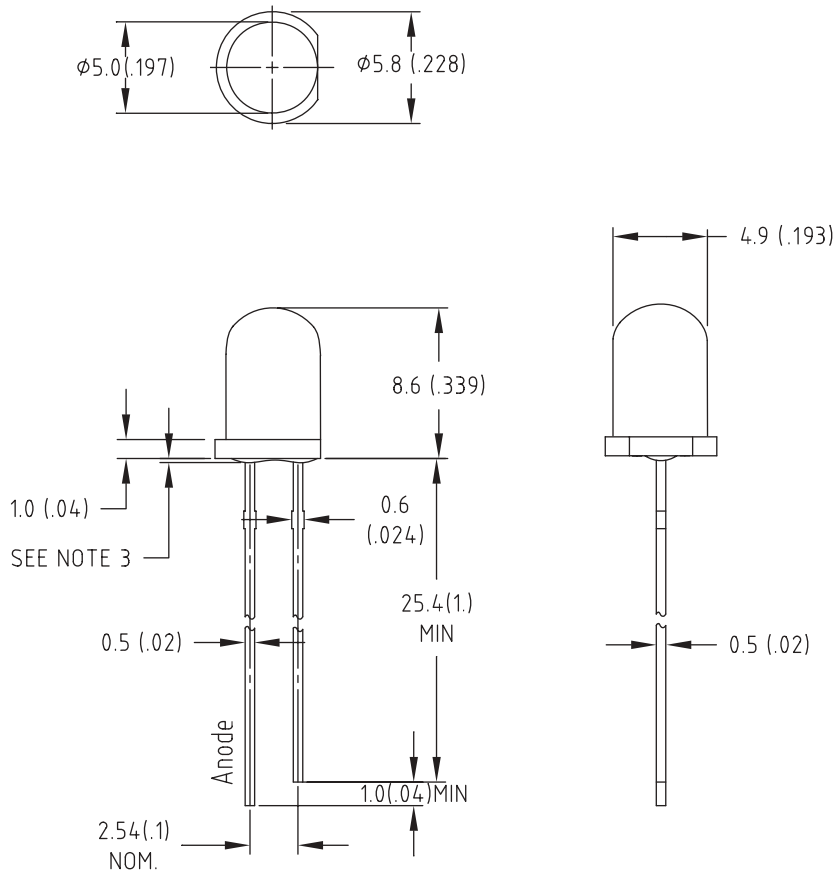


LTR	REVISION	DATE	APPD
B		12-06-05	RM



CHIP MATERIAL	LENS COLOR	EMISSION COLOR
InGaN	WATER CLEAR	INCAND. WHITE

Notes:

- ALL DIMS ARE IN MILLIMETERS (INCHES).
- TOLERANCE IS $\pm 0.25\text{mm}$ ($\pm .010''$) UNLESS OTHERWISE SPECIFIED.
- PROTRUDED RESIN UNDER FLANGE IS 1.0mm ($.04''$) MAX.
- LEAD SPACING IS MEASURED WHERE LEADS EMERGE FROM THE PACKAGE.
- LEADS TO BE SOLDERABLE AND CAPABLE OF MEETING THE SOLDERABILITY REQUIREMENTS OF MIL-STD-202, METHOD 208.
- MANUFACTURE DATE SHALL NOT BE OLDER THAN 26 WEEKS (6 MONTHS).

ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING-
ELECTROSTATIC
SENSITIVE
DEVICES

LED[®] LEDTRONICS, INC.[™] 23105 KASHIWA COURT TORRANCE, CA 90505	-PROPRIETARY- This document contains Proprietary information of LEDTRONICS, INC.[™]. It may not be copied, used or disclosed for any purpose without the prior express written consent of LEDTRONICS, INC.[™]	TITLE L200-0IW-20D					
	.XXX ± .010 TOLERANCE PER ANSI-Y14.5 (UNLESS OTHERWISE STATED) .XX ± .025 ANGLES ± 0°, 30° FRACT. ± 1/32	DWG NO DSDC307		SCALE 2:1	SHEET 1 OF 3	DATE 03-26-03	
		CODE IDENT NO. 8Z410	DWG BY RM	CHK BY	QA	MNFG	CUSTOMER

LTR	REVISION	DATE	APPD
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Absolute Maximum Ratings at Ta 25°C

Parameter	MAX.	Unit
Power Dissipation	80	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	100	mA
Continuous Forward Current	20	mA
Derating Linear From 50°C	0.4	mA/°C
Reverse Voltage	5	V
Electrostatic Discharge (ESD)	150	V
Operating Temperature Range	-20°C to +80°C	
Storage Temperature Range	-30°C to +100°C	
Lead Soldering Temperature [4mm (.157) From Body]	260°C for 5 Seconds	

Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	4900	6000	---	mcd	$I_f=20\text{mA}$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	---	22	---	Deg	(Note 2)
Forward Voltage	V_f	---	3.5	4.0	V	$I_f=20\text{mA}$
Reverse Current	I_R	---	---	100	μA	$V_R=5\text{V}$
SCP	---	---	---	---	---	---
Lumens	---	---	---	---	---	---
Radiant Intensity	---	---	---	---	$\mu\text{W/sr}$	---

Color Rank	Bin Limits (CIE1931 x, y coordinates)							
	Lower Left		Lower Right		Upper Right		Upper Left	
	x	y	x	y	x	y	x	y
LTWW	0.405	0.365	0.435	0.375	0.460	0.436	0.425	0.427

