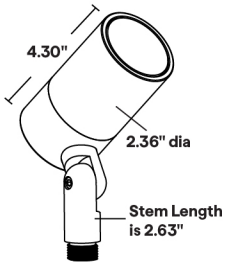
# VOYA SIDE MOUNT 2.5" COB AMBER

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-SM-2.5-COB-24VDC-A | ST | N/A | A | | | | | | | | | | | |

Sample Part Number: **VOYA-SM-2.5-COB-24VDC-A-ST-N/A-A-60D-COB-40-B-P-03-N/A-WPH-SP-N/A-N/A**

### 1 PRODUCT

| | |
|---|---|
| **VOYA-SM-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

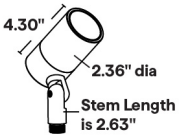
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Specification subject to change. Rev-11-02-26

# VOYA SIDE MOUNT 2.5" COB AMBER

24VDC COB Flood/Accent LED

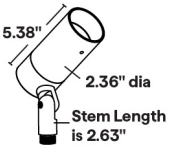
## 1 PRODUCT - DIMENSIONS



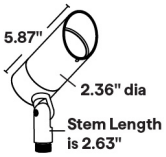

Flush Snoot (FL)




0.5" Regress Snoot (HR)



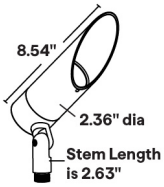

1" Regress Snoot (1R)



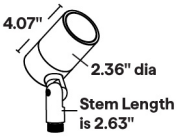

30 Degree Snoot (30D)




45 Degree Snoot (45D)




60 Degree Snoot (60D)




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

## 6 DELIVERED LUMENS

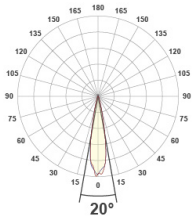
Tested with VOYA-2.5-COB-24VDC-A-ST-95-30-FL at 6W
Grazer COB and Beam Angle are tested with Grazer Snoot

| 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 |

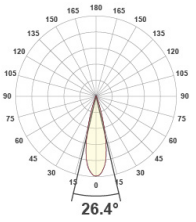
## PHOTOMETRIC PERFORMANCE

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

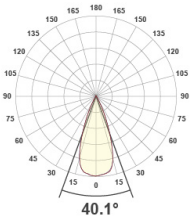
**20°**



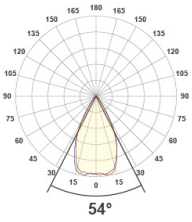

**26°**



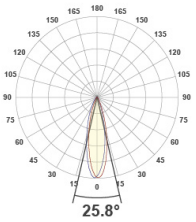

**40°**




**55°**




**GZR**




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# VOYA SIDE 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**



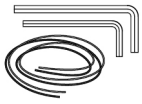
Honeycomb Louver

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 SIDE 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.

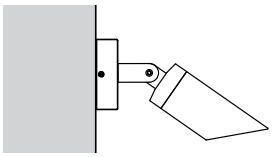
| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|---|---|---|
| | VOYA 24VDC | VOYA 24VDC |
| Non-Dim | QT-CAB-eLED-ND<br>QTM-DC+CAP<br>QTM-eLED-ND<br>QZ-ND | Q-HEX-mini<br>Q-SET-QZ-ND<br>Q-SET-eLED-ND<br>Q-SET-mLED<br>QOM-DC+CAP<br>QOM-eLED-ND<br>QZ-ND |
| Phase | QT-CAB-QZ-PH/0-10V<br>QZ-BOWTIE+DIMMER<br>QZ-PRO-PH/0-10V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

# VOYA EM/SM 2.5" MOUNT COMPATIBILITY

Landscape Lighting

## SURFACE/WALL

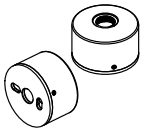
See Surface/Wall installation for dimensions and included hardware. Refer to the mount cut sheets for complete order codes regarding mount's options.





