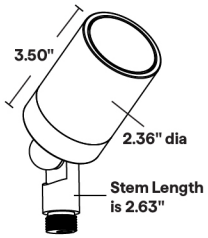
VOYA END MOUNT 2.5" COB AMBER

24VDC COB Flood/Accent LED





- 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
- Amber light meets Florida Wildlife Commission (FWC) standards for coastal lighting to prevent sea turtle hatchling disorientation
- Flexible tree, surface, wall and ground mounting options support diverse installations
- Field-adjustable output set on site via DIP switch
- Wet listed for exterior applications

1 PRODUCT	2 KNUCKLE	3 CRI	4 CCT	5 SNOOT	6 COB	7 BEAM ANGLE	8 MATERIAL	9 FINISH	10 WATTAGE	11 OUTPUT SETTING	12 WEEP HOLE	13 ACCESSORY 1	14 ACCESSORY 2	15 ACCESSORY 3
VOYA-EM-2.5-COB-24VDC-A	ST	N/A	A											

Sample Part Number: **VOYA-EM-2.5-COB-24VDC-A-ST-N/A-A-60D-COB-55-BR-P-03-N/A-WPH-SP-N/A-N/A**

1 PRODUCT

VOYA-EM-2.5-COB-24VDC-A	

2 KNUCKLE

ST	Standard

3 CRI

N/A	

4 CCT

A	Amber (>605nm peak)

5 SNOOT

FL	Flush
HR	0.5" Regress
1R	1" Regress
30D	30 Degree
45D	45 Degree
60D	60 Degree
GZR	Grazer

6 COB

COB	All Other
COB	All Other

7 BEAM ANGLE

20	20 Degree
26	26 Degree
40	40 Degree
55	55 Degree
GZR	Grazer

8 MATERIAL

A	6061 Aluminum Anodized and Powder Coated
B	Brass H59
SS	Stainless Steel 316L

9 FINISH

BG	Beige
BB	Black Bronze
BK	Black
BKT	Black Texture
BZ	Bronze
BZT	Bronze Texture
SL	Silver
WH	White
CU	Custom

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

P	Polished

Brass and Stainless Steel have longer lead times: consult factory

10 WATTAGE

06	6.4 Watts

Refer to delivered lumen output on following pages

6W option includes on board dip switch for field adjustable output with 8 settings

03	3.1 Watts

Refer to delivered lumen output on following pages

11 OUTPUT SETTING

600MA	100% Output
350MA	58% Output
225MA	38% Output
150MA	25% Output
100MA	17% Output
70MA	12% Output
40MA	7% Output
10MA	2% Output

Selection above is factory set. Current settings follow logarithmic reduction in output for linear perception, can be adjusted in the field

N/A	Not available for these wattages

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 with each accessory. Accessories not compatible with GZR options.

14 ACCESSORY 2

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

Retaining Ring included with each accessory. Accessories not compatible with GZR options.

15 ACCESSORY 3

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

Retaining Ring included with each accessory. Accessories not compatible with GZR options.

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

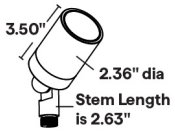
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Specification subject to change. Rev-11-02-26

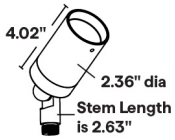
VOYA END MOUNT 2.5" COB AMBER

24VDC COB Flood/Accent LED

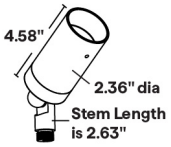
1 PRODUCT - DIMENSIONS



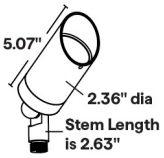
Flush Snoot (FL)



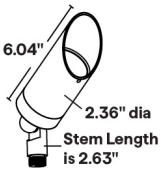
0.5" Regress Snoot (HR)



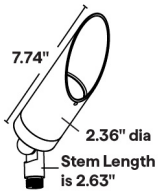
1" Regress Snoot (1R)



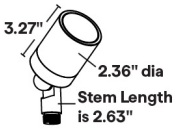
30 Degree Snoot (30D)



45 Degree Snoot (45D)



60 Degree Snoot (60D)



Grazer Snoot (GZR)
*Only to be used with GZR optics

6 DELIVERED LUMENS

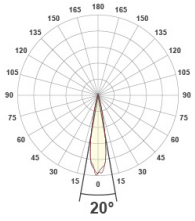
Tested with VOYA-2.5-COB-24VDC-A-ST-95-30-FL at 6W
Grazer COB and Beam Angle are tested with Grazer Snoot

COB - BEAM ANGLE	LUMENS	LM/W	PEAK INTENSITY (CD)	PEAK WAVELENGTH (nm)
COB - 20°	208	32	1302	613
COB - 26°	221	34	996	613
COB - 40°	218	34	473	613
COB - 55°	201	31	258	613
COB - GZR	203	31	634	613

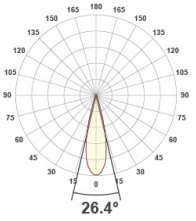
PHOTOMETRIC PERFORMANCE

Nominal beam spread shown, beam spread varies based on light engine. For more detailed information, see photometric data.

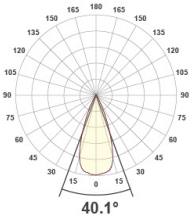
20°



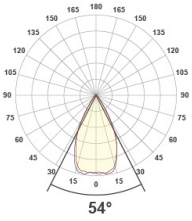
26°



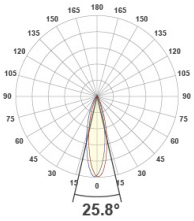
40°



55°



GZR



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VOYA END MOUNT 2.5" COB AMBER

24VDC COB Flood/Accent LED

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



BRASS AND STAINLESS STEEL POLISHED FINISHES

Brass and Stainless Steel have longer lead times: consult factory



11 DIP SWITCH SETTINGS

VOYA-2.5-24VDC-COB-A

Output								
Rated Current(A)	10	40	70	100	150	225	350	600
DIP Code	⊥⊥⊥	⊤⊥⊥	⊥⊤⊥	⊥⊥⊤	⊤⊤⊥	⊤⊥⊤	⊥⊤⊤	⊤⊤⊤
Rated Power(W)	1.1	1.4	1.7	1.9	2.4	3.1	4.3	6.4

⊤ On ⊥ Off.

13/14/15 ACCESSORIES

Holds up to three accessories. Retaining Ring included with each accessory. Accessories not compatible GZR option.

SP



Spread Lens

To order separately use ACC-2.5-SP

LS



Linear Spread Lens

To order separately use ACC-2.5-LS

WW



Wall Wash Lens

To order separately use ACC-2.5-WW

LV



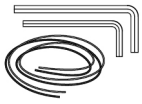
Honeycomb Louver

To order separately use ACC-2.5-LV



Retaining Ring

To order separately use ACC-2.5-RR



SNOOT INSTALL KIT

To order separately use VOYA-SNOOT-INSTALL-KIT

COMPATIBLE GLARE CONTROL ACCESSORIES

VOYA-2.5-45D-GLARE-SHIELD-YY-XX



Adjustable 45° Glare Shield. See Spec Sheet for material (YY) and finish (XX) options

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Specification subject to change. Rev-11-02-26

VOYA END MOUNT 2.5" COB AMBER

24VDC COB Flood/Accent LED

COMPATIBLE POWER SUPPLIES

Specify 0-10V or DALI for smoothest dimming performance. For phase dimming, ELV is recommended. See power supplies cut sheets for more information. Data subject to change, all data has +/- 5% tolerance.

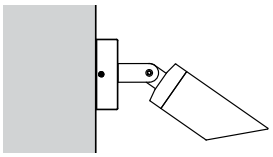
DIMMING PROTOCOL	INDOOR	OUTDOOR
	VOYA 24VDC	VOYA 24VDC
Non-Dim	QT-CAB-eLED-ND QTM-DC+CAP QTM-eLED-ND QZ-ND	Q-HEX-mini Q-SET-QZ-ND Q-SET-eLED-ND Q-SET-mLED QOM-DC+CAP QOM-eLED-ND QZ-ND
Phase	QT-CAB-QZ-PH/0-10V QZ-BOWTIE+DIMMER QZ-PRO-PH/0-10V QZ-STICK-PH/0-10V	Q-SET-QZ-PH/0-10V QZ-PRO-PH/0-10V
0-10V	QT-CAB-QZ-PH/0-10V QZ-PRO-PH/0-10V QZ-STICK-PH/0-10V	Q-SET-QZ-PH/0-10V QZ-PRO-PH/0-10V
Lutron Athena	QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6-AWN	
DMX	QT-CAB-eLED+DMX	QOM-eLED+DMX QOM-eLED+DMX-PS
DALI-2: DT6	QT-CAB-eLED+DALI-DT6 QT-CAB-eLED+DALI-DT6-AWN QTM-eLED+DALI-DT6 QTM-eLED+DALI-DT6-AWN	QOM-eLED+DALI-DT6 QOM-eLED+DALI-DT6-PS

VOYA EM/SM 2.5" MOUNT COMPATIBILITY

Landscape Lighting

SURFACE/WALL

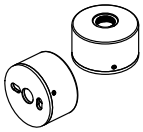
See Surface/Wall installation for dimensions and included hardware. Refer to the mount cut sheets for complete order codes regarding mount's options.





Q-WB

Wood Beam Mount



Q-MT-11*

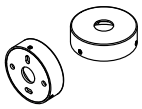
With Water Protection



Q-MT-17*



Q-MT-18

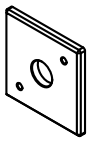


Q-MT-19

With Water Protection



Q-MT-21



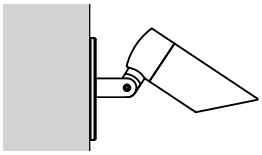
Q-MT-22

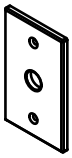


Q-MT-37*

SURFACE/WALL J-BOX PLATES

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



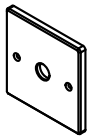


Q-MT-24

Compatible with 1 GANG RECTANGLE WEATHER PROOF J-BOX or 4/0 WEATHER PROOF J-BOX by others



Q-MT-25



Q-MT-26

Compatible with 1 GANG RECESS J-BOX or 4/0 RECESSED J-BOX by others



Q-MT-27

Compatible with 3/0 RECESSED J-BOX by others

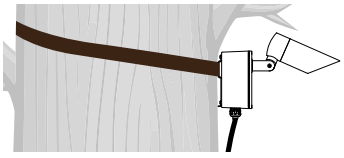


Q-MT-42*

Compatible with 1 GANG RECTANGLE WEATHER PROOF J-BOX or 4/0 WEATHER PROOF J-BOX by others

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-10



Q-MT-12*

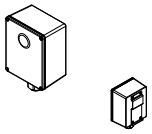


Q-MT-14*

With Tree Strap

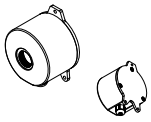


Q-MT-39*



Q-MT-50 (No Driver)

With Water Protection and Tree Strap

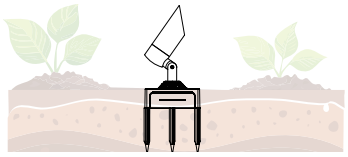


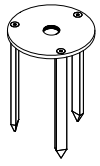
Q-MT-51*

With Water Protection

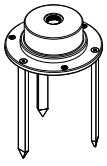
DIRECT BURIAL

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-6*

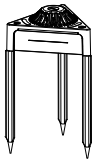


Q-MT-7*

With Water Protection

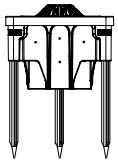


Q-MT-45*



Q-TRIX-R20* (No Driver)

With Water Protection

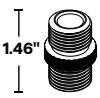


Q-TRIX-R50* (With Driver)

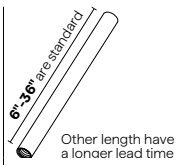
With Water Protection

MOUNT ACCESSORIES

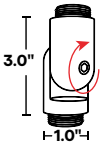
See Accessories installation for dimensions and included hardware.



NPS ADAPTER

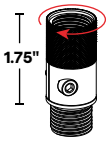


AY-3 Riser Pole



AY-7

No Water Protection



(RA) ROTATIONAL ADAPTER

With Water Protection

***Compatible with AY-3 Riser Pole**

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Specification subject to change. Rev-11-02-26

VOYA EM/SM 2.5" 24VDC COB AMBER

Power Supply Sizing & Wiring

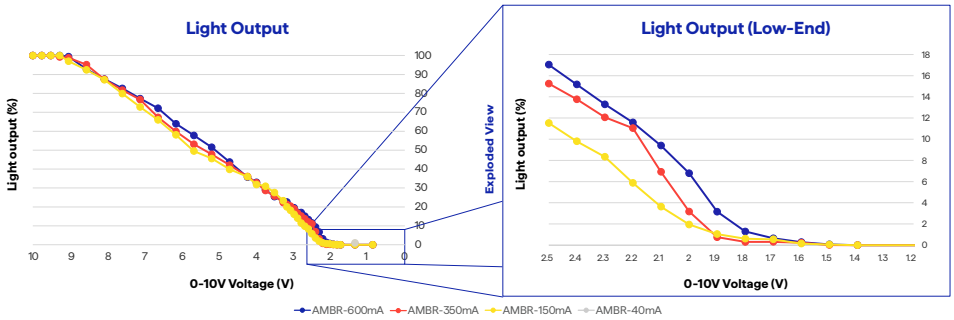
DISTRUBUTED & BRANCH CIRCUITS

VOYA 2.5" COB Amber can be wired as either a distributed load - multiple fixtures tapped along a run, in branches, or in loop/ring circuits – or as a single load at the end of a run. When wiring as a distributed load, refer to VOYA-2.5-24VDC Low Voltage Wiring Guide to size wires within recommended voltage drop limits when these wiring configurations are used. When wiring as a single load at the end of a run, refer to QTL Voltage Drop Calculator.

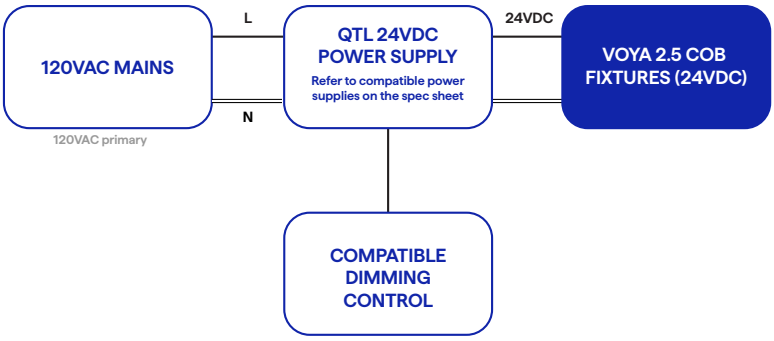
Input voltage at the fixture should be 22.8V–24V DC for both dimmed and non-dimmed applications.

DIMMING

VOYA 2.5" COB Amber dims by 24VDC PWM output from a compatible QTL power supply as listed in the Compatible Power Supply table on the spec sheet. The curves below show measured output as a 0-10V dimmer is reduced at the input of the remote compatible power supply at four factory driver current settings. VOYA 2.5 24VDC COB fixtures dim down to 0.1%. Specify 0-10V or DALI for smoothest dimming performance. For phase dimming, ELV is recommended



Compatible Dimming Control: Use a compatible QTL power supply. Dimming control feeds into the remote compatible power supply only. Only 2-wire 24V DC power feeds into fixture.



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VOYA EM/SM 2.5" 24VDC COB

Low Voltage Wiring Guide

Applies to all VOYA EM/SM 2.5" COB 24VDC fixtures (Static White, Amber, Warm Dim). This guide is a companion to the VOYA 2.5" 24VDC datasheets, which cover power supply compatibility. This document covers the wiring between the 24VDC Class 2 electronic power supply and the fixtures: selecting wire gauge so every fixture receives the correct voltage. For a single load at the end of a run, the QTL voltage drop calculator may be used instead.

1. DESIGN RULES

- **Fixture voltage window:** Every fixture must receive 22.8–24.0 VDC, for both dimmed and non-dimmed applications.
- **Wire sizing rule:** Size wire so the calculated voltage drop at the farthest fixture does not exceed 1.2 V (5% of 24 V). Table 1 is built on this rule.
- **Capacity rule**: Total connected load on each circuit must not exceed 96 W (100 VA, Class 2 limit of the QTL 24VDC electronic power supplies). No additional derating is required, dimmed or non-dimmed. Capacity and voltage drop are independent checks: a circuit must pass both.
- **Polarity rule:** These are 2-wire DC circuits. Maintain + and – polarity from the supply to every fixture; fixtures are polarity sensitive.
- **No taps:** The 24VDC electronic supplies output a fixed 24V. If a run does not fit the tables, use larger wire, move the supply closer, split the load across circuits, or wire the run as a loop.

2. SIZING PROCEDURE

Work through these five steps for each 24VDC circuit (each Class 2 supply output).

1. Plot the fixtures on the plan and mark each fixture wattage (per its DIP-set output). Total the watts on the circuit and confirm the total is under the 96 W Class 2 limit.

2. Identify the circuit layout: straight run, hub (home run), loop, or hub with branches. Locate the power supply to keep wire distances short.

3. Measure wire path distances on the plan (actual routed feet, not straight line distance). For each fixture, multiply watts × distance (watt-feet) and compute the center of load per Section 4.

4. In Table 1, find the load column equal to or greater than the circuit watts. Read down to the first gauge whose listed distance is equal to or greater than your center of load distance. That is the minimum wire gauge. The same gauge serves dimmed and nondimmed circuits.

5. Commissioning and verification: confirm + / – polarity at every fixture before energizing. Energize the circuit at full output (dimmers at 100%) and measure voltage at the farthest fixture: it must read 22.8 V or higher.

3. WIRE SELECTION TABLES

Distances below are the maximum center of load distance in feet (one way, along the wire path) for a 1.2 V drop (maximum 5% drop from 24V), computed at VOYA 24VDC current (watts ÷ 22.8). For loads between columns, use the next higher column. The 96 W column is the Class 2 ceiling, and the largest possible circuit current is 4.2 A, within the ampacity of every gauge listed, so this table has no ampacity cutoffs.

TABLE 1. COPPER WIRE (STRANDED), MAXIMUM COL DISTANCE IN FEET

	AWG	10W	15W	20W	25W	30W	40W	50W	60W	70W	80W	96W
	AMPS	**0.44**	**0.66**	**0.88**	**1.10**	**1.32**	**1.75**	**2.19**	**2.63**	**3.07**	**3.51**	**4.21**
24V	18	199	133	99	79	66	49	39	33	28	24	20
	16	318	212	159	127	106	79	63	53	45	39	33
	14	506	337	253	202	168	126	101	84	72	63	52
	12	802	534	401	320	267	200	160	133	114	100	83
	10	1280	853	640	512	426	320	256	213	182	160	133
	8	2041	1361	1020	816	680	510	408	340	291	255	212
	6	3234	2156	1617	1293	1078	808	646	539	462	404	336

Total watts = sum of the fixture wattages on the circuit (VOYA 2.5" 24VDC fixtures are field-settable from 0.7 W to 12.1 W each). 96 W is the Class 2 supply limit.

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4. CIRCUIT LAYOUTS AND CENTER OF LOAD

All layouts use the same wire tables. What changes is the distance to look up - the center of load (COL), calculated based on different wiring configurations.

Center of Load (COL), general rule: For each fixture on the run, multiply its watts by its wire distance from the supply. Add these watt-feet, then divide by the total watts:

$$COL = \frac{\Sigma\ (\text{Power of Fixtures (Watts)} \times \text{distance (feet)})}{\text{Total power of fixtures in the circuit (Watts)}}$$

Shortcut: Only when fixtures are equal wattage and evenly spaced:
COL = distance to the first fixture + half of the distance from first to last fixture

4.1 STRAIGHT RUN (DAISY CHAIN)

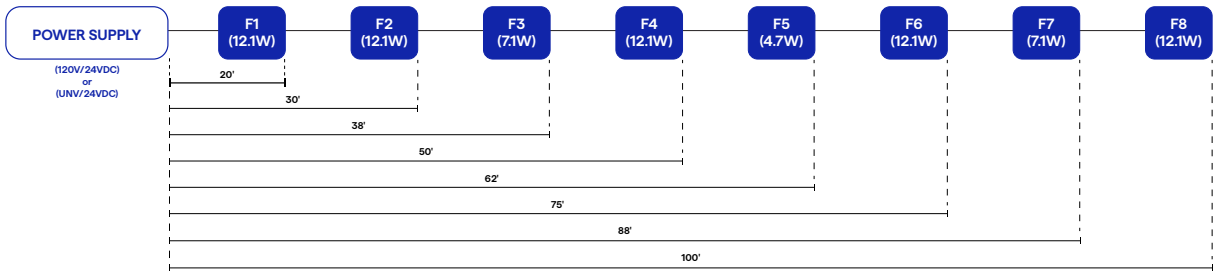
List each fixture with its watts and distance, total the watt-feet column, divide by total watts. Look up the total watts of the run at the COL distance.

EIGHT FIXTURES OF MIXED FIELD-SET WATTAGES WORKSHEET:

FIXTURE	WATTS	DISTANCE FROM POWER SUPPLY (FT)	WATT-FEET
F1	12.1	20	242
F2	12.1	30	363
F3	7.1	38	269.8
F4	12.1	50	605
F5	4.7	62	291.4
F6	12.1	75	907.5
F7	7.1	88	624.8
F8	12.1	100	1210
Total	79.4 (<96W)		4513.5
		COL = 4513.5/79.4 = 57FT	

COL = 4,513.5 ÷ 79.4 = 57 ft at 79.4 W.

Table 1, 80 W column: 16 AWG allows 39 ft (fail, < 57 ft); 14 AWG allows 63 ft (pass, > 57 ft). Use 14 AWG copper



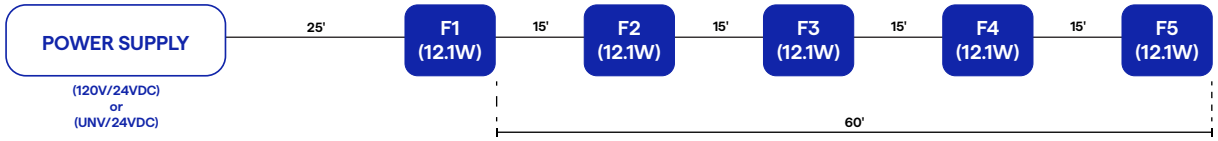
FIVE 12.1W FIXTURES EVENLY SPACED 15' APART, THE FIRST FIXTURE 25' FROM THE SUPPLY WORKSHEET:

FIXTURE	WATTS	DISTANCE FROM POWER SUPPLY (FT)	WATT-FEET
F1	12.1	25	302.5
F2	12.1	40	484
F3	12.1	55	665.5
F4	12.1	70	847
F5	12.1	85	1028.5
Total	60.5		3227.5
		COL = 3,327.5/60.5 = 55ft	

Total 60.5 W: under the 96 W Class 2 limit (pass). COL = 3,327.5 ÷ 60.5 = 55 ft at 60.5 W (2.65 A).

