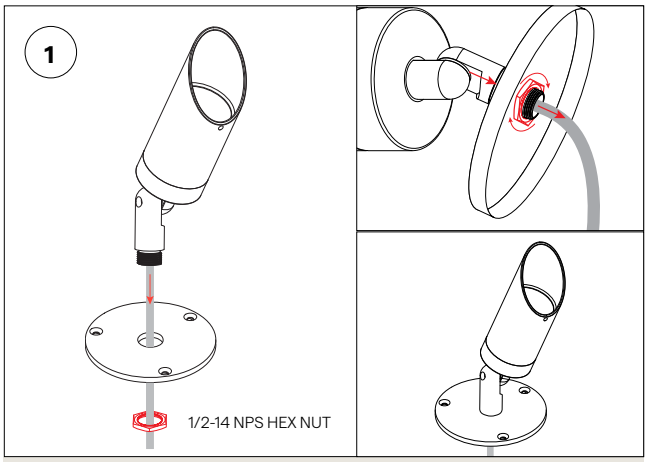
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DIRECT BURIAL

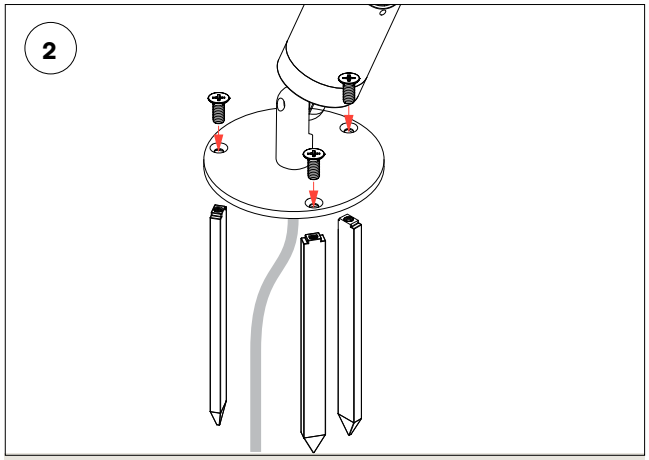
Landscape Lighting Installation Instructions

MOUNTING METHOD: **DIRECT BURIAL - NO DRIVER**
Q-MT-6

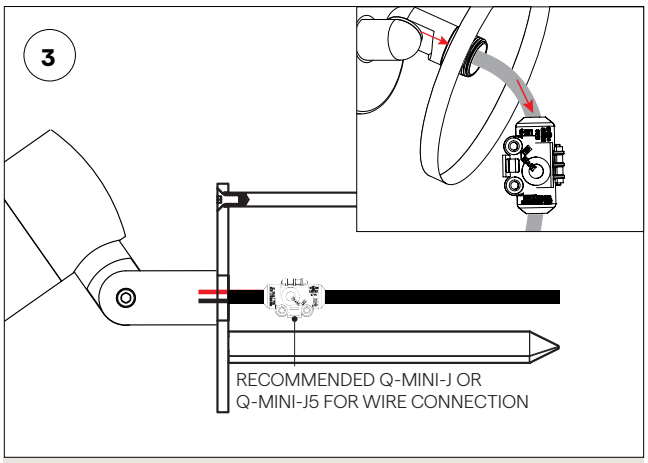




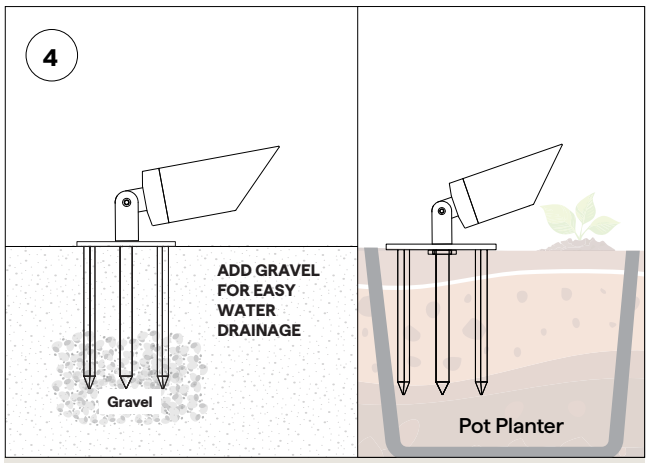
- Feed the fixture lead wire down through the plate, then screw fixture down with HEX NUT until fully seated.



- Attach the three (3) planting stakes to the underside of the mount using the supplied screws.



- Use liquid-tight wire nuts or QTL Q-Mini-J and follow the wiring diagram in the luminaire installations.
- Follow the wiring diagram in the luminaire instructions.



- Add gravel for easy drainage then backfill hole with soil as shown.

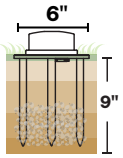
DO NOT COVER THE LUMINAIRE.

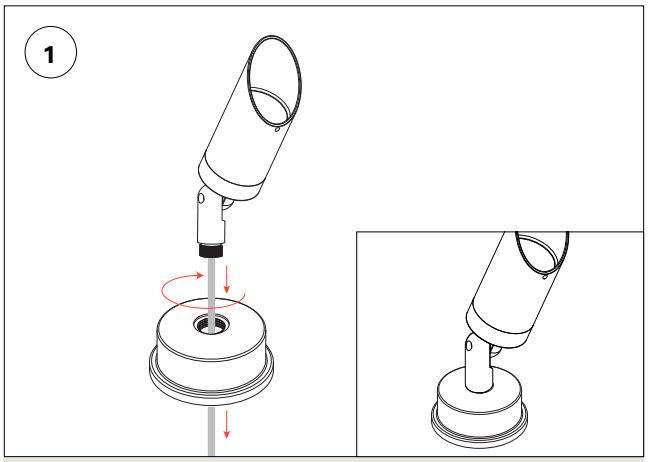
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DIRECT BURIAL

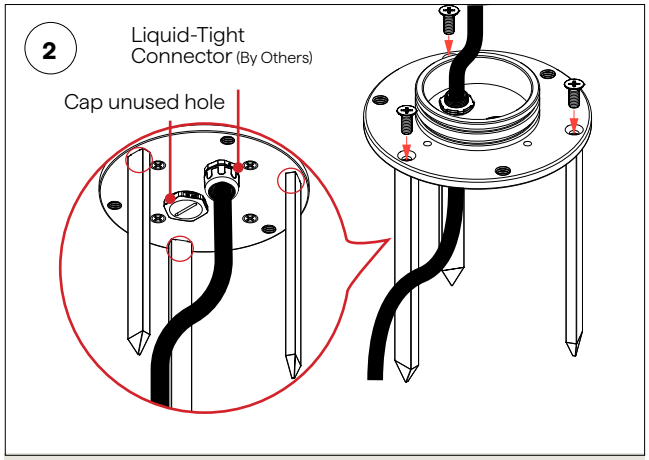
Landscape Lighting Installation Instructions

MOUNTING METHOD: **DIRECT BURIAL - NO DRIVER**
Q-MT-7

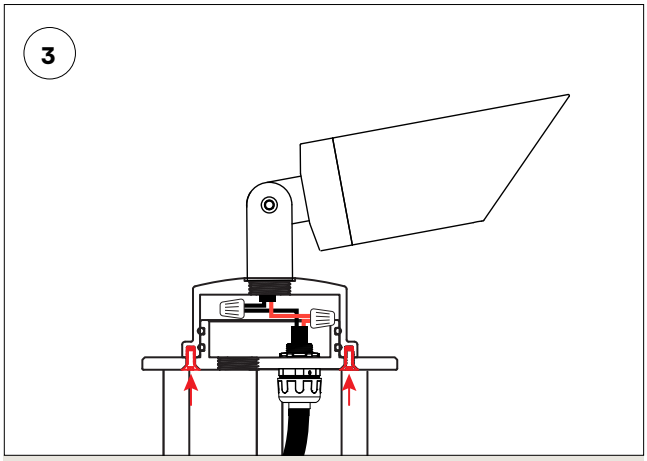




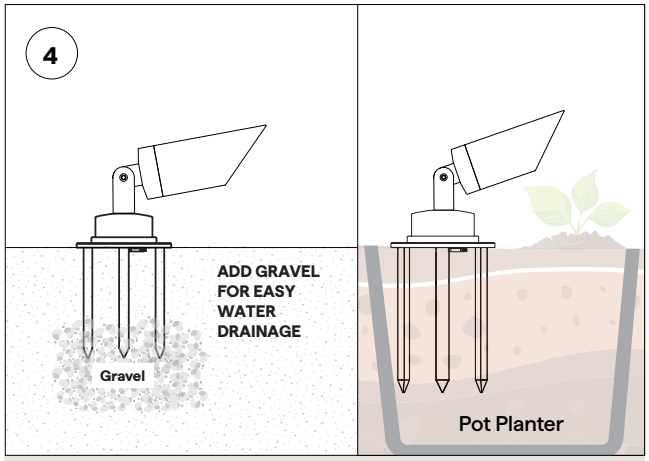
- Feed the fixture lead wire down through the canopy, then thread the fixture stem into the canopy opening and rotate until fully seated.



- Route the wire into 1/2" liquid-tight connector.
- Attach the three (3) planting stakes to the underside of the mount using the supplied screws.



- Follow the wiring diagram in the luminaire instructions. Install canopy screws from under plate to complete the installation.



- Add gravel for easy drainage then backfill hole with soil as shown.

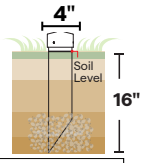
DO NOT COVER THE LUMINAIRE.

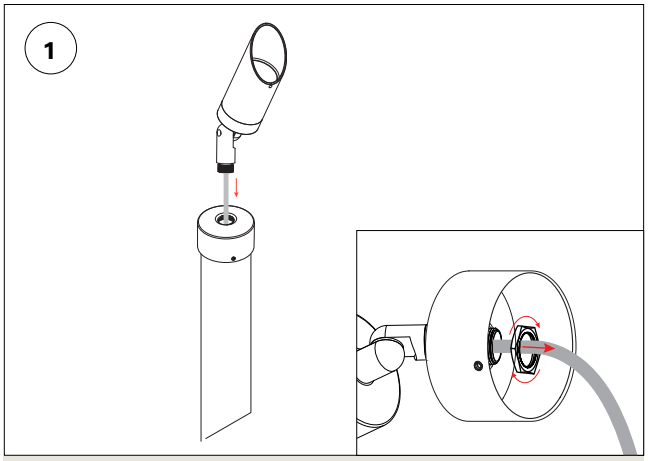
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DIRECT BURIAL

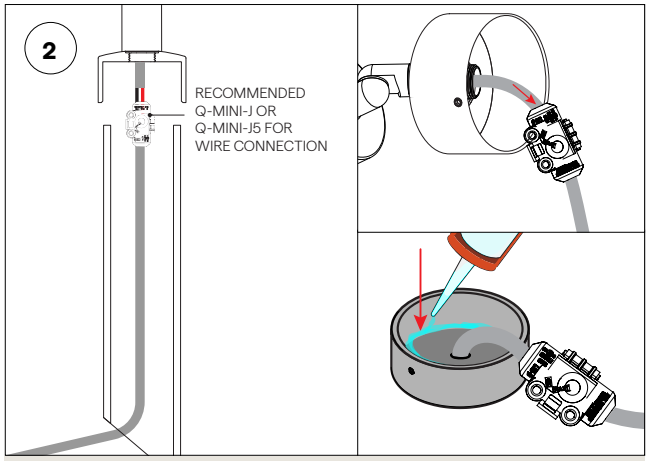
Landscape Lighting Installation Instructions

MOUNTING METHOD: **DIRECT BURIAL - NO DRIVER**
Q-MT-45

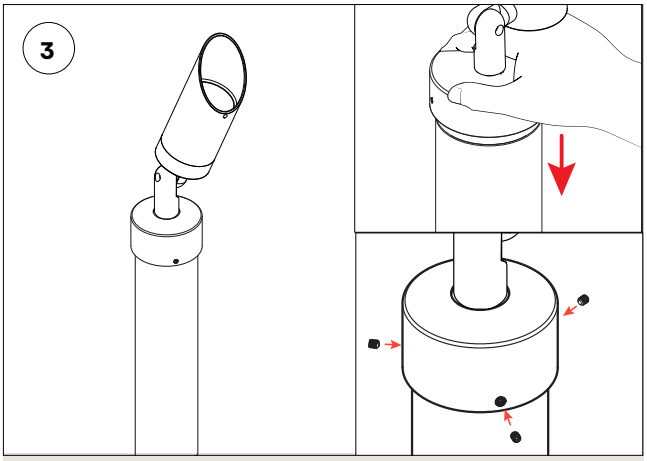




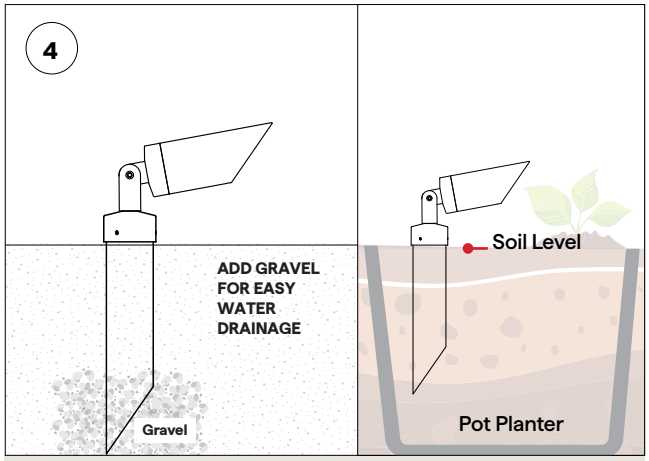
- Feed the fixture lead wire down through the canopy, then thread the fixture stem into the canopy opening and rotate until fully seated.



- Pull supply wire out of the PVC tube and splice the fixture wires.
- Use liquid-tight wire nuts or QTL Q-Mini-J and follow the wiring diagram in the luminaire installations.
- After wiring apply a 3/8-inch bead of silicone to the inner corner of the Q-MT-45 cap. Use a finger or tool to spread the bead evenly, ensuring all corners are fully covered.



- Place canopy over tube and Press the cap firmly until it is fully seated over the Q-MT-48 tube.
- Insert the three (3) side set screws and tighten until firm. Allow the silicone to set for 2 hours before testing or powering the device.
- Connection complete ready for burial.



- Add gravel for easy drainage then backfill hole with soil as shown.

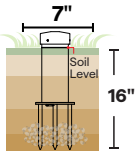
DO NOT COVER THE LUMINAIRE.

