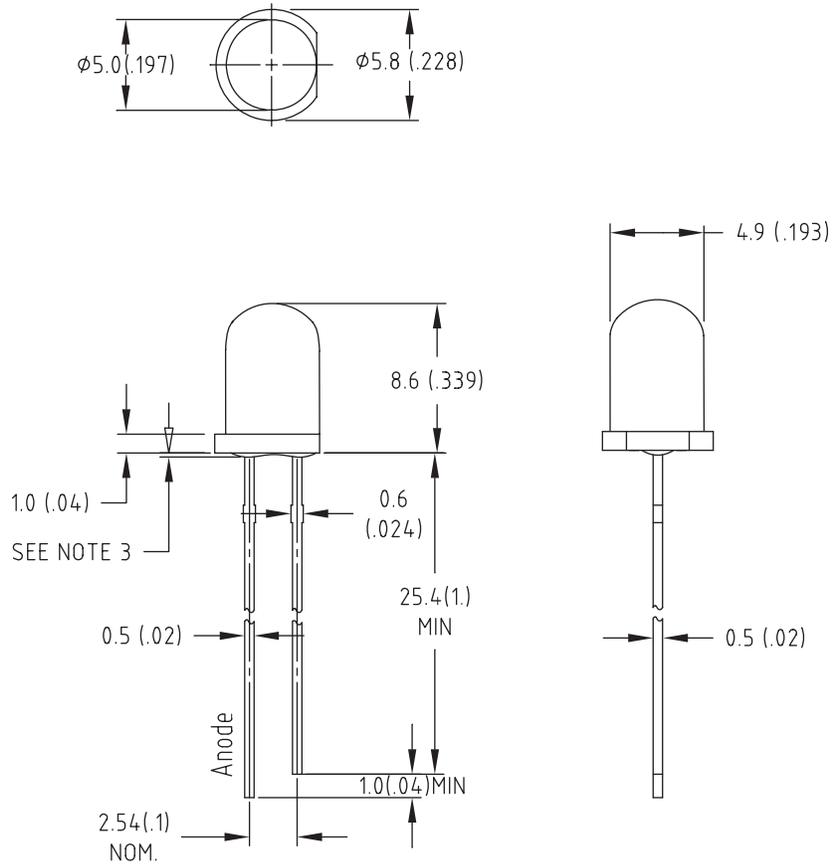


LTR	REVISION	DATE	APPD
B		12-06-05	RM



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

**Notes:**

1. ALL DIMS ARE IN MILLIMETERS (INCHES).
2. TOLERANCE IS  $\pm 0.25\text{mm}$  ( $\pm 0.010"$ ) UNLESS OTHERWISE SPECIFIED.
3. PROTRUDED RESIN UNDER FLANGE IS  $1.0\text{mm}$  ( $.04"$ ) MAX.
4. LEAD SPACING IS MEASURED WHERE LEADS EMERGE FROM THE PACKAGE.
5. LEADS TO BE SOLDERABLE AND CAPABLE OF MEETING THE SOLDERABILITY REQUIREMENTS OF MIL-STD-202, METHOD 208.
6. MANUFACTURE DATE SHALL NOT BE OLDER THAN 26 WEEKS (6 MONTHS).

**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING-  
ELECTROSTATIC  
SENSITIVE  
DEVICES

<p><b>LEDTRONICS, INC.™</b> 23105 KASHIWA COURT TORRANCE, CA 90505</p>	<p style="text-align: center;">-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.™.</p> <p>.XXX ± .010      TOLERANCE PER ANSI-Y14.5 .XX ± .025      (UNLESS OTHERWISE STATED) ANGLES ± 0°, 30' FRACT. ± 1/32</p>	TITLE				<b>L200-0IW-40D</b>	
		DWG NO		SCALE	SHEET	DATE	
		DSDC316		2:1	1 OF 3	09-29-03	
		CODE IDENT NO.	DWG BY	CHK BY	