Shortcut check: because the fixtures are equal wattage and evenly spaced, the shortcut from Section 4 applies: COL = distance to the first fixture + half of the distance from first to last fixture = 25 + (85 − 25) ÷ 2 = 25 + 30 = 55 ft. Identical to the watt-feet result, as expected. The shortcut may be used only in this equal-and-evenly-spaced case; for mixed wattages or irregular spacing (Example 1), use the watt-feet worksheet.

Table 1, 70 W column: 16 AWG allows 45 ft (fail since < 55 ft); 14 AWG allows 72 ft (pass since > 55 ft). Use 14 AWG copper. The farthest fixture receives 24.0 − 0.79 = 23.2 V, inside the 22.8–24.0 V window. Dimmed or non-dimmed, the result is the same.

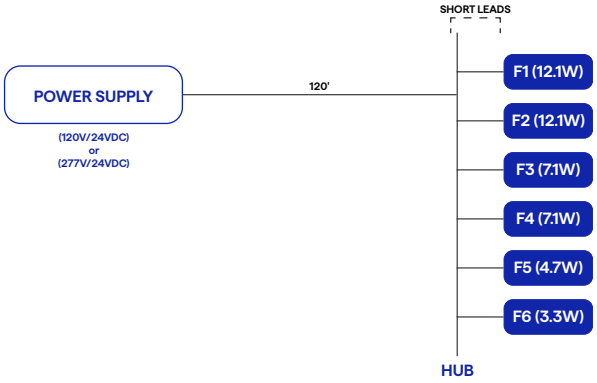


COL = 25'+60'/2 = 55

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4.2 HUB (STAR) HOME RUNS

List each fixture with its watts and distance, total the watt-feet column, divide by total watts. Look up the total watts of the run at the COL distance.



Six fixtures (12.1 + 12.1 + 7.1 + 7.1 + 4.7 + 3.3 = 46.4 W) on short leads at a hub 120 ft from the supply.

Every fixture is at 120 ft, so COL = 120 ft regardless of the mix. 46.4 W ≤ 96 W (pass). Table 1, 50 W column: 12 AWG allows 160 ft (pass). Use 12 AWG copper.

Note: If there are other home runs from the same supply, check each separately with its own load. The 96 W Class 2 limit applies to the sum of all loads on the circuit.

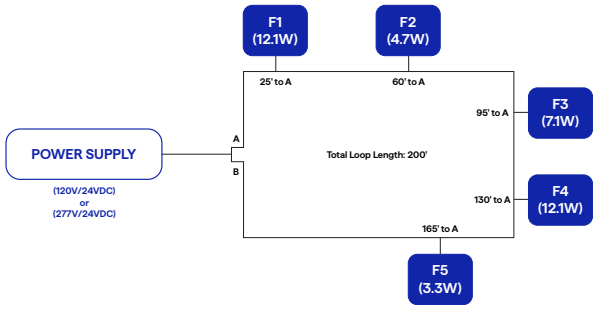
4.3 LOOP (RING) CIRCUITS

Both ends of the cable return to the same supply output, so current reaches every fixture from two directions. The lowest voltage occurs at the split point, the fixture where the two feeds meet.

Balanced loop (roughly even loads and spacing): cut the loop at the fixture farthest along the cable and check each half as a straight run (Section 4.1) carrying its own fixtures; a fixture at the cut counts half in each half.

Any loop, general method: pick one terminal as A and measure each fixture distance d along the cable from A (loop cable length L).

1. Watts arriving from the far terminal W_B = Σ (watts × d) ÷ L, and W_A = total −W_B.
2. Walk from A subtracting each fixture wattage from W_A; the fixture where the running value crosses zero is the split fixture.
3. Treat the A side as a straight run ending at the split fixture, carrying the fixtures before it plus the leftover watts at the split; compute its watt-feet COL and check it with the tables. Both sides give the same drop at the split, so checking one side is enough.



Loop with uneven loads. A 200 ft loop, fixtures measured from terminal A: 12.1 W at 25 ft, 4.7 W at 60 ft, 7.1 W at 95 ft, 12.1 W at 130 ft, 3.3 W at 165 ft. Total 39.3 W ≤ 96 W (pass).

1. Loop watt-feet = 12.1×25 + 4.7×60 + 7.1×95 + 12.1×130 + 3.3×165 = 3,376.5.
   W_B = 3,376.5 ÷ 200 = 16.9 W
   W_A = 39.3 − 16.9 = 22.4 W.
2. Walk from A: 22.4 − 12.1 = 10.3; 10.3 − 4.7 = 5.6; 5.6 − 7.1 = −1.5. The sign flips at the 7.1 W fixture (95 ft): that is the split point. It takes 5.6 W from side A and 1.5 W from side B.
3. Side A as a straight run: 12.1 W at 25 ft, 4.7 W at 60 ft, 5.6 W at 95 ft = 1,118 watt-feet. COL = 1,118 ÷ 22.4 = 50 ft at 22.4 W.

Table 1, 25 W column: 18 AWG allows 79 ft (pass). Side B gives the same drop by construction. Use 18 AWG copper.

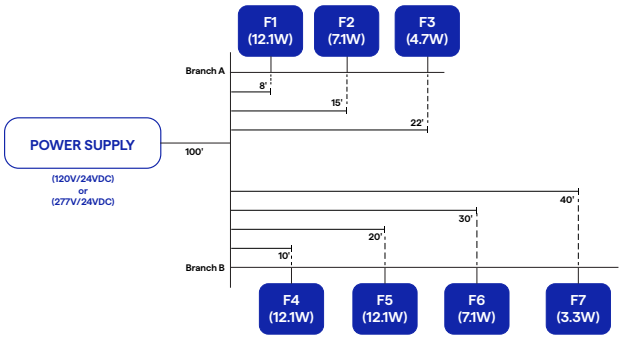
Note: The same five fixtures fed from terminal A as a dead-end run (COL 86 ft at 39.3 W) would need 14 AWG. The loop saves two AWG sizes.

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4.4 HUB WITH BRANCHES (TWO LEVEL CIRCUITS) PERCENT RULE

Voltage drops add along the path, so each level consumes part of the 1.2 V maximum voltage drop budget. Check it with percentages of allowed distance:

- Home run: actual distance ÷ allowed Table 1 distance at the full connected load = X%.
- Each branch: branch watt-feet COL (measured from the hub) ÷ allowed Table 1 distance at that branch load = Y%.
- Requirement: X + Y ≤ 100% for every branch path. The same rule stacks for any number of levels in series. Branches may use different gauges; each is checked with its own load and COL.



A home run of 100 ft feeds a hub carrying two branches: branch A is 12.1 W at 8 ft, 7.1 W at 15 ft, 4.7 W at 22 ft from the hub (23.9 W, 307 watt-feet, COL 13 ft); branch B is 12.1 W at 10 ft, 12.1 W at 20 ft, 7.1 W at 30 ft, 3.3 W at 40 ft (34.6 W, 708 watt-feet, COL 20 ft). Total 58.5 W ≤ 96 W (pass).

- **Home run:** 12 AWG at 58.5 W (60 W column, 133 ft allowed): 100 ÷ 133 = 75%
- **Branch A:** 16 AWG at 23.9 W (25 W column, 127 ft allowed): 13 ÷ 127 = 10%. Path total 75%+10% = 85% (pass).
- **Branch B:** 16 AWG at 34.6 W (40 W column, 79 ft allowed): 20 ÷ 79 = 26%. Path total 75%+26% = 101% (fail). Upsize branch B to 14 AWG (126 ft allowed): 20 ÷ 126 = 16%. Path total 75%+16% = 91% (pass).

Result: 12 AWG home run, 16 AWG branch A, 14 AWG branch B.

Branches are sized individually. Only the shared home run carries the full 58.5 W

5. CODE AND SAFETY NOTES

- **Class 2 wiring:** QTL 24VDC electronic supplies are listed Class 2 sources (100 VA maximum per output circuit).
- Minimum recommended conductor is 18 AWG (the 4.2 A maximum circuit current is within 18 AWG fixture-wire ampacity per NEC 402.5).
- Use direct burial rated low voltage cable outdoors. Under NEC Table 300.5, landscape lighting circuits not exceeding 30 V may be buried at a minimum of 6 inches when using listed cable; local codes govern.
- VOYA 24VDC circuits also fall under NEC Article 411 (lighting systems 30 V or less). Install per the NEC and applicable local codes.
- Make all splices with listed, waterproof low voltage connectors suitable for direct burial.

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VOYA 2.5" ADDITIONAL SNOOTS, OPTICS, LENS FILTERS, LAMPS, KITS, & FINISH KEY RINGS

Accessories

SNOOTS - NO WEEP HOLES

Flush



PART NUMBERS:

BEIGE	VOYA-2.5-FL-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-2.5-FL-SNOOT-ASM-A-BB
BLACK	VOYA-2.5-FL-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-FL-SNOOT-ASM-A-BKT
BRONZE	VOYA-2.5-FL-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-FL-SNOOT-ASM-A-BZT
SILVER	VOYA-2.5-FL-SNOOT-ASM-A-SL
WHITE	VOYA-2.5-FL-SNOOT-ASM-A-WH
BRASS	VOYA-2.5-FL-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-2.5-FL-SNOOT-ASM-SS-P

0.5" Regress



PART NUMBERS:

BEIGE	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-A-BG
BLACK BRONZE	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-A-BB
BLACK	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-A-BKT
BRONZE	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-A-BZT
SILVER	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-A-SL
WHITE	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-A-WH
BRASS	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-B-P
STAINLESS STEEL	VOYA-2.5-HR-SNOOT-NO-WEEP-ASM-SS-P

1" Regress



PART NUMBERS:

BEIGE	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-A-BG
BLACK BRONZE	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-A-BB
BLACK	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-A-BKT
BRONZE	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-A-BZT
SILVER	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-A-SL
WHITE	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-A-WH
BRASS	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-B-P
STAINLESS STEEL	VOYA-2.5-1R-SNOOT-NO-WEEP-ASM-SS-P

30 Degree



PART NUMBERS:

BEIGE	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-A-BG
BLACK BRONZE	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-A-BB
BLACK	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-A-BKT
BRONZE	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-A-BZT
SILVER	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-A-SL
WHITE	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-A-WH
BRASS	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-B-P
STAINLESS STEEL	VOYA-2.5-30D-SNOOT-NO-WEEP-ASM-SS-P

45 Degree



PART NUMBERS:

BEIGE	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-A-BG
BLACK BRONZE	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-A-BB
BLACK	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-A-BKT
BRONZE	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-A-BZT
SILVER	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-A-SL
WHITE	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-A-WH
BRASS	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-B-P
STAINLESS STEEL	VOYA-2.5-45D-SNOOT-NO-WEEP-ASM-SS-P

60 Degree



PART NUMBERS:

BEIGE	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-A-BG
BLACK BRONZE	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-A-BB
BLACK	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-A-BKT
BRONZE	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-A-BZT
SILVER	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-A-SL
WHITE	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-A-WH
BRASS	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-B-P
STAINLESS STEEL	VOYA-2.5-60D-SNOOT-NO-WEEP-ASM-SS-P

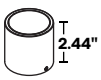
45° Glare Shield



PART NUMBERS:

BEIGE	VOYA-2.5-45D-GLARE-SHIELD-A-BG
BLACK BRONZE	VOYA-2.5-45D-GLARE-SHIELD-A-BB
BLACK	VOYA-2.5-45D-GLARE-SHIELD-A-BK
BLACK TEXTURE	VOYA-2.5-45D-GLARE-SHIELD-A-BKT
BRONZE	VOYA-2.5-45D-GLARE-SHIELD-A-BZ
BRONZE TEXTURE	VOYA-2.5-45D-GLARE-SHIELD-A-BZT
SILVER	VOYA-2.5-45D-GLARE-SHIELD-A-SL
WHITE	VOYA-2.5-45D-GLARE-SHIELD-A-WH
BRASS	VOYA-2.5-45D-GLARE-SHIELD-B-P
STAINLESS STEEL	VOYA-2.5-45D-GLARE-SHIELD-SS-P

Grazer



PART NUMBERS:

BEIGE	VOYA-2.5-GZR-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-2.5-GZR-SNOOT-ASM-A-BB
BLACK	VOYA-2.5-GZR-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-GZR-SNOOT-ASM-A-BKT
BRONZE	VOYA-2.5-GZR-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-GZR-SNOOT-ASM-A-BZT
SILVER	VOYA-2.5-GZR-SNOOT-ASM-A-SL
WHITE	VOYA-2.5-GZR-SNOOT-ASM-A-WH
BRASS	VOYA-2.5-GZR-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-2.5-GZR-SNOOT-ASM-SS-P

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VOYA 2.5" ADDITIONAL SNOOTS, OPTICS, LENS FILTERS, LAMPS, KITS, & FINISH KEY RINGS

Accessories

SNOOTS - WITH WEEP HOLES

0.5" Regress



PART NUMBERS:

BEIGE	VOYA-2.5-HR-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-2.5-HR-SNOOT-ASM-A-BB
BLACK	VOYA-2.5-HR-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-HR-SNOOT-ASM-A-BKT
BRONZE	VOYA-2.5-HR-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-HR-SNOOT-ASM-A-BZT
SILVER	VOYA-2.5-HR-SNOOT-ASM-A-SL
WHITE	VOYA-2.5-HR-SNOOT-ASM-A-WH
BRASS	VOYA-2.5-HR-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-2.5-HR-SNOOT-ASM-SS-P

1" Regress



PART NUMBERS:

BEIGE	VOYA-2.5-1R-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-2.5-1R-SNOOT-ASM-A-BB
BLACK	VOYA-2.5-1R-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-1R-SNOOT-ASM-A-BKT
BRONZE	VOYA-2.5-1R-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-1R-SNOOT-ASM-A-BZT
SILVER	VOYA-2.5-1R-SNOOT-ASM-A-SL
WHITE	VOYA-2.5-1R-SNOOT-ASM-A-WH
BRASS	VOYA-2.5-1R-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-2.5-1R-SNOOT-ASM-SS-P

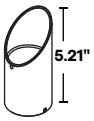
30 Degree



PART NUMBERS:

BEIGE	VOYA-2.5-30D-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-2.5-30D-SNOOT-ASM-A-BB
BLACK	VOYA-2.5-30D-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-30D-SNOOT-ASM-A-BKT
BRONZE	VOYA-2.5-30D-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-30D-SNOOT-ASM-A-BZT
SILVER	VOYA-2.5-30D-SNOOT-ASM-A-SL
WHITE	VOYA-2.5-30D-SNOOT-ASM-A-WH
BRASS	VOYA-2.5-30D-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-2.5-30D-SNOOT-ASM-SS-P

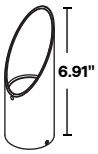
45 Degree



PART NUMBERS:

BEIGE	VOYA-2.5-45D-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-2.5-45D-SNOOT-ASM-A-BB
BLACK	VOYA-2.5-45D-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-45D-SNOOT-ASM-A-BKT
BRONZE	VOYA-2.5-45D-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-45D-SNOOT-ASM-A-BZT
SILVER	VOYA-2.5-45D-SNOOT-ASM-A-SL
WHITE	VOYA-2.5-45D-SNOOT-ASM-A-WH
BRASS	VOYA-2.5-45D-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-2.5-45D-SNOOT-ASM-SS-P

60 Degree



PART NUMBERS:

BEIGE	VOYA-2.5-60D-SNOOT-ASM-A-BG
BLACK BRONZE	VOYA-2.5-60D-SNOOT-ASM-A-BB
BLACK	VOYA-2.5-60D-SNOOT-ASM-A-BK
BLACK TEXTURE	VOYA-2.5-60D-SNOOT-ASM-A-BKT
BRONZE	VOYA-2.5-60D-SNOOT-ASM-A-BZ
BRONZE TEXTURE	VOYA-2.5-60D-SNOOT-ASM-A-BZT
SILVER	VOYA-2.5-60D-SNOOT-ASM-A-SL
WHITE	VOYA-2.5-60D-SNOOT-ASM-A-WH
BRASS	VOYA-2.5-60D-SNOOT-ASM-B-P
STAINLESS STEEL	VOYA-2.5-60D-SNOOT-ASM-SS-P

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VOYA 2.5" ADDITIONAL SNOOTS, OPTICS, LENS FILTERS, LAMPS, KITS, & FINISH KEY RINGS

Accessories

OPTICS - STATIC WHITE

12 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-2.5-OPTIC-SW-12

16 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-2.5-OPTIC-SW-16

23 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-2.5-OPTIC-SW-23

37 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-2.5-OPTIC-SW-37

51 Degree



PART NUMBERS:

STATIC WHITE	ACC-VOYA-2.5-OPTIC-SW-51

Grazer



PART NUMBERS:

STATIC WHITE	ACC-VOYA-2.5-OPTIC-SW-GZR

OPTICS - AMBER & WARM DIM

20 Degree



PART NUMBERS:

AMBER	ACC-VOYA-2.5-OPTIC-A-20
WARM DIM	ACC-VOYA-2.5-OPTIC-WD-20

26 Degree



PART NUMBERS:

AMBER	ACC-VOYA-2.5-OPTIC-A-26
WARM DIM	ACC-VOYA-2.5-OPTIC-WD-26

40 Degree



PART NUMBERS:

AMBER	ACC-VOYA-2.5-OPTIC-A-40
WARM DIM	ACC-VOYA-2.5-OPTIC-WD-40

55 Degree



PART NUMBERS:

AMBER	ACC-VOYA-2.5-OPTIC-A-55
WARM DIM	ACC-VOYA-2.5-OPTIC-WD-55

LENS FILTERS

SPREAD



PART NUMBERS:

ACC-2.5-SP

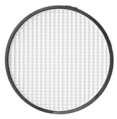
LINEAR SPREAD



PART NUMBERS:

ACC-2.5-LS

WALL WASH



PART NUMBERS:

ACC-2.5-WW

HONEYCOMB LOUVER



PART NUMBERS:

ACC-2.5-LV

RETAINING RING



PART NUMBERS:

ACC-2.5-RR

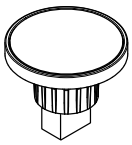
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VOYA 2.5" ADDITIONAL SNOOTS, OPTICS, LENS FILTERS, LAMPS, KITS, & FINISH KEY RINGS

Accessories

LAMPS

MR16

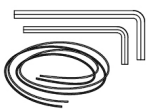


PART NUMBERS:

MR16 EMERY ALLEN 1.0W 24 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-1.0W-24D-2790-D
MR16 EMERY ALLEN 1.0W 24 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-1.0W-24D-3090-D
MR16 EMERY ALLEN 1.0W 36 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-1.0W-36D-2790-D
MR16 EMERY ALLEN 1.0W 36 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-1.0W-36D-3090-D
MR16 EMERY ALLEN 1.0W 60 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-1.0W-60D-2790-D
MR16 EMERY ALLEN 1.0W 60 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-1.0W-60D-3090-D
MR16 EMERY ALLEN 1.0W 120 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-1.0W-120D-2790-D
MR16 EMERY ALLEN 1.0W 120 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-1.0W-120D-3090-D
MR16 EMERY ALLEN 3.0W 15 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-15D-2790-D
MR16 EMERY ALLEN 3.0W 15 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-15D-3090-D
MR16 EMERY ALLEN 3.0W 24 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-24D-2790-D
MR16 EMERY ALLEN 3.0W 24 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-24D-3090-D
MR16 EMERY ALLEN 3.0W 36 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-36D-2790-D
MR16 EMERY ALLEN 3.0W 36 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-36D-3090-D
MR16 EMERY ALLEN 3.0W 60 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-60D-2790-D
MR16 EMERY ALLEN 3.0W 60 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-60D-3090-D
MR16 EMERY ALLEN 3.0W 120 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-120D-2790-D
MR16 EMERY ALLEN 3.0W 120 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-3.0W-120D-3090-D
MR16 EMERY ALLEN 5.0W 15 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-5.0W-15D-2790-D
MR16 EMERY ALLEN 5.0W 15 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-5.0W-15D-3090-D
MR16 EMERY ALLEN 5.0W 24 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-5.0W-24D-2790-D
MR16 EMERY ALLEN 5.0W 24 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-5.0W-24D-3090-D
MR16 EMERY ALLEN 5.0W 36 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-5.0W-36D-2790-D
MR16 EMERY ALLEN 5.0W 36 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-5.0W-36D-3090-D
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MR16 EMERY ALLEN 5.0W 60 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-5.0W-60D-3090-D
MR16 EMERY ALLEN 5.0W 120 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-5.0W-120D-2790-D
MR16 EMERY ALLEN 5.0W 120 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-5.0W-120D-3090-D
MR16 EMERY ALLEN 7.0W 15 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-7.0W-15D-2790-D
MR16 EMERY ALLEN 7.0W 15 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-7.0W-15D-3090-D
MR16 EMERY ALLEN 7.0W 24 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-7.0W-24D-2790-D
MR16 EMERY ALLEN 7.0W 24 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-7.0W-24D-3090-D
MR16 EMERY ALLEN 7.0W 36 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-7.0W-36D-2790-D
MR16 EMERY ALLEN 7.0W 36 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-7.0W-36D-3090-D
MR16 EMERY ALLEN 7.0W 60 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-7.0W-60D-2790-D
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MR16 EMERY ALLEN 8.0W 24 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-8.0W-24D-2790-D
MR16 EMERY ALLEN 8.0W 24 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-8.0W-24D-3090-D
MR16 EMERY ALLEN 8.0W 36 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-8.0W-36D-2790-D
MR16 EMERY ALLEN 8.0W 36 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-8.0W-36D-3090-D
MR16 EMERY ALLEN 8.0W 60 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-8.0W-60D-2790-D
MR16 EMERY ALLEN 8.0W 60 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-8.0W-60D-3090-D
MR16 EMERY ALLEN 8.0W 120 DEGREE 2700K STATIC WHITE 90CRI DIMMABLE	EA-MR16-8.0W-120D-2790-D
MR16 EMERY ALLEN 8.0W 120 DEGREE 3000K STATIC WHITE 90CRI DIMMABLE	EA-MR16-8.0W-120D-3090-D
MR16 EMERY ALLEN 3.0W 60 DEGREE AMBER	EA-MR16-3.0W-60D-AMB

INSTALL KIT

Snoot Install Kit

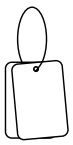


PART NUMBERS:

VOYA-SNOOT-INSTALL-KIT

FINISH KEY RING

Finish Key Ring



PART NUMBERS:

VOYA-FINISH-KEY-RING

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2.5" VOYA LUMINAIRE

Landscape Lighting Installation Instructions

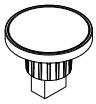
ATTENTION: Please read all instructions BEFORE installation

- Product to be installed by a licensed electrician - Field modifications void warranty
- Warranty only valid with QTL power supplies
- 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.
- PC lenses are not rated for use with halogen lamps. Do not use PC lenses in combination with halogen lamp sources.
- Requires remote LV transformer — not included.
- Verify input voltage matches transformer (12VAC vs 24VDC)
- Set DIP switch for desired output level.