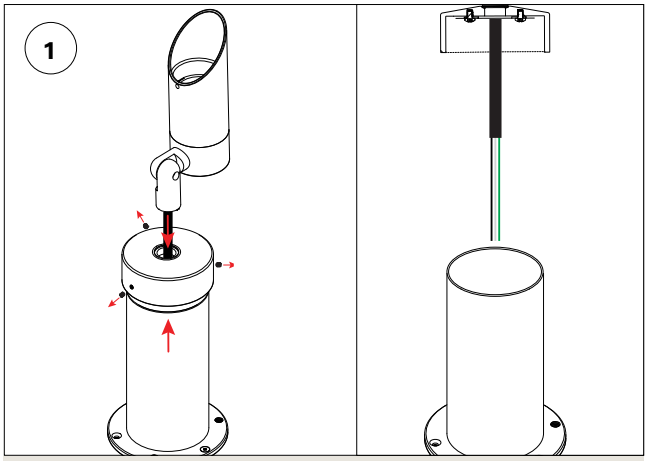
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DIRECT BURIAL

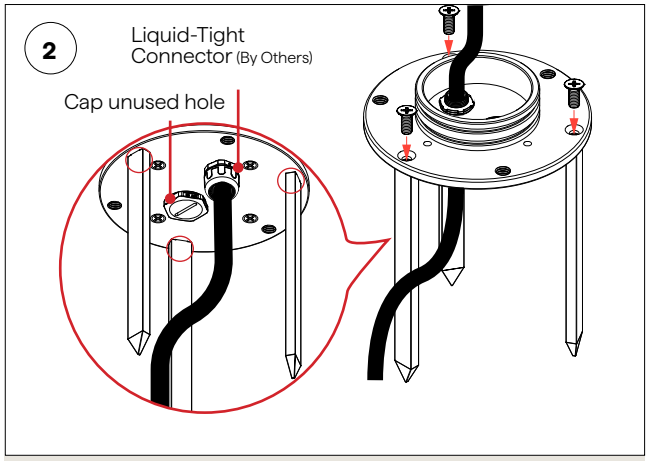
Landscape Lighting Installation Instructions

MOUNTING METHOD: **DIRECT BURIAL - NO DRIVER**
Q-MT-48

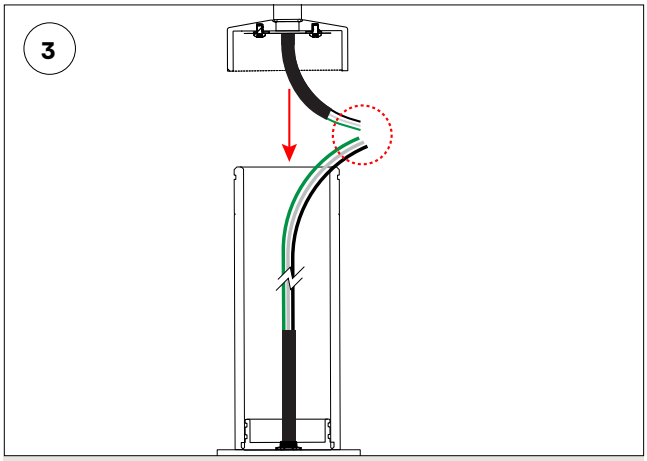




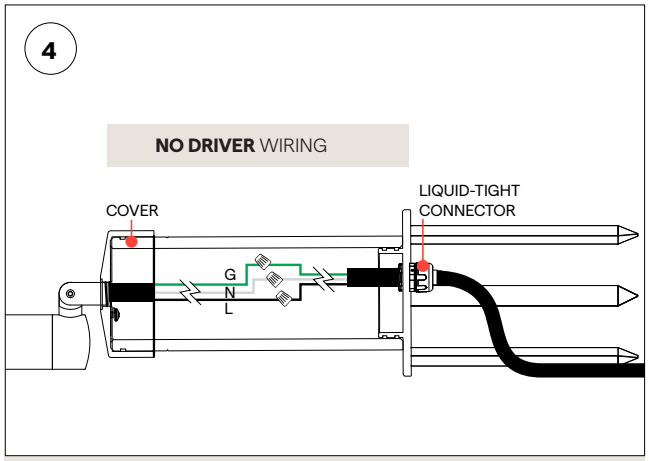
- Remove the set screws, then remove the top cap.
- Install fixture onto canopy.
- Feed the fixture lead wire down through the canopy then thread the fixture into the canopy opening and rotate until fully seated.



- Route the wire into 1/2" liquid-tight connector (by others).
- Attach the three (3) planting stakes to the underside of the mount using the supplied screws.



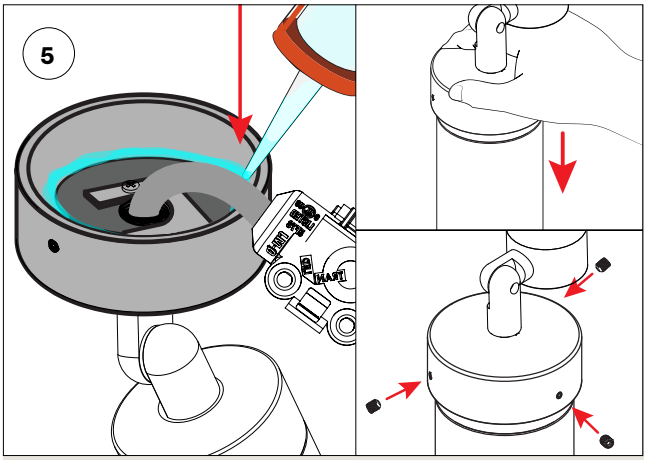
- For ease of splicing, pull the line-voltage wire out of the tube to splice it to the fixture wire using wire nuts (by others) follow luminaire wiring instructions.



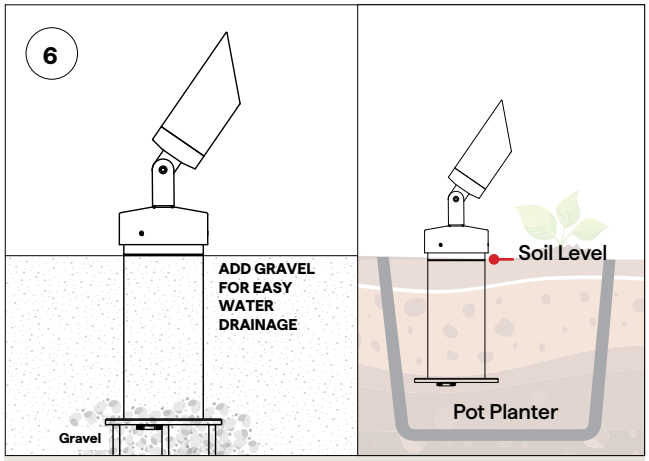
- Visual representation of complete wiring.
- Follow the wiring diagram in the luminaire instructions.

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MOUNTING METHOD: **DIRECT BURIAL - NO DRIVER**
Q-MT-48



- After wiring apply a 3/8-inch bead of silicone to the inner corner of the Q-MT-48 top cap. Use a finger or tool to spread the bead evenly, ensuring all corners are fully covered.
- Place canopy over tube and Press the cap firmly until it is fully seated over the Q-MT-48 tube.
- Insert the three (3) side set screws and tighten until firm. Allow the silicone to set for 2 hours before testing or powering the device.
- Connection complete ready for burial.

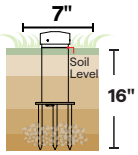


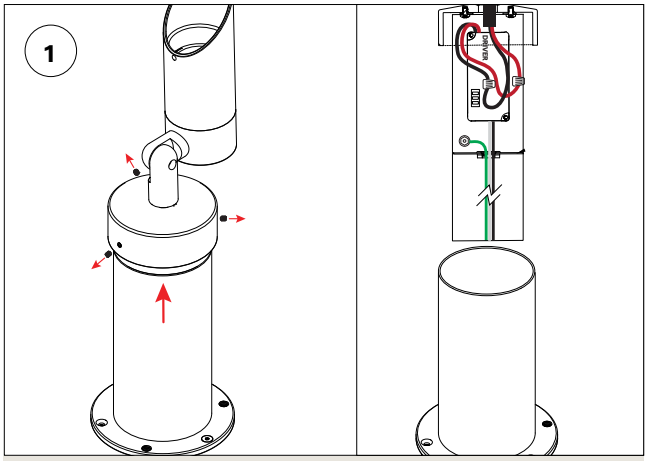
- Add gravel for easy drainage then backfill hole with soil as shown.

DO NOT COVER THE LUMINAIRE.

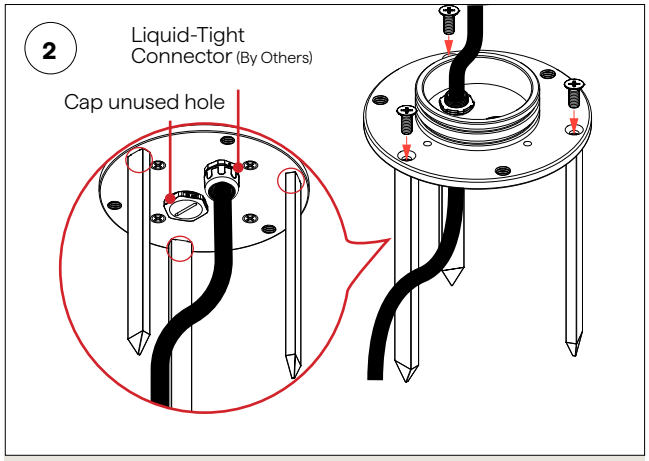
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MOUNTING METHOD: **DIRECT BURIAL - WITH DRIVER**
Q-MT-48

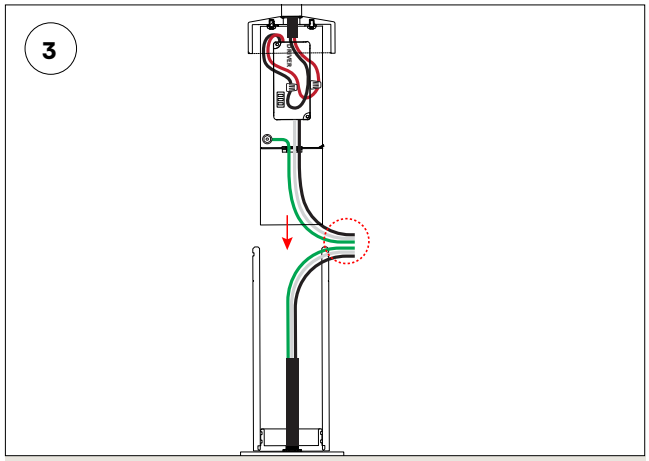




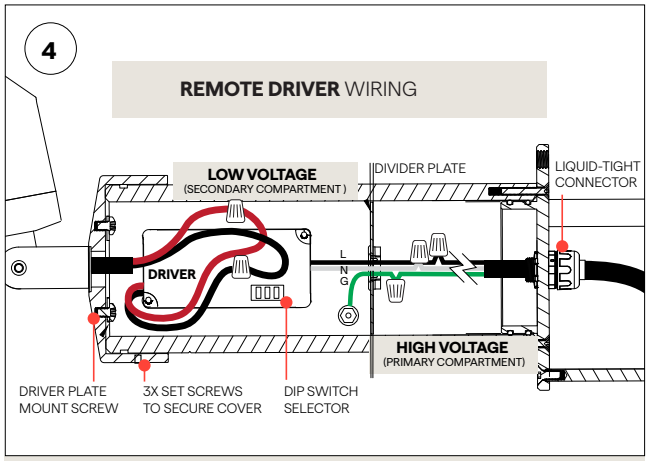
- Remove the set screws, then remove the top cap along with driver attached.



- Route the wire into 1/2" liquid-tight connector (by others).
- Attach the three (3) planting stakes to the underside of the mount using the supplied screws.



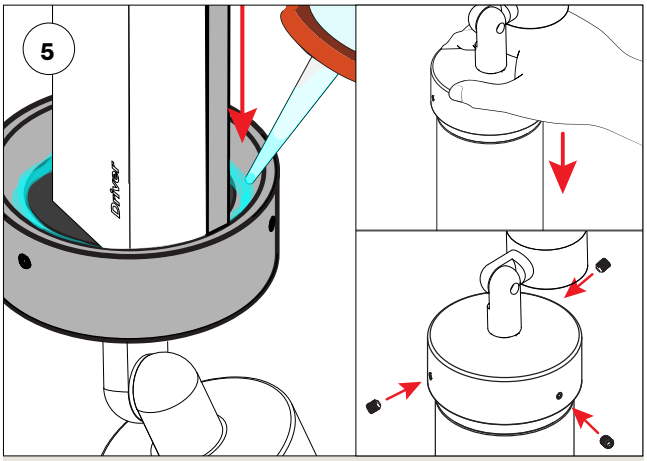
- For ease of splicing, pull the line-voltage wire out of the tube and splice it to the fixture wire using wire nuts (by others) follow luminaire wiring instructions.



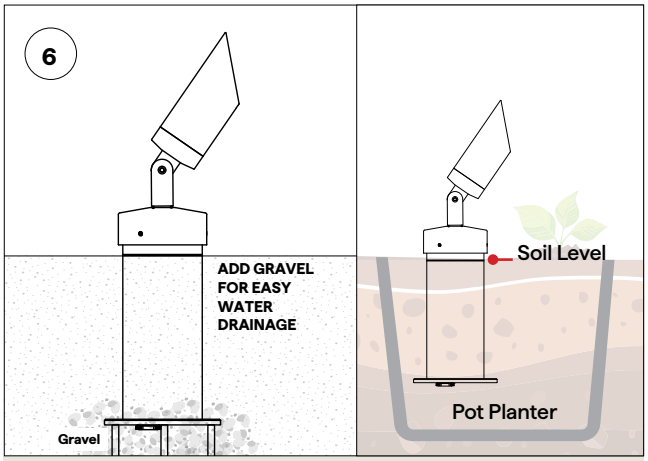
- Visual representation of complete wiring.
- Follow the wiring diagram in the luminaire instructions.

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MOUNTING METHOD: **DIRECT BURIAL - WITH DRIVER**
Q-MT-48



- Apply a 3/8-inch bead of silicone to the inner corner of the Q-MT-48 top cap. Use a finger or tool to spread the bead evenly, ensuring all corners are fully covered.
- Place canopy over tube and Press the cap firmly until it is fully seated over the Q-MT-48 tube.
- Insert the three (3) side set screws and tighten until firm. Allow the silicone to set for 2 hours before testing or powering the device.
- Connection complete ready for burial.

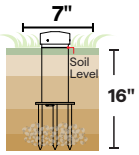


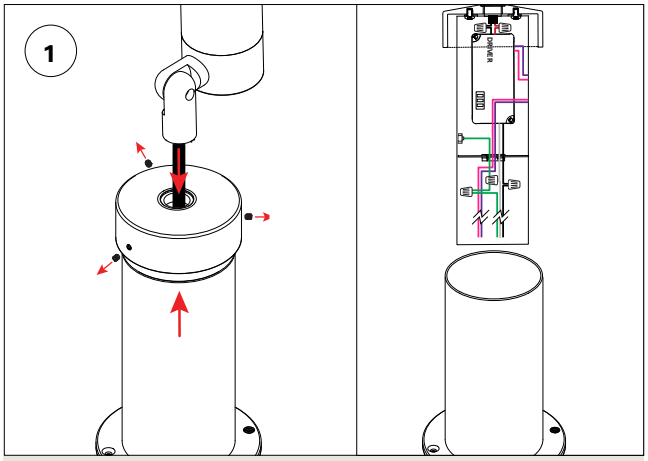
- Add gravel for easy drainage then backfill hole with soil as shown.

DO NOT COVER THE LUMINAIRE.

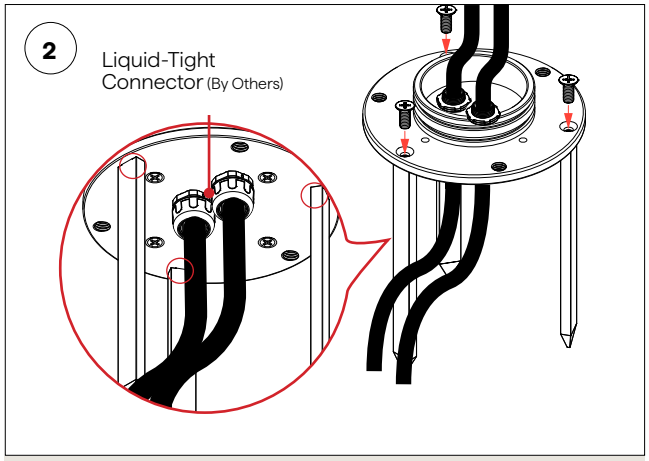
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MOUNTING METHOD: **DIRECT BURIAL - DRIVER WITH DIMMER**
Q-MT-48

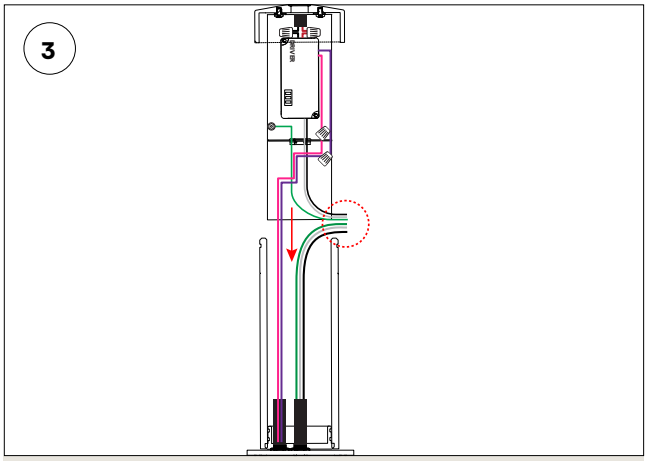




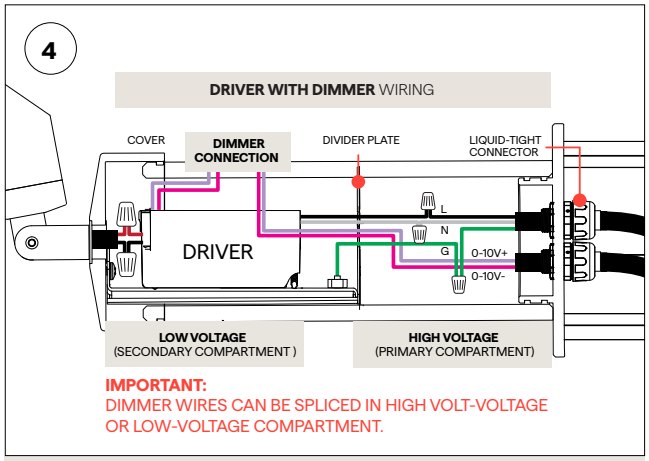
- Remove the set screws, then remove the top cap along with driver attached.



