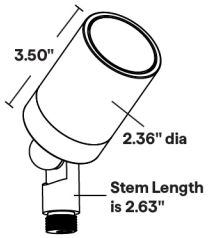
VOYA END MOUNT 2.5" COB STATIC WHITE

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
- High lumen output with peak color performance including CRI > 95 and R9 > 90.
- 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-SW	ST													

Sample Part Number: **VOYA-EM-2.5-COB-24VDC-SW-ST-95-35-GZR-COB-GZR-A-BK-12-40MA-N/A-SP-LV-N/A**

1 PRODUCT

VOYA-EM-2.5-COB-24VDC-SW

2 KNUCKLE

ST Standard

3 CRI

95
90

4 CCT

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

5 SNOOT

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

6 COB

COBSP	Spot
COB	All Other
COB	All Other

7 BEAM ANGLE

12	12 Degree
16	16 Degree
23	23 Degree
37	37 Degree
51	51 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

12 12.1 Watts

Refer to delivered lumen output on following pages

12W option includes on board dip switch for field adjustable output with 8 settings

07	7.1 Watts
03	3.3 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

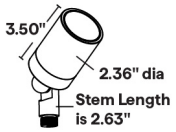
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Specification subject to change. Rev-11-02-26

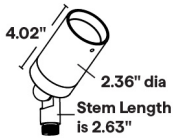
VOYA END MOUNT 2.5" COB STATIC WHITE

24VDC COB Flood/Accent LED

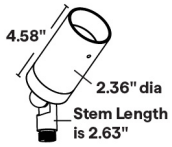
1 PRODUCT - DIMENSIONS



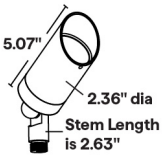
Flush Snoot (FL)



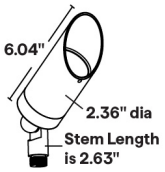
0.5" Regress Snoot (HR)



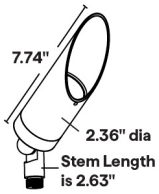
1" Regress Snoot (1R)



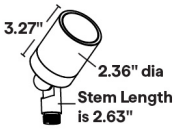
30 Degree Snoot (30D)



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-SW-ST-95-30-FL at 12W
Grazer COB and Beam Angle are tested with Grazer Snoot

COB - BEAM ANGLE	CCT	LUMENS	LM/W	PEAK INTENSITY (CD)	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
COB - 16°	2987	929	78	8004	99	90	98	100
COB - 23°	2982	994	83	5414	99	90	98	100
COB - 37°	2995	989	83	2427	99	91	98	100
COB - 51°	2995	909	76	1246	99	91	98	100
COB - Grazer	3389	927	78	3389	99	90	98	100

CCT MULTIPLIERS	
2200K	0.81
2400K	0.88
2700K	0.92
3000K	1.00
3500K	1.04
4000K	1.08

WATTAGE MULTIPLIERS	
12W	1.00
7W	0.64
3W	0.29

Tested with VOYA-2.5-COB-24VDC-SW-ST-90-30-FL at 12W
Grazer COB and Beam Angle are tested with Grazer Snoot

COB - BEAM ANGLE	CCT	LUMENS	LM/W	PEAK INTENSITY (CD)	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
COB - 16°	3005	1023	85	8192	93	57	91	97
COB - 23°	3010	1133	94	5833	93	57	91	97
COB - 37°	3018	1111	92	2645	93	57	91	97
COB - 51°	3019	1017	85	1379	93	57	91	97
COB - Grazer	3063	1025	85	3722	93	57	91	97

CCT MULTIPLIERS	
2200K	0.80
2400K	0.90
2700K	0.95
3000K	1.00
3500K	1.05
4000K	1.04

WATTAGE MULTIPLIERS	
12W	1.00
7W	0.63
3W	0.29

Tested with VOYA-2.5-COBSP-24VDC-SW-ST-95-30-FL at 12W

COBSP - BEAM ANGLE	CCT	LUMENS	LM/W	PEAK INTENSITY (CD)	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
COBSP - 12°	2957	879	72	12096	99	88	98	99