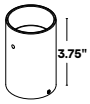
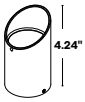
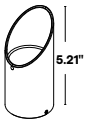
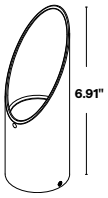
SPECIFICATIONS

- INPUT VOLTAGE: 12VAC OR 24VDC (SEE MODEL)
- DIP SWITCH: 8-POSITION FIELD-ADJUSTABLE OUTPUT
- LEAD WIRE: 36" OF 18GA. WIRE LEADS
- NPS THREAD: 1/2-14 NPS
- LAMP: MR16
- SNOOT SCREW: M5X5mm
- KNUCKLE SCREW: M8X22.5mm

- WIRING DIAGRAM (PAGE 2)
- KNUCKLE INSTALLATION (PAGE 3)
- OPTICS INSTALLATION (PAGE 3)
- DIP SWITCH INSTALLATION (PAGE 4)
- LAMP INSTALLATION (PAGE 5)
- SNOOTS INSTALLATION (PAGE 6)

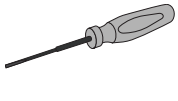
OPTICS	LAMP
	
12°, 16°, 23°, 37°, 51°, COB Spot for GZR OPTICS	MR16

SNOOTS

GZR	FL	HR	1R	30D	45D	60D	GLARE SHIELD
							
GRAZER	FLUSH	0.5" RECESSED	1" RECESSED	30 DEGREE	45 DEGREE	60 DEGREE	45 DEGREE ADAPTER

COMPONENTS & HARDWARE

PROVIDED HARDWARE

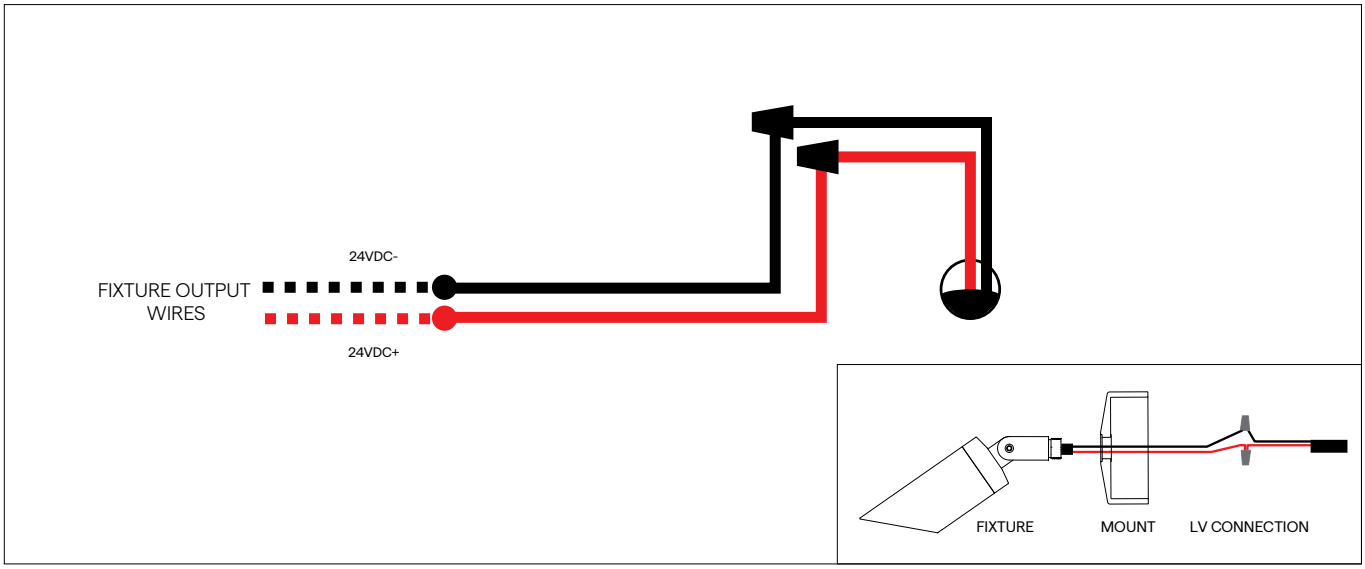
			
M2.5 Allen Key	M4 Allen Key	Flat Head Screw Driver	12" Omniflex® Line
ALLEN KEY	ALLEN KEY	SCREW DRIVER	FLEXIBLE LINE

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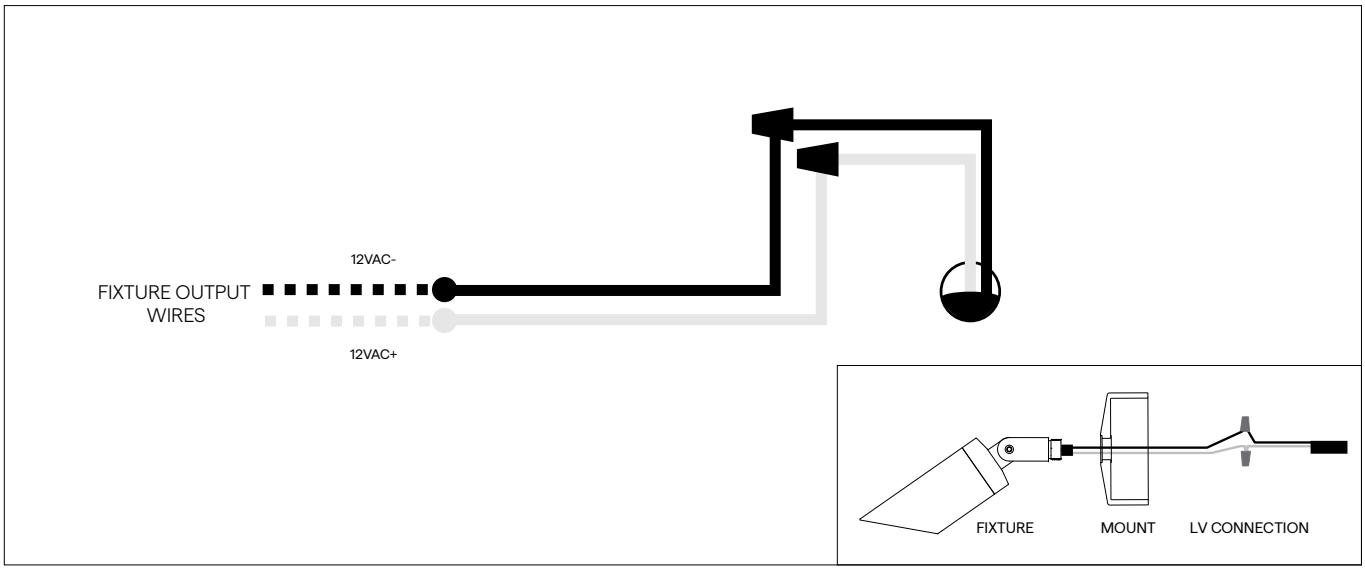
Specification subject to change. Rev-07-29-26

WIRING DIAGRAM

LOW VOLTAGE: 24VDC

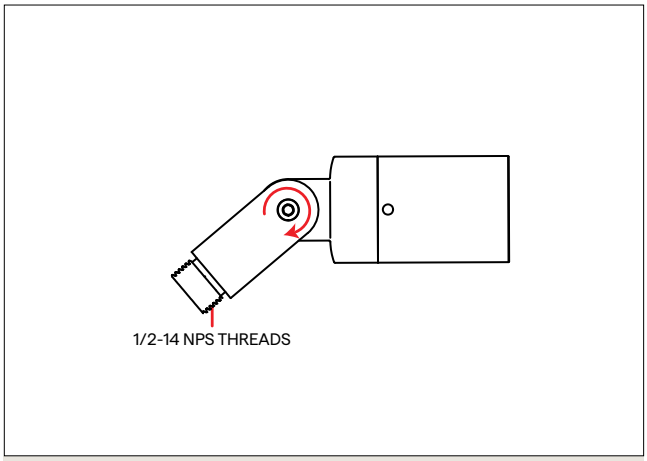


LOW VOLTAGE: 12VAC



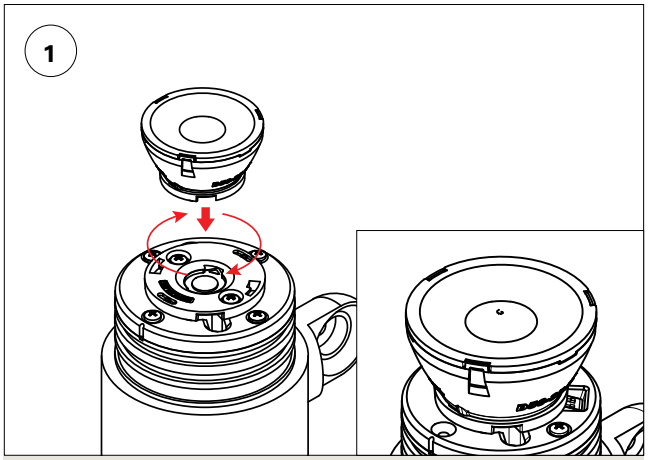
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KNUCKLE ADJUSTMENT

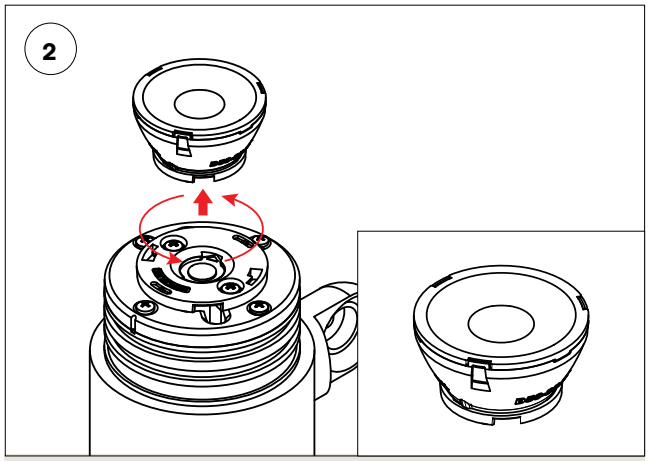


- Adjust and lock fixture at desired angle, using M4 Allen Key provided.

OPTICS INSTALLATION



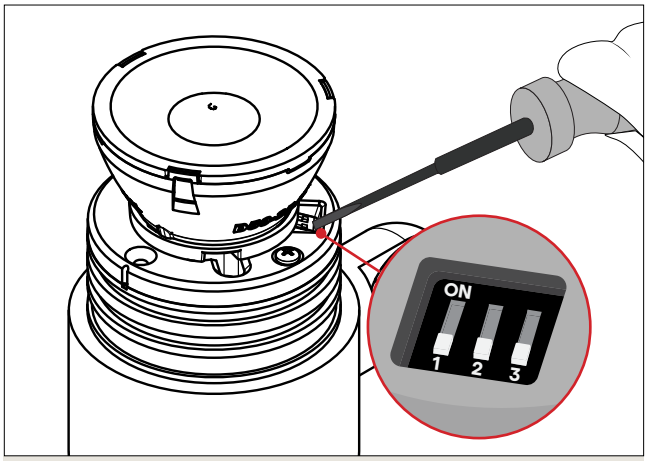
- Position the optic to align with COB holder. Apply downward pressure and rotate clockwise until it clicks into place.



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

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DIP SWITCH ADJUSTMENT



- **To Switch:** Use a flathead screwdriver to toggle dip switch positions to adjust output. Refer to chart below for output settings.

12VAC

VOYA-2.5-12VAC-COB-A

Output								
Rated Current(A)	150	170	190	220	250	300	375	500
DIP Code	TTT	TT⊥	T⊥T	T⊥⊥	⊥TT	⊥T⊥	⊥⊥T	⊥⊥⊥
Rated Power(W)	2.9	3.1	3.3	3.6	4.1	4.7	5.4	6.8

T On ⊥ Off,

VOYA-2.5-12VAC-COB-SW

Output								
Rated Current(A)	150	170	190	220	250	300	375	500
DIP Code	TTT	TT⊥	T⊥T	T⊥⊥	⊥TT	⊥T⊥	⊥⊥T	⊥⊥⊥
Rated Power(W)	4.6	4.9	5.3	5.9	6.6	7.9	9.5	12.5

T On ⊥ Off,

24VDC

VOYA-2.5-24VDC-COB-A

Output								
Rated Current(A)	10	40	70	100	150	225	350	600
DIP Code	⊥⊥⊥	T⊥⊥	⊥T⊥	⊥⊥T	TT⊥	T⊥T	⊥TT	TTT
Rated Power(W)	1.1	1.4	1.7	1.9	2.4	3.1	4.3	6.4

T On ⊥ Off,

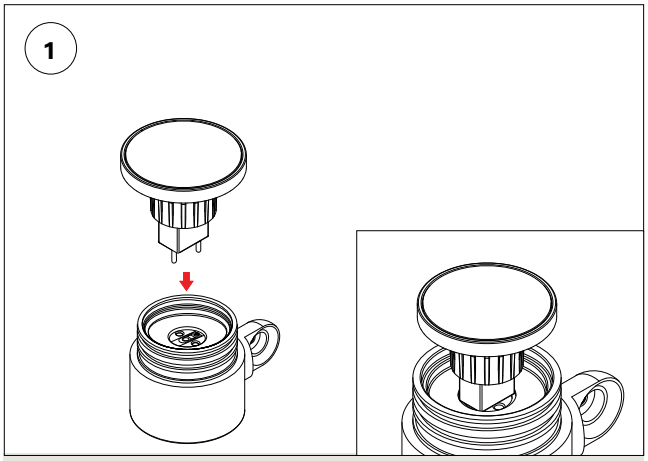
VOYA-2.5-24VDC-COB-SW

Output								
Rated Current(A)	10	40	70	100	150	225	350	600
DIP Code	⊥⊥⊥	T⊥⊥	⊥T⊥	⊥⊥T	TT⊥	T⊥T	⊥TT	TTT
Rated Power(W)	0.7	1.2	1.8	2.4	3.3	4.7	7.1	12.1

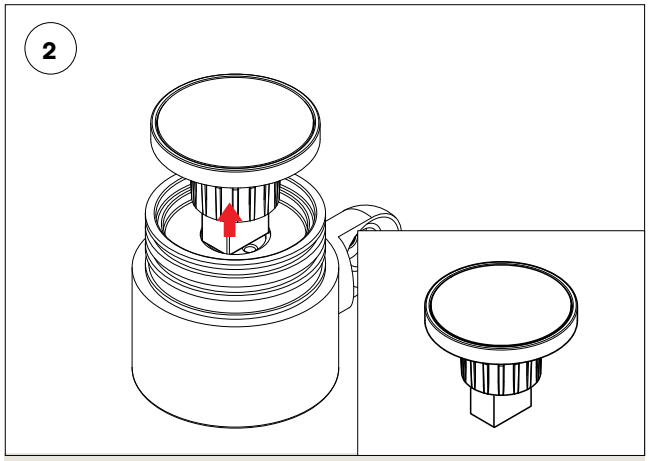
T On ⊥ Off,

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LAMP INSTALLATION



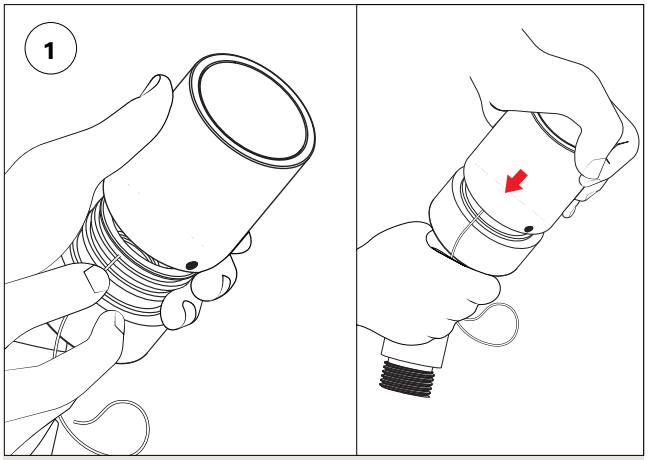
- **To Install:** Position the lamp over the top fixture opening. Apply downward pressure until the lamp engages with the lamp socket.



- **To Remove:** Pull the lamp straight out to disengage and remove it from the lamp socket.

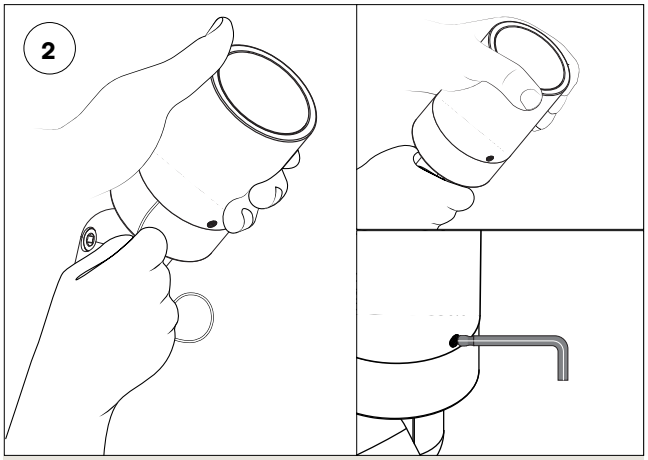
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SNOOT INSTALLATION



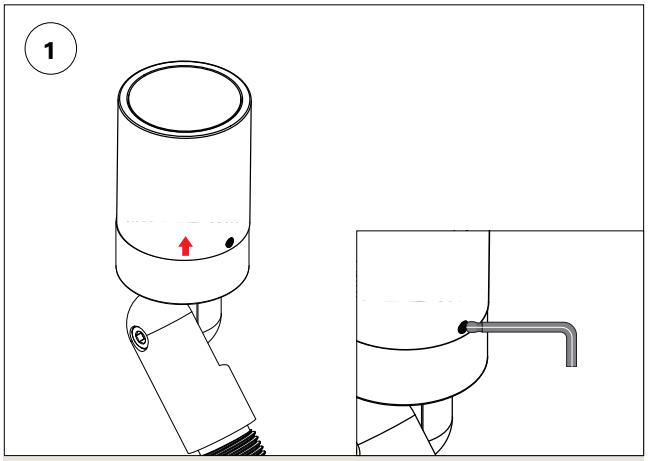
To Install

- **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.



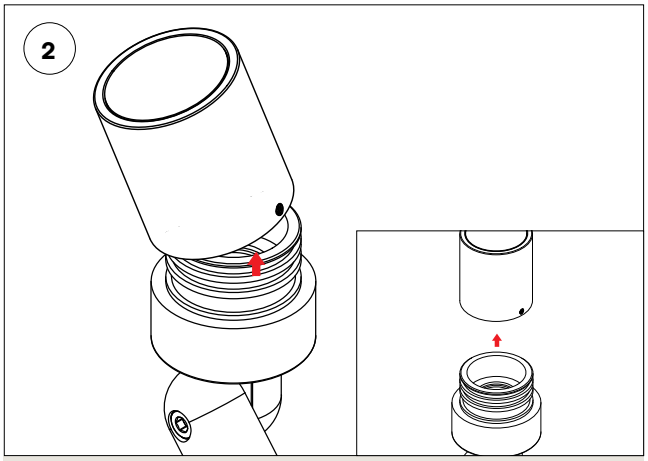
- **Secure the airtight seal:** Once the snoot is fully closed, pull the fishing wire through the snoot. Rotate the snoot until it is fully engaged, ensuring an airtight seal is maintained.
- **Secure set screw:** Tighten snoot set screw with M2.5 Allen Key, snug only. **DO NOT OVERTIGHTEN.**

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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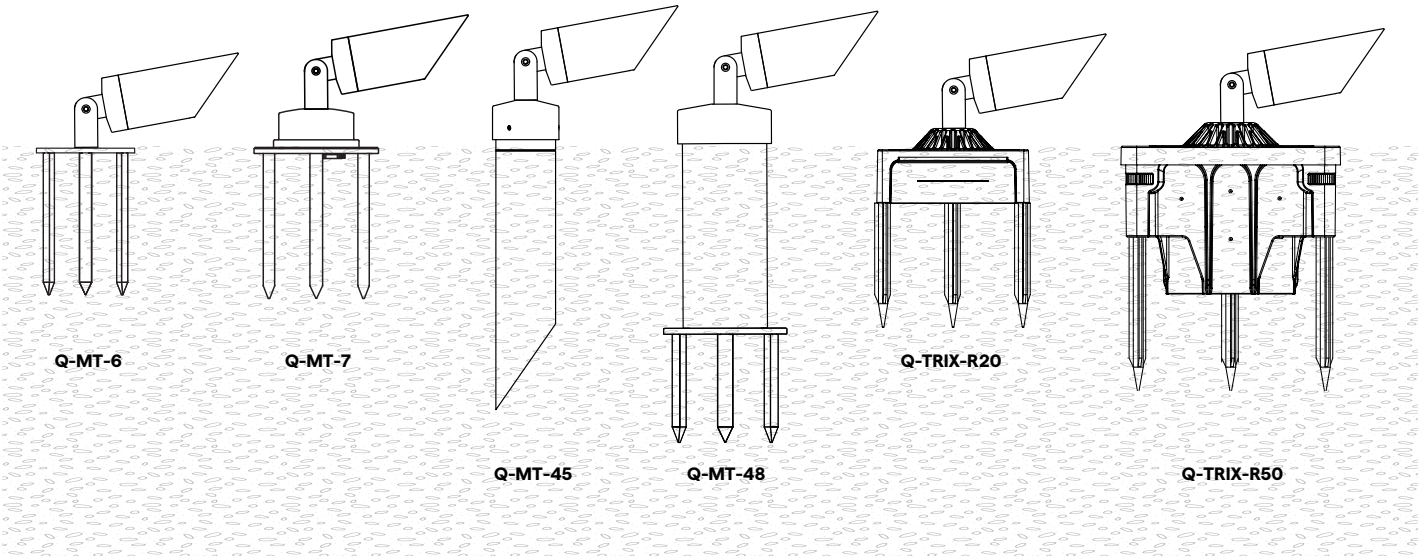
DIRECT BURIAL

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 (ND) (PAGE 5-9)
- DIRECT BURIAL - WITH DRIVER (WD) (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