- Route the wire into 1/2" liquid-tight connector (by others).
- Attach the three (3) planting stakes to the underside of the mount using the supplied screws.



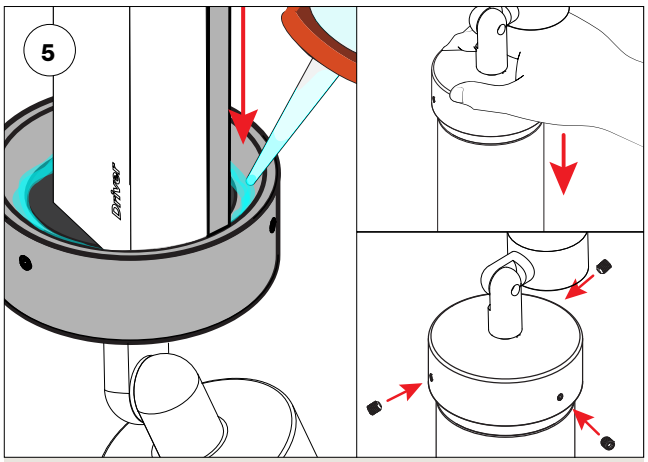
- For ease of splicing, pull the line-voltage wire out of the tube and splice it to the fixture wire using wire nuts (by others) follow luminaire wiring instructions.



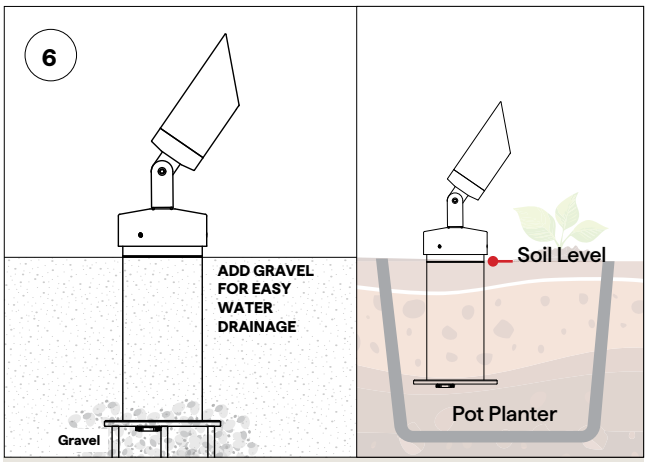
- Visual representation of complete wiring.
- Follow the wiring diagram in the luminaire instructions.

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MOUNTING METHOD: **DIRECT BURIAL - DRIVER WITH DIMMER**
Q-MT-48



- Apply a 3/8-inch bead of silicone to the inner corner of the Q-MT-48 top cap. Use a finger or tool to spread the bead evenly, ensuring all corners are fully covered.
- Place canopy over tube and Press the cap firmly until it is fully seated over the Q-MT-48 tube.
- Insert the three (3) side set screws and tightened until firm. Allow the silicone to set for 2 hours before testing or powering the device.
- Connection complete ready for burial.



- Add gravel for easy drainage then backfill hole with soil as shown.

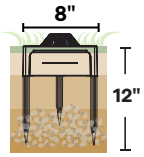
DO NOT COVER THE LUMINAIRE.

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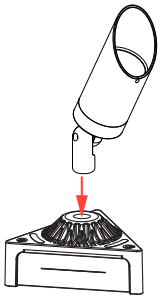
DIRECT BURIAL

Landscape Lighting Installation Instructions

MOUNTING METHOD: **DIRECT BURIAL - Q-TRIX NO DRIVER**
Q-TRIX-R20



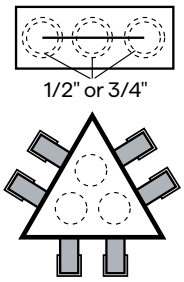
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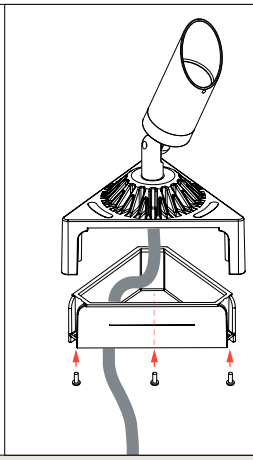


- Remove the cap to expose the 1/2" NPT threads and center knockout (KO), then install the fixture.

IMPORTANT
SQUEEZE SILICONE INTO THE THREADS
BEFORE MOUNTING FIXTURE

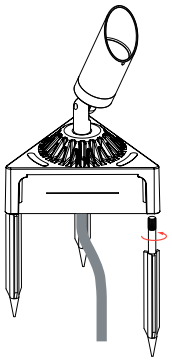
2





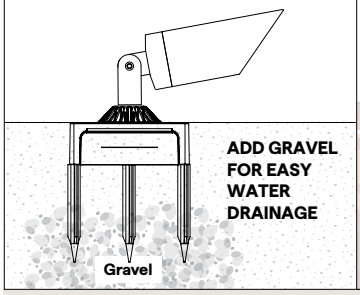
- Complete the wiring and power connection, then secure the bottom of the Q-TRIX unit with the three (3) supplied screws.

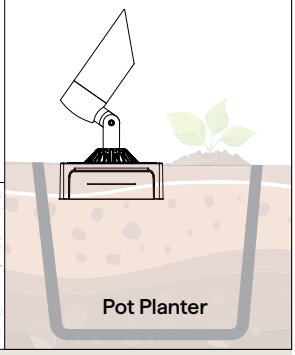
3



- Install the three (3) stakes to the Q-TRIX-R20 by screwing them in place in the direction shown.

4





- Add gravel for easy drainage then backfill hole with soil as shown.
- Refer to the Q-TRIX-R20 product page for more detailed installation guidelines.

DO NOT COVER THE LUMINAIRE.

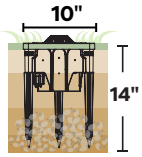
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DIRECT BURIAL

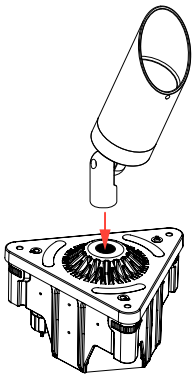
Landscape Lighting Installation Instructions

MOUNTING METHOD: **DIRECT BURIAL - Q-TRIX WITH DRIVER**

Q-TRIX-R50



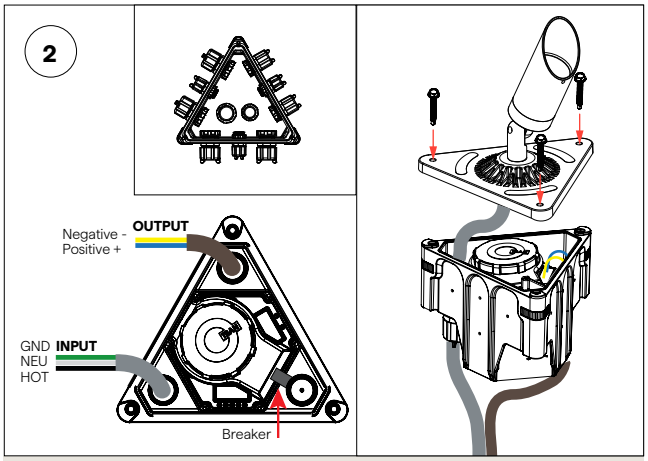
1



- Remove the cap to expose the 1/2" NPT threads and center knockout (KO), then install the fixture.

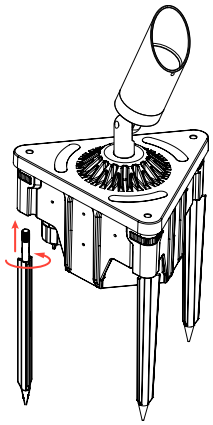
IMPORTANT
SQUEEZE SILICONE INTO THE THREADS
BEFORE MOUNTING FIXTURE

2



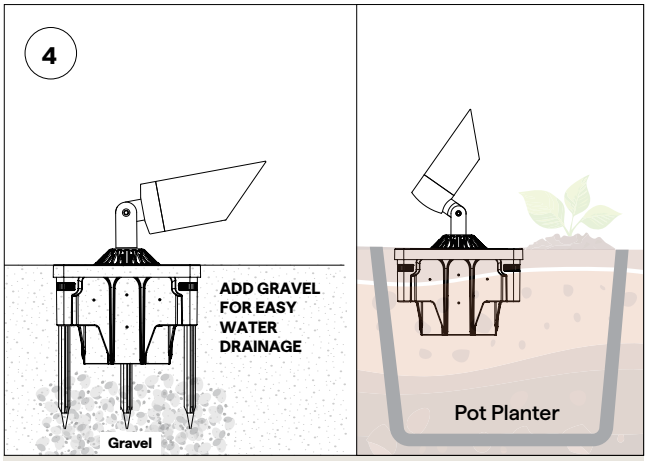
- Complete the wiring and power connection, then secure the bottom of the Q-TRIX unit with the three (3) supplied screws.

3



- Install the three (3) stakes to the Q-TRIX-R50 by screwing them in place in the direction shown.

4



- Add gravel for easy drainage then backfill hole with soil as shown.
- Refer to the Q-TRIX-R50 product page for more detailed installation guidelines.

DO NOT COVER THE LUMINAIRE.

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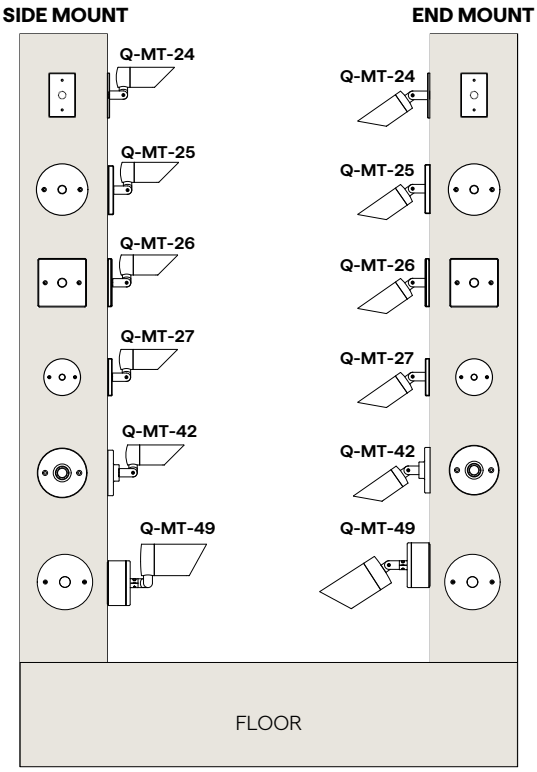
SURFACE & RECESSED J-BOX

Landscape Lighting Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product must be installed by a licensed electrician. Field modifications void the warranty.
- Warranty is valid only with QTL power supplies.
- Diagrams are for representation only and are not to scale.
- Apply silicone around the edge of the canopy for additional water protection.
- Ensure the J-BOX is flush and securely fastened before mounting the canopy.
- J-BOX, conduit, and connectors are supplied by the installer — not included.
- RISK OF FIRE OR INJURY / SAVE THESE INSTRUCTIONS
- Install per NEC and local codes.

METHODS OF INSTALLATION



- LUMINAIRE & MOUNT COMPATIBILITY (PAGE 2)
- COMPONENTS & HARDWARE (PAGE 3)
- SURFACE/WALL J-BOX - NO DRIVER (PAGE 4)
- RECESSED J-BOX - NO DRIVER (PAGE 5)
- RECESSED J-BOX - 120V DRIVER (PAGE 6)

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SURFACE & RECESSED J-BOX

Landscape Lighting Installation Instructions

LUMINAIRE & MOUNT COMPATIBILITY

	Q-MT-24	Q-MT-25	Q-MT-26	Q-MT-27	Q-MT-42	Q-MT-49BF No Driver	Q-MT-49BF With Driver	Q-MT-49SF No Driver	Q-MT-49SF With Driver
VOYA-EM-1.75-MR11-12VAC	✓	✓	✓	✓	✓				
VOYA-EM/SM-2.5	✓	✓	✓	✓	✓				
VOYA-EM/SM-3.0-PAR20/GU10	✓	✓	✓	✓	✓	✓		✓	
VOYA-EM/SM-3.5-COB-120VAC							✓		✓
Excelsior DL-6		✓		✓					
Excelsior DL-7		✓		✓					
Excelsior DL-8		✓		✓					
Excelsior DL-10		✓		✓					
Excelsior DL-10L		✓		✓					
Excelsior DL-11		✓		✓					
Excelsior DL-11L		✓		✓					
Excelsior DL-12		✓		✓					
Excelsior DL-12L		✓		✓					
Excelsior DL-13		✓		✓					
Excelsior DL-13L		✓		✓					
Excelsior DL-14		✓		✓					
Excelsior DL-14L		✓		✓					
Excelsior DL-28	✓	✓	✓	✓					
Excelsior DL-29	✓	✓	✓	✓					
Excelsior DL-30	✓	✓	✓	✓					
Excelsior UL-28		✓	✓	✓					
Excelsior UL-29		✓	✓	✓					
Excelsior UL-30		✓	✓	✓					
Excelsior WA-1		✓	✓	✓					
Excelsior WA-1L		✓	✓	✓					
Excelsior WA-2		✓	✓	✓					
Excelsior WA-2L		✓	✓	✓					
Excelsior WA-4		✓	✓	✓					
Excelsior WA-4L		✓	✓	✓					
Excelsior WA-5		✓	✓	✓					
Excelsior WA-5L		✓	✓	✓					
Excelsior WA-6		✓	✓	✓					
Excelsior WA-6L		✓	✓	✓					
Excelsior WA-23		✓	✓	✓					
Excelsior WA-24		✓	✓	✓					
Excelsior WA-25		✓	✓	✓					
Excelsior WA-26		✓	✓	✓					
Excelsior WA-27		✓	✓	✓					
Excelsior WA-28		✓	✓	✓					
Excelsior WA-7		✓	✓	✓					
Excelsior WA-7L		✓	✓	✓					
Excelsior WA-8		✓	✓	✓					
Excelsior WA-8L		✓	✓	✓					
Excelsior WA-10		✓	✓	✓					
Excelsior WA-10L		✓	✓	✓					
Excelsior WA-12		✓	✓	✓					
Excelsior WA-12L		✓	✓	✓					
Excelsior WA-29		✓	✓	✓					
Excelsior WA-30		✓	✓	✓					
Excelsior WA-31		✓	✓	✓					
Excelsior WA-38		✓	✓	✓					
Excelsior WA-39		✓	✓	✓					
Excelsior WA-40		✓	✓	✓					

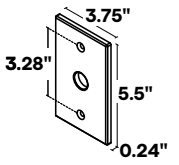
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SURFACE & RECESSED J-BOX

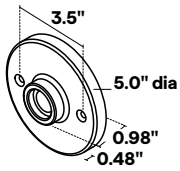
Landscape Lighting Installation Instructions

SURFACE/WALL J-BOX PLATES

Q-MT-24

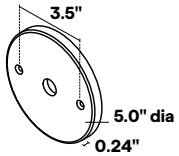


Q-MT-42

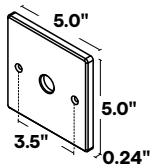


RECESSED J-BOX PLATES

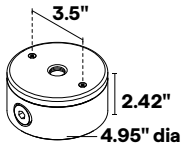
Q-MT-25



Q-MT-26

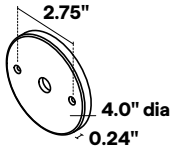


Q-MT-49

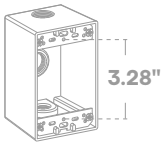


With Water Protection

Q-MT-27

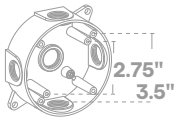


RECOMMENDED JUNCTION BOXES (BY OTHERS)



