



L.T.F.

DOB AC Line Voltage LED Boards



Dimmable 20W Linear 296x45mm QLUXDOBAL29620W84LED DOB Series

QLUX DOB



| | |
|-------------------------|------------------|
| Wattage | 20W |
| Input | 120V AC 50/60 Hz |
| CRI | 94+ |
| CCT Options | 2400K - 5000K |
| Custom CCT | Available |
| Size | 296x45mm |
| 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: >90 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 Rendering Index (CRI) 94+

- Tight binning 3 Step Mac Adam Ellipses
- Low heat generation, easy thermal management
- L70 > 60,000 Hours



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 |
|----------------------|--------|-----|-------|
| QLUXDOBAL29620W84LED | - 822 | 80+ | 2200K |
| QLUXDOBAL29620W84LED | - 825 | | 2500K |
| QLUXDOBAL29620W84LED | - 827 | | 2700K |
| QLUXDOBAL29620W84LED | - 830 | | 3000K |
| QLUXDOBAL29620W84LED | - 832 | | 3200K |
| QLUXDOBAL29620W84LED | - 835 | | 3500K |
| QLUXDOBAL29620W84LED | - 840 | | 4000K |
| QLUXDOBAL29620W84LED | - 850 | | 5000K |

| Model Number | Suffix | CRI | CCT |
|----------------------|--------|-----|-------|
| QLUXDOBAL29620W84LED | - 922 | 90+ | 2200K |
| QLUXDOBAL29620W84LED | - 925 | | 2500K |
| QLUXDOBAL29620W84LED | - 927 | | 2700K |
| QLUXDOBAL29620W84LED | - 930 | | 3000K |
| QLUXDOBAL29620W84LED | - 932 | | 3200K |
| QLUXDOBAL29620W84LED | - 935 | | 3500K |
| QLUXDOBAL29620W84LED | - 940 | | 4000K |
| QLUXDOBAL29620W84LED | - 950 | | 5000K |

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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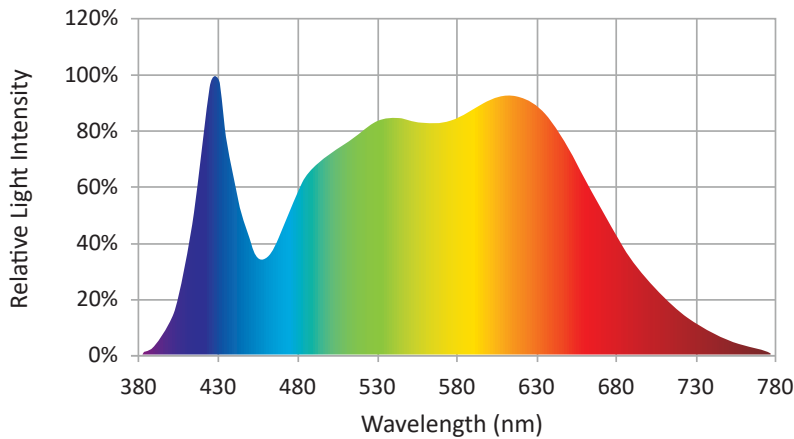


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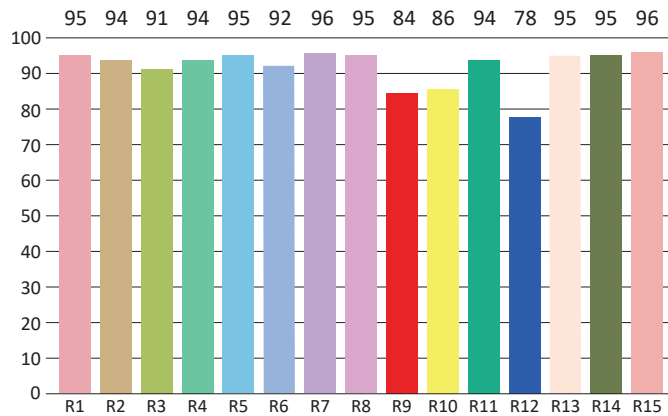
| CIE Colorimetric Parameters* | |
|------------------------------|--------------------------|
| Chromaticity Coordinates | x=0.3758 y=0.3723 |
| CCT | 4097K |
| Peak Wavelength | 448.5nm |
| Dominant Wavelength | 579.1nm |
| Rendering Index | 94.2 |
| Color Ratio | R=19.7%, G=77.8%, B=2.5% |
| Half Bandwidth | 26.4nm |
| Color Purity | 24.5% |

* Test result shown based on 4000K CCT, 90 CRI model

SPECTRORADIOMETRIC CHARACTERISTICS



CRI TEST RESULTS



| | | | | | | | |
|-------|--------|--------|--------|--------|--------|--------|-------|
| R1=95 | R2=94 | R3=91 | R4=94 | R5=95 | R6=92 | R7=96 | R8=95 |
| R9=84 | R10=86 | R11=94 | R12=78 | R13=95 | R14=95 | R15=96 | |

* Test result shown based on 4000K CCT, 90 CRI model



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| Photometric Parameters* | |
|-------------------------|-----------|
| Luminous Flux: | 2028.05lm |
| Radiant Power: | 7584.6mW |
| Efficacy: | 88.91lm/W |

* Test result shown based on 4000K CCT, 90 CRI model

| Electric Parameters | |
|---------------------|----------|
| Voltage | U=0.013V |
| Current | I=0.19A |
| Power | P=22.8W |
| Power Factor | PF=0.994 |

ABSOLUTE MAXIMUM RATINGS (Ta=25°C)

| Parameter | Symbol | Value | Unit |
|------------------------|--------|----------|------|
| Voltage | V in | 132 | Vac |
| Operating Temperature | --- | -35~+50 | °C |
| LED Solder Temperature | Ts | 110 | °C |
| Storage Temperature | Tstg | -40~+100 | °C |
| ESD Sensitivity (HBM) | --- | ±4000 | V |
| Surge | --- | 2500 | Vac |

MECHANICAL SPECIFICATIONS