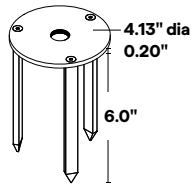
	Q-MT-6	Q-MT-7	Q-MT-45	Q-MT-48 (ND)	Q-MT-48 (WD)	Q-TRIX-R20 (ND)	Q-TRIX-R50 (WD)
VOYA-EM-1.75-MR11-12VAC	✓	✓	✓			✓	✓
VOYA-EM/SM-2.5	✓	✓	✓			✓	✓
VOYA-EM/SM-3.0-PAR20/GU10				✓			
VOYA-EM/SM-3.5-COB-120VAC					✓		
Excelsior UL-1	✓	✓					
Excelsior UL-1L	✓	✓					
Excelsior UL-2	✓	✓					
Excelsior UL-2L	✓	✓					
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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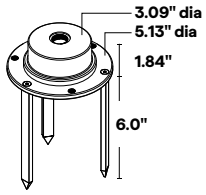
DIRECT BURIAL

Landscape Lighting Installation Instructions

Q-MT-6

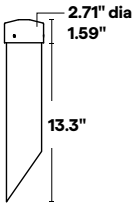


Q-MT-7

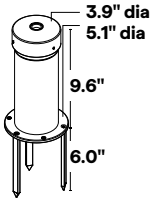


With Water Protection

Q-MT-45

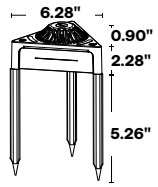


Q-MT-48



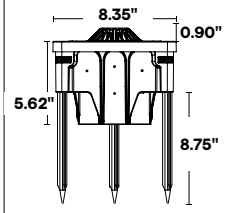
With Water Protection
ND (No Driver) | WD (With Driver)

Q-TRIX-R20



With Water Protection
ND (No Driver)

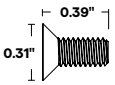
Q-TRIX-R50



With Water Protection
WD (With Driver)

COMPONENTS & HARDWARE

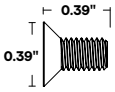
PROVIDED HARDWARE



#PN	QTY
Q-MT-7	3

M4x10mm

FLAT HEAD HEX SCREW



#PN	QTY
Q-MT-6	3
Q-MT-7	3

M5x12mm

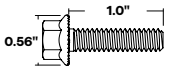
PHILLIPS FLAT HEAD SCREW



#PN	QTY
Q-MT-45	3

M5x6mm

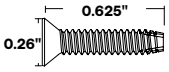
SET SCREW



TYPE	QTY
SCREWS For Q-TRIX-R50	3

1/4"-20x1"

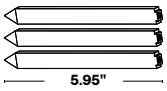
SERRATED-FLANGE HEX HEAD SCREWS



TYPE	QTY
SCREWS For Q-TRIX-R20	3

6-32x5/8"

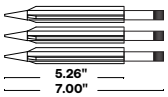
PHILLIPS FLAT HEAD THREAD SCREW



#PN	QTY
Q-MT-6	3
Q-MT-7	3
Q-MT-48	3

Stake: Use M5×12mm Phillips FH screws

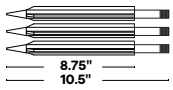
PLANTING STAKE



TYPE	QTY
STAKE	3

Stake for Q-TRIX-R20

PLANTING STAKE



TYPE	QTY
STAKE	3

Stake for Q-TRIX-R50

PLANTING STAKE

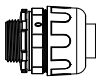
RECOMMENDED HARDWARE



#PN	QTY
Q-MT-6	1

1/2-14 NPS HEX NUT

HEX NUT / JAM NUT

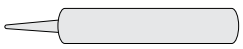


#PN	QTY
Q-MT-7	1
Q-MT-48	1

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

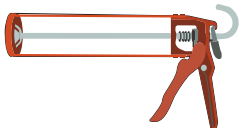
CONDUIT CONNECTOR

SUGGESTED TOOLS/MATERIALS



Waterproof Silicone

ALL PURPOSE SILICONE

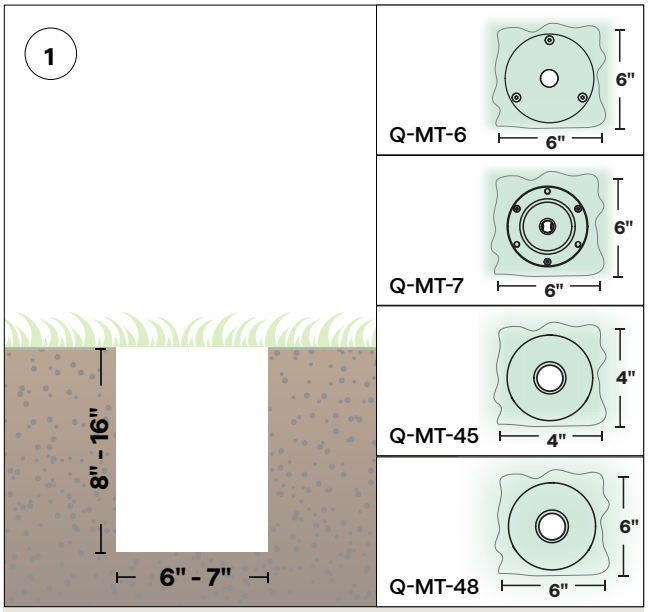


CAULKING GUN

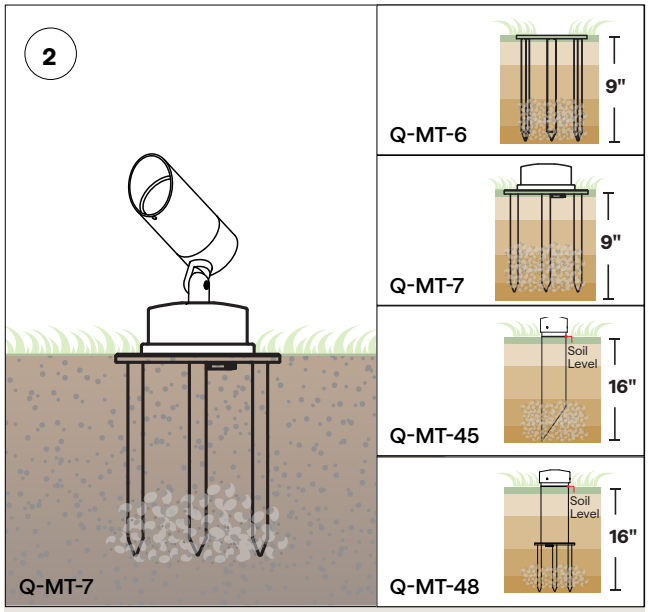
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SURFACE PREP

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

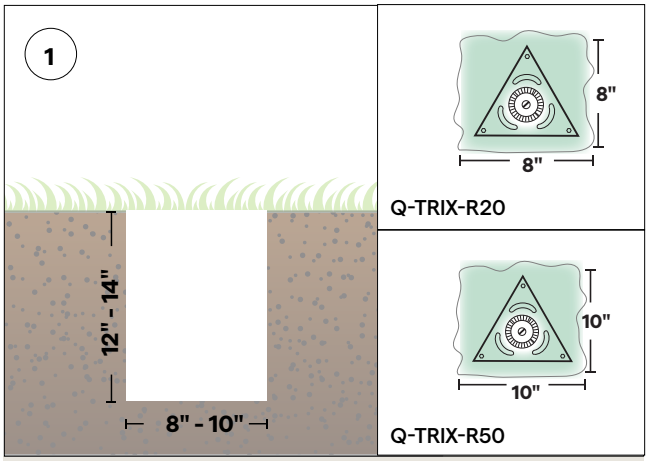


- Dig the hole to match the size of the housing for the product, as shown above for the hole length and width.

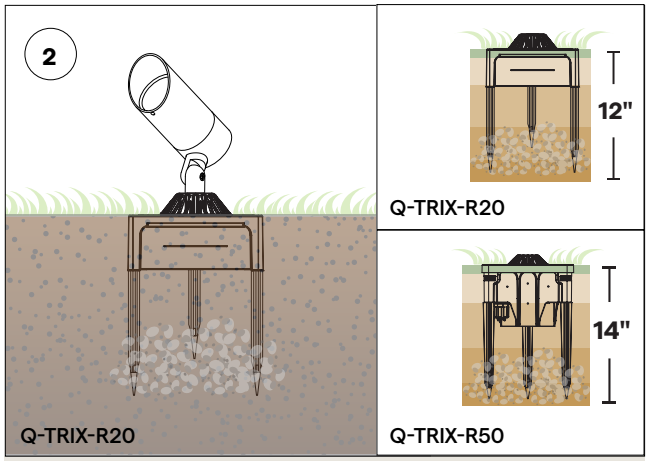


- Dig the hole to match the size of the housing for the product, as shown above for the hole depth.

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.



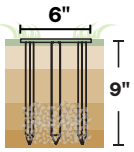
- Dig the hole to match the size of the housing for the product, as shown above for the hole depth.

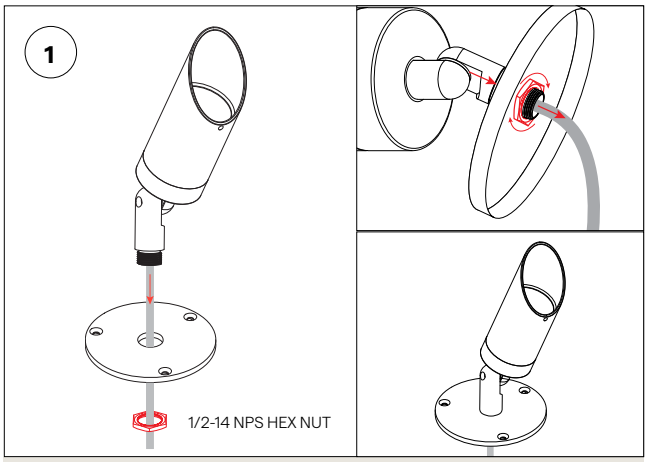
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DIRECT BURIAL

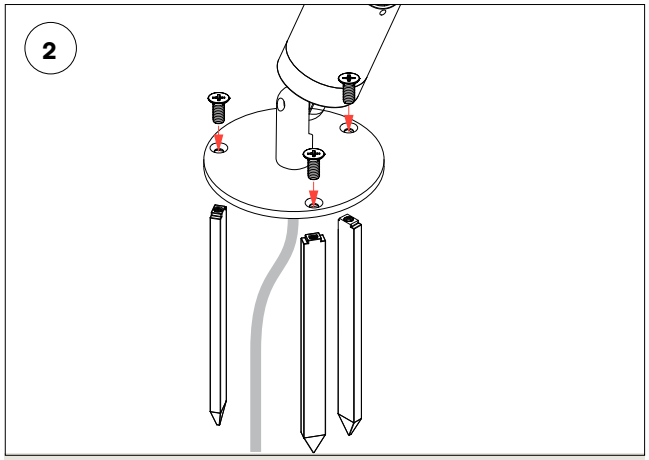
Landscape Lighting Installation Instructions

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

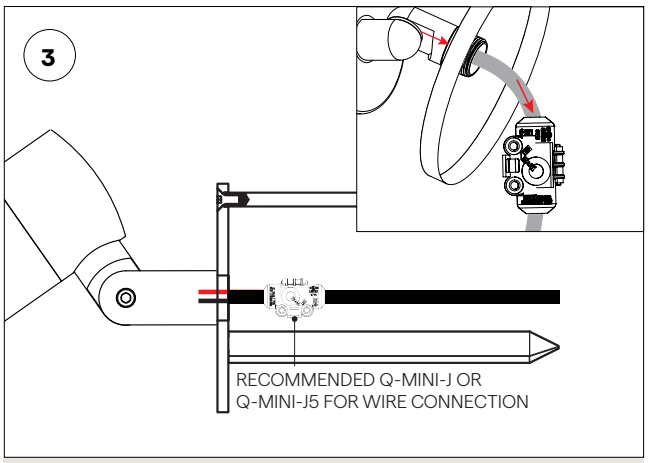




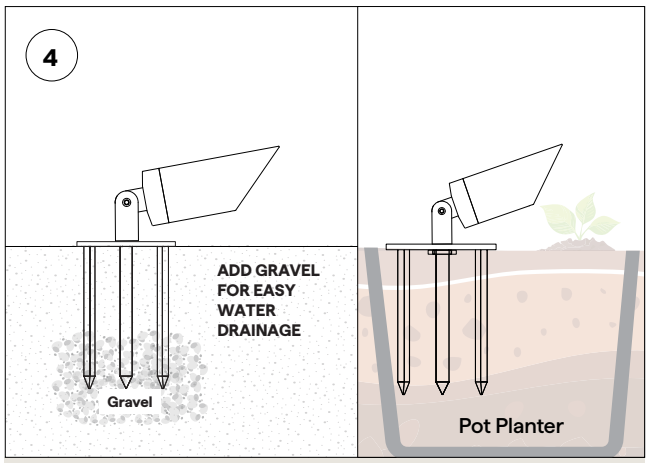
- Feed the fixture lead wire down through the plate, then screw fixture down with HEX NUT until fully seated.



- 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.

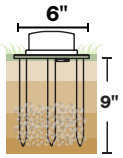
DO NOT COVER THE LUMINAIRE.

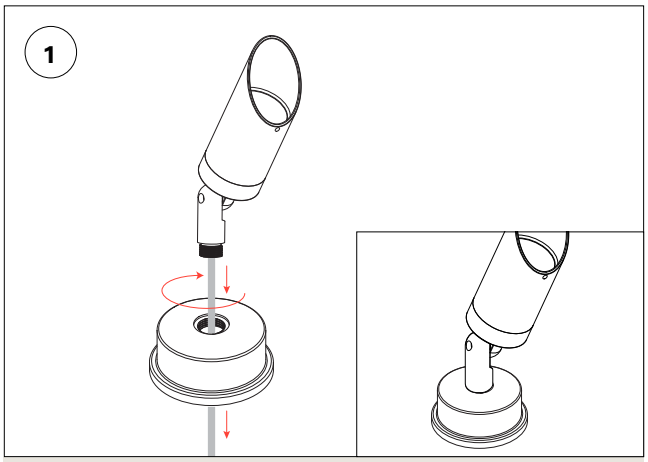
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DIRECT BURIAL

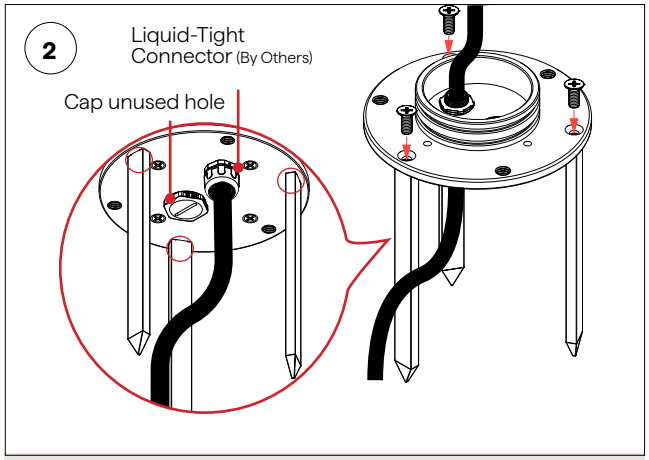
Landscape Lighting Installation Instructions

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

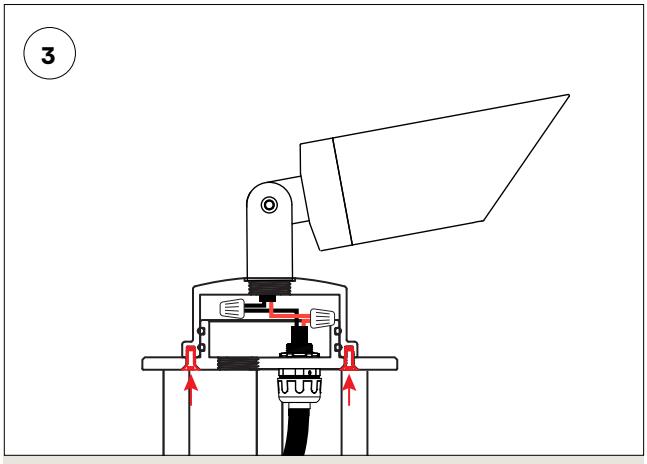




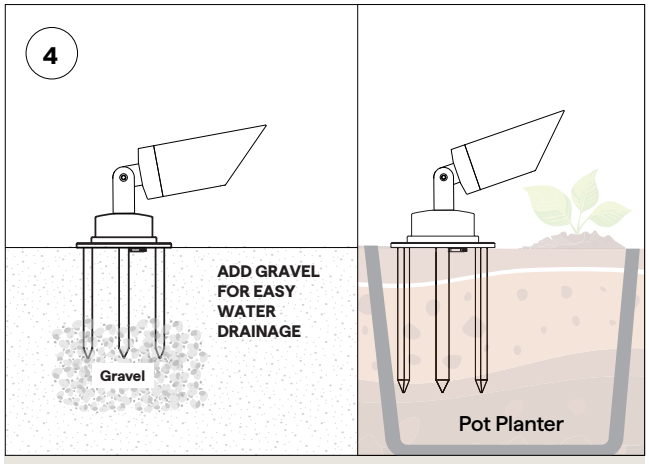
- Feed the fixture lead wire down through the canopy, then thread the fixture stem into the canopy opening and rotate until fully seated.



- 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.

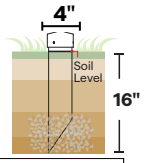
DO NOT COVER THE LUMINAIRE.

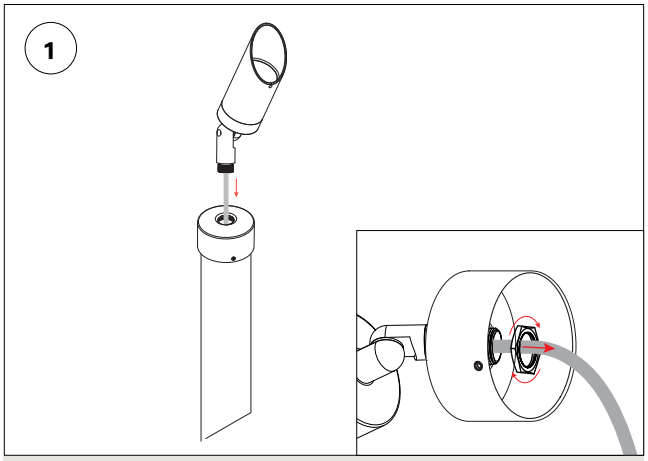
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DIRECT BURIAL

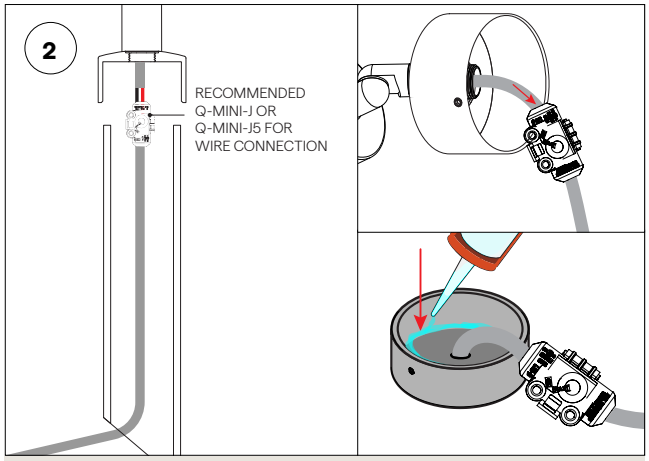
Landscape Lighting Installation Instructions

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

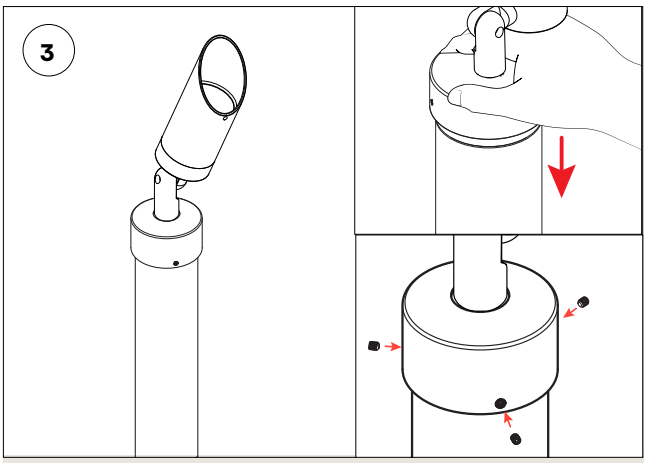




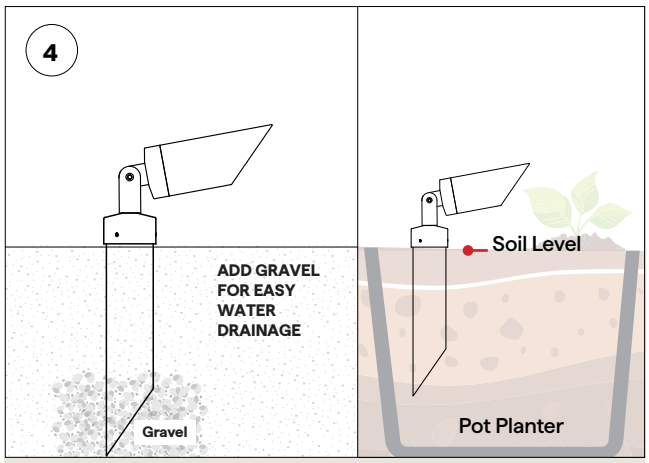
- Feed the fixture lead wire down through the canopy, then thread the fixture stem into the canopy opening and rotate until fully seated.



- 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.

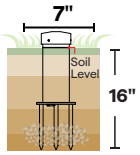
DO NOT COVER THE LUMINAIRE.

