



L.T.F.

DOBi AC Line Voltage LED Boards



DOBi



Dimmable 15W Linear 296x38mm QLUXDOBAL29615W56LED DOBi Series

| | |
|-------------------------|------------------|
| Wattage | 15W |
| Input | 120V AC 50/60 Hz |
| CRI | 92+ |
| CCT Options | 2700K - 5000K |
| Custom CCT | Available |
| Size | 296x38mm |
| Dimming | ELV, Triac |
| Optional Dimming | 0-10V |
| Beam Angle | 160° |



RoHS



FEATURES

- Exceeds California Title 24 requirements
- AC line voltage driver on board module; No external drivers or transformers required
- High efficacy lumen output: >80 lm/W
- Smooth dimming with ELV & Triac dimmers
- Optional 0-10V dimming
- 220-240V, 277V AC input with optional voltage converter
- LM-80 compliant LEDs

- High Color Renedering Index (CRI) Ra max. 98
- Tight binning 3 Step Mac Adam Ellipses
- Low heat generation, easy thermal management

APPLICATIONS

- New or retrofit OEM fixtures
- Indoor or outdoor applications
- Architectural and commercial
- Flush mount and recessed fixtures



AVAILABLE CONFIGURATIONS

| Model Number | Suffix | CRI | CCT | Luminous Flux |
|----------------------|--------|-----|-------|---------------|
| QLUXDOBAL29015W56LED | -927 | 92+ | 2700K | 1990lm |
| QLUXDOBAL29015W56LED | -930 | | 3000K | 1200 lm |
| QLUXDOBAL29015W56LED | -935 | | 3500K | 1210 lm |
| QLUXDOBAL29015W56LED | -940 | | 4000K | 1215 lm |
| QLUXDOBAL29015W56LED | -950 | | 5000K | 1225 lm |

Custom CCT available

[1] Luminous flux and efficacy are typical value, measured by an integrated sphere at 25°C, tolerance: ± 10%;

[2] Ra/CRI is measured with tolerance: ± 2;

[3] Tolerance of power: ± 1W.



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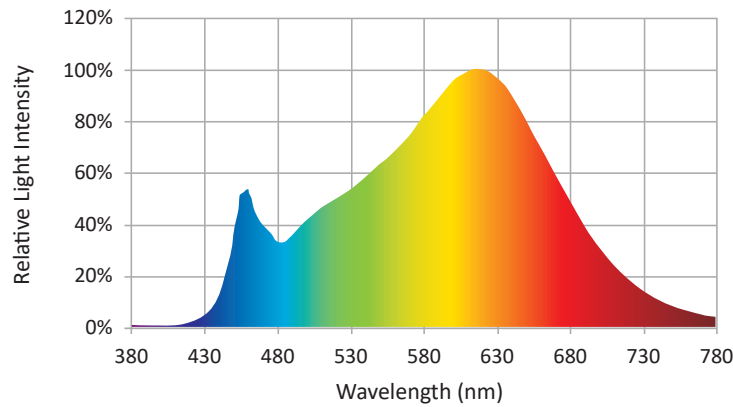


**Dimmable 15W Linear 296x38mm
QLUXDOBAL29615W56LED DOBi Series**

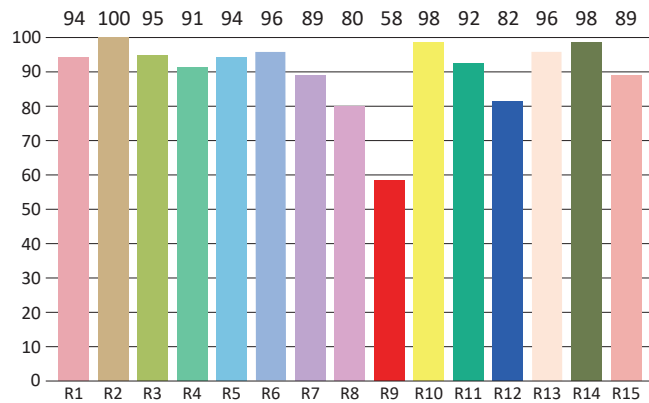
| CIE Colorimetric Parameters* | |
|------------------------------|--------------------------|
| Chromaticity Coordinates | x=0.4338 y=0.4018 |
| CCT | 3017K |
| Peak Wavelength | 615nm |
| Dominant Wavelength | 581nm |
| Rendering Index | 92.2 |
| Color Ratio | R=44.3%, G=47.0%, B=8.8% |
| Half Bandwidth | 153.1nm |
| Color Purity | 0.5145 |

* Test result shown based on 3000 CCT, 92 CRI model

SPECTRORADIOMETRIC CHARACTERISTICS



CRI TEST RESULTS



| | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|-------|
| R1=94 | R2=100 | R3=95 | R4=91 | R5=94 | R6=96 | R7=89 | R8=80 |
| R9=58 | R10=98 | R11=92 | R12=82 | R13=96 | R14=98 | R15=89 | |

* Test result shown based on 3000 CCT, 92 CRI model



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| Photometric Parameters* | |
|-------------------------|-------------|
| Luminous Flux: | 1197 lm |
| Radiant Power: | 4221mW |
| Efficacy: | ≈ 79.8 lm/W |

* Test result shown based on 3000 CCT, 92 CRI model

| Electric Parameters | |
|---------------------|----------|
| Voltage | U=120V |
| Current | I= |
| Power | P=15W |
| Power Factor | PF≈ 0.90 |

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

| Parameter | Symbol | Value | Unit |
|------------------------|--------|----------|------|
| Voltage | V in | 132 | Vac |
| LED Solder Temperature | Ts | -20~+85 | °C |
| Storage Temperature | Tstg | -40~+100 | °C |
| ESD Sensitivity (HBM) | --- | ±4000 | V |
| Surge | --- | 1000 | Vac |

MECHANICAL SPECIFICATIONS