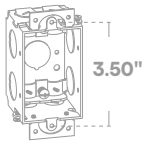
6-32x1.25"

SINGLE GANG
WEATHERPROOF J-BOX



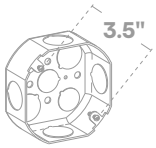
10-24x 1.25"

4/O
WEATHERPROOF J-BOX



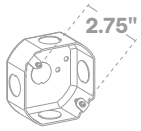
6-32×1.25"

SINGLE GANG
RECESSED J-BOX



8-32x1.25"

4/O
RECESSED J-BOX

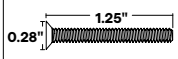


8-32x1.25"

3/O
RECESSED J-BOX

COMPONENTS & HARDWARE

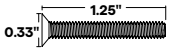
PROVIDED HARDWARE



#PN	QTY
Q-MT-24	2
Q-MT-49	2

6-32x1.25"

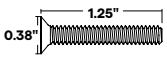
FLAT HEAD SCREW



#PN	QTY
Q-MT-25	2
Q-MT-26	2
Q-MT-27	2

8-32x1.25"

FLAT HEAD SCREW



#PN	QTY
Q-MT-42	2

10-24x 1.25"

FLAT HEAD SCREW



#PN	QTY
Q-MT-42	1

10-32x3/16"

SET SCREW

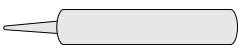
SUGGESTED TOOLS/MATERIALS



#PN	QTY
Q-MT-24	1
Q-MT-25	1
Q-MT-26	1
Q-MT-27	1

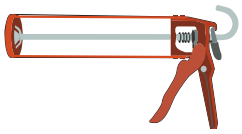
1/2-14 NPS HEX NUT

HEX NUT / JAM NUT



Waterproof Silicone

ALL PURPOSE SILICONE



CAULKING GUN

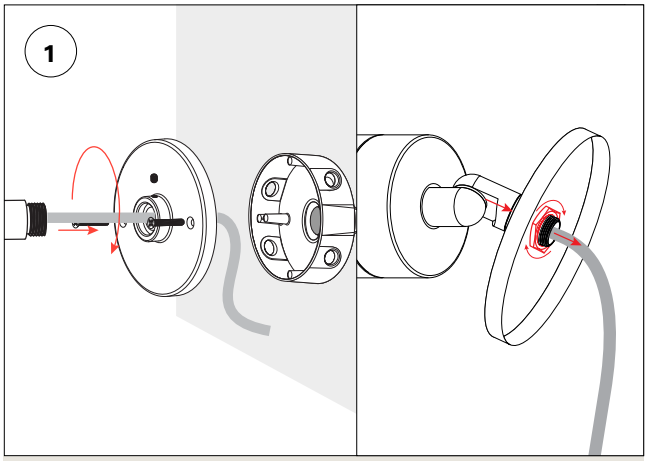
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SURFACE & RECESSED J-BOX

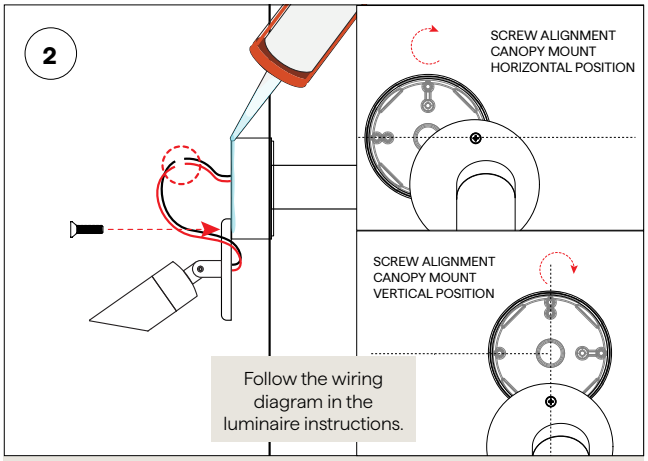
Landscape Lighting Installation Instructions

MOUNTING METHOD: **SURFACE/WALL J-BOX - NO DRIVER**

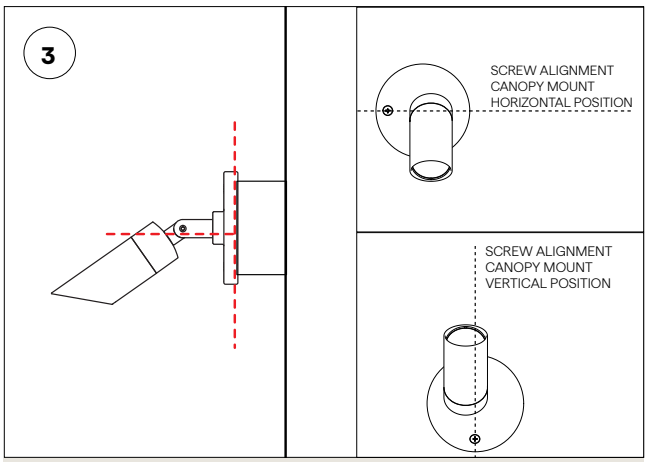
Q-MT-24, Q-MT-42



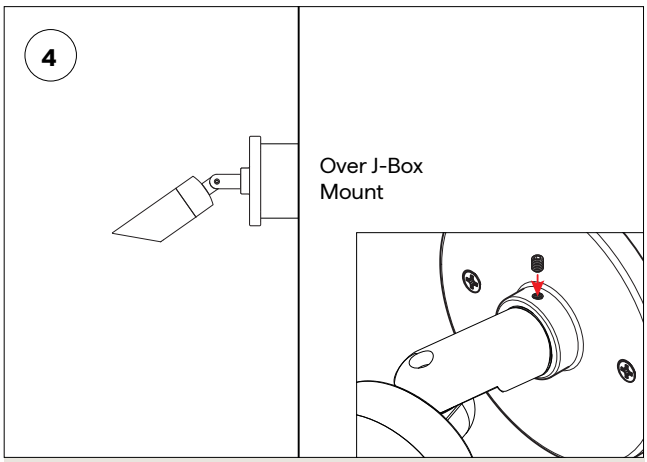
- Prepare the J-BOX by removing knockouts for wire entry
- Install the surface-mount J-BOX on the wall following the manufacturer's instructions.
- Bring the power supply wires through the J-BOX connectors.
- Q-MT-42: Install the fixture onto the canopy and screw it on until seated.
- Q-MT-24: Install the fixture onto the canopy and secure it with the provided jam nut.



- Mount one side of the canopy with the provided screws.
- Cut the wires to length as needed and splice the fixture and J-BOX wires together.
- Add a bead of silicone around the trim of the J-BOX for additional water protection as needed.



- Tuck the excess wires into the J-BOX, rotate the canopy into position, and install the provided screw into the J-BOX.

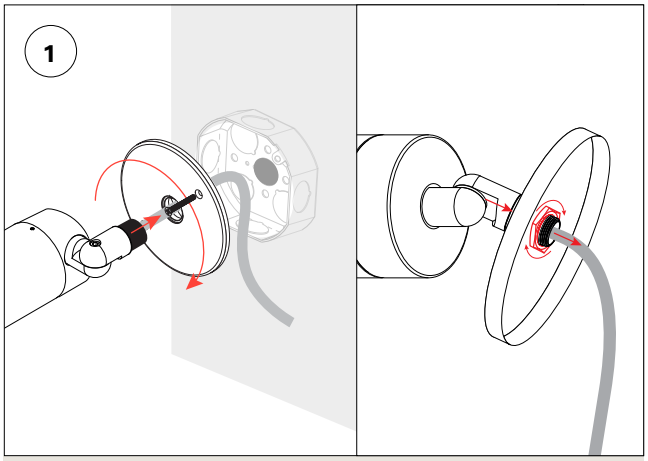


- Q-MT-42: The fixture can be rotationally adjusted slightly with the provided set screw on the canopy. Other canopies do not have this feature.
- Installation complete.

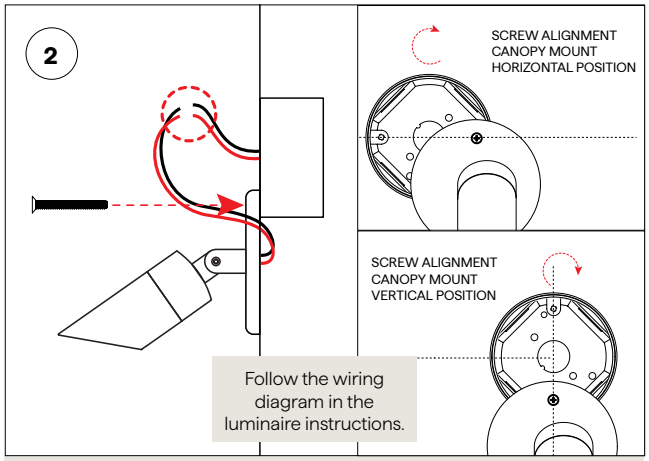
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MOUNTING METHOD: **RECESSED J-BOX - NO DRIVER**

Q-MT-25, Q-MT-26, Q-MT-27, Q-MT-49BF

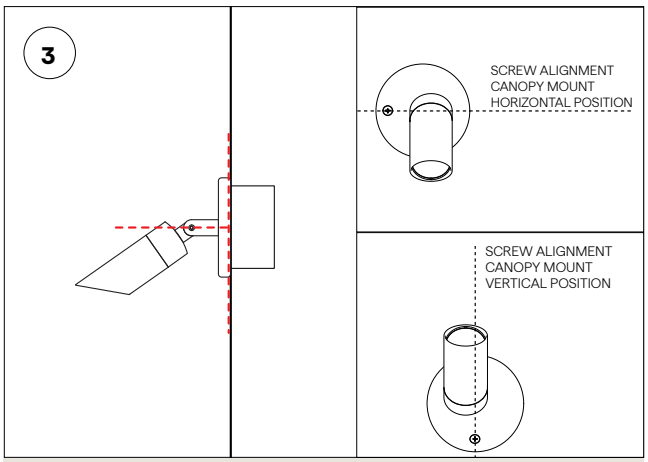


- Prepare the J-BOX by removing knockouts for wire entry.
- Install the recessed J-BOX behind the surface following the manufacturer's instructions.
- Bring the power supply wires through the J-BOX connectors.
- Q-MT-49: Install the fixture onto the canopy and screw it on until seated.
- Q-MT-25, Q-MT-26, Q-MT-27: Install the fixture onto the canopy and secure it with the provided jam nut.

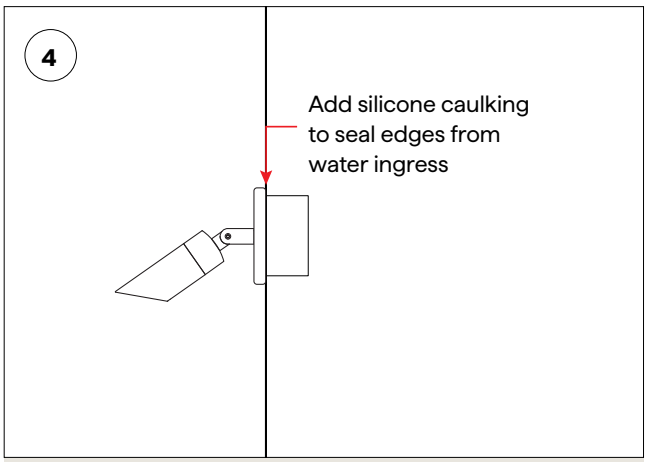


- Mount one side of the canopy with the provided screws.
- Cut the wires to length as needed and splice the fixture and J-BOX wires together.

NOTE: *The canopy must completely cover the J-BOX and the excess hole cutout. Mounting screws are not provided. Secure the Q-MT-49 base using #10 mounting screws (by others).*



- Tuck the excess wires into the J-BOX, rotate the canopy into position, and install the provided screw into the J-BOX.



- Add additional silicone caulking for extra protection against water ingress.
- Installation complete.

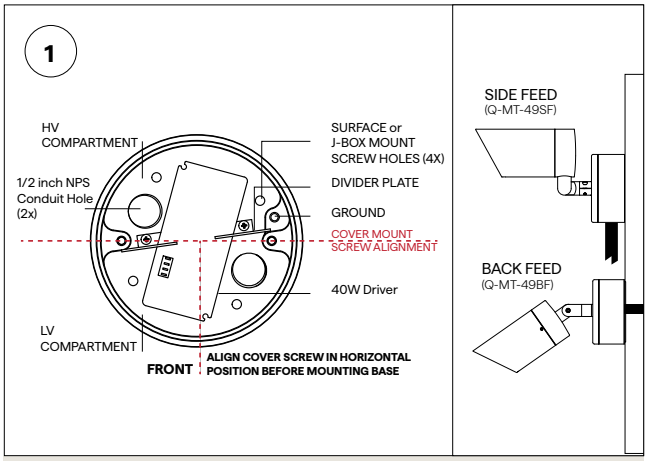
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SURFACE & RECESSED J-BOX

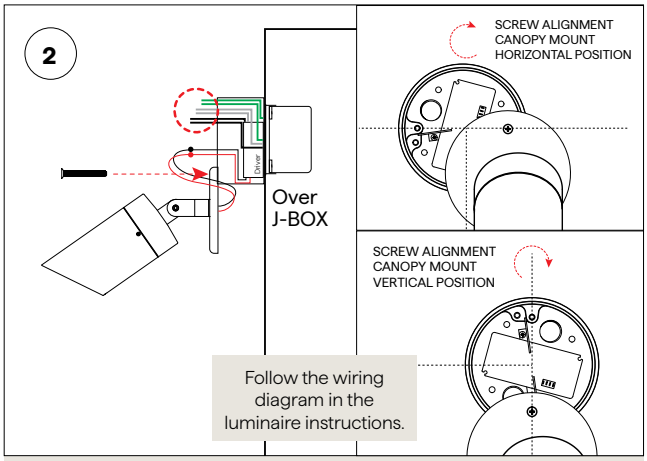
Landscape Lighting Installation Instructions

MOUNTING METHOD: **RECESSED J-BOX - 120V DRIVER**

Q-MT-49BF, Q-MT-49SF

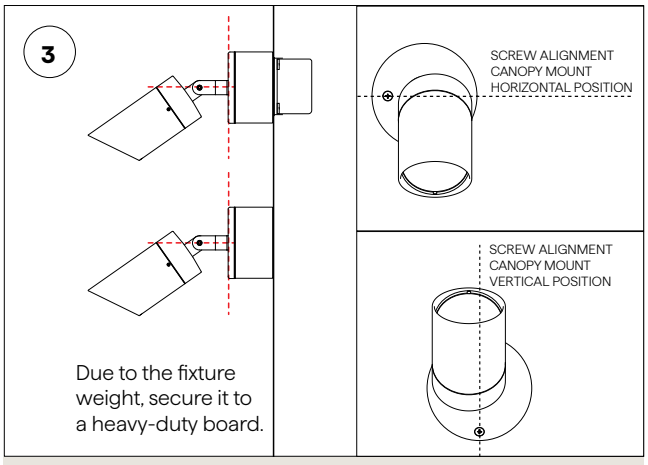


- Prepare the J-BOX by removing knockouts for wire entry.
- Install the recessed J-BOX behind the surface following the manufacturer's instructions.
- Bring the power supply wires through the J-BOX connectors.

