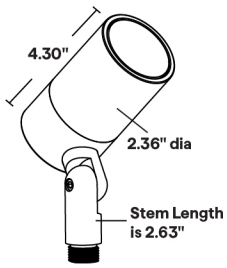
# VOYA SIDE MOUNT 2.5" COB WARM DIM

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
- Flexible tree, surface, wall and ground mounting options support diverse installations
- Warm dim technology shifts from 3000K to a candlelit 1800K
- 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-WD | ST | 95 | 18/30 | | COB | | | | 07 | N/A | | | | |

Sample Part Number: **VOYA-SM-2.5-COB-24VDC-WD-ST-95-18/30-FL-COB-55-SS-P-07-N/A-N/A-WW-LV-N/A**

### 1 PRODUCT

**VOYA-SM-2.5-COB-24VDC-WD**

### 2 KNUCKLE

**ST** Standard

### 3 CRI

**95**

### 4 CCT

**18/30** 1800K/3000K

### 5 SNOOT

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

### 6 COB

**COB** All Other

### 7 BEAM ANGLE

**20** 20 Degree
**26** 26 Degree
**40** 40 Degree
**55** 55 Degree

### 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

**07** 7.2 Watts

Refer to delivered lumen output on following pages

### 11 OUTPUT SETTING

**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-11-11-26

# VOYA SIDE MOUNT 2.5" COB WARM DIM

24VDC COB Flood/Accent LED

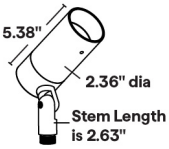
## 1 PRODUCT - DIMENSIONS



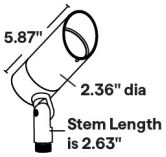

Flush Snoot (FL)




0.5" Regress Snoot (HR)



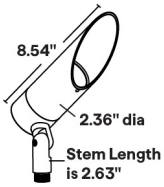

1" Regress Snoot (1R)



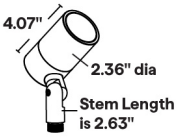

30 Degree Snoot (30D)




45 Degree Snoot (45D)




60 Degree Snoot (60D)




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

## 6 DELIVERED LUMENS

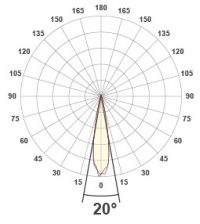
Tested with VOYA-2.5-COB-24VDC-WD-ST-95-30-FL at 7W

| COB - BEAM ANGLE | CCT | LUMENS | LM/W | PEAK INTENSITY (CD) | CRI Ra | CRI R9 | TM30 Rf | TM30 Rg |
|---|---|---|---|---|---|---|---|---|
| COB - 20° | 3208 | 507 | 70 | 3649 | 98 | 98 | 94 | 100 |
| COB - 26° | 3166 | 581 | 80 | 2961 | 98 | 99 | 95 | 100 |
| COB - 40° | 3223 | 602 | 83 | 1297 | 98 | 98 | 94 | 100 |
| COB - 55° | 3226 | 547 | 76 | 711 | 98 | 99 | 94 | 100 |

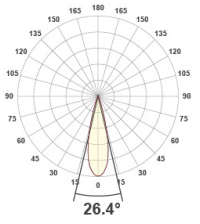
## PHOTOMETRIC PERFORMANCE

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

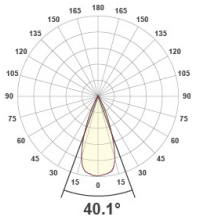
**20°**



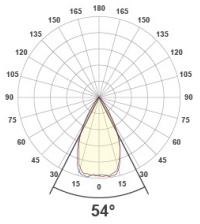

**26°**




**40°**




**55°**




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# VOYA SIDE MOUNT 2.5" COB WARM DIM

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



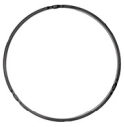
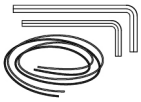

### BRASS AND STAINLESS STEEL POLISHED FINISHES

Brass and Stainless Steel have longer lead times: consult factory




## 13/14/15 ACCESSORIES

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

| SP | LS | WW | LV | | |
|---|---|---|---|---|---|
|  |  |  |  |  |  |
| Spread Lens | Linear Spread Lens | Wall Wash Lens | Honeycomb Louver | Retaining Ring | SNOOT INSTALL KIT |
| To order separately use ACC-2.5-SP | To order separately use ACC-2.5-LS | To order separately use ACC-2.5-WW | To order separately use ACC-2.5-LV | To order separately use ACC-2.5-RR | 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-11-11-26

# VOYA SIDE MOUNT 2.5" COB WARM DIM

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.

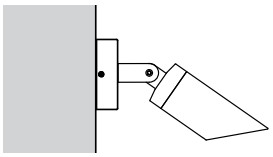
| DIMMING PROTOCOL | INDOOR | OUTDOOR |
|---|---|---|
| | VOYA 24VDC | VOYA 24VDC |
| Phase | QT-CAB-QZ-PH/0-10V<br>QZ-BOWTIE+DIMMER<br>QZ-PRO-PH/0-10V<br>QZ-STICK-PH/0-10V | Q-SET-QZ-PH/0-10V<br>QZ-PRO-PH/0-10V |
| 0-10V | QT-CAB-QZ-PH/0-10V<br>QZ-PRO-PH/0-10V<br>QZ-STICK-PH/0-10V | Q-SET-QZ-PH/0-10V<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

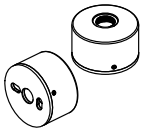
See Surface/Wall installation for dimensions and included hardware. Refer to the mount cut sheets for complete order codes regarding mount's options.