CCT MULTIPLIERS	
2200K	0.84
2400K	0.89
2700K	0.93
3000K	1.00
3500K	1.06
4000K	1.10

WATTAGE MULTIPLIERS	
12W	1.00
7W	0.63
3W	0.30

Tested with VOYA-2.5-COBSP-24VDC-SW-ST-90-30-FL at 12W

COBSP - BEAM ANGLE	CCT	LUMENS	LM/W	PEAK INTENSITY (CD)	CRI Ra	CRI R9	TM30 Rf	TM30 Rg
COBSP - 12°	2994	1009	82	14215	93	56	91	96

CCT MULTIPLIERS	
2200K	0.77
2400K	0.88
2700K	0.95
3000K	1.00
3500K	1.02
4000K	1.06

WATTAGE MULTIPLIERS	
12W	1.00
7W	0.62
3W	0.28

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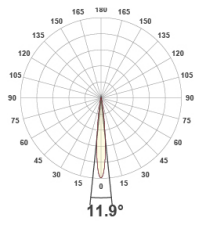
VOYA END MOUNT 2.5" COB STATIC WHITE

24VDC COB Flood/Accent LED

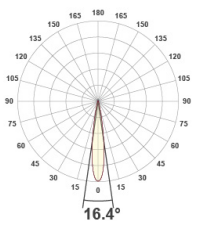
PHOTOMETRIC PERFORMANCE

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

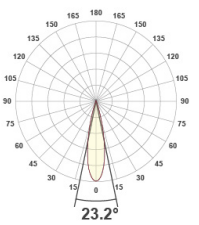
12°



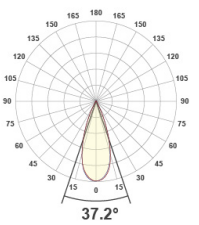
16°



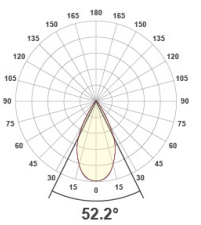
23°



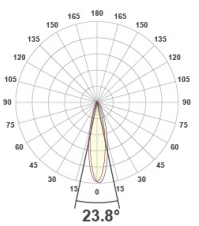
37°



51°



GZR



9 FINISH

ALUMINUM POWDER COAT FINISHES

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



Beige

Black

Black Texture

Bronze



Bronze Texture

Black Bronze

Silver

White

BRASS AND STAINLESS STEEL POLISHED FINISHES

Brass and Stainless Steel have longer lead times: consult factory



Polished Brass

Polished Stainless Steel

11 DIP SWITCH SETTINGS

VOYA-2.5-24VDC-COB-SW

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

⊤ On ⊥ Off.

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

VOYA END MOUNT 2.5" COB STATIC WHITE

24VDC COB Flood/Accent LED

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



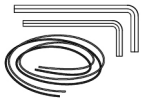
Honeycomb Louver

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

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.

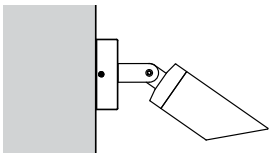
DIMMING PROTOCOL	INDOOR	OUTDOOR
	VOYA 24VDC	VOYA 24VDC
Non-Dim	QT-CAB-eLED-ND QTM-DC+CAP QTM-eLED-ND QZ-ND	Q-HEX-mini Q-SET-QZ-ND Q-SET-eLED-ND Q-SET-mLED QOM-DC+CAP QOM-eLED-ND QZ-ND
Phase	QT-CAB-QZ-PH/0-10V QZ-BOWTIE+DIMMER QZ-PRO-PH/0-10V QZ-STICK-PH/0-10V	Q-SET-QZ-PH/0-10V QZ-PRO-PH/0-10V
0-10V	QT-CAB-QZ-PH/0-10V 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

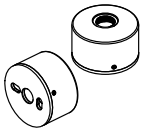
See Surface/Wall installation for dimensions and included hardware. Refer to the mount cut sheets for complete order codes regarding mount's options.





Q-WB

Wood Beam Mount



Q-MT-11*

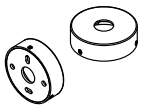
With Water Protection



Q-MT-17*



Q-MT-18

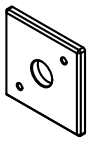


Q-MT-19

With Water Protection



Q-MT-21



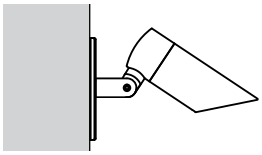
Q-MT-22

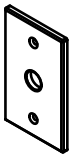


Q-MT-37*

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.