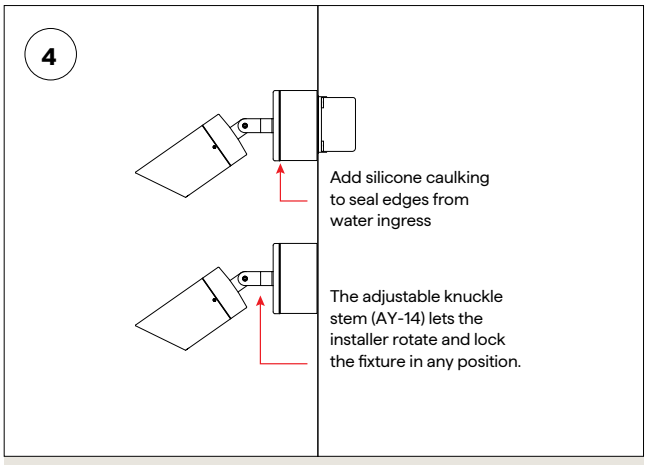


- Remove one canopy screw and rotate the canopy to access the wire compartment.
- Mount the VOYA 3.5" base (Q-MT-49) to the recessed J-BOX using the manufacturer's suggested hardware.
- Cut the wires to length as needed and splice the fixture and power supply / dimming wires together. (Reference the VOYA 3.5" COB luminaire instructions for the specific wiring diagram.)

NOTE: *The canopy must completely cover the J-BOX and the excess hole cutout. Mounting screws are not provided. Secure the Q-MT-49 base using #10 mounting screws (by others).*



- Tuck the excess wires into the Q-MT-49 base, rotate the canopy back into position, and secure it with the provided screw.



- Add additional silicone caulking for extra protection against water ingress.
- Installation complete.

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SURFACE/WALL

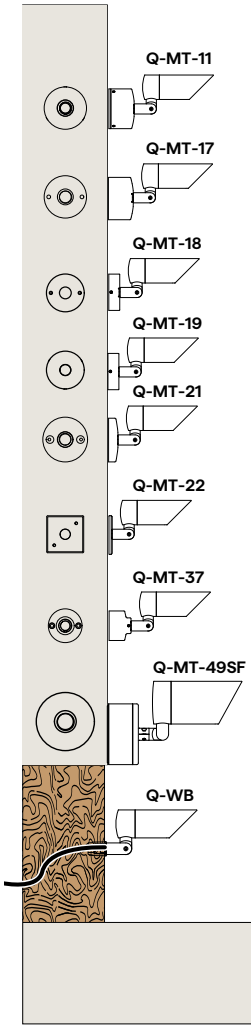
Landscape Lighting Installation Instructions

⚠ ATTENTION: Please read all instructions BEFORE installation

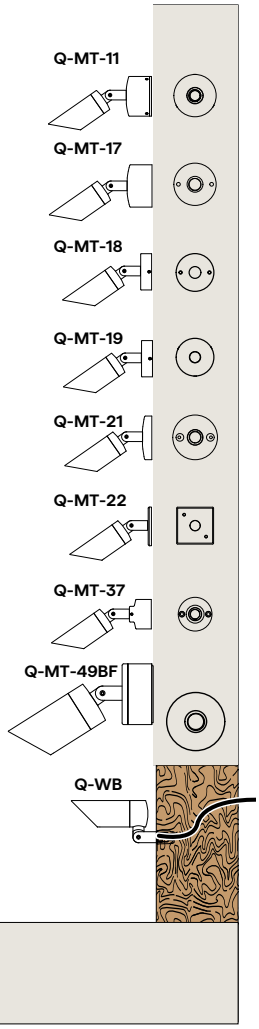
- Product must be installed by a licensed electrician. Field modifications void the warranty.
- Warranty is valid only with QTL power supplies.
- Diagrams are for representation only and are not to scale.
- Apply silicone around the edge of the canopy for additional water protection.
- Ensure the mounting surface is plumb and can support the fixture weight.
- Use the appropriate wire gauge for the run length.
- Use a liquid-tight connector for 120V wire entry.
- RISK OF FIRE OR INJURY / SAVE THESE INSTRUCTIONS
- Install per NEC and local codes.

METHODS OF INSTALLATION

SIDE MOUNT



END MOUNT



- LUMINAIRE & MOUNT COMPATIBILITY (PAGE 2)
- COMPONENTS & HARDWARE (PAGE 3)
- SURFACE/WALL - NO DRIVER (PAGE 4-5)
- SURFACE/WALL - WITH DRIVER (PAGE 6)
- WOOD BEAM (PAGE 7)

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LUMINAIRE & MOUNT COMPATIBILITY

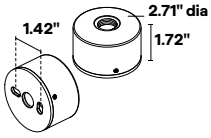
	Q-MT-11	Q-MT-17	Q-MT-18	Q-MT-19	Q-MT-21	Q-MT-22	Q-MT-37	Q-MT-49BF No Driver	Q-MT-49BF With Driver	Q-MT-49SF No Driver	Q-MT-49SF With Driver	Q-WB
VOYA-EM-1.75-MR11-12VAC	✓	✓	✓	✓	✓	✓	✓					✓
VOYA-EM/SM-2.5	✓	✓	✓	✓	✓	✓	✓					✓
VOYA-EM/SM-3.0-PAR20/GU10								✓		✓		
VOYA-EM/SM-3.5-COB-120VAC									✓		✓	
Excelsior DL-6	✓				✓							
Excelsior DL-7	✓				✓							
Excelsior DL-8	✓				✓							
Excelsior DL-10	✓				✓							
Excelsior DL-10L	✓				✓							
Excelsior DL-11	✓				✓							
Excelsior DL-11L	✓				✓							
Excelsior DL-12	✓				✓							
Excelsior DL-12L	✓				✓							
Excelsior DL-13	✓				✓							
Excelsior DL-13L	✓				✓							
Excelsior DL-14	✓				✓							
Excelsior DL-14L	✓				✓							

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SURFACE/WALL

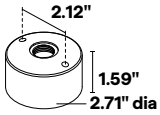
Landscape Lighting Installation Instructions

Q-MT-11

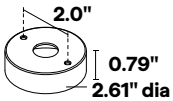


With Water Protection

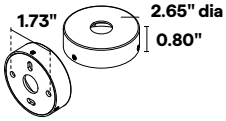
Q-MT-17



Q-MT-18

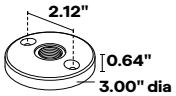


Q-MT-19

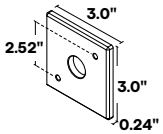


With Water Protection

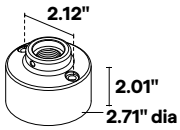
Q-MT-21



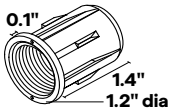
Q-MT-22



Q-MT-37

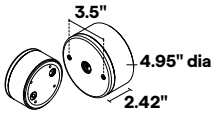


Q-WB



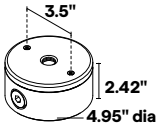
Wood Beam Mount

Q-MT-49BF



With Water Protection

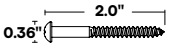
Q-MT-49SF



With Water Protection

COMPONENTS & HARDWARE

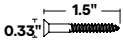
PROVIDED HARDWARE



#PN	QTY
Q-MT-17	2
Q-MT-18	2

#10-3/16x2"

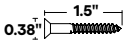
ROUND HEAD SCREW



#PN	QTY
Q-MT-21	2

#8-3/16x1.5"

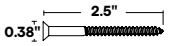
FLAT HEAD SCREW



#PN	QTY
Q-MT-22	2

#10-3/16x1.5"

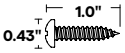
FLAT HEAD SCREW



#PN	QTY
Q-MT-37	2

#10-3/16x2.5"

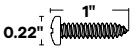
FLAT HEAD SCREW



#PN	QTY
Q-MT-11	2

#12-SS Round Head 1.0"

PHILLIPS ROUND HEAD SCREW



#PN	QTY
Q-MT-19	2

316 SS Round Head 1.0"

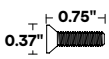
ROUND HEAD SCREW



#PN	QTY
Q-MT-11	3
Q-MT-19	3
Q-MT-37	1

10-32x3/16"

SET SCREW



#PN	QTY
Q-MT-49	2

10-32x3/4"

HEX FLAT HEAD SCREW



#PN	QTY
Q-MT-18	1
Q-MT-19	1
Q-MT-22	1

1/2-14 NPS HEX NUT

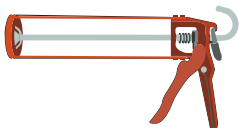
HEX NUT / JAM NUT

SUGGESTED TOOLS/MATERIALS



Waterproof Silicone

ALL PURPOSE SILICONE

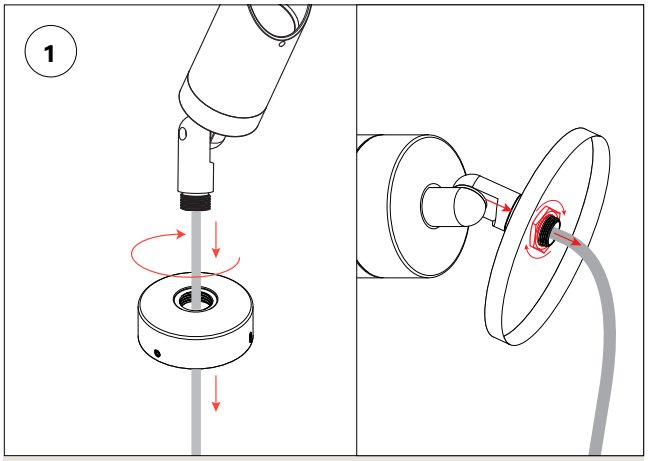


CAULKING GUN

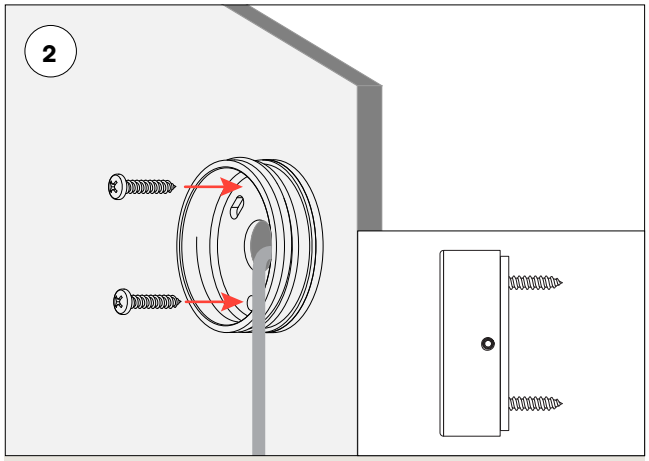
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MOUNTING METHOD: **SURFACE/WALL - NO DRIVER**

Q-MT-11, Q-MT-17, Q-MT-18, Q-MT-19, Q-MT-21, Q-MT-22, Q-MT-37

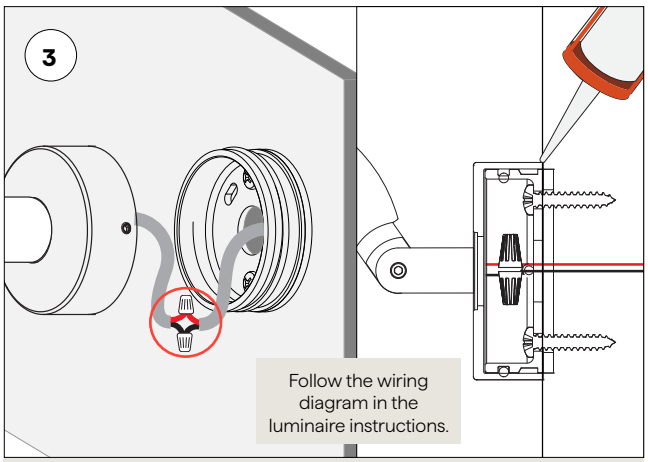


- Feed the fixture lead wire down through the canopy.
- Q-MT-11, Q-MT-17, Q-MT-21, Q-MT-37: Install the fixture onto the canopy and screw it on until seated.
- Q-MT-18, Q-MT-19, Q-MT-22: Install the fixture onto the canopy and secure it with the provided jam nut.



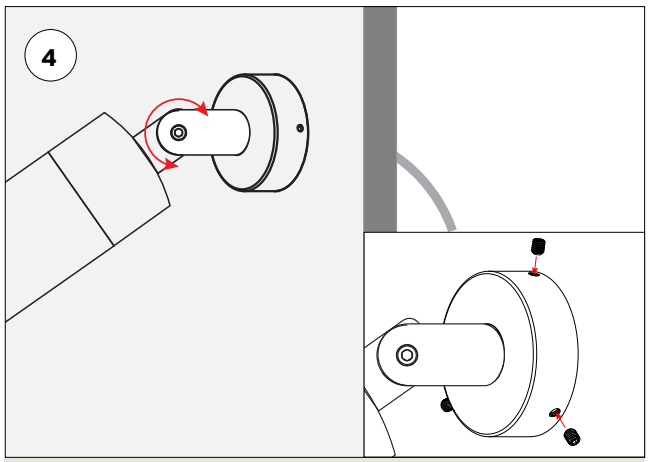
- Align the mounting screw holes in the vertical or horizontal position before mounting the base/canopy.
- Hold the base/canopy against the mounting surface and secure it with the two provided screws. Confirm the surface is level and can support the fixture weight.

NOTE: *Not all mounting methods include both a base and a canopy.*



- Cut the wires to length as needed and splice the fixture and line voltage / power supply wires together. (Reference the luminaire instructions for the specific wiring diagram.)

NOTE: *Silicone can be applied to the edge of the canopy before tightening the screws for additional water protection.*

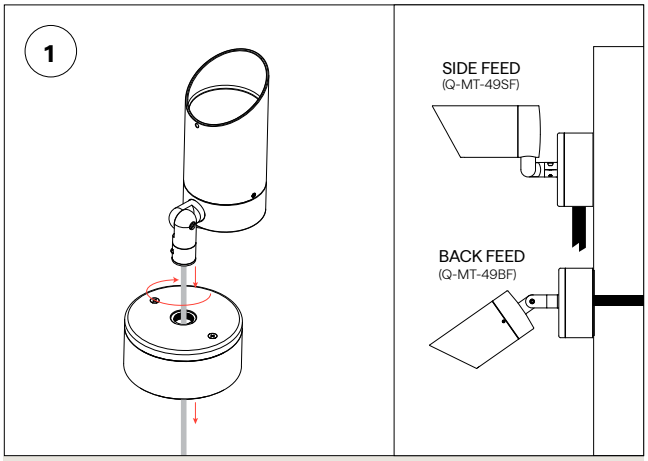


- Q-MT-37: The fixture can be rotationally adjusted slightly with the provided set screw on the canopy. Other canopies do not have this feature.
- Q-MT-11, Q-MT-19: Tighten the provided set screws to secure the fixture in place.
- Installation complete.

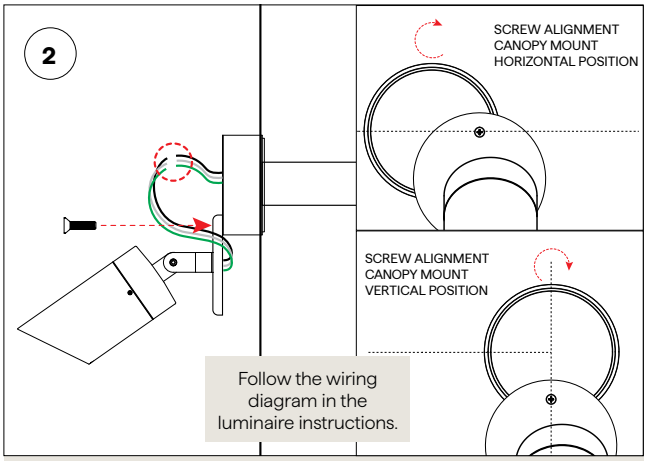
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MOUNTING METHOD: **SURFACE/WALL - NO DRIVER**

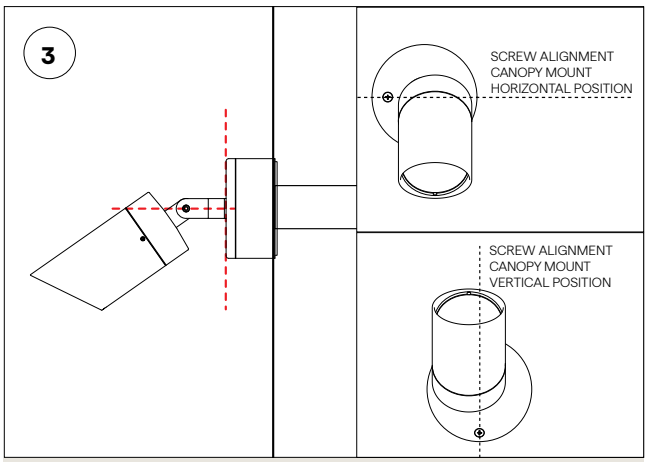
Q-MT-49BF, Q-MT-49SF



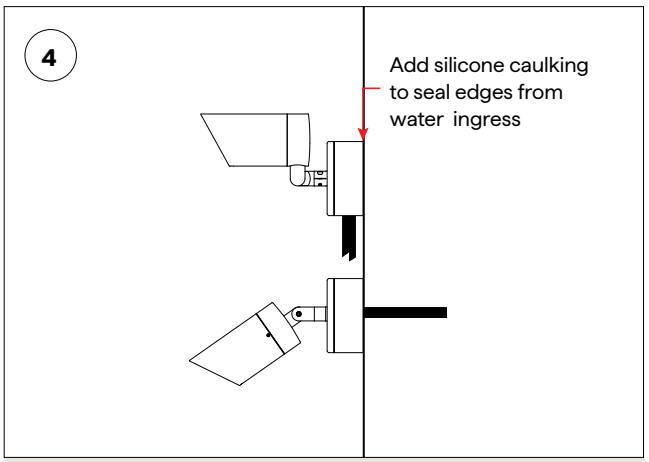
- Remove one canopy screw and rotate the canopy to access the wire compartment.
- Back feed (Q-MT-49BF): Feed the wire through the Q-MT-49 base knockout. Connect per NEC code.
- Side feed (Q-MT-49SF): Feed the wire through the Q-MT-49 base knockout. Connect per NEC code.
- Mount the Q-MT-49 base onto the surface using wood screws (by others). Confirm the surface is level and can support the fixture weight.