**Q-WB**

Wood Beam Mount



**Q-MT-11***

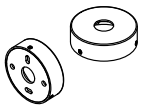
With Water Protection



**Q-MT-17***



**Q-MT-18**

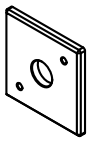


**Q-MT-19**

With Water Protection



**Q-MT-21**



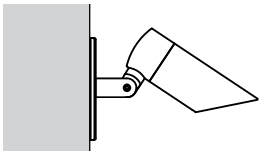
**Q-MT-22**

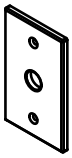


**Q-MT-37***

## 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.



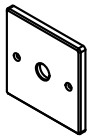


**Q-MT-24**

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

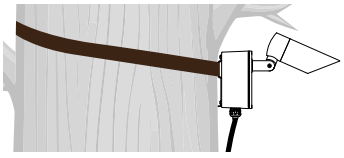


**Q-MT-42***

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***

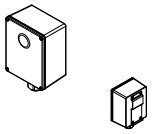


**Q-MT-14***

With Tree Strap

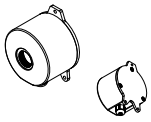


**Q-MT-39***



**Q-MT-50 (No Driver)**

With Water Protection and Tree Strap

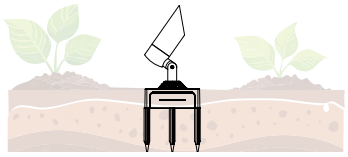


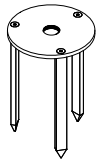
**Q-MT-51***

With Water Protection

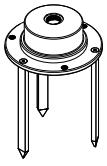
## DIRECT BURIAL

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***

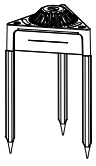


**Q-MT-7***

With Water Protection

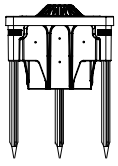


**Q-MT-45***



**Q-TRIX-R20* (No Driver)**

With Water Protection

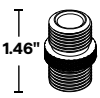


**Q-TRIX-R50* (With Driver)**

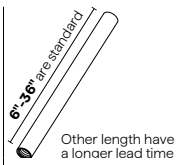
With Water Protection

## MOUNT ACCESSORIES

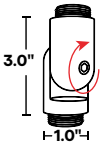
See Accessories installation for dimensions and included hardware.




**NPS ADAPTER**

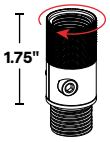



**AY-3 Riser Pole**




**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

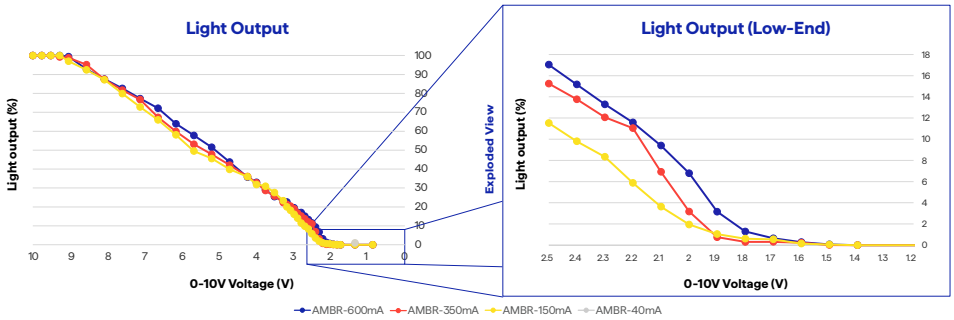
## DISTRUBUTED & BRANCH CIRCUITS

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.

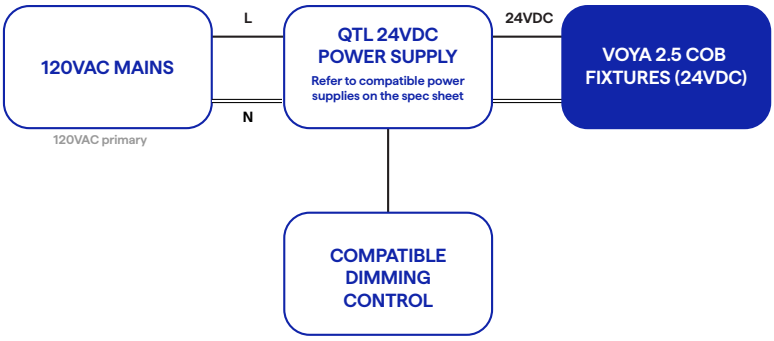
Input voltage at the fixture should be 22.8V–24V DC for both dimmed and non-dimmed applications.

## 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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