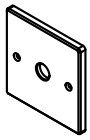


Q-MT-24

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

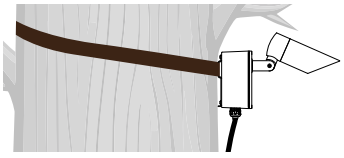


Q-MT-42*

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*

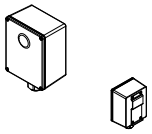


Q-MT-14*

With Tree Strap

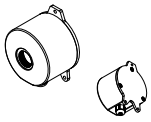


Q-MT-39*



Q-MT-50 (No Driver)

With Water Protection and Tree Strap

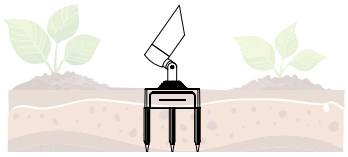


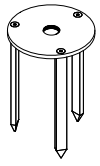
Q-MT-51*

With Water Protection

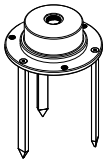
DIRECT BURIAL

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*

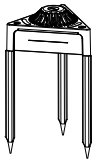


Q-MT-7*

With Water Protection

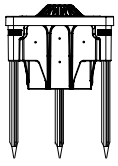


Q-MT-45*



Q-TRIX-R20* (No Driver)

With Water Protection

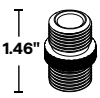


Q-TRIX-R50* (With Driver)

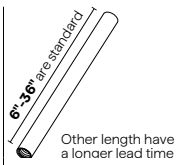
With Water Protection

MOUNT ACCESSORIES

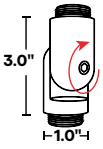
See Accessories installation for dimensions and included hardware.



NPS ADAPTER

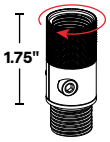


AY-3 Riser Pole



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 STATIC WHITE

Power Supply Sizing & Wiring

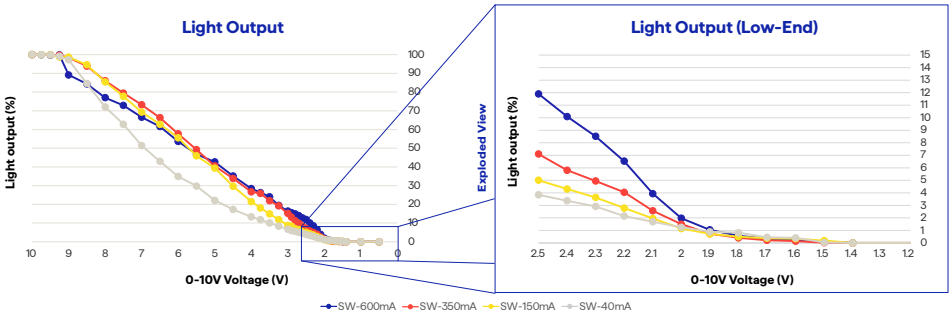
DISTRUBUTED & BRANCH CIRCUITS

VOYA 2.5" COB Static White 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.

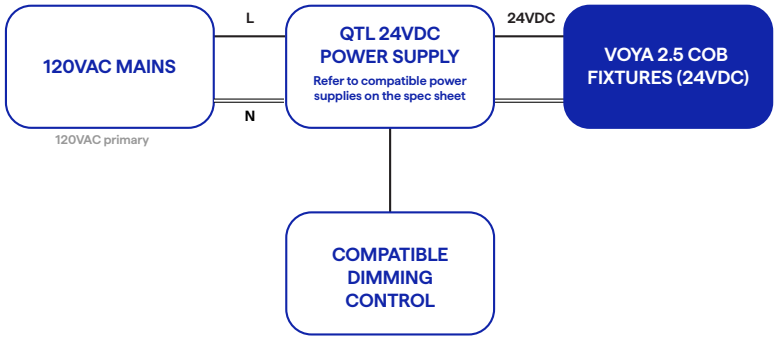
Input voltage at the fixture should be 22.8V–24V DC for both dimmed and non-dimmed applications.

DIMMING

VOYA 2.5" COB Static White 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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