**Q-WB**

Wood Beam Mount



**Q-MT-11***

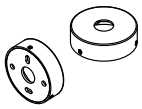
With Water Protection



**Q-MT-17***



**Q-MT-18**

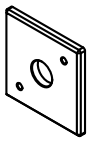


**Q-MT-19**

With Water Protection



**Q-MT-21**



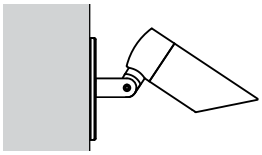
**Q-MT-22**

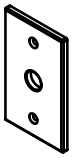


**Q-MT-37***

## 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.



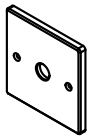


**Q-MT-24**

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

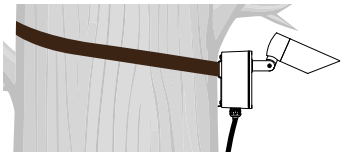


**Q-MT-42***

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***

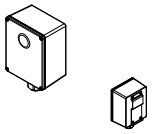


**Q-MT-14***

With Tree Strap

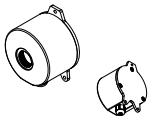


**Q-MT-39***



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

With Water Protection and Tree Strap

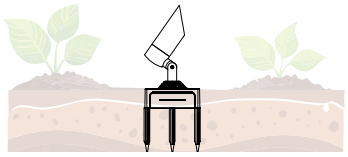


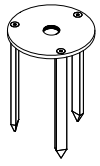
**Q-MT-51***

With Water Protection

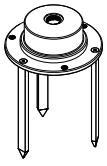
## DIRECT BURIAL

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***

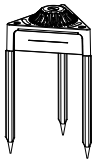


**Q-MT-7***

With Water Protection

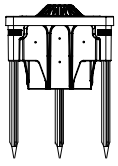


**Q-MT-45***



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

With Water Protection

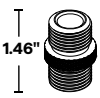


**Q-TRIX-R50* (With Driver)**

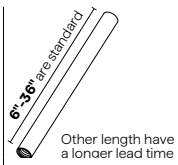
With Water Protection

## MOUNT ACCESSORIES

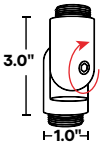
See Accessories installation for dimensions and included hardware.




**NPS ADAPTER**

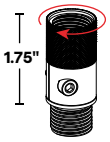



**AY-3 Riser Pole**




**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 WARM DIM

Power Supply Sizing & Wiring

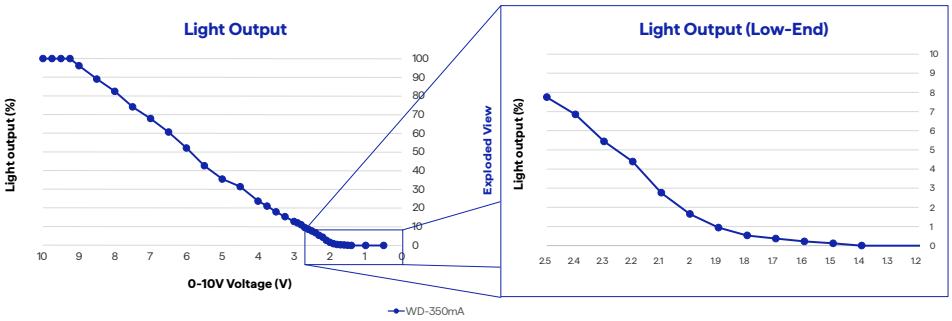
## DISTRUBUTED & BRANCH CIRCUITS

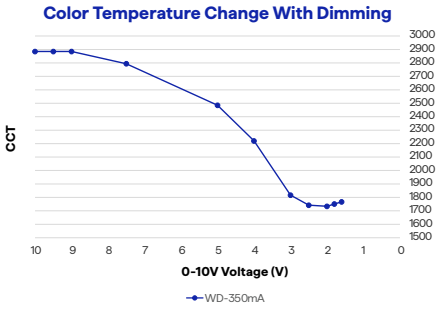
VOYA 2.5" COB Warm Dim can be wired as either a distributed load - multiple fixtures tapped along a run, in branches, or in loop/ring circuits – or as a single load at the end of a run. When wiring as a distributed load, refer to VOYA-2.5-24VDC Low Voltage Wiring Guide to size wires within recommended 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.

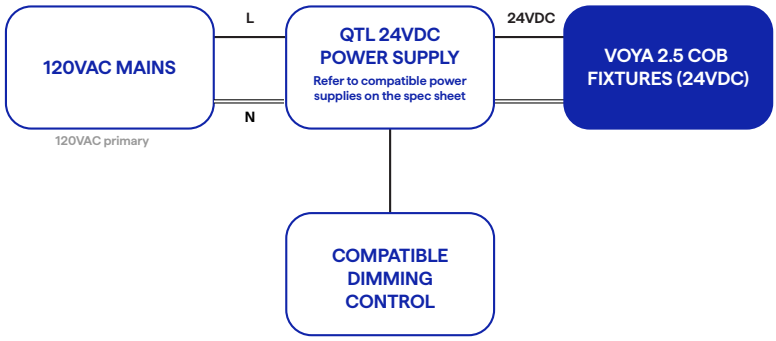
## DIMMING

VOYA 2.5" COB Warm Dim shifts correlated color temperature (CCT) as it dims, warming toward lower CCT at low output. The graphs below show the CCT range and the light output across the dimming range. 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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