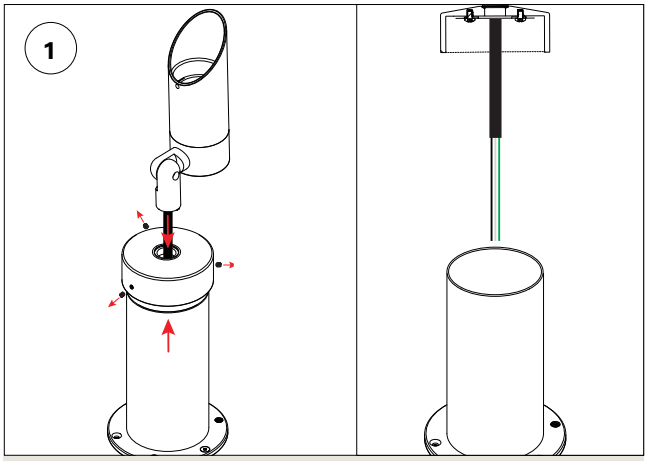
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DIRECT BURIAL

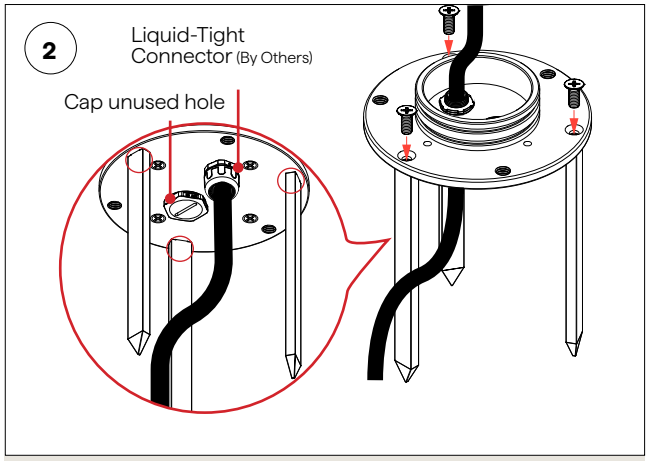
Landscape Lighting Installation Instructions

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

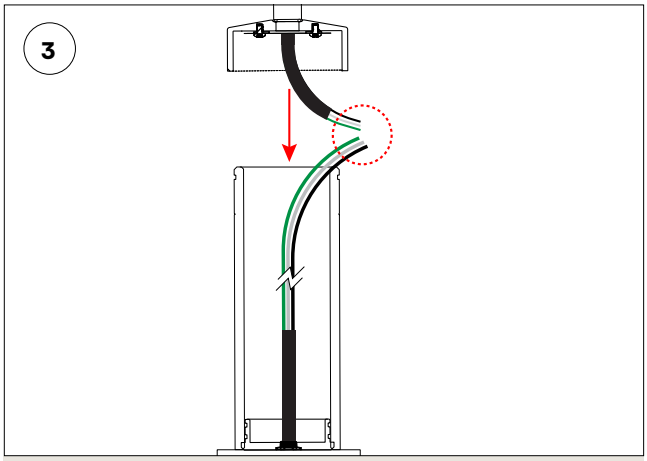




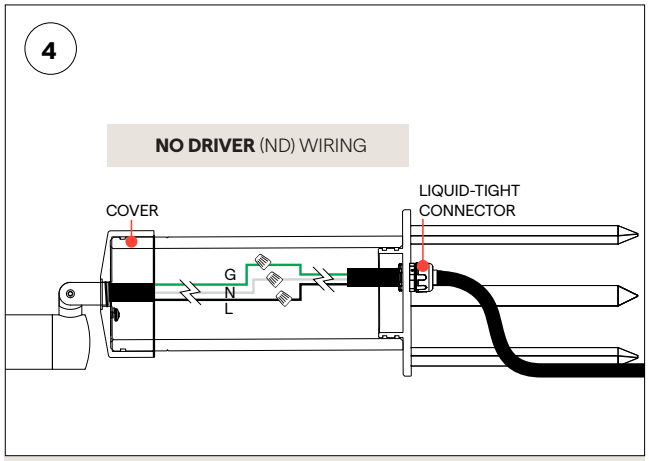
- Remove the set screws, then remove the top cap.
- Install fixture onto canopy.
- Feed the fixture lead wire down through the canopy then thread the fixture into the canopy opening and rotate until fully seated.



- 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.



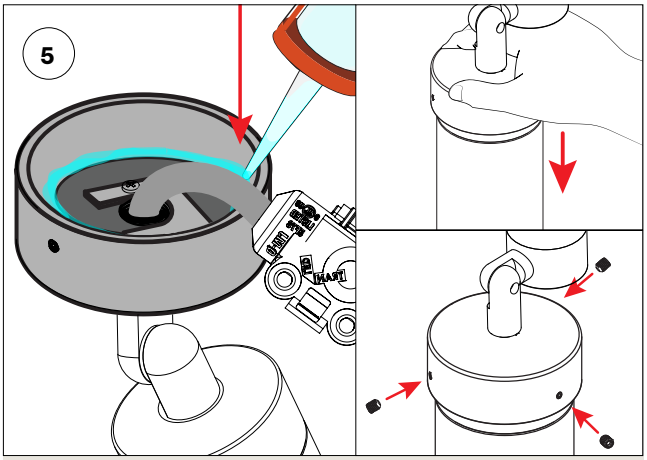
- For ease of splicing, pull the line-voltage wire out of the tube to splice it to the fixture wire using wire nuts (by others) follow luminaire wiring instructions.



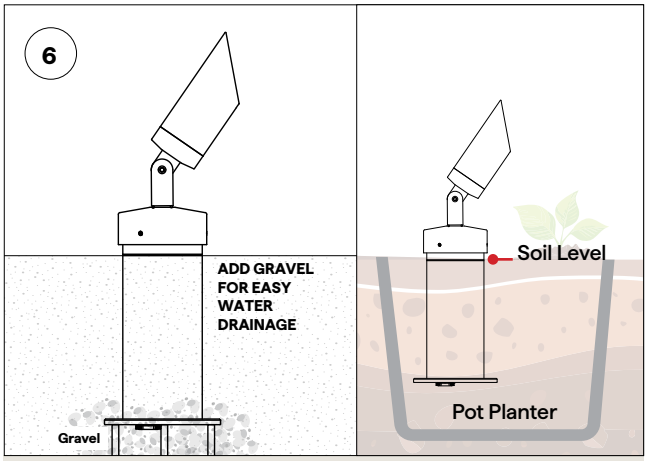
- Visual representation of complete wiring.
- Follow the wiring diagram in the luminaire instructions.

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MOUNTING METHOD: **DIRECT BURIAL - NO DRIVER (ND)**
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.

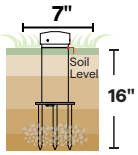


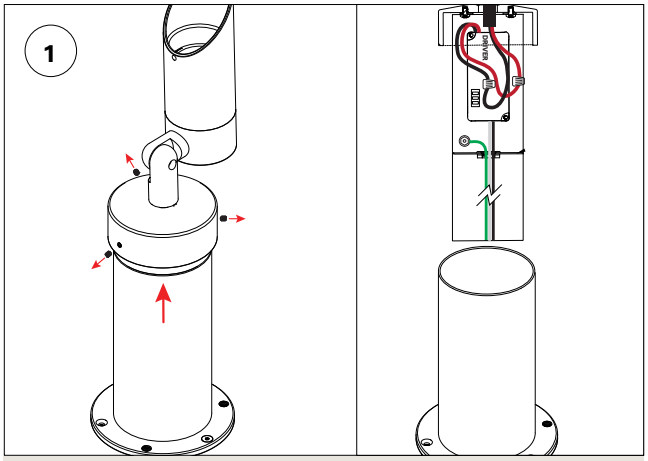
- Add gravel for easy drainage then backfill hole with soil as shown.

DO NOT COVER THE LUMINAIRE.

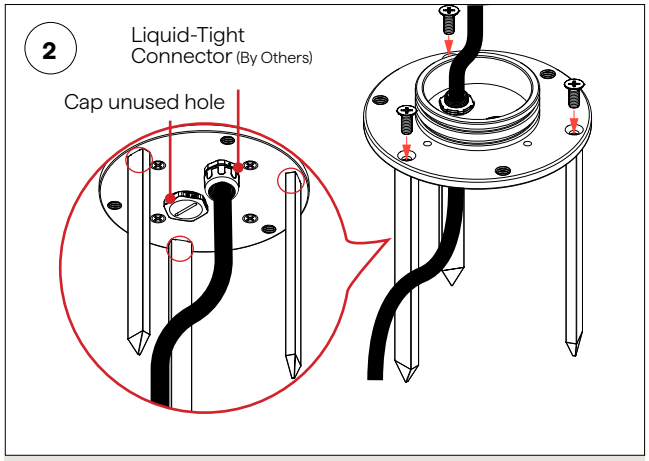
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MOUNTING METHOD: **DIRECT BURIAL - WITH DRIVER (WD)**
Q-MT-48

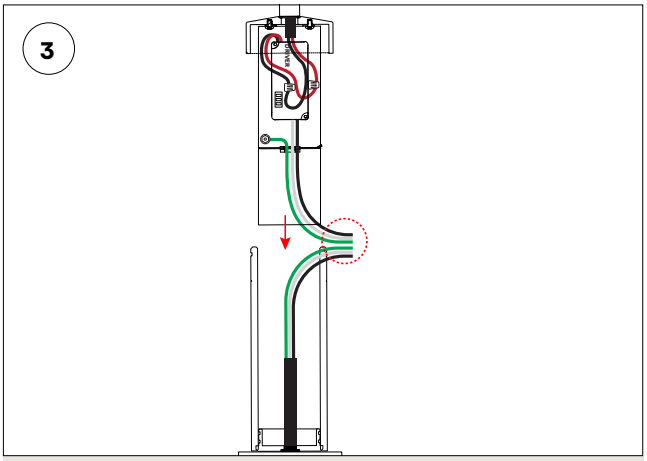




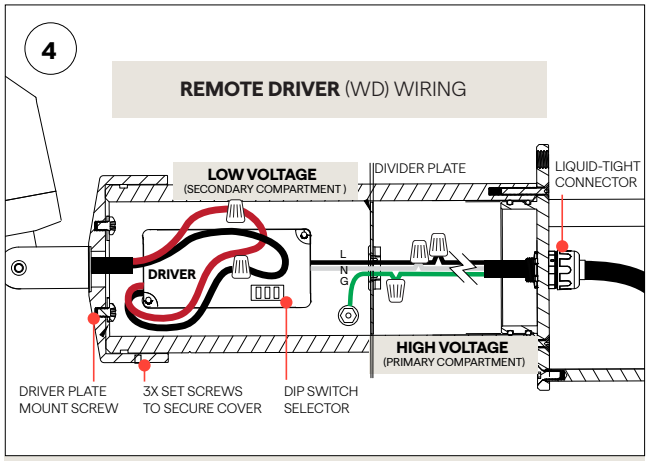
- Remove the set screws, then remove the top cap along with driver attached.



- 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.



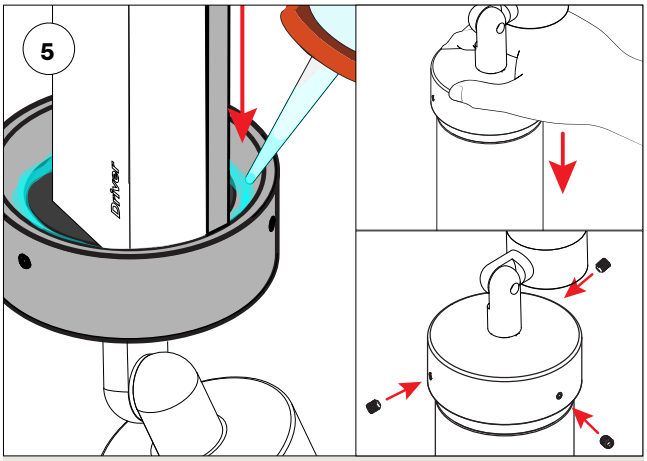
- Visual representation of complete wiring.
- Follow the wiring diagram in the luminaire instructions.

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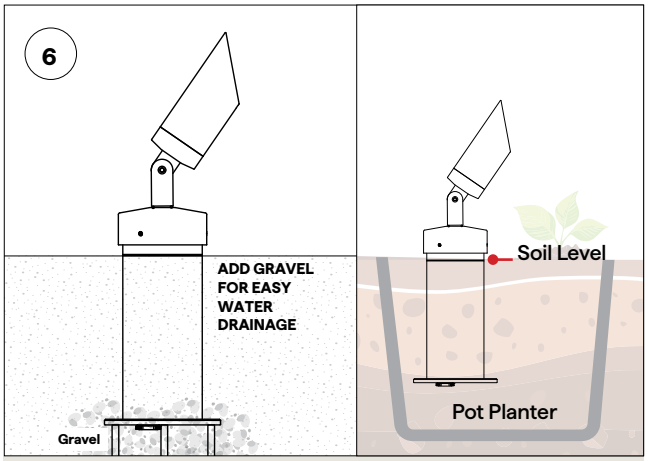
DIRECT BURIAL

Landscape Lighting Installation Instructions

MOUNTING METHOD: **DIRECT BURIAL - WITH DRIVER (WD)**
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.

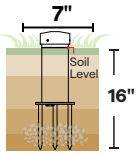


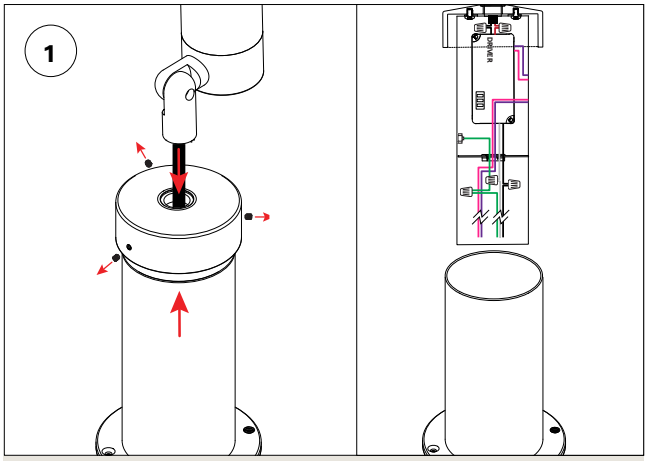
- Add gravel for easy drainage then backfill hole with soil as shown.

DO NOT COVER THE LUMINAIRE.

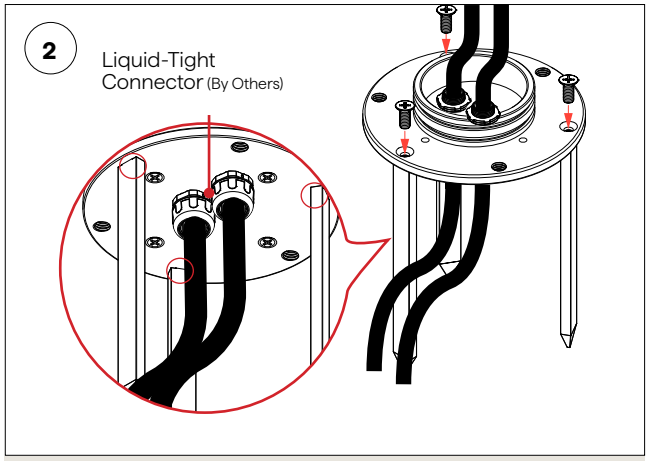
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MOUNTING METHOD: **DIRECT BURIAL - DRIVER WITH DIMMER**
Q-MT-48

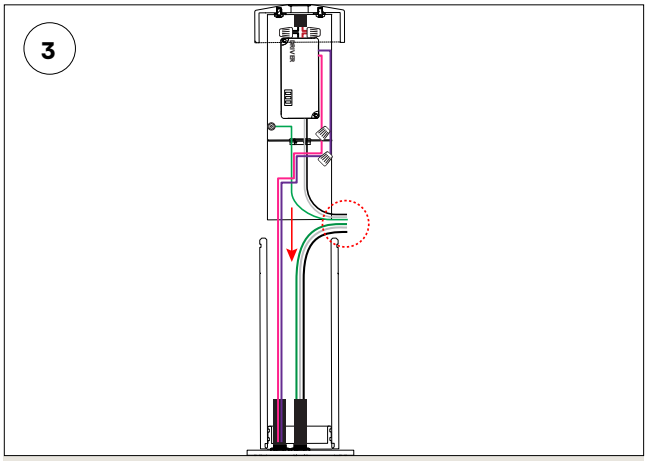




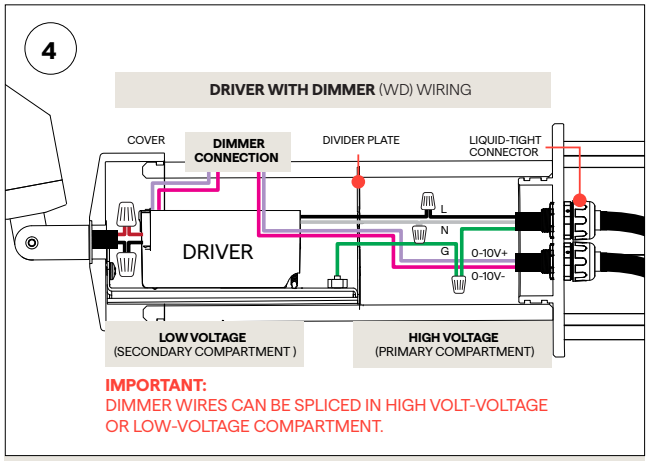
- Remove the set screws, then remove the top cap along with driver attached.



- 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.



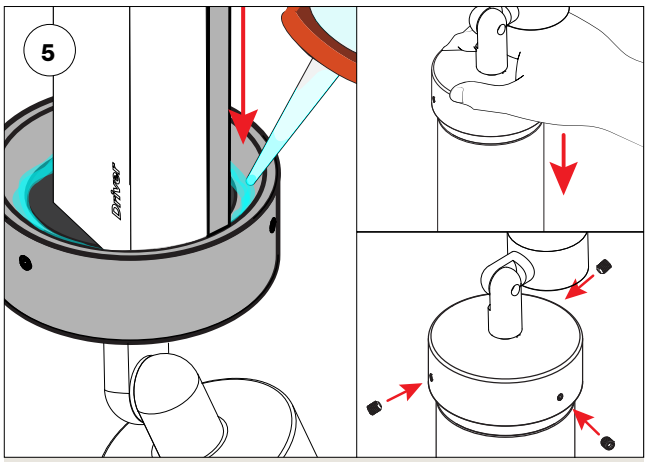
- For ease of splicing, pull the line-voltage wire out of the tube and splice it to the fixture wire using wire nuts (by others) follow luminaire wiring instructions.



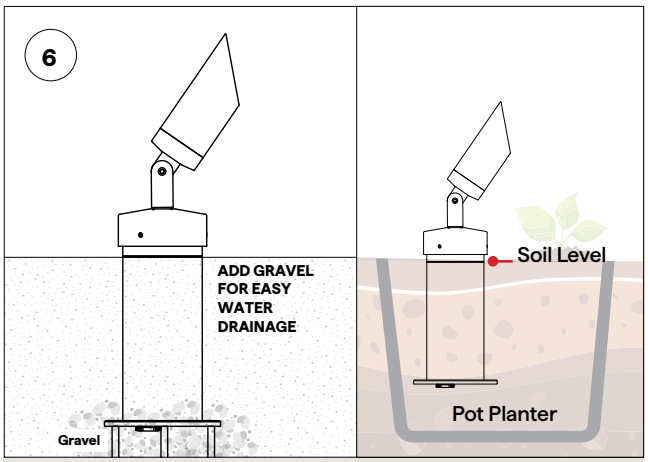
- Visual representation of complete wiring.
- Follow the wiring diagram in the luminaire instructions.

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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.

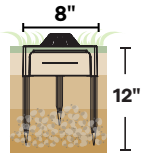
DO NOT COVER THE LUMINAIRE.

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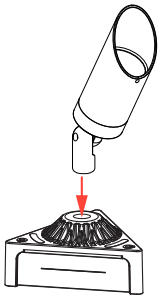
DIRECT BURIAL

Landscape Lighting Installation Instructions

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



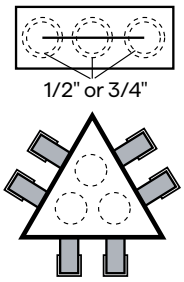
1

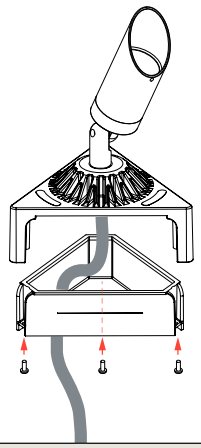


- Remove the cap to expose the 1/2" NPT threads and center knockout (KO), then install the fixture.

IMPORTANT
SQUEEZE SILICONE INTO THE THREADS
BEFORE MOUNTING FIXTURE

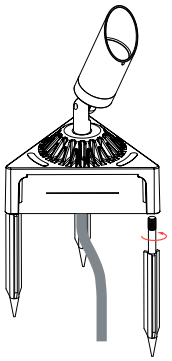
2





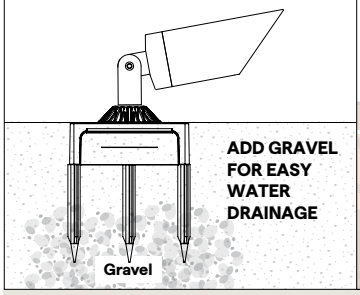
- Complete the wiring and power connection, then secure the bottom of the Q-TRIX unit with the three (3) supplied screws.

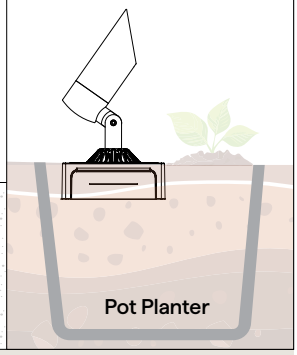
3



- Install the three (3) stakes to the Q-TRIX-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.

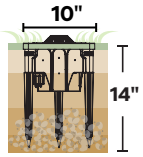
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DIRECT BURIAL

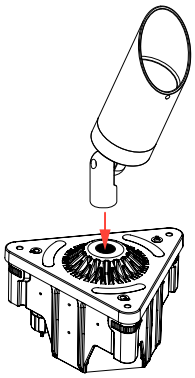
Landscape Lighting Installation Instructions

MOUNTING METHOD: **DIRECT BURIAL - Q-TRIX WITH DRIVER (WD)**

Q-TRIX-R50



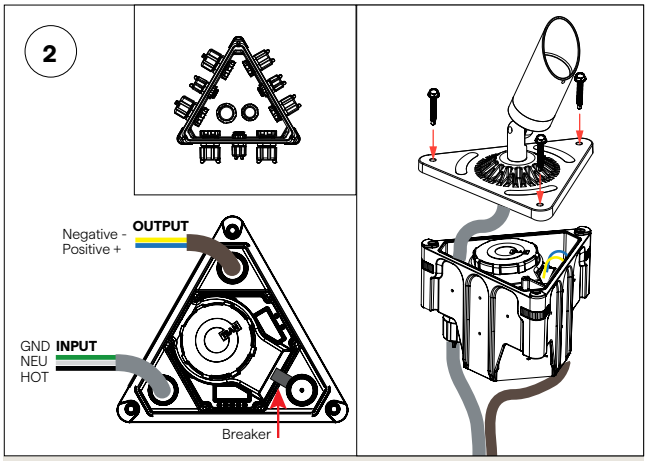
1



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

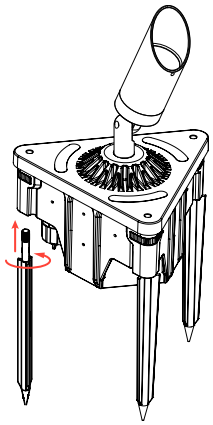
IMPORTANT
SQUEEZE SILICONE INTO THE THREADS
BEFORE MOUNTING FIXTURE

2



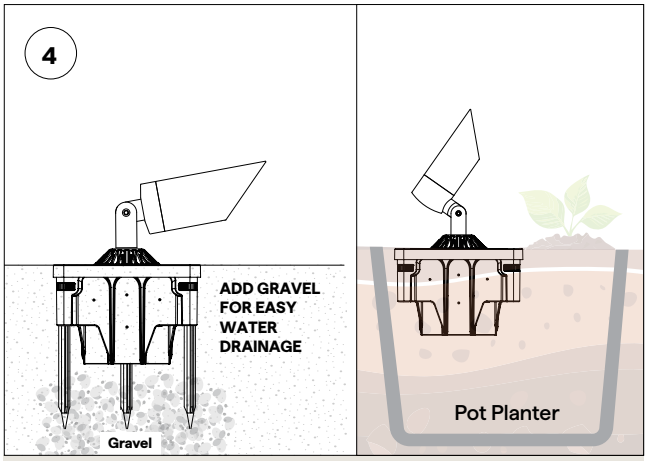
- Complete the wiring and power connection, then secure the bottom of the Q-TRIX unit with the three (3) supplied screws.