- Mount one side of the canopy with the provided screws.
- Cut the wires to length as needed and splice the fixture and line voltage wires together.



- Tuck the excess wires into the Q-MT-49 base, rotate the canopy back into position, and secure it with the provided screw.



- Add additional silicone caulking for extra protection against water ingress.
- Installation complete.

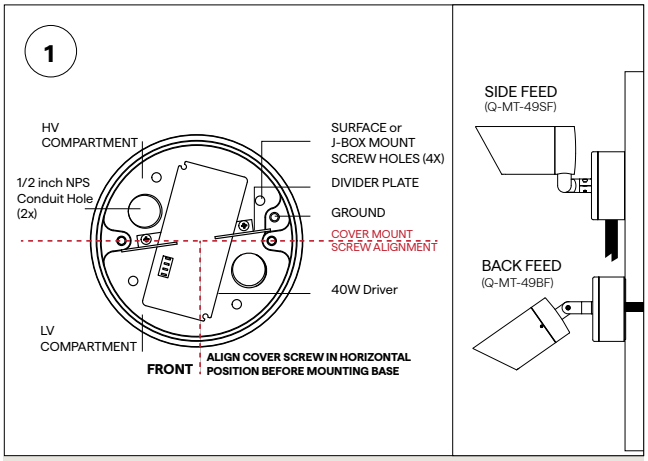
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SURFACE/WALL

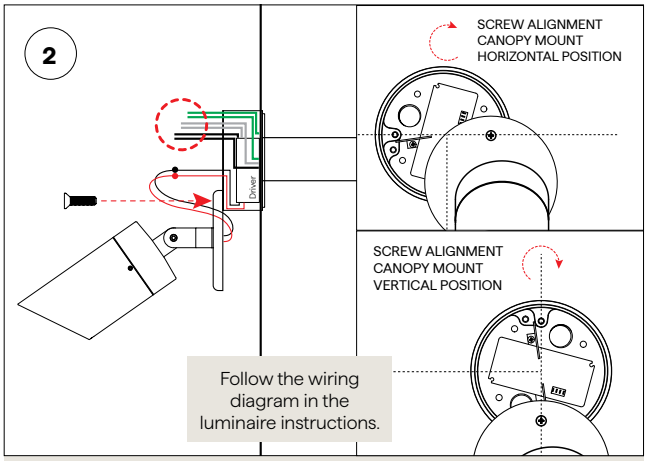
Landscape Lighting Installation Instructions

MOUNTING METHOD: **SURFACE/WALL - 120V DRIVER**

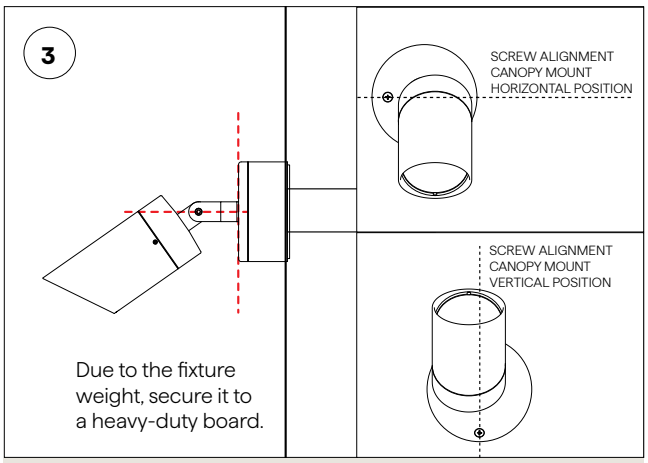
Q-MT-49BF, Q-MT-49SF



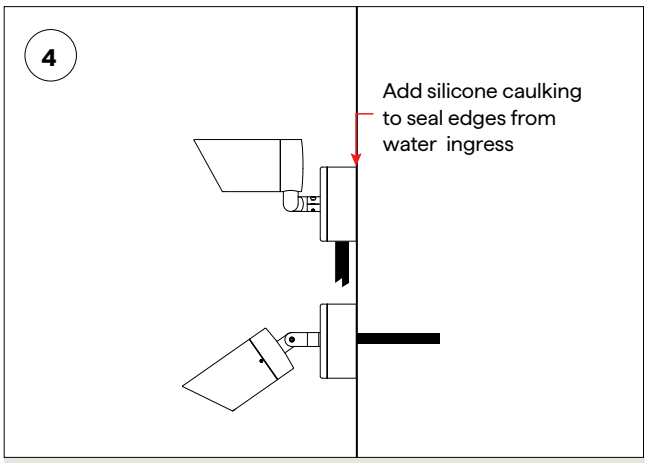
- Remove one canopy screw and rotate the canopy to access the wire compartment.
- Back feed (Q-MT-49BF): Feed the wire through the Q-MT-49 base knockout. Connect per NEC code.
- Side feed (Q-MT-49SF): Feed the wire through the Q-MT-49 base knockout. Connect per NEC code.
- Mount the Q-MT-49 base onto the surface using wood screws (by others). Confirm the surface is level and can support the fixture weight.



- Mount one side of the canopy with the provided screws.
- Cut the wires to length as needed and splice the fixture and power supply / dimming wires together. (Reference the VOYA 3.5" COB luminaire instructions for the specific wiring diagram.)



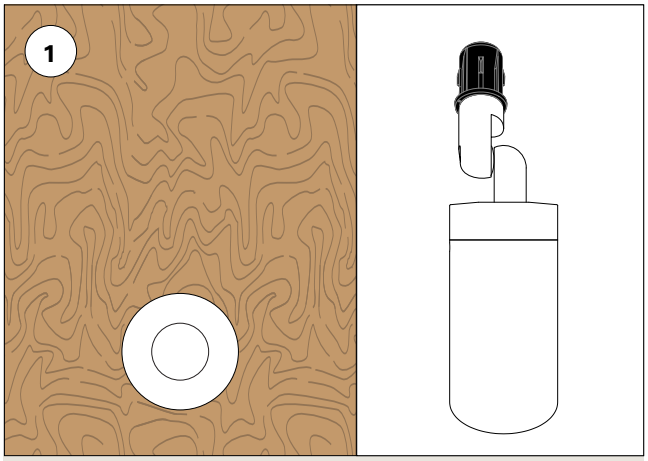
- Tuck the excess wires into the Q-MT-49 base, rotate the canopy back into position, and secure it with the provided screw.



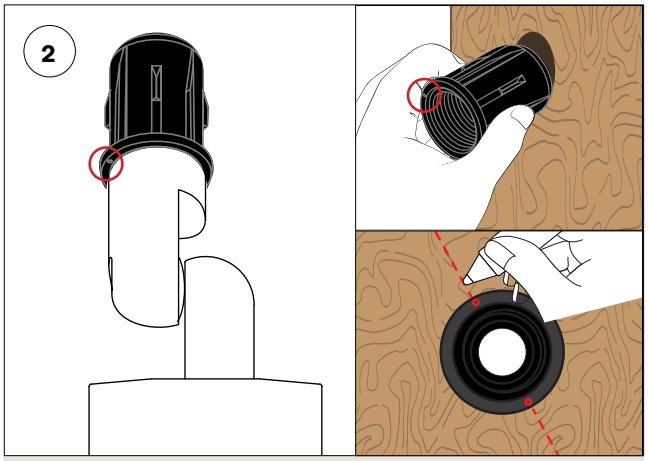
- Add additional silicone caulking for extra protection against water ingress.
- Installation complete.

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MOUNTING METHOD: **WOOD BEAM - NO DRIVER**
Q-WB

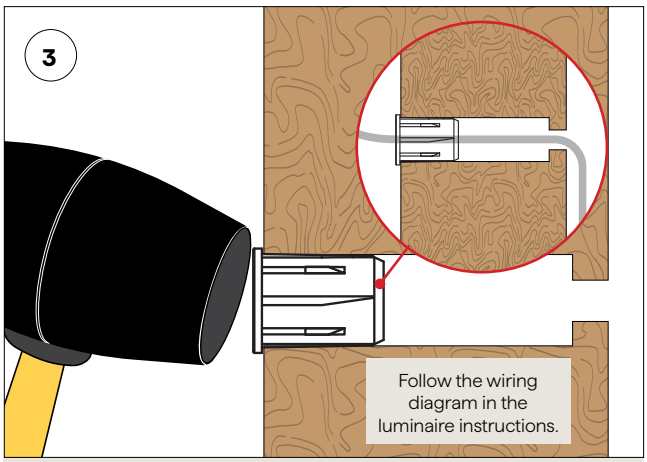


- Drill a 1" diameter hole, 3" deep. Then drill a wire access hole to route the fixture cable through the wood beam.
- Rotate the fixture into the Q-WB mount until fully seated.

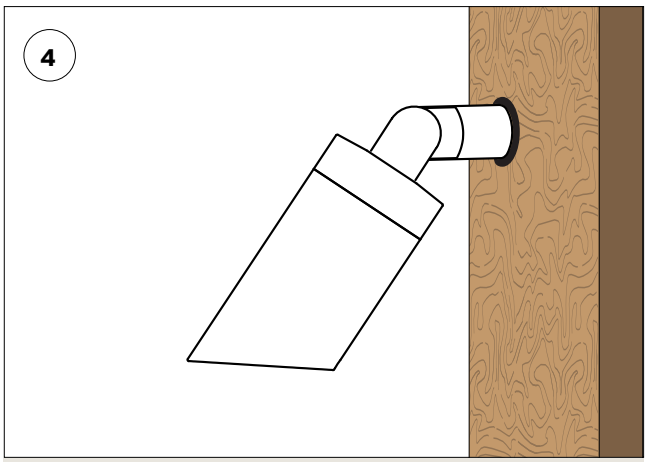


- Orient the fixture in the desired position, then use the indicator dots as reference markers to mark the final fixture position.
- Remove the fixture from the Q-WB mount then proceed to step 3.

NOTE: *The Q-WB mount can only be inserted once and cannot be adjusted afterward.*



- Ensure the indicator dots are aligned with the reference marks.
- Tap the Q-WB mount into the wood with a mallet until it is flush, as shown.
- Cut the wires to length as needed and splice the fixture and power supply wires together. (Reference the luminaire instructions for the specific wiring diagram.)



- Rotate the fixture into the Q-WB mount until fully seated.
- Installation complete.

NOTE: *The Q-WB mount can only be inserted once and cannot be adjusted afterward.*

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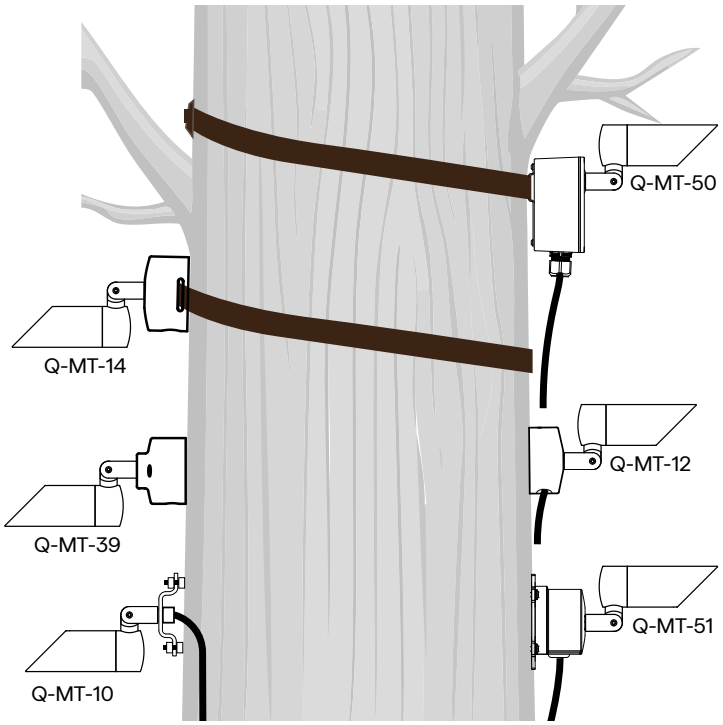
TREE MOUNT

Landscape Lighting Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

- Product must be installed by a licensed electrician. Field modifications void the warranty.
- Warranty is valid only with QTL power supplies.
- Diagrams are for representation only and are not to scale.
- Wrap the nylon ratchet strap around the tree. DO NOT OVERTIGHTEN — overtightening can damage the tree.
- Use the provided or recommended bolts to attach mounts to the tree.
- Use a liquid-tight connector for 120V wire entry.
- RISK OF FIRE OR INJURY / SAVE THESE INSTRUCTIONS
- Install per NEC and local codes.

