



L.T.F.

DOB AC Line Voltage LED Boards



Dimmable 16W Round 57mm (OD) QLUXDOBAR5716W1LED DOB Series

QLUX DOB



Wattage	16W
Input	120V AC 50/60 Hz
CRI	91+
CCT Options	2700K - 5000K
Custom CCT	Available
Size	100mm (OD)
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: > 82 lm/W
- Smooth dimming with ELV & Triac dimmers
- Dimming range <1% - 100%
- Optional 0-10V dimming
- 220-240V, 277V AC input with optional voltage converter
- LM-80 compliant LEDs

- High Color Rendering Index (CRI) 91+
- 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	Suffix	CRI	CCT	Lumens
QLUXDOBAR5716W1LED	- 927	91+	2700K	1270lm
QLUXDOBAR5716W1LED	- 930		3000K	1300lm
QLUXDOBAR5716W1LED	- 935		3500K	1300lm
QLUXDOBAR5716W1LED	- 940		4000K	1320lm
QLUXDOBAR5716W1LED	- 950		5000K	1400lm

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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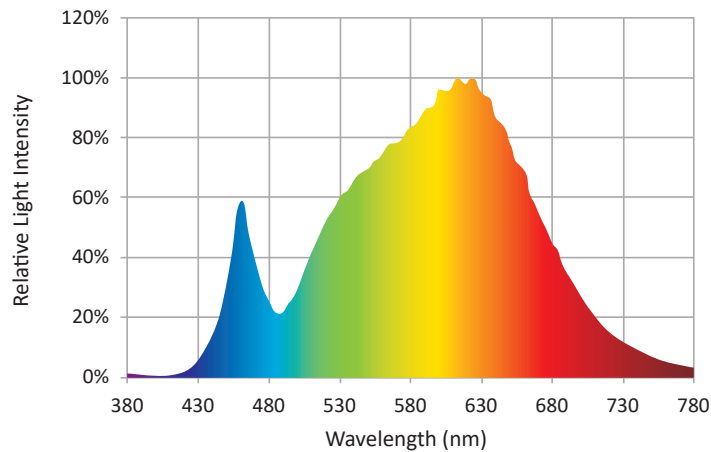


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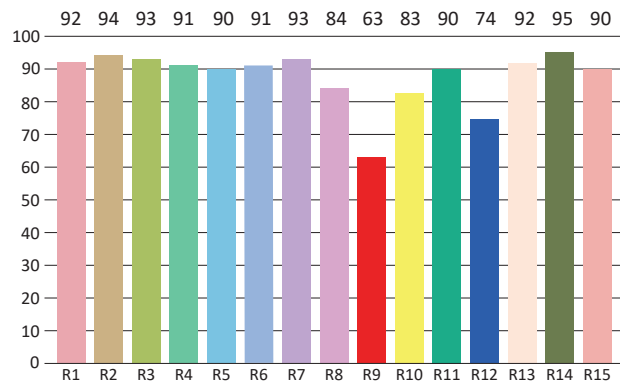
CIE Colorimetric Parameters*	
Chromaticity Coordinates	x=0.4289 y=0.3979
CCT	3089K
Peak Wavelength	620 nm
Dominant Wavelength	581 nm
Rendering Index	91.0
Color Ratio	R=42.8%, G=49.7%, B=7.4%
Half Bandwidth	171.8 nm
Color Purity	0.4848

* Test result shown based on 3000K CCT, 91 CRI model

SPECTRORADIOMETRIC PARAMETERS



CRI TEST RESULTS



R1=92	R2=94	R3=93	R4=91	R5=90	R6=91	R7=93	R8=84
R9=63	R10=83	R11=90	R12=74	R13=92	R14=95	R15=90	

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Photometric Parameters*	
Luminous Flux:	1301 lm
Radiant Power:	4852 mW
Efficacy:	≈ 82.1 lm/W

* Test result shown based on 3000K CCT, 91 CRI model

Electric Parameters	
Voltage	U=120V
Current	I= 0.16A
Power	P=16W
Power Factor	PF≈ 0.93

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