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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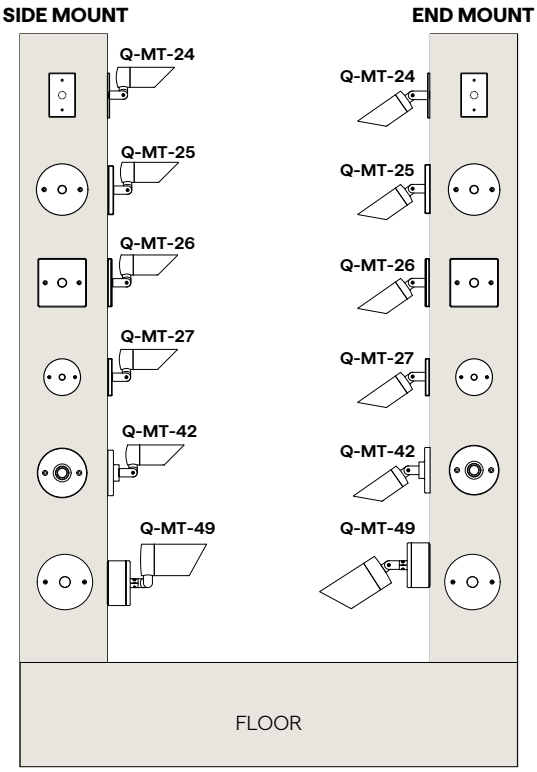
SURFACE & RECESSED J-BOX

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 (ND) (PAGE 4)
- RECESSED J-BOX - NO DRIVER (ND) (PAGE 5)
- RECESSED J-BOX - 120V DRIVER (WD) (PAGE 6)

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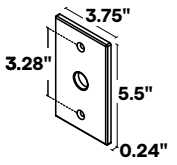
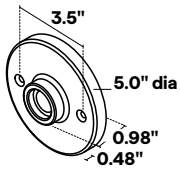
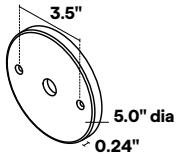
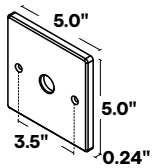
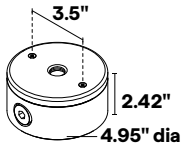
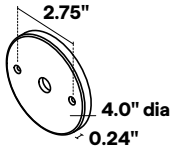
LUMINAIRE & MOUNT COMPATIBILITY

	Q-MT-24	Q-MT-25	Q-MT-26	Q-MT-27	Q-MT-42	Q-MT-49BF (ND)	Q-MT-49BF (WD)	Q-MT-49SF (ND)	Q-MT-49SF (WD)
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		✓	✓	✓					

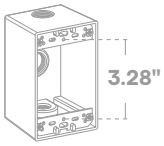
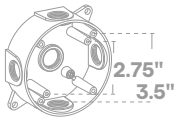
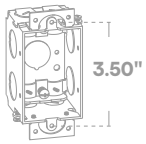
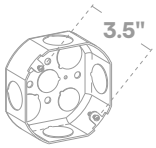
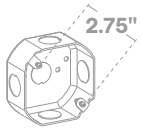
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SURFACE & RECESSED J-BOX

Landscape Lighting Installation Instructions

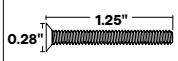
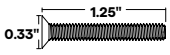
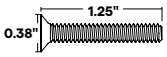
SURFACE/WALL J-BOX PLATES		RECESSED J-BOX PLATES			
Q-MT-24	**Q-MT-42**	**Q-MT-25**	**Q-MT-26**	**Q-MT-49**	**Q-MT-27**
				 With Water Protection	

RECOMMENDED JUNCTION BOXES (BY OTHERS)

				
6-32x1.25"	10-24x 1.25"	6-32×1.25"	8-32x1.25"	8-32x1.25"
SINGLE GANG WEATHERPROOF J-BOX	4/O WEATHERPROOF J-BOX	SINGLE GANG RECESSED J-BOX	4/O RECESSED J-BOX	3/O RECESSED J-BOX

COMPONENTS & HARDWARE

PROVIDED HARDWARE

			
6-32x1.25"	8-32x1.25"	10-24x 1.25"	10-32x3/16"
FLAT HEAD SCREW	FLAT HEAD SCREW	FLAT HEAD SCREW	SET SCREW

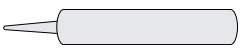
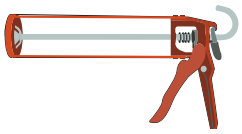
#PN	QTY
Q-MT-24	2
Q-MT-49	2

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

#PN	QTY
Q-MT-42	2

#PN	QTY
Q-MT-42	1

SUGGESTED TOOLS/MATERIALS

		
1/2-14 NPS HEX NUT	Waterproof Silicone	
HEX NUT / JAM NUT	ALL PURPOSE SILICONE	CAULKING GUN

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

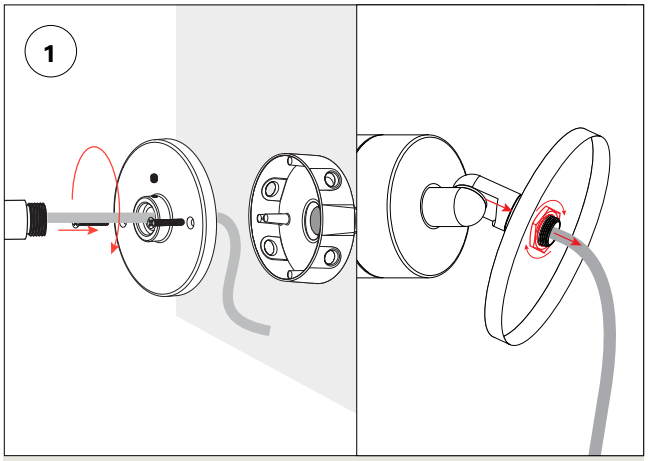
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SURFACE & RECESSED J-BOX

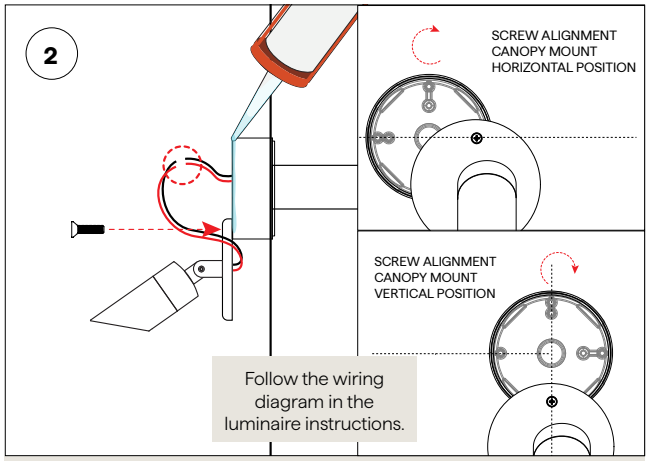
Landscape Lighting Installation Instructions

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

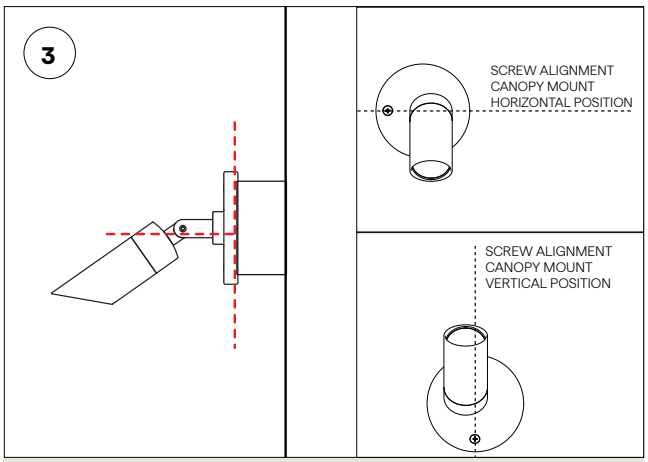
Q-MT-24, Q-MT-42



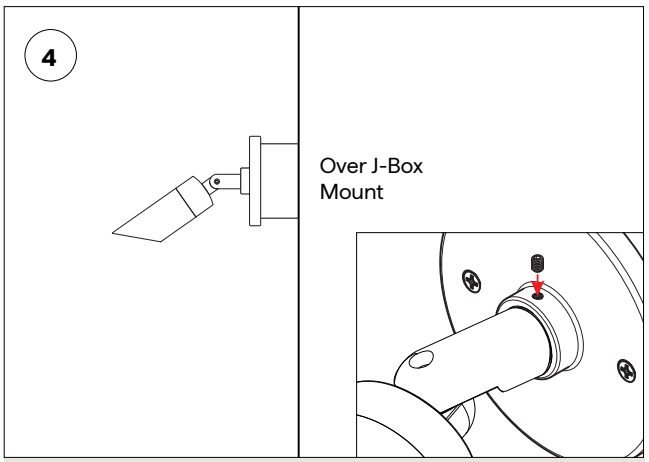
- Prepare the J-BOX by removing knockouts for wire entry
- Install the surface-mount J-BOX on the wall following the manufacturer's instructions.
- Bring the power supply wires through the J-BOX connectors.
- Q-MT-42: Install the fixture onto the canopy and screw it on until seated.
- Q-MT-24: Install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

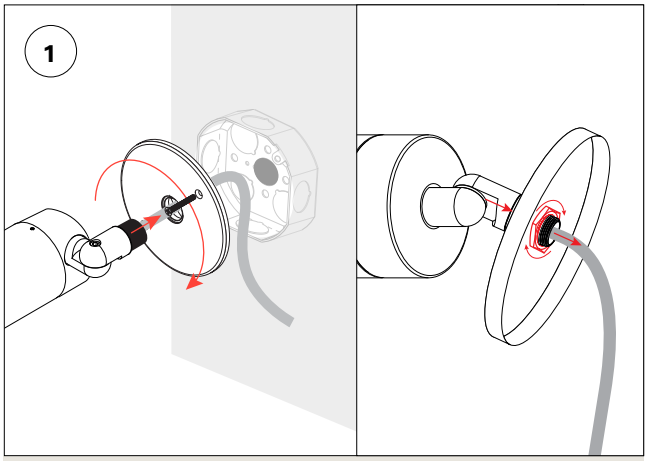


- Q-MT-42: The fixture can be rotationally adjusted slightly with the provided set screw on the canopy. Other canopies do not have this feature.
- Installation complete.

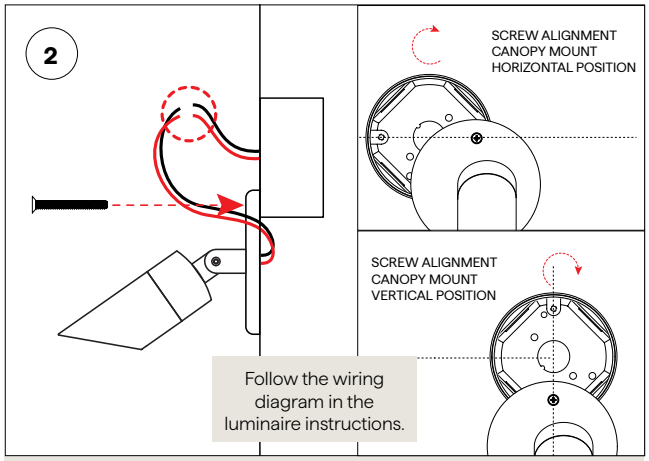
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MOUNTING METHOD: **RECESSED J-BOX - NO DRIVER (ND)**

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

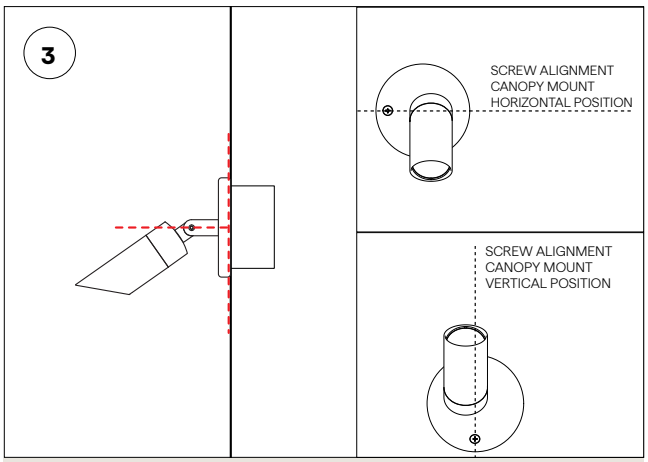


- Prepare the J-BOX by removing knockouts for wire entry.
- Install the recessed J-BOX behind the surface following the manufacturer's instructions.
- Bring the power supply wires through the J-BOX connectors.
- Q-MT-49: Install the fixture onto the canopy and screw it on until seated.
- Q-MT-25, Q-MT-26,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

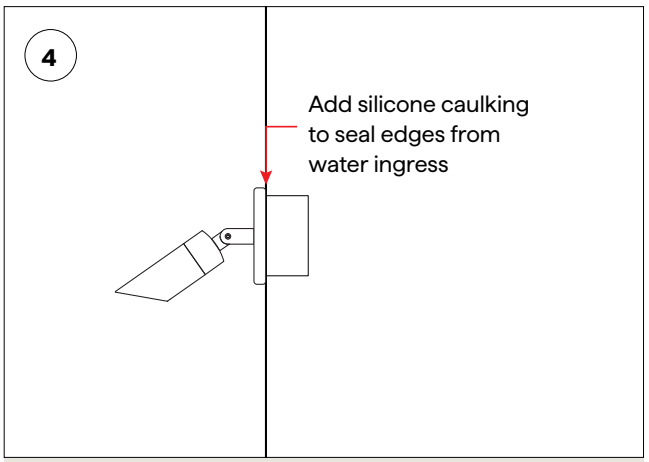


- Mount one side of the canopy with the provided screws.
- Cut the wires to length as needed and splice the fixture and J-BOX wires together.

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.

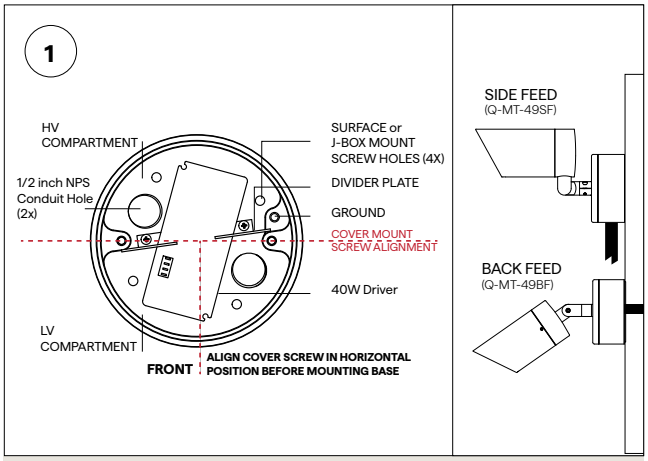
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SURFACE & RECESSED J-BOX

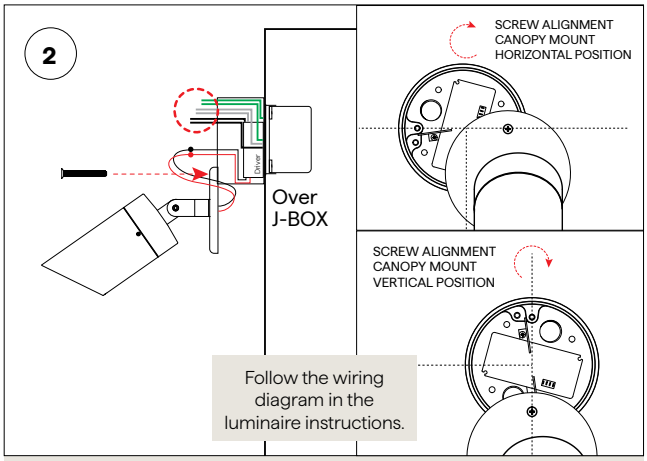
Landscape Lighting Installation Instructions

MOUNTING METHOD: **RECESSED J-BOX - 120V DRIVER (WD)**

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

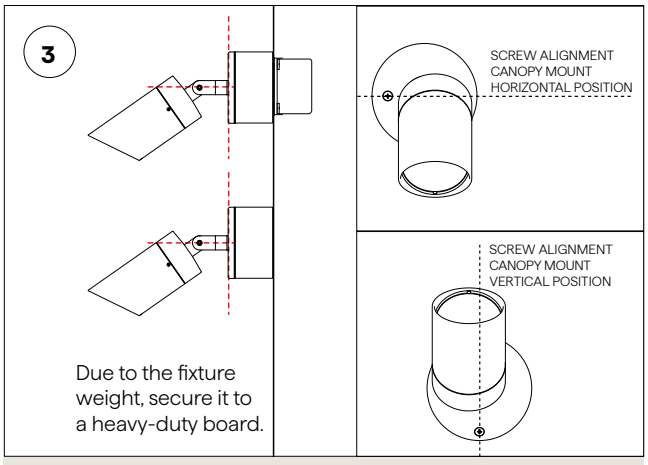


- Prepare the J-BOX by removing knockouts for wire entry.
- Install the recessed J-BOX behind the surface following the manufacturer's instructions.
- Bring the power supply wires through the J-BOX connectors.

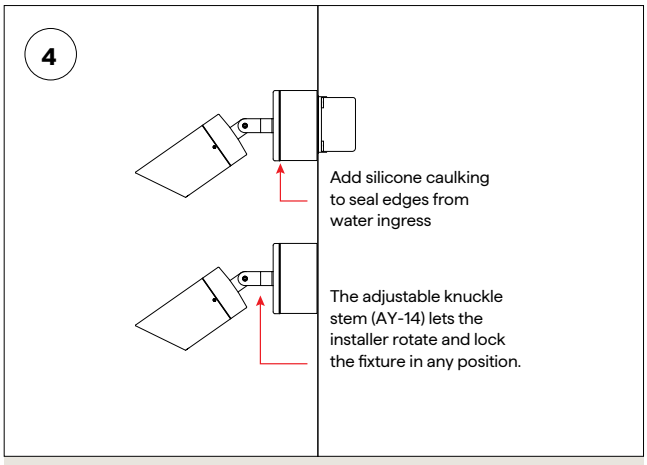


- Remove one canopy screw and rotate the canopy to access the wire compartment.
- Mount the VOYA 3.5" base (Q-MT-49) to the recessed J-BOX using the manufacturer's suggested hardware.
- Cut the wires to length as needed and splice the fixture and power supply / dimming wires together. (Reference the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

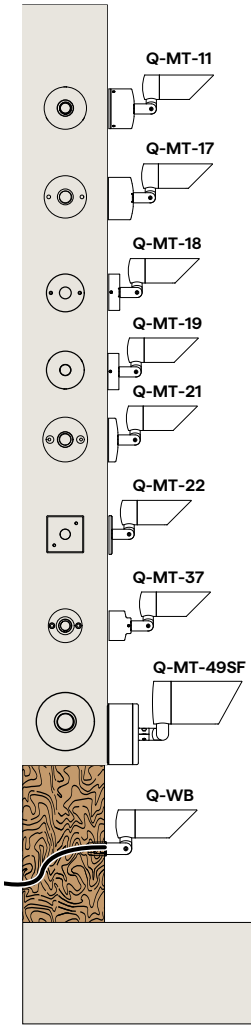
Landscape Lighting Installation Instructions

ATTENTION: Please read all instructions BEFORE installation

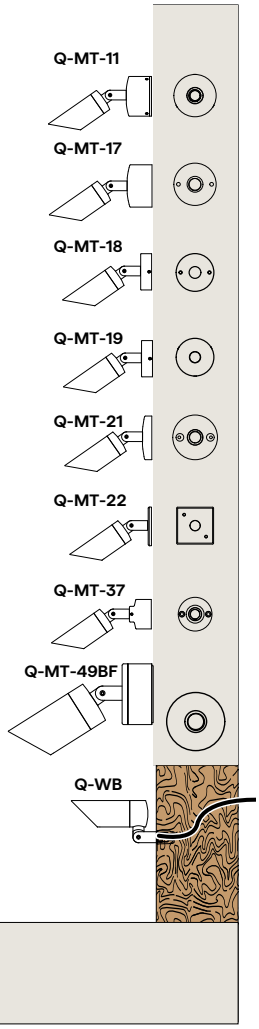
- Product must be installed by a licensed electrician. Field modifications void the warranty.
- Warranty is valid only with QTL power supplies.
- Diagrams are for representation only and are not to scale.
- Apply silicone around the edge of the canopy for additional water protection.
- Ensure the mounting 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 (ND) (PAGE 4-5)
- SURFACE/WALL - WITH DRIVER (WD) (PAGE 6)
- WOOD BEAM (PAGE 7)

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LUMINAIRE & MOUNT COMPATIBILITY

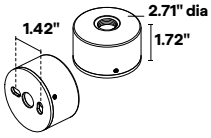
	Q-MT-11	Q-MT-17	Q-MT-18	Q-MT-19	Q-MT-21	Q-MT-22	Q-MT-37	Q-MT-49BF (ND)	Q-MT-49BF (WD)	Q-MT-49SF (ND)	Q-MT-49SF (WD)	Q-WB
VOYA-EM-1.75-MR11-12VAC	✓	✓	✓	✓	✓	✓	✓					✓
VOYA-EM/SM-2.5	✓	✓	✓	✓	✓	✓	✓					✓
VOYA-EM/SM-3.0-PAR20/GU10								✓		✓		
VOYA-EM/SM-3.5-COB-120VAC									✓		✓	
Excelsior DL-6	✓				✓							
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