METHODS OF INSTALLATION



- COMPONENTS & HARDWARE (PAGE 2)
- TREE MOUNT - NO DRIVER (PAGE 3-4)
- TREE MOUNT - 120V DRIVER (PAGE 5)

LUMINAIRE & MOUNT COMPATIBILITY

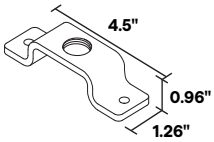
	Q-MT-10	Q-MT-12	Q-MT-14	Q-MT-39	Q-MT-50 No Driver	Q-MT-50 With Driver	Q-MT-51
VOYA-EM-1.75-MR11-12VAC	✓	✓	✓	✓	✓		✓
VOYA-EM/SM-2.5	✓	✓	✓	✓	✓		✓
VOYA-EM/SM-3.0-PAR20/GU10					✓		✓
VOYA-EM/SM-3.5-COB-120VAC						✓	

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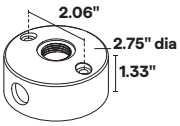
TREE MOUNT

Landscape Lighting Installation Instructions

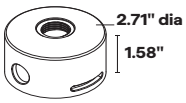
Q-MT-10



Q-MT-12

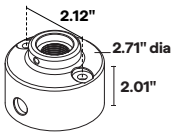


Q-MT-14

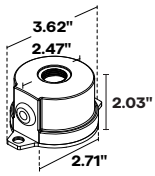


With Tree Strap

Q-MT-39

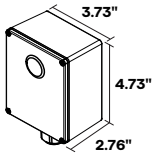


Q-MT-51



With Water Protection

Q-MT-50

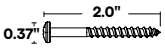


With Water Protection & Tree Strap

No Driver | With Driver

COMPONENTS & HARDWARE

PROVIDED HARDWARE



#PN	QTY
Q-MT-12	2

#10-3/16x2"

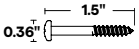
PHILLIPS ROUND HEAD SCREW



#PN	QTY
Q-MT-50	4
Q-MT-51	3

6-32x0.5"

FLAT HEAD SCREW



#PN	QTY
Q-MT-51	2

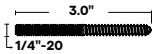
#10-3/16x1.5"

PHILLIPS ROUND HEAD SCREW



1/4-20 NUT

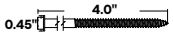
#PN	QTY
Q-MT-10	4



1/4-20x3"

#PN	QTY
Q-MT-10	2

HANGER BOLT



#PN	QTY
Q-MT-39	2

1/4"-20X3"

HEX BOLT SCREW



#PN	QTY
Q-MT-10	1
Q-MT-50	1

1/2-14 NPS HEX NUT

HEX NUT / JAM NUT

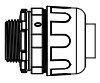


#PN	QTY
Q-MT-14	1
Q-MT-50	1

Nylon Strap Ratchet

TREE MOUNT STRAP

RECOMMENDED HARDWARE



#PN	QTY
Q-MT-50	1

1/2" Liquid-Tight Connector
(By Others)

CONDUIT CONNECTOR

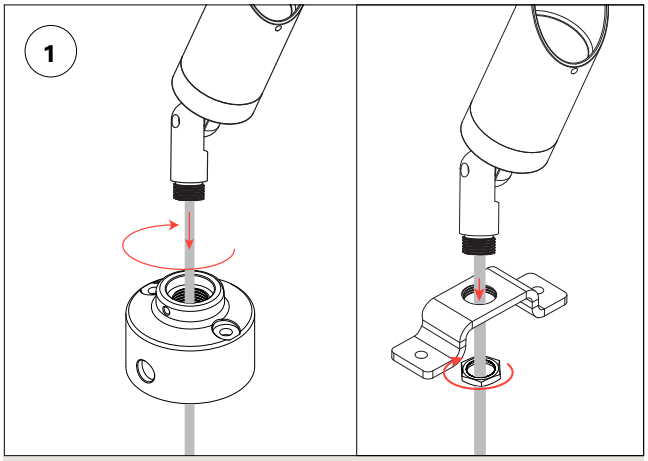
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TREE MOUNT

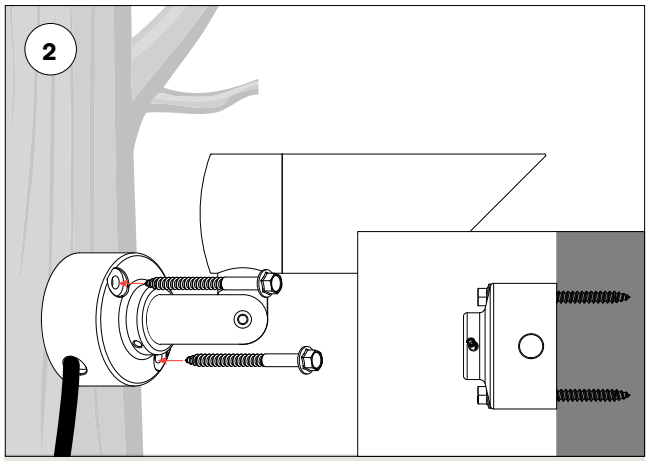
Landscape Lighting Installation Instructions

MOUNTING METHOD: **TREE MOUNT - NO DRIVER**

Q-MT-10, Q-MT-12, Q-MT-14, Q-MT-39, Q-MT-51

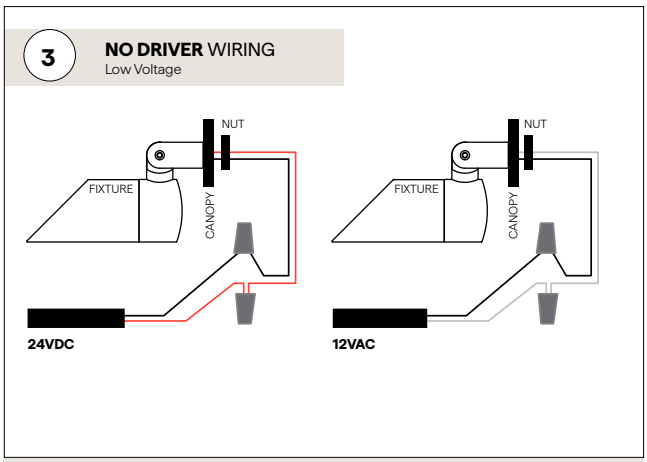


- Feed the fixture lead wire down through the canopy.
- Q-MT-12, Q-MT-14, Q-MT-39, Q-MT-51: Install the fixture onto the canopy and screw it on until seated.
- Q-MT-10: Install the fixture onto the canopy and secure it with the provided jam nut.

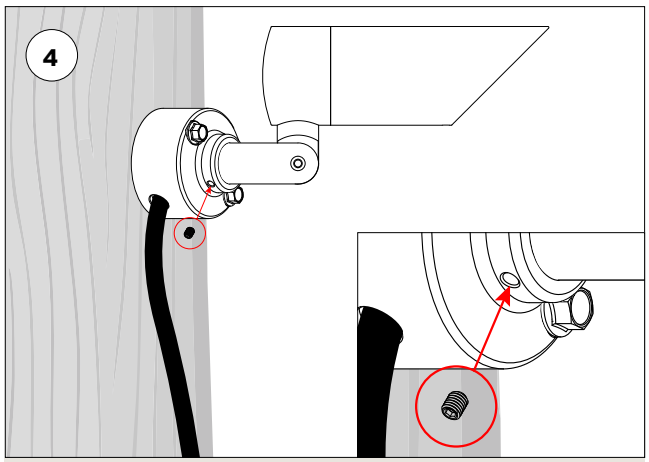


- Align the mounting screw holes in the vertical or horizontal position before mounting the base/canopy.
- Hold the base/canopy against the mounting surface and secure it with the two provided screws.

NOTE: *Not all mounting methods include both a base and a canopy.*



- If the mount has a wire hole, run the power supply wire through the hole before splicing. (Reference the luminaire instructions for wiring details).
- Cut the fixture wire to length as needed and splice the fixture and power supply wires together with liquid-tight wire nuts (by others).



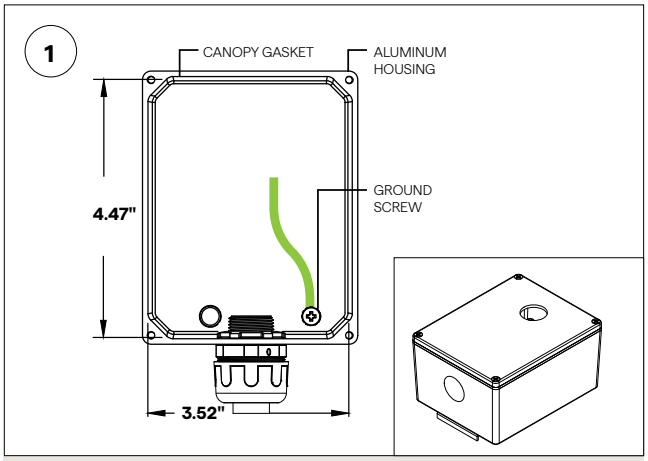
- Q-MT-39: After installation, the fixture can be rotationally adjusted slightly with the provided set screw on the canopy. Other canopies do not have this feature.
- Installation complete.

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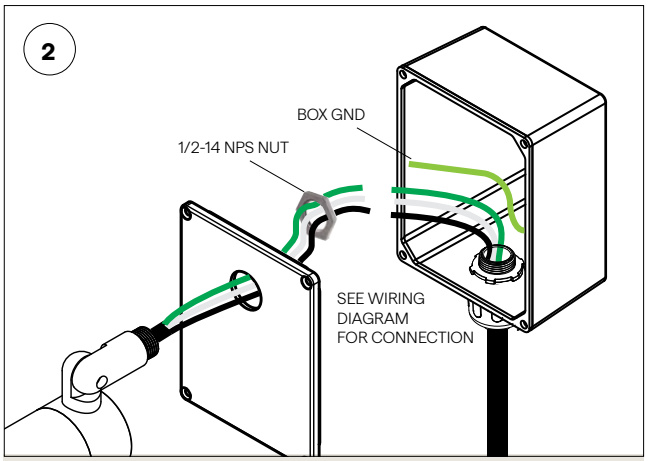
TREE MOUNT

Landscape Lighting Installation Instructions

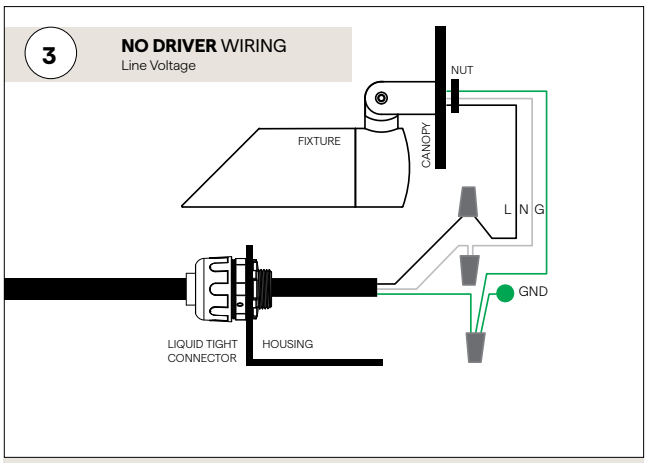
MOUNTING METHOD: **TREE MOUNT - NO DRIVER**
Q-MT-50



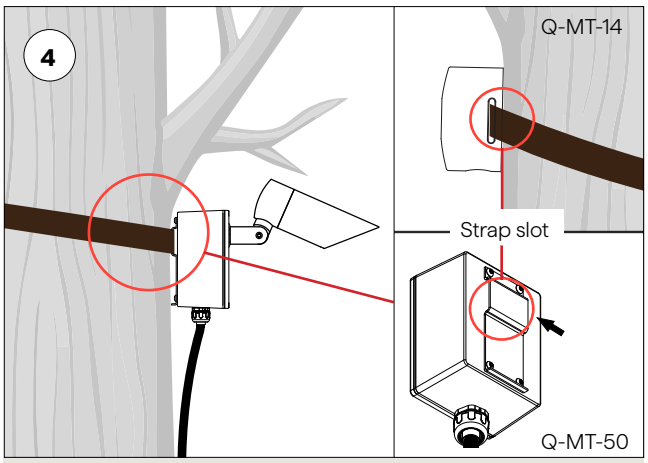
- Remove the four (4) canopy screws and lift off the canopy gasket. Route the power supply cable into the housing through recommended liquid-tight connector.



- Mount the fixture onto the canopy with the 1/2-14 jam nut.
- Splice the wires together with wire nuts (by others). See the luminaire instructions for wiring details.
- Reinstall the canopy.



- Cut the fixture wire to length as needed and splice the fixture and power supply wires together with liquid-tight wire nuts (by others).



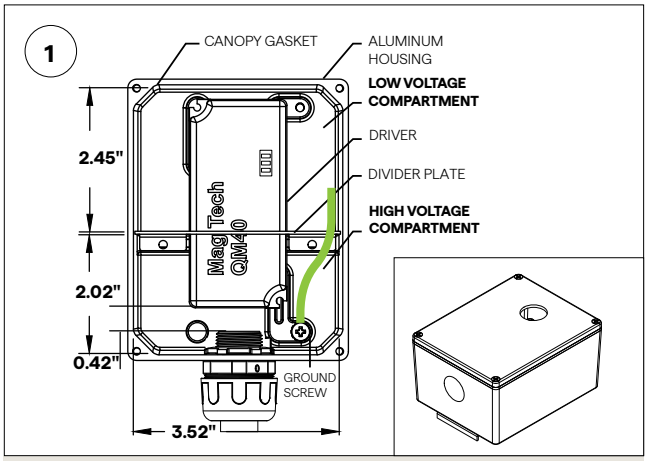
- Weave the tree strap through the slot on the back of the housing, wrap it around the tree, and tighten it with the ratchet until secure. **DO NOT OVERTIGHTEN** — overtightening can damage the tree.
- Installation complete.

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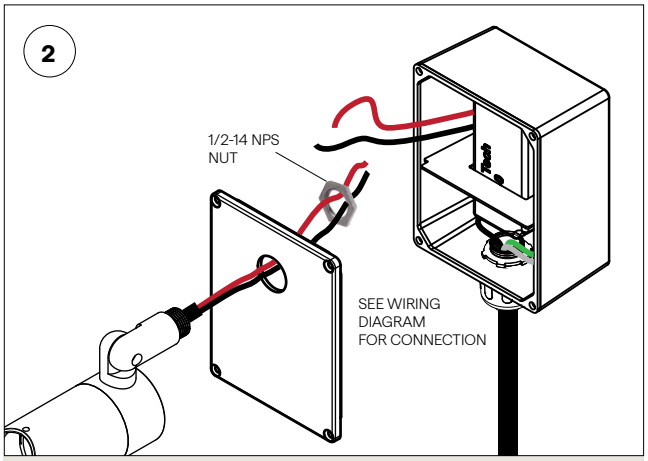
TREE MOUNT

Landscape Lighting Installation Instructions

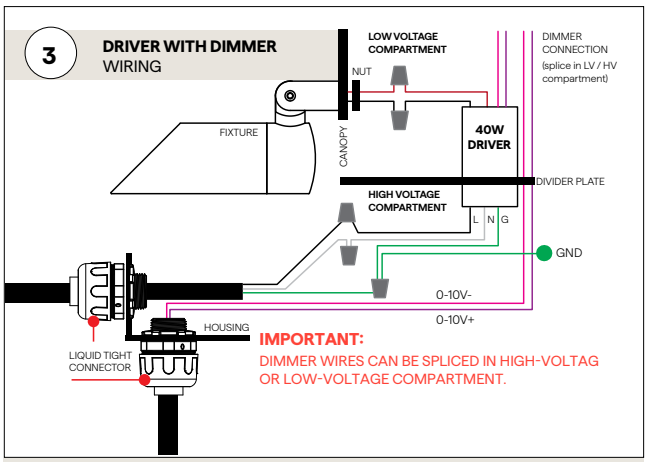
MOUNTING METHOD: **TREE MOUNT - 120V DRIVER**
Q-MT-50



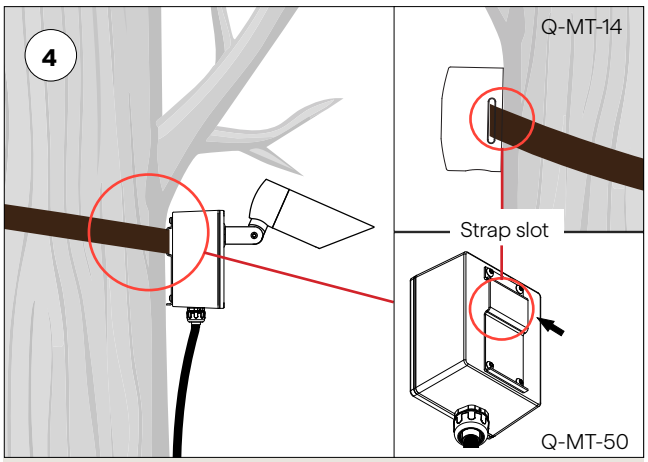
- Remove the four (4) canopy screws and lift off the canopy and gasket. The divider plate separates the HIGH-VOLTAGE (HV) and LOW-VOLTAGE (LV) compartments; the lower part of the 40W driver has the line-voltage wires. Bring the 120V cable into the HV compartment through the liquid-tight connector and splice the wires.
- See the luminaire wiring diagram for additional details.



- Install the fixture on the canopy with the jam nut, rotating the fixture to the desired angle and tightening the nut.
- Use liquid-tight wire nuts to splice the fixture wires and driver wires together, following the wiring diagram in the luminaire instructions.
- Place the canopy over the box and tighten the screws.



- Cut the fixture wire to length as needed and splice the fixture and power supply wires together with liquid-tight wire nuts (by others).



- Weave the tree strap through the slot on the back of the housing, wrap it around the tree, and tighten it with the ratchet until secure. **DO NOT OVERTIGHTEN** — overtightening can damage the tree.
- Installation complete.

