



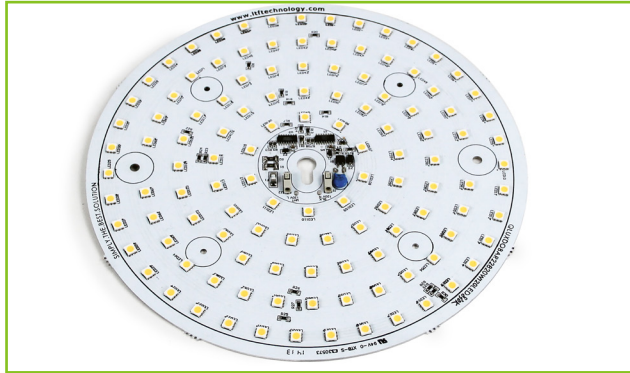
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DOBi AC Line Voltage LED Boards



Dimmable 20W Round 228mm (OD) QLUXDOBAR22820W120LED DOBi Series

DOBi



Wattage	20W
Input	120V AC 50/60 Hz
CRI	80, 90+
CCT Options	2700K, 3000K
Custom CCT	Available
Size	228mm (OD)
Dimming	ELV, Triac
Optional Dimming	0-10V
Beam Angle	160°



RoHS



FEATURES

- 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
QLUXDOBAR22820W120LED	- 822	80+	2200K
QLUXDOBAR22820W120LED	- 825		2500K
QLUXDOBAR22820W120LED	- 827		2700K
QLUXDOBAR22820W120LED	- 830		3000K
QLUXDOBAR22820W120LED	- 832		3200K
QLUXDOBAR22820W120LED	- 835		3500K
QLUXDOBAR22820W120LED	- 840		4000K
QLUXDOBAR22820W120LED	- 850		5000K

Model Number	Suffix	CRI	CCT
QLUXDOBAR22820W120LED	- 922	90+	2200K
QLUXDOBAR22820W120LED	- 925		2500K
QLUXDOBAR22820W120LED	- 927		2700K
QLUXDOBAR22820W120LED	- 930		3000K
QLUXDOBAR22820W120LED	- 932		3200K
QLUXDOBAR22820W120LED	- 935		3500K
QLUXDOBAR22820W120LED	- 940		4000K
QLUXDOBAR22820W120LED	- 950		5000K

Custom CCT available

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

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

[3] Tolerance of power: ± 1W.



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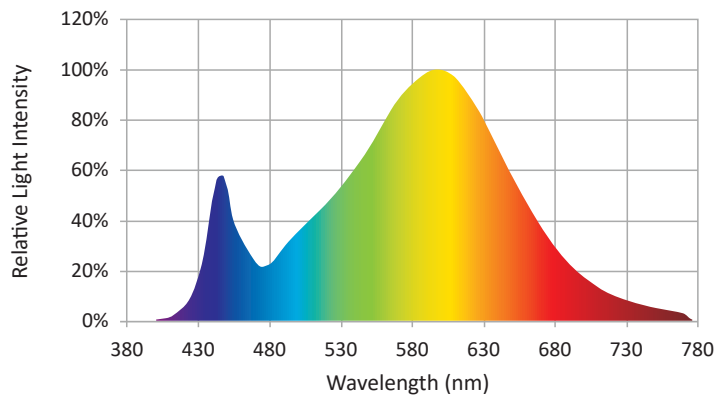
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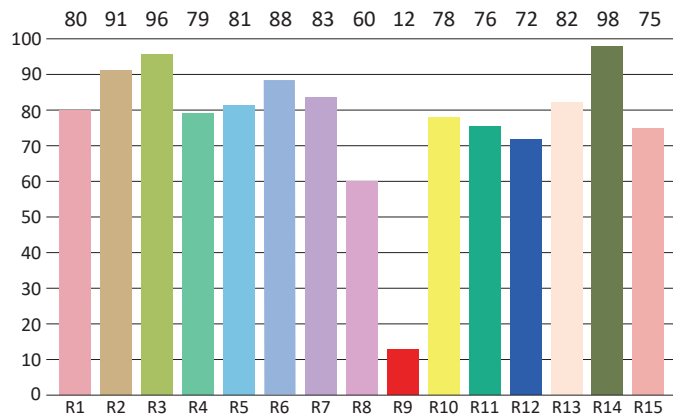
CIE Colorimetric Parameters*	
Chromaticity Coordinates	x=0.4328 y=0.3958
CCT	3003K
Peak Wavelength	602.6nm
Dominant Wavelength	583.9nm
Rendering Index	82.1
Color Ratio	R=22.8%, G=75%, B=1.7%
Half Bandwidth	130.2nm
Color Purity	48.7%

* Test result shown based on 3000 CCT, 80 CRI model

SPECTRORADIOMETRIC CHARACTERISTICS



CRI TEST RESULTS



R1=80	R2=91	R3=96	R4=79	R5=81	R6=88	R7=83	R8=60
R9=12	R10=78	R11=76	R12=72	R13=82	R14=98	R15=75	

* Test result shown based on 3000 CCT, 80 CRI model



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Photometric Parameters*	
Luminous Flux:	1835.5lm
Radiant Power:	15418mW
Efficacy:	83.8lm/W

* Test result shown based on 3000 CCT, 80 CRI model

Electric Parameters	
Voltage	U=120.7V
Current	I=0.183A
Power	P=21.9W
Power Factor	PF=0.995

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