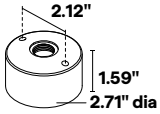
Landscape Lighting Installation Instructions

Q-MT-11

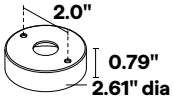


With Water Protection

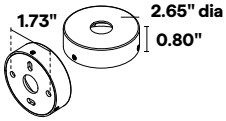
Q-MT-17



Q-MT-18

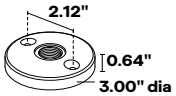


Q-MT-19

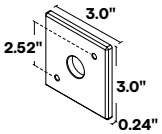


With Water Protection

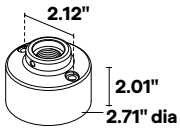
Q-MT-21



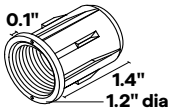
Q-MT-22



Q-MT-37

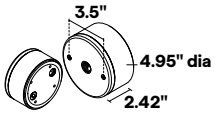


Q-WB



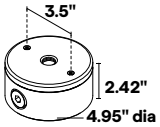
Wood Beam Mount

Q-MT-49BF



With Water Protection

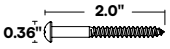
Q-MT-49SF



With Water Protection

COMPONENTS & HARDWARE

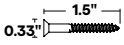
PROVIDED HARDWARE



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

#10-3/16x2"

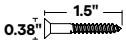
ROUND HEAD SCREW



#PN	QTY
Q-MT-21	2

#8-3/16x1.5"

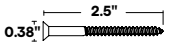
FLAT HEAD SCREW



#PN	QTY
Q-MT-22	2

#10-3/16x1.5"

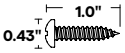
FLAT HEAD SCREW



#PN	QTY
Q-MT-37	2

#10-3/16x2.5"

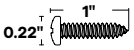
FLAT HEAD SCREW



#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"

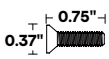
ROUND HEAD SCREW



#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

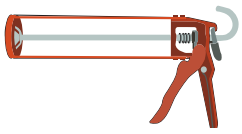
HEX NUT / JAM NUT

SUGGESTED TOOLS/MATERIALS



Waterproof Silicone

ALL PURPOSE SILICONE

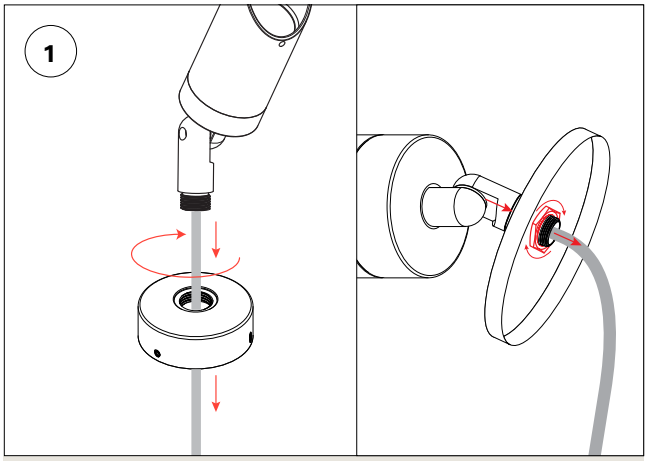


CAULKING GUN

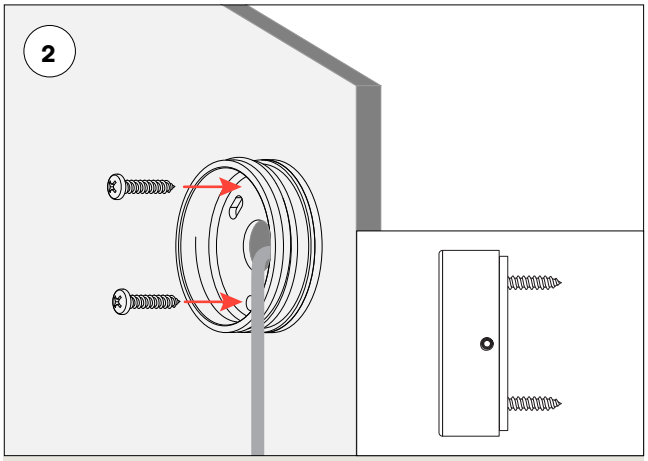
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MOUNTING METHOD: **SURFACE/WALL - NO DRIVER (ND)**

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

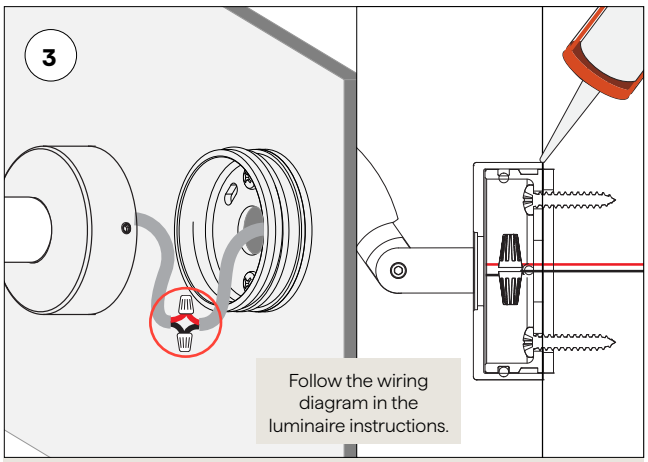


- Feed the fixture lead wire down through the canopy.
- Q-MT-11, Q-MT-17, Q-MT-21, Q-MT-37: Install the fixture onto the canopy and screw it on until seated.
- Q-MT-18, Q-MT-19, Q-MT-22: Install the fixture onto the canopy and secure it with the provided jam nut.



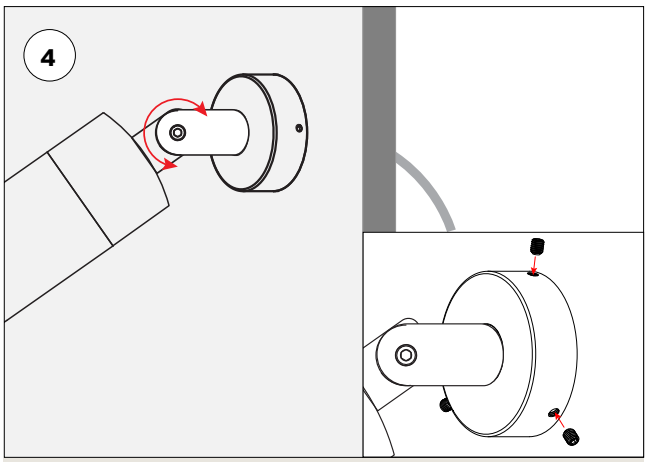
- Align the mounting screw holes in the vertical or horizontal position before mounting the base/canopy.
- Hold the base/canopy against the mounting surface and secure it with the two provided screws. Confirm the surface is level and can support the fixture weight.

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.*

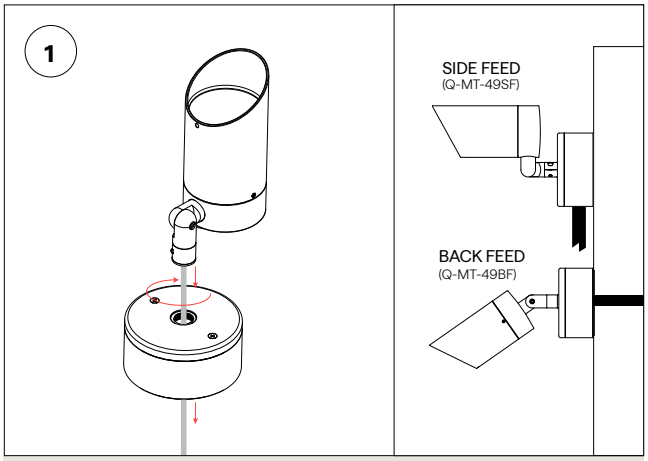


- Q-MT-37: The fixture can be rotationally adjusted slightly with the provided set screw on the canopy. Other canopies do not have this feature.
- Q-MT-11, Q-MT-19: Tighten the provided set screws to secure the fixture in place.
- Installation complete.

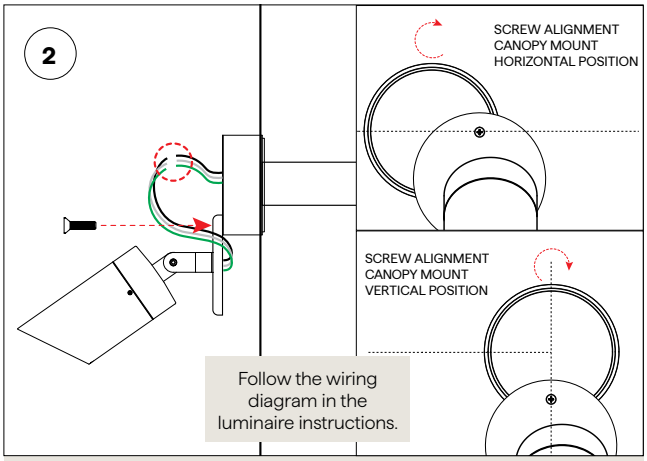
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MOUNTING METHOD: **SURFACE/WALL - NO DRIVER (ND)**

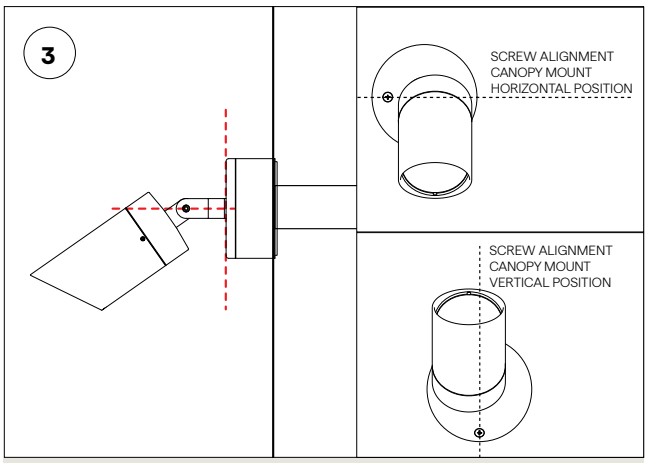
Q-MT-49BF, Q-MT-49SF



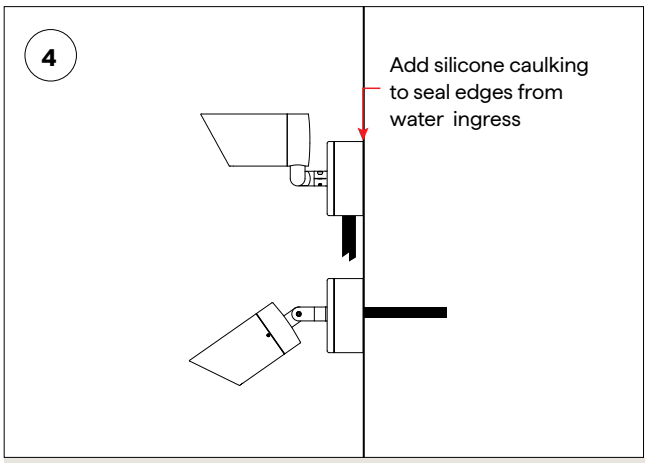
- Remove one canopy screw and rotate the canopy to access the wire compartment.
- Back feed (Q-MT-49BF): Feed the wire through the Q-MT-49 base knockout. Connect per NEC code.
- Side feed (Q-MT-49SF): Feed the wire through the Q-MT-49 base knockout. Connect per NEC code.
- Mount the Q-MT-49 base onto 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.

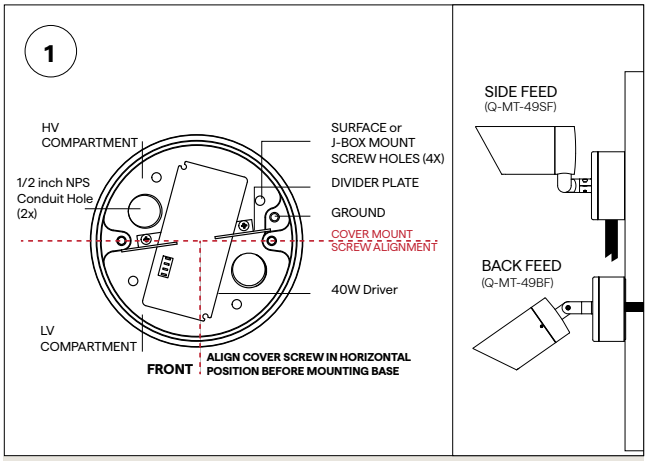
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SURFACE/WALL

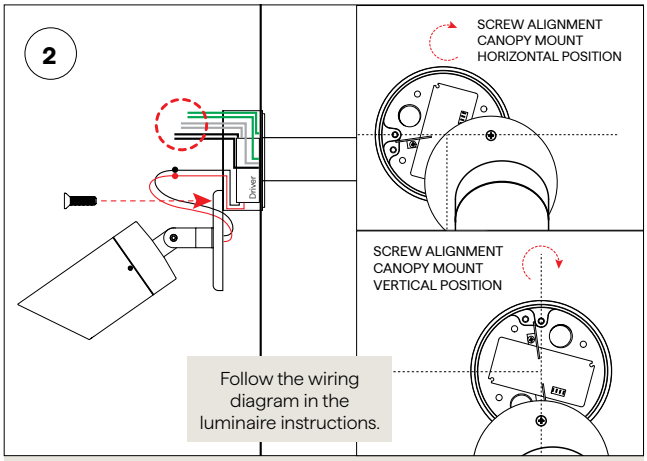
Landscape Lighting Installation Instructions

MOUNTING METHOD: **SURFACE/WALL - 120V DRIVER (WD)**

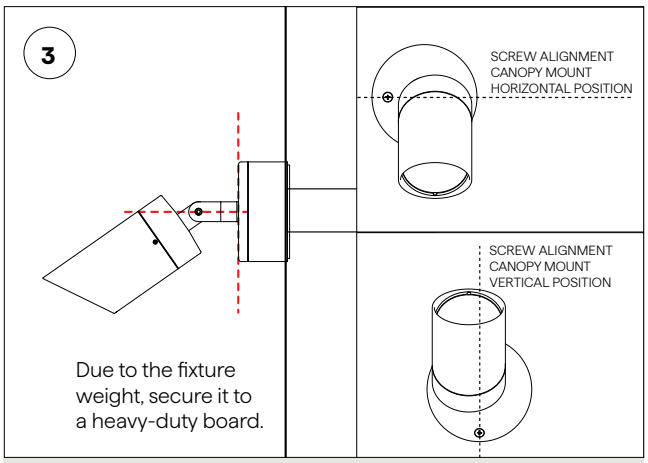
Q-MT-49BF, Q-MT-49SF



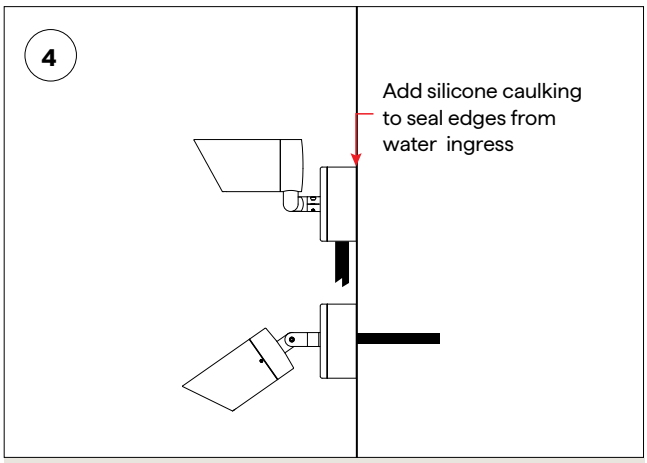
- Remove one canopy screw and rotate the canopy to access the wire compartment.
- Back feed (Q-MT-49BF): Feed the wire through the Q-MT-49 base knockout. Connect per NEC code.
- Side feed (Q-MT-49SF): Feed the wire through the Q-MT-49 base knockout. Connect per NEC code.
- Mount the Q-MT-49 base onto 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.)



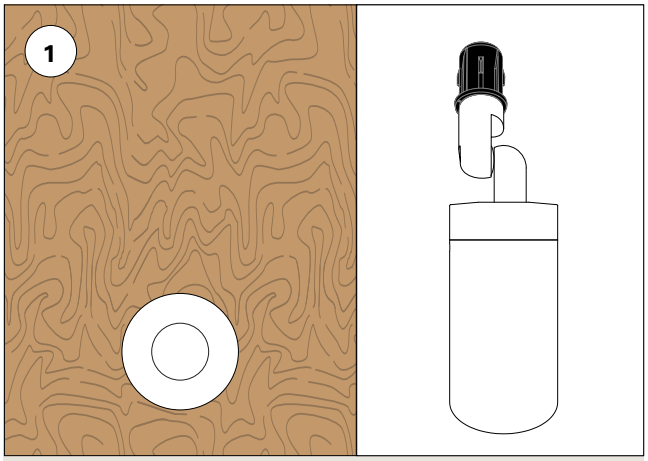
- Tuck the excess wires into the Q-MT-49 base, rotate the canopy back into position, and secure it with the provided screw.



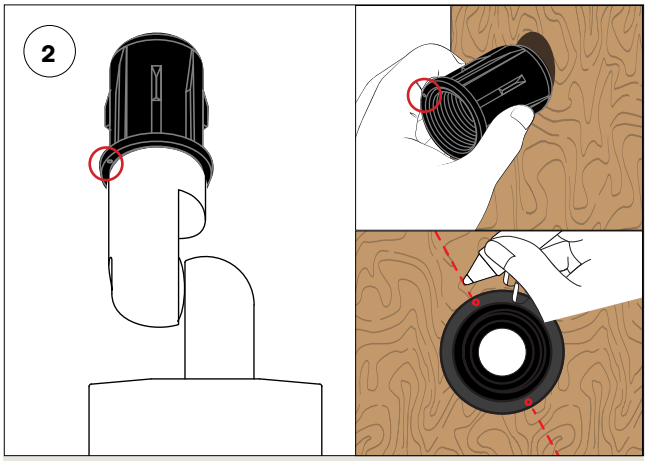
- Add additional silicone caulking for extra protection against water ingress.
- Installation complete.

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MOUNTING METHOD: **WOOD BEAM - NO DRIVER (ND)**
Q-WB

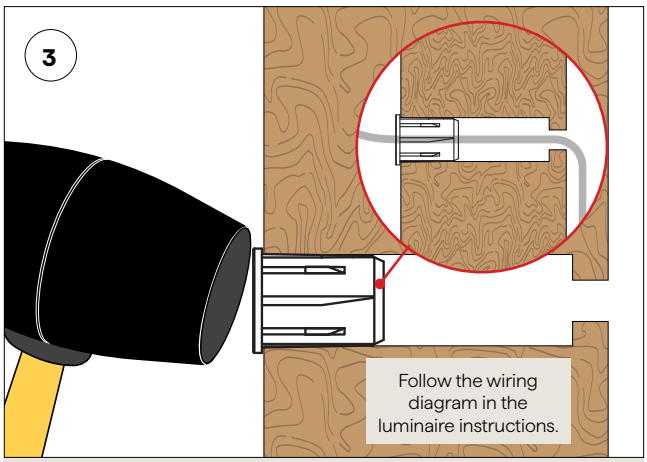


- Drill a 1" diameter hole, 3" deep. Then drill a wire access hole to route the fixture cable through the wood beam.
- Rotate the fixture into the Q-WB mount until fully seated.

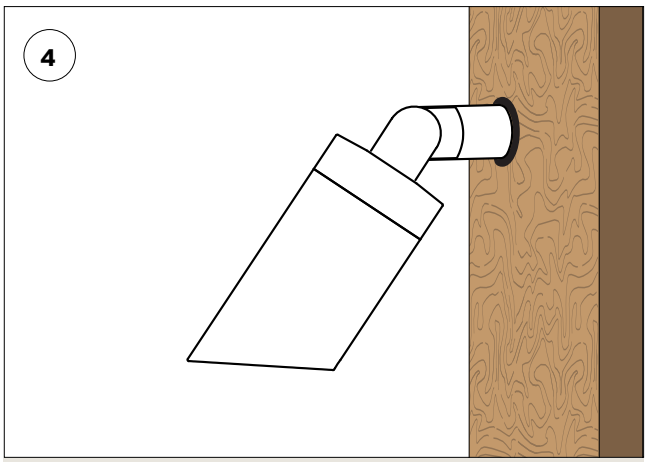


- Orient the fixture in the desired position, then use the indicator dots as reference markers to mark the final fixture position.
- Remove the fixture from the Q-WB mount then proceed to step 3.