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VOYA 3.5 COB STATIC WHITE 120VAC

Landscape Lighting Color Data

VOYA-3.5-COB-120VAC-SW-RA-95-30-FL-COB-19-**-**-29

2955 K

CRI: 98.0

CRI R9: 90.9

TM30 Rf: 97.2

TM30 Rg: 99.1

CQS: 96.0

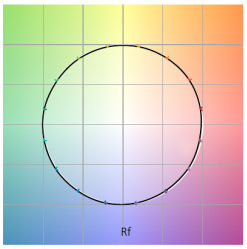
X: 0.441

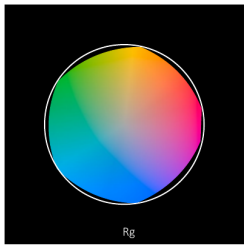
Y: 0.407

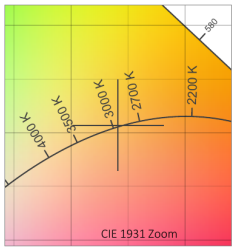
U: 0.252

V: 0.349

Δuv: 0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	98.9	99.1	98.4	98.6	96.8	97.6	96.1	90.9	98.7	96.8	93.9	98.7	98.6	98.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.8	95.7	95.4	96.1	97.5	97.4	95.9	95.3	95.9	95.5	96.4	96.6	97.4	96.0	95.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.7	98.8	97.4	98.0	98.4	97.2	97.8	97.9	98.2	97.8	97.3	93.3	93.6	95.3	96.9	96.4

TM30			
Hue Bin	R_f	Chroma	Hue
1	98	-1%	0%
2	99	0%	0%
3	97	0%	-1%
4	98	-1%	-1%
5	98	-1%	0%
6	97	-1%	1%
7	98	-1%	1%
8	98	1%	1%
9	98	1%	1%
10	98	1%	0%
11	97	1%	-2%
12	93	1%	-4%
13	94	0%	-5%
14	95	-1%	-4%
15	97	-1%	-1%
16	96	-2%	-2%

VOYA-3.5-COB-120VAC-SW-RA-95-30-FL-COB-25-**-**-29

2970 K

CRI: 98.0

CRI R9: 91.3

TM30 Rf: 97.3

TM30 Rg: 99.2

CQS: 96.1

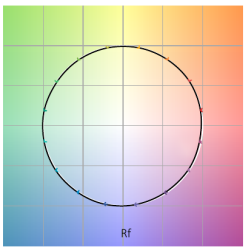
X: 0.440

Y: 0.406

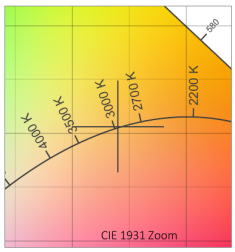
U: 0.252

V: 0.348

Δuv: 0.0004







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.8	98.8	99.1	98.3	98.4	96.7	97.7	96.3	91.3	98.6	96.7	93.7	98.6	98.6	98.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.9	95.8	95.4	96.1	97.4	97.6	96.0	95.6	96.1	95.8	96.6	96.7	97.4	96.1	95.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.8	98.8	97.5	98.2	98.5	97.3	98.0	98.0	98.3	97.7	97.2	93.4	93.7	95.4	97.0	96.5

TM30			
Hue Bin	R_f	Chroma	Hue
1	98	-1%	0%
2	99	0%	0%
3	97	0%	-1%
4	98	-1%	-1%
5	98	-1%	0%
6	97	-1%	1%
7	98	-1%	1%
8	98	1%	1%
9	98	1%	1%
10	98	1%	-1%
11	97	1%	-2%
12	93	1%	-4%
13	94	0%	-5%
14	95	-1%	-3%
15	97	-1%	-1%
16	96	-2%	-2%

VOYA-3.5-COB-120VAC-SW-RA-95-30-FL-COB-37-**-**-29

2979 K

CRI: 98.0

CRI R9: 91.2

TM30 Rf: 97.3

TM30 Rg: 99.2

CQS: 96.1

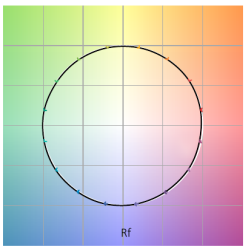
X: 0.439

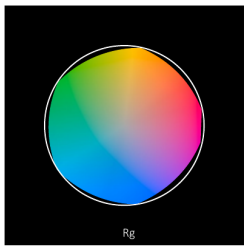
Y: 0.406

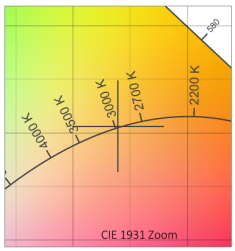
U: 0.251

V: 0.348

Δuv: 0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	98.8	99.1	98.4	98.5	96.8	97.7	96.2	91.2	98.6	96.8	93.8	98.7	98.6	98.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.9	95.9	95.5	96.1	97.4	97.5	96.0	95.6	96.1	95.8	96.6	96.7	97.4	96.1	95.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.7	98.8	97.5	98.2	98.5	97.3	97.9	98.0	98.3	97.8	97.3	93.4	93.7	95.4	97.0	96.5

TM30			
Hue Bin	R_f	Chroma	Hue
1	98	-1%	0%
2	99	0%	0%
3	97	0%	-1%
4	98	-1%	-1%
5	98	-1%	0%
6	97	-1%	1%
7	98	-1%	1%
8	98	1%	1%
9	98	1%	1%
10	98	1%	0%
11	97	1%	-2%
12	93	1%	-4%
13	94	0%	-5%
14	95	-1%	-3%
15	97	-1%	-1%
16	96	-2%	-2%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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VOYA 3.5 COB STATIC WHITE 120VAC

Landscape Lighting Color Data

VOYA-3.5-COB-120VAC-SW-RA-95-30-FL-COB-51-**-**-29

2987 K

CRI: 98.1

CRI R9: 91.3

TM30 Rf: 97.3

TM30 Rg: 99.1

CQS: 96.1

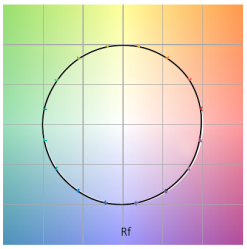
X: 0.439

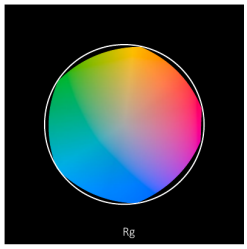
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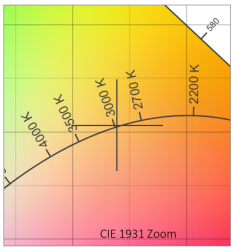
U: 0.251

V: 0.348

Δuv: 0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.9	98.9	99.0	98.3	98.5	96.9	97.7	96.3	91.3	98.7	96.8	94.0	98.7	98.6	98.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.9	95.9	95.5	96.2	97.5	97.5	96.0	95.5	96.0	95.7	96.5	96.6	97.4	96.1	95.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.8	98.8	97.4	98.1	98.4	97.3	97.9	98.0	98.3	97.8	97.3	93.5	93.7	95.4	97.0	96.5

TM30			
Hue Bin	R_f	Chroma	Hue
1	98	-1%	0%
2	99	0%	0%
3	97	0%	-1%
4	98	-1%	-1%
5	98	-1%	0%
6	97	-1%	1%
7	98	-1%	1%
8	98	1%	1%
9	98	1%	1%
10	98	1%	0%
11	97	1%	-2%
12	93	1%	-4%
13	94	0%	-5%
14	95	-1%	-3%
15	97	-1%	-1%
16	96	-2%	-2%

VOYA-3.5-COB-120VAC-SW-RA-95-22-FL-COB-51-**-**-29

2210 K

CRI: 97.2

CRI R9: 81.7

TM30 Rf: 94.9

TM30 Rg: 100.5

CQS: 88.9

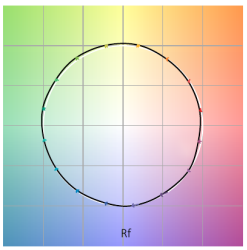
X: 0.505

Y: 0.416

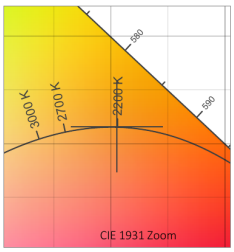
U: 0.290

V: 0.357

Δuv: 0.0001







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.8	99.7	97.5	98.1	99.1	96.4	95.6	91.6	81.7	98.7	94.6	92.9	99.5	97.0	95.9
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
85.1	89.5	89.1	88.6	88.4	88.4	91.0	92.2	92.2	91.9	90.9	91.2	91.9	87.8	86.8
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
95.3	96.3	96.8	95.7	95.9	94.9	95.3	95.7	95.2	95.4	94.5	94.4	92.0	86.3	95.8	93.6

TM30			
Hue Bin	R_f	Chroma	Hue
1	95	-2%	0%
2	96	-1%	1%
3	97	0%	1%
4	96	3%	2%
5	96	3%	2%
6	95	3%	2%
7	95	2%	-2%
8	96	3%	-2%
9	95	1%	-3%
10	95	-1%	-3%
11	94	-1%	-4%
12	94	-1%	-3%
13	92	0%	-8%
14	86	-2%	-9%
15	96	0%	-2%
16	94	-4%	-1%

VOYA-3.5-COB-120VAC-SW-RA-95-24-FL-COB-51-**-**-29

2402 K

CRI: 97.3

CRI R9: 87.3

TM30 Rf: 96.2

TM30 Rg: 99.8

CQS: 92.6

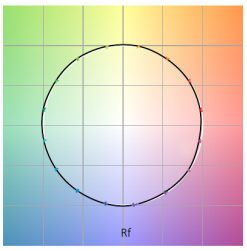
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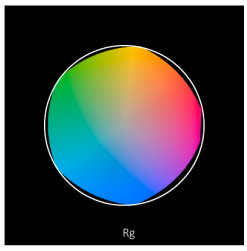
Y: 0.416

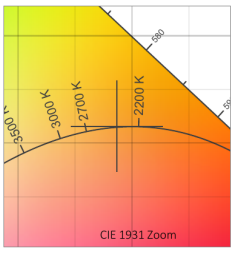
U: 0.278

V: 0.356

Δuv: 0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
98.7	99.0	97.9	97.2	98.0	95.9	96.9	94.5	87.3	99.5	94.0	92.0	98.4	97.5	97.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
90.3	92.7	91.8	91.7	92.1	92.9	94.5	93.7	94.0	93.7	93.2	93.4	94.2	92.2	91.5
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
96.9	97.4	97.4	97.6	97.3	96.4	97.6	96.9	96.9	96.5	94.9	93.6	91.6	93.2	96.6	95.1

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	97	-1%	0%
3	97	0%	0%
4	98	1%	0%
5	97	1%	1%
6	96	2%	2%
7	98	1%	0%
8	97	2%	0%
9	97	1%	-2%
10	97	0%	-2%
11	95	0%	-4%
12	94	0%	-4%
13	92	0%	-8%
14	93	-1%	-4%
15	97	-1%	-2%
16	95	-3%	-1%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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Specification subject to change. Rev-07-23-26

VOYA 3.5 COB STATIC WHITE 120VAC

Landscape Lighting Color Data

VOYA-3.5-COB-120VAC-SW-RA-95-27-FL-COB-51-**-**-29

2694 K

CRI: 97.2

CRI R9: 95.0

TM30 Rf: 96.7

TM30 Rg: 99.6

CQS: 94.9

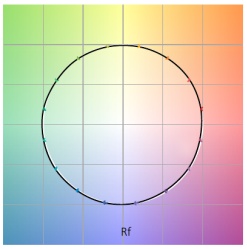
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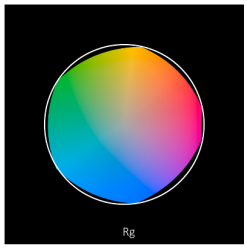
Y: 0.412

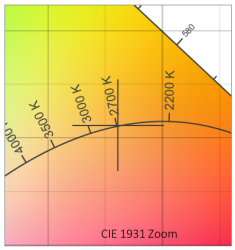
U: 0.263

V: 0.352

Δuv: 0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
97.1	98.0	98.6	96.2	96.5	95.0	98.1	98.0	95.0	96.8	93.5	91.2	97.0	98.1	99.4
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
94.8	95.0	93.9	93.8	95.2	97.2	94.8	94.3	94.9	94.4	94.8	94.7	95.6	96.1	95.6
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.9	98.1	96.5	97.6	98.1	96.4	97.7	97.0	97.5	96.6	95.9	91.9	93.1	95.2	97.0	96.9

TM30			
Hue Bin	R_f	Chroma	Hue
1	98	-1%	0%
2	98	0%	0%
3	97	0%	-1%
4	98	-1%	-2%
5	98	-1%	0%
6	96	0%	2%
7	98	0%	1%
8	97	2%	1%
9	97	1%	0%
10	97	2%	-1%
11	96	1%	-3%
12	92	1%	-5%
13	93	0%	-6%
14	95	-2%	-3%
15	97	-1%	-1%
16	97	-2%	-1%

VOYA-3.5-COB-120VAC-SW-RA-95-35-FL-COB-51-**-**-29

3480 K

CRI: 98.5

CRI R9: 94.0

TM30 Rf: 97.1

TM30 Rg: 99.1

CQS: 98.2

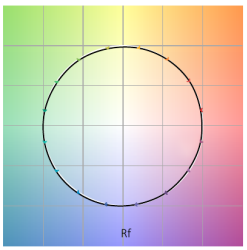
X: 0.407

Y: 0.393

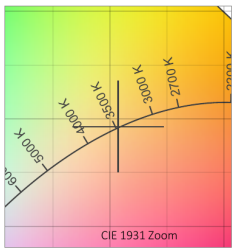
U: 0.236

V: 0.342

Δuv: 0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.0	98.9	99.2	98.7	98.9	97.7	98.1	97.4	94.0	98.9	98.3	96.7	98.8	98.8	99.5
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
97.0	97.7	98.5	99.4	99.4	98.2	98.0	97.8	98.2	97.9	98.8	98.6	99.2	98.4	97.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.7	98.8	97.5	97.2	97.5	97.3	96.9	97.6	97.3	97.3	97.5	94.8	94.6	96.0	96.2	96.8

TM30			
Hue Bin	R_f	Chroma	Hue
1	98	-1%	0%
2	99	0%	0%
3	98	0%	-1%
4	97	-1%	-1%
5	98	-2%	0%
6	97	-1%	1%
7	97	-1%	2%
8	98	0%	2%
9	97	1%	2%
10	97	1%	1%
11	97	1%	-1%
12	95	1%	-3%
13	95	0%	-4%
14	96	0%	-3%
15	96	-1%	-2%
16	97	-1%	-1%

VOYA-3.5-COB-120VAC-SW-RA-95-40-FL-COB-51-**-**-29

3983 K

CRI: 98.6

CRI R9: 93.7

TM30 Rf: 96.6

TM30 Rg: 98.6

CQS: 97.8

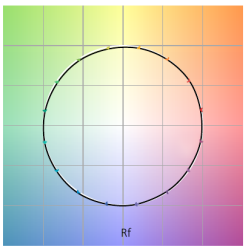
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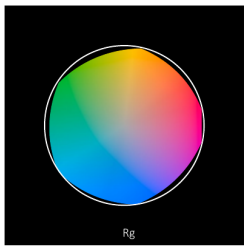
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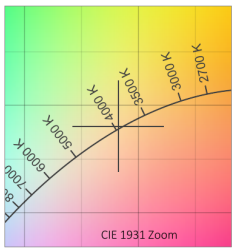
U: 0.225

V: 0.336

Δuv: 0.0013







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
99.7	99.2	99.4	97.9	99.2	98.7	97.8	97.2	93.7	99.2	98.6	98.0	99.2	99.2	98.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
96.6	97.3	98.6	99.6	98.3	97.1	97.1	97.0	97.6	97.2	98.8	98.6	99.1	98.5	97.7
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
97.4	98.8	97.2	96.7	96.4	96.7	96.4	96.3	96.0	96.5	97.1	95.8	94.2	98.1	95.5	96.2

TM30			
Hue Bin	R_f	Chroma	Hue
1	97	-1%	0%
2	99	0%	0%
3	97	-1%	-1%
4	97	-1%	-2%
5	96	-2%	-1%
6	97	-2%	1%
7	96	-2%	1%
8	96	-1%	2%
9	96	0%	3%
10	96	1%	2%
11	97	2%	0%
12	96	1%	-2%
13	94	0%	-5%
14	98	-1%	-1%
15	95	-1%	-2%
16	96	-1%	-2%

NOTES:
- CRI R values, only R1-R8 are used to calculate RA CRI values
- TM30 C values, 16 binned values out of total of 99 C values
- CQS Q values
- Data subject to change, all data has +/- 5% tolerance

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