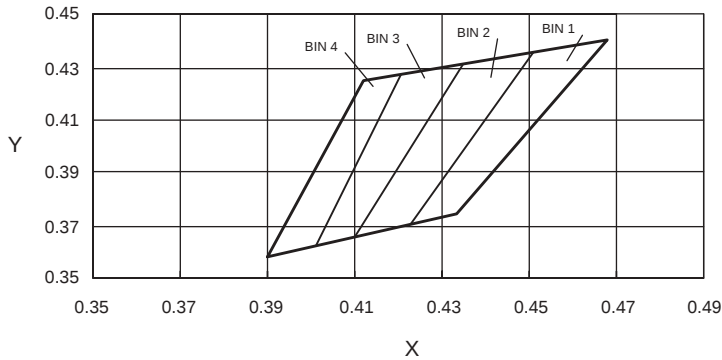
Notes:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $2\theta_{1/2}$ is the off-axis at which the luminous intensity is half the axial luminous intensity.

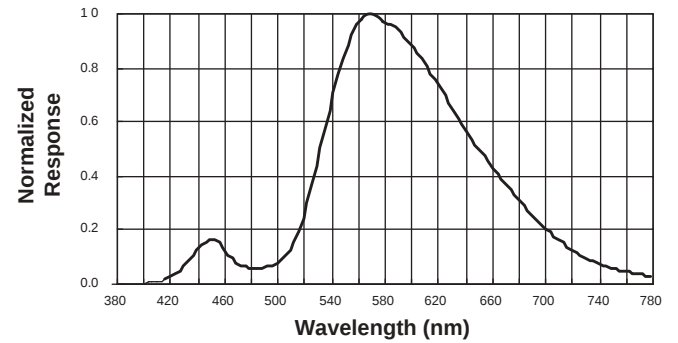
LTR	REVISION	DATE	APPD
B		12-06-05	RM

Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)

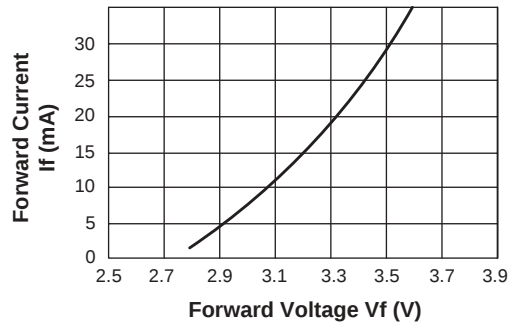
CIE 1931 Chromaticity Diagram



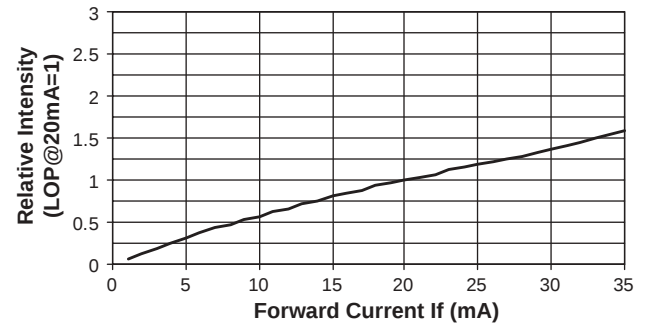
Spectral Radiance



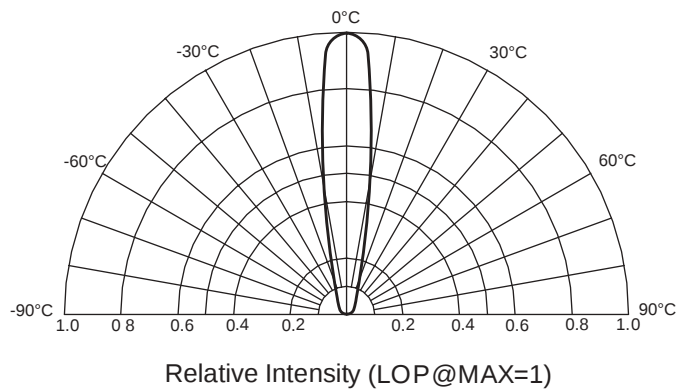
**Forward Current
vs Forward Voltage**



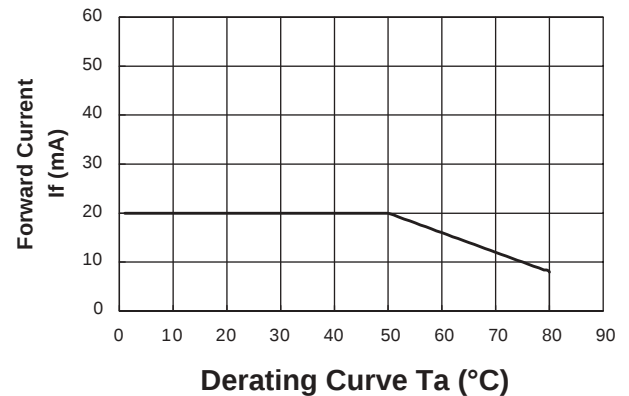
**Relative Luminous Intensity
vs Forward Current**



Beam Pattern



**Forward Current
vs Derating Curve**



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TORRANCE, CA 90505

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.XXX ± .010 TOLERANCE PER ANSI-Y14.5
.XX ± .025 (UNLESS OTHERWISE STATED)
ANGLES ± 0°, 30'
FRACT. ± 1/32

TITLE L200-0IW-20D					
DWG NO DSDC307-B		SCALE NTS		SHEET 3 OF 3	
CODE IDENT NO. 8Z410		DWG BY RM		DATE 12-06-05	
CHK BY QA		MNFG		CUSTOMER	