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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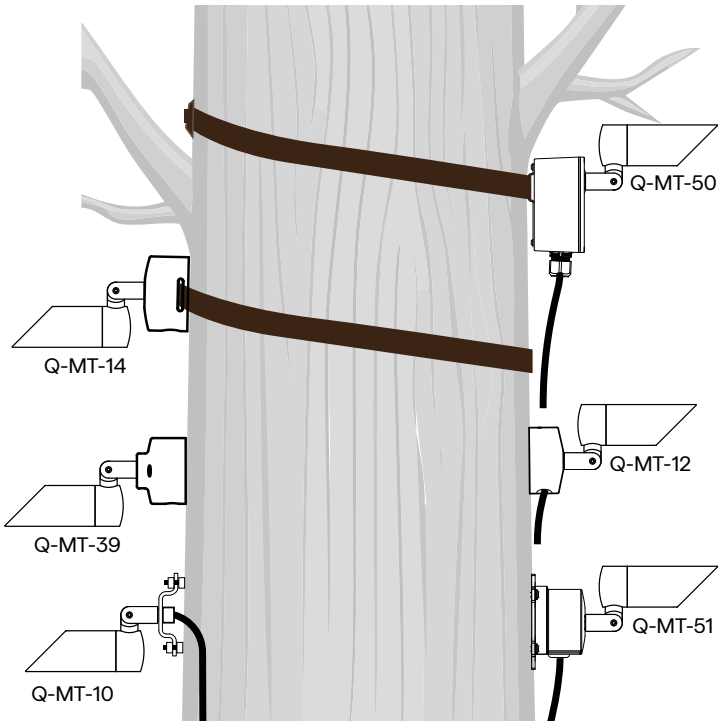
TREE MOUNT

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 (ND) (PAGE 3-4)
- TREE MOUNT - 120V DRIVER (WD) (PAGE 5)

LUMINAIRE & MOUNT COMPATIBILITY

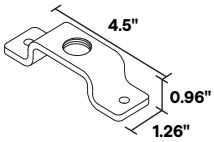
	Q-MT-10	Q-MT-12	Q-MT-14	Q-MT-39	Q-MT-50 (ND)	Q-MT-50 (WD)	Q-MT-51
VOYA-EM-1.75-MR11-12VAC	✓	✓	✓	✓	✓		✓
VOYA-EM/SM-2.5	✓	✓	✓	✓	✓		✓
VOYA-EM/SM-3.0-PAR20/GU10					✓		✓
VOYA-EM/SM-3.5-COB-120VAC						✓	

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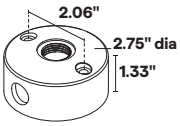
TREE MOUNT

Landscape Lighting Installation Instructions

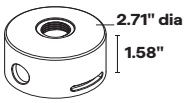
Q-MT-10



Q-MT-12

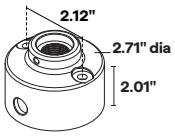


Q-MT-14

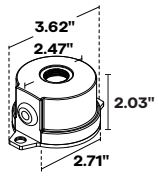


With Tree Strap

Q-MT-39

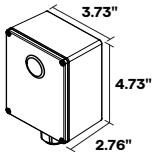


Q-MT-51



With Water Protection

Q-MT-50

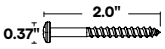


With Water Protection & Tree Strap

ND (No Driver) | WD (With Driver)

COMPONENTS & HARDWARE

PROVIDED HARDWARE



#PN	QTY
Q-MT-12	2

#10-3/16x2"

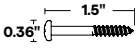
PHILLIPS ROUND HEAD SCREW



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

6-32x0.5"

FLAT HEAD SCREW



#PN	QTY
Q-MT-51	2

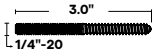
#10-3/16x1.5"

PHILLIPS ROUND HEAD SCREW



1/4-20 NUT

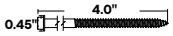
#PN	QTY
Q-MT-10	4



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

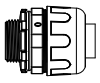


#PN	QTY
Q-MT-14	1
Q-MT-50	1

Nylon Strap Ratchet

TREE MOUNT STRAP

RECOMMENDED HARDWARE



#PN	QTY
Q-MT-50	1

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

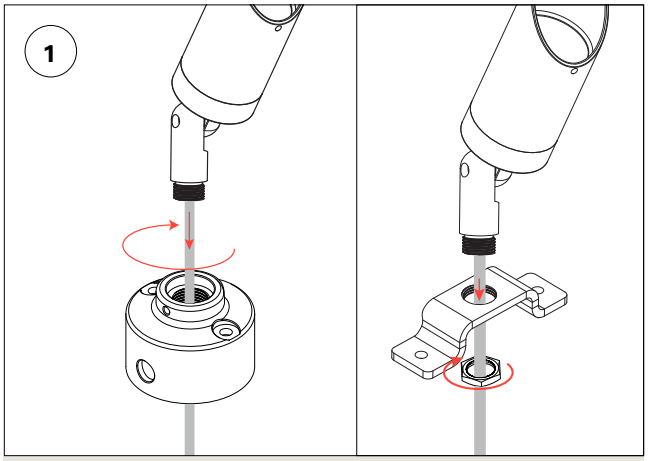
CONDUIT CONNECTOR

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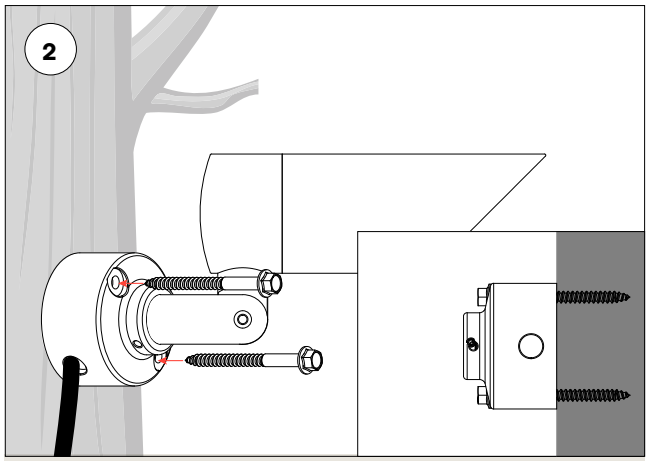
TREE MOUNT

Landscape Lighting Installation Instructions

MOUNTING METHOD: **TREE MOUNT - NO DRIVER (ND)**
Q-MT-10, Q-MT-12, Q-MT-14, Q-MT-39, Q-MT-51

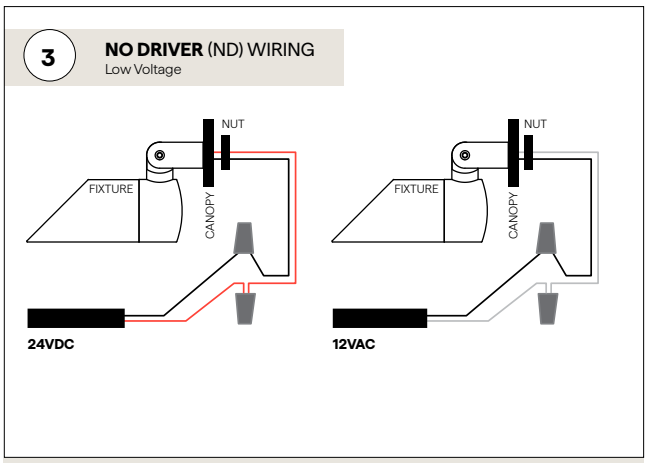


- Feed the fixture lead wire down through the canopy.
- Q-MT-12, Q-MT-14, Q-MT-39, Q-MT-51: Install the fixture onto the canopy and screw it on until seated.
- Q-MT-10: Install the fixture onto the canopy and secure it with the provided jam nut.

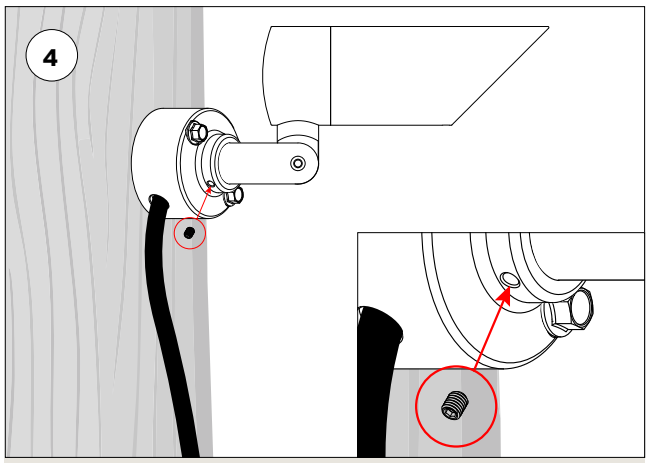


- Align the mounting screw holes in the vertical or horizontal position before mounting the base/canopy.
- Hold the base/canopy against the mounting surface and secure it with the two provided screws.

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).



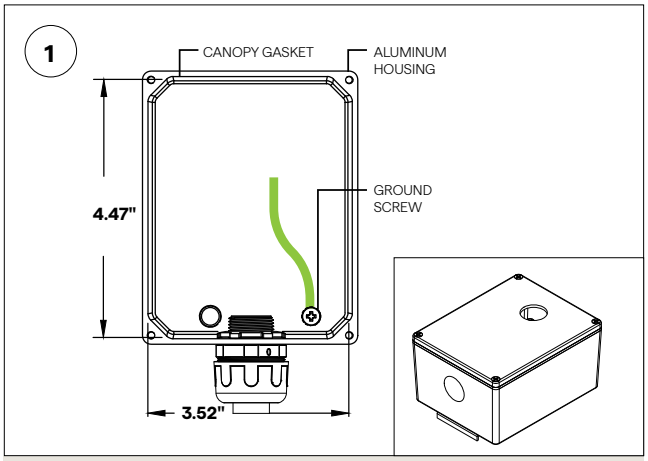
- Q-MT-39: After installation, the fixture can be rotationally adjusted slightly with the provided set screw on the canopy. Other canopies do not have this feature.
- Installation complete.

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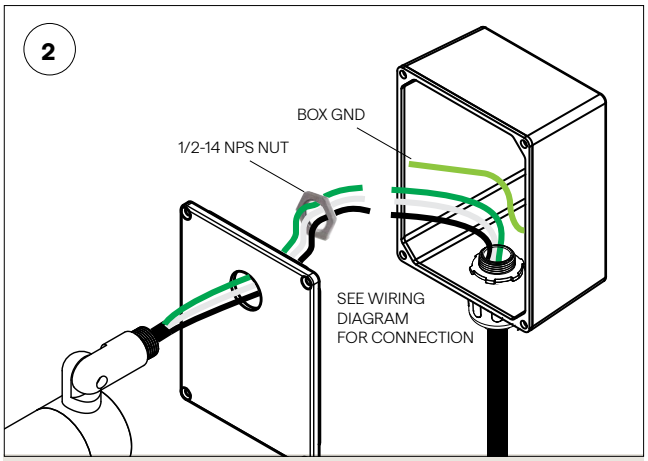
TREE MOUNT

Landscape Lighting Installation Instructions

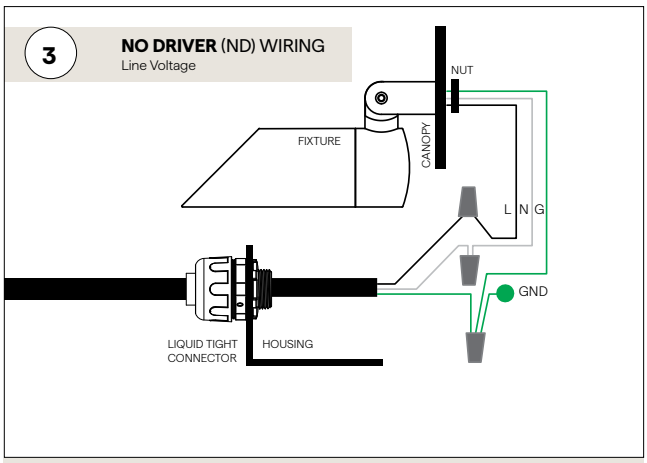
MOUNTING METHOD: **TREE MOUNT - NO DRIVER (ND)**
Q-MT-50



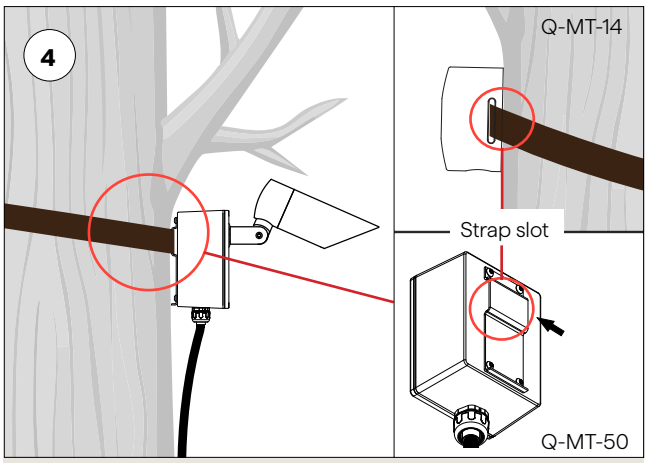
- Remove the four (4) canopy screws and lift off the canopy gasket. Route the power supply cable into the housing through recommended liquid-tight connector.



- 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).



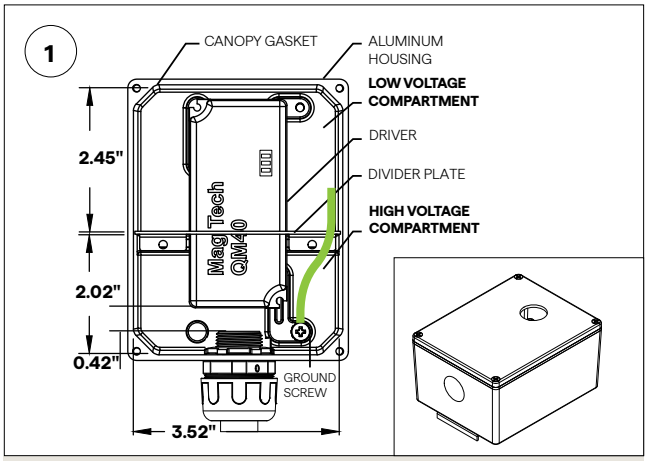
- Weave the tree strap through the slot on the back of the housing, wrap it around the tree, and tighten it with the ratchet until secure. **DO NOT OVERTIGHTEN** — overtightening can damage the tree.
- Installation complete.

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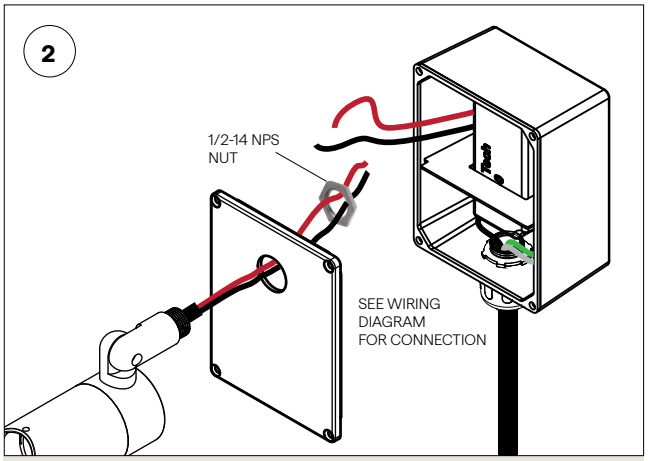
TREE MOUNT

Landscape Lighting Installation Instructions

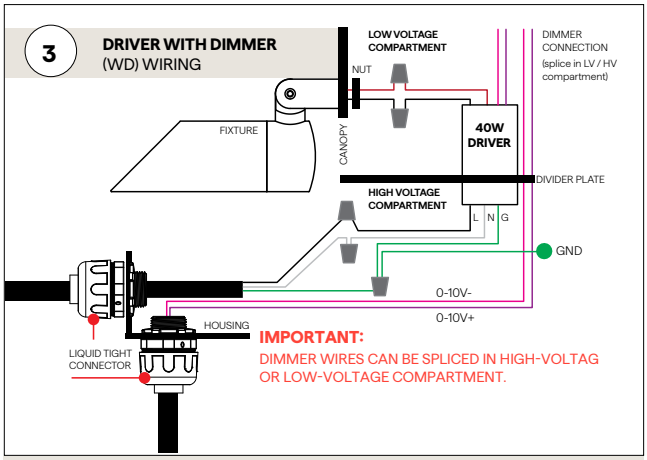
MOUNTING METHOD: **TREE MOUNT - 120V DRIVER (WD)**
Q-MT-50



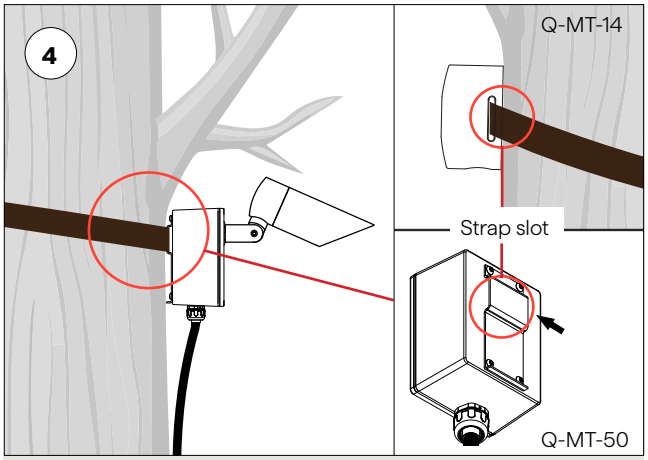
- Remove the four (4) canopy screws and lift off the canopy and gasket. The divider plate separates the HIGH-VOLTAGE (HV) and LOW-VOLTAGE (LV) compartments; the lower part of the 40W driver has the line-voltage wires. Bring the 120V cable into the HV compartment through the liquid-tight connector and 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 2.5" COB AMBER

Landscape Lighting Color Data

VOYA-2.5-COB-12VAC-A-ST-**-A-FL-COB-20-**-**-07

1036 K

CRI: 9.1

CRI R9: -251.4

TM30 Rf: 0.0

TM30 Rg: n/a

CQS: 3.8

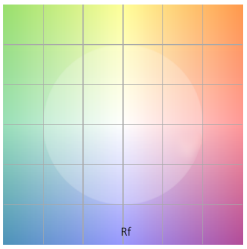
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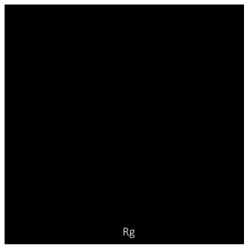
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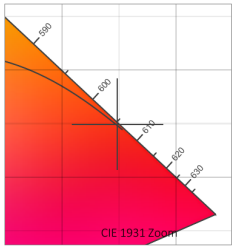
U: 0.440

V: 0.356

Δuv: 0.0003







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
7.9	77.4	24.5	-29.3	-2.8	88.4	-1.5	-91.9	-251.4	69.0	-24.0	76.6	28.3	57.5	-35.3
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
1.3	17.4	18.3	11.5	7.2	3.8	2.0	8.0	17.1	14.8	5.0	2.0	0.8	0.0	0.1
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

VOYA-2.5-COB-12VAC-A-ST-**-A-FL-COB-26-**-**-07

1037 K

CRI: 9.3

CRI R9: -251.2

TM30 Rf: 0.0

TM30 Rg: n/a

CQS: 5.2

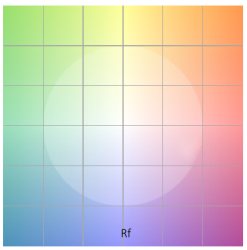
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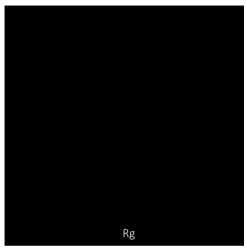
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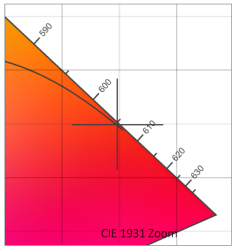
U: 0.440

V: 0.356

Δuv: 0.0002







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
8.1	77.5	24.6	-29.0	-2.4	88.5	-1.5	-91.8	-251.2	69.2	-23.5	76.8	28.6	57.6	-35.1
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
0.9	17.2	20.7	13.7	8.9	4.9	2.2	6.6	16.4	19.8	9.6	5.6	3.0	0.0	0.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

VOYA-2.5-COB-12VAC-A-ST-**-A-FL-COB-40-**-**-07

1035 K

CRI: 8.9

CRI R9: -252.1

TM30 Rf: 0.0

TM30 Rg: n/a

CQS: 0.5

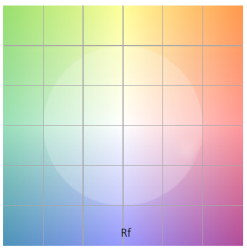
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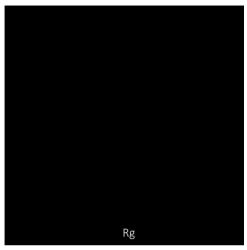
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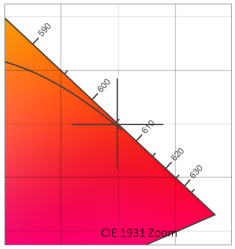
U: 0.440

V: 0.356

Δuv: 0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
7.5	77.1	24.6	-29.7	-3.3	88.2	-1.5	-92.1	-252.1	68.5	-24.5	76.2	27.9	57.5	-35.7
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
3.0	17.9	7.3	2.4	1.4	1.0	1.7	12.2	11.4	1.6	0.0	0.0	0.0	0.0	0.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

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 2.5" COB AMBER

Landscape Lighting Color Data

VOYA-2.5-COB-12VAC-A-ST-**-A-FL-COB-55-**-**-07

1037 K

CRI: 8.9

CRI R9: -252.7

TM30 Rf: 0.0

TM30 Rg: n/a

CQS: 0.5

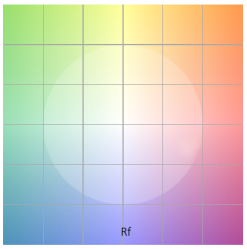
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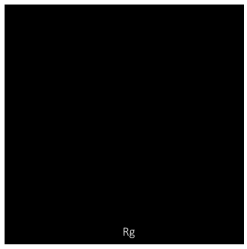
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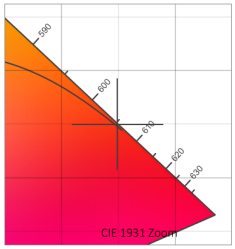
U: 0.440

V: 0.356

Δuv: 0.0005







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
7.5	77.1	24.7	-29.6	-3.2	88.2	-1.5	-92.3	-252.7	68.6	-24.3	76.3	28.0	57.5	-35.8
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
3.2	17.9	7.2	2.4	1.6	1.2	2.0	12.5	11.3	1.4	0.0	0.0	0.0	0.0	0.0
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

VOYA-2.5-COB-12VAC-A-ST-**-A-GZR-COB-GZR-**-**-07

1026 K

CRI: 10.7

CRI R9: -244.6

TM30 Rf: 0.0

TM30 Rg: n/a

CQS: 7.5

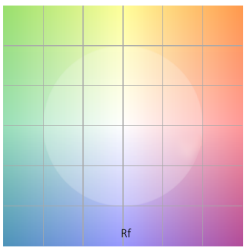
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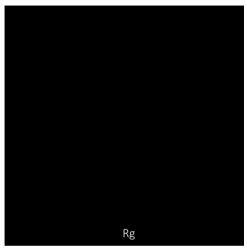
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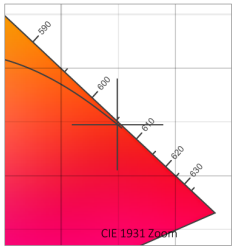
U: 0.442

V: 0.355

Δuv: 0.0000







R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
9.9	78.2	25.9	-27.0	-0.6	88.9	-0.5	-88.9	-244.6	70.2	-20.7	77.0	30.2	58.6	-33.1
Q1	**Q2**	**Q3**	**Q4**	**Q5**	**Q6**	**Q7**	**Q8**	**Q9**	**Q10**	**Q11**	**Q12**	**Q13**	**Q14**	**Q15**
0.3	15.3	20.2	15.7	12.3	7.1	1.8	1.8	12.7	19.9	18.0	15.0	12.6	2.7	1.2
C1	**C2**	**C3**	**C4**	**C5**	**C6**	**C7**	**C8**	**C9**	**C10**	**C11**	**C12**	**C13**	**C14**	**C15**	**C16**
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TM30			
Hue Bin	R_f	Chroma	Hue
1	0	0%	0%
2	0	0%	0%
3	0	0%	0%
4	0	0%	0%
5	0	0%	0%
6	0	0%	0%
7	0	0%	0%
8	0	0%	0%
9	0	0%	0%
10	0	0%	0%
11	0	0%	0%
12	0	0%	0%
13	0	0%	0%
14	0	0%	0%
15	0	0%	0%
16	0	0%	0%

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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