

# QT-Brightek Lamp Series 5mm Round Lamp

Part No.: QBL8IW30C-XX

XX (Color Code) = WW/NW/CW

Product: QBL8IW30C-XX	Date: February 09, 2018	Page 1 of 10
	Version# 1.0	

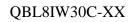




Table of Contents:	
Introduction	3
Electrical / Optical Characteristic (Ta=25 °C)	4
Absolute Maximum Rating	4
CIE Chromaticity Diagram	5
Characteristic Curves	
Ordering Information	
Revision History	
Disclaimer	

Product: QBL8IW30C-XX	Date: February 09, 2018	Page 2 of 10
	Version# 1.0	



# Introduction

#### Feature:

- Clear lens
- Packed in bulk
- 5mm round lamp
- InGaN technology
- Viewing angle: 30° typ.

# **Description:**

These bright 5mm round type lamps are suitable for all indicator applications such as electronic signs and electronic board indictor.

# **Application:**

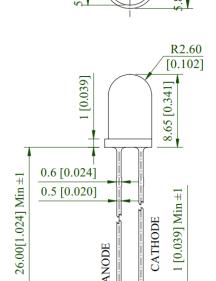
- General purpose indicator application
- Electronic signs and electronics board
- Indicator

#### **Certification & Compliance:**

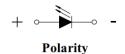
- TS16949
- ISO9001
- RoHS Compliant

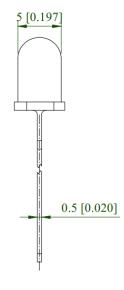


#### **Dimension:**



2.54 [0.100]





Units: mm / general tolerance =  $\pm -0.25$ mm unless otherwise specified

Product: QBL8IW30C-XX	Date: February 09, 2018	Page 3 of 10
	Version# 1.0	



Electrical / Optical Characteristic (Ta=25°C)

Product	Color	I <sub>F</sub> (mA)	V <sub>F</sub>	(V)		nromatici coordinate	-	I <sub>V</sub> (m	ıcd)
			Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.
QBL8IW30C-WW	Warm White	20	3.1	3.6	-	X=0.43 Y=0.395		5000	8500
QBL8IW30C-NW	Natural White	20	3.1	3.6		X=0.335 Y=0.325		6500	11000
QBL8IW30C-CW	Cool White	20	3.1	3.6	-	X=0.28 Y=0.28	-	5000	8500

**Absolute Maximum Rating** 

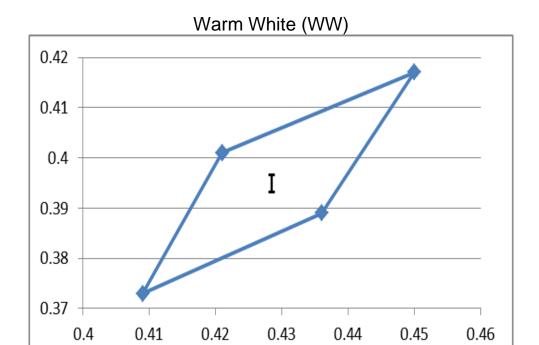
Material	P <sub>d</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)*	V <sub>R</sub> (V)	T <sub>OP</sub> (°C)	T <sub>ST</sub> (°C)	T <sub>SOL</sub> (°C)**
InGaN	95	25	100	5	-40 to +85	-40 to +100	260

Product: QBL8IW30C-XX	Date: February 09, 2018	Page 4 of 10
	Version# 1.0	

<sup>\*</sup>Pulse width 0.1msec, duty 1/10
\*\*Wave Soldering for no more than 3 sec @ 260 °C



# **CIE Chromaticity Diagram**

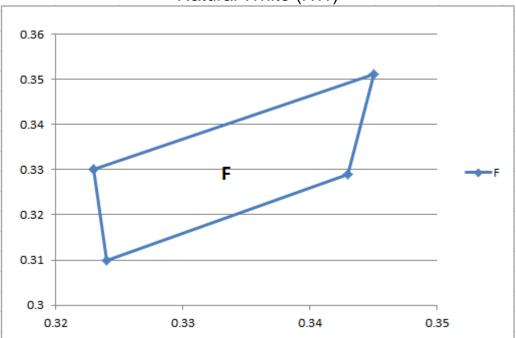


I		
X	Υ	
0.421	0.401	
0.45	0.417	
0.436	0.389	
0.409	0.373	
0.421	0.401	

Product: QBL8IW30C-XX	Date: February 09, 2018	Page 5 of 10
	Version# 1.0	





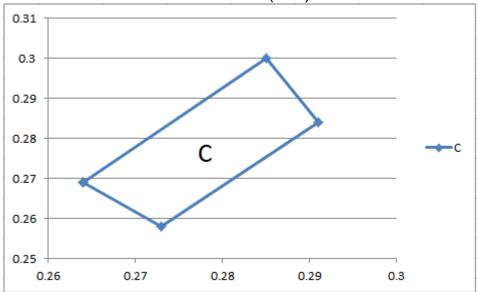


F			
Χ	Y		
0.323	0.33		
0.345	0.351		
0.343	0.329		
0.324	0.31		
0.323	0.33		

Product: QBL8IW30C-XX	Date: February 09, 2018	Page 6 of 10
	Version# 1.0	







С		
Χ	Υ	
0.264	0.269	
0.273	0.258	
0.291	0.284	
0.285	0.3	
0.264	0.269	

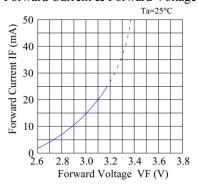
Tolerance of measurement of color coordinates: ±0.01

Product: QBL8IW30C-XX	Date: February 09, 2018	Page 7 of 10
	Version# 1.0	

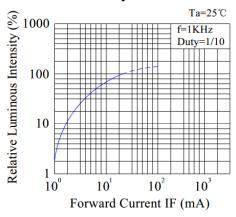


# **Characteristic Curves**

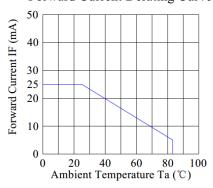
Forward Current & Forward Voltage

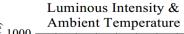


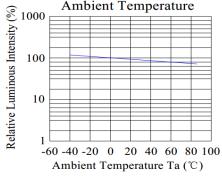
Luminous Intensity & Forward Current



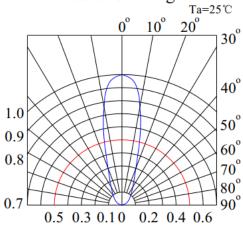
Forward Current Derating Curve







# **Radiation Diagram**



Product: QBL8IW30C-XX	Date: February 09, 2018	Page 8 of 10
	Version# 1.0	





**Ordering Information** 

Part #	Orderable Part #	Spec Range	Quantity per bag
QBL8IW30C-WW	QBL8IW30C-WW	Iv=8500mcd typ. @ 20mA, CCT Coordinate : (0.43, 0.395) typ.	500pcs
QBL8IW30C-NW	QBL8IW30C-NW	Iv=11000mcd typ. @ 20mA, CCT Coordinate : (0.335, 0.325) typ.	500pcs
QBL8IW30C-CW	QBL8IW30C-CW	Iv=8500mcd typ. @ 20mA, CCT Coordinate : (0.28, 0.28) typ.	500pcs

Product: QBL8IW30C-XX	Date: February 09, 2018	Page 9 of 10
	Version# 1.0	



**Revision History** 

Description:	Revision #	Revision Date
New Release of QBL8IW30C-XX	V1.0	02/09/2018

# **Disclaimer**

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- 1. Life support devices or systems are devices or systems which, (a) are intended for surgical implant into the body, or (b) support or sustain life, and (c) whose failure to perform when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in a significant injury of the user.
- 2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

Product: QBL8IW30C-XX	Date: February 09, 2018	Page 10 of 10
	Version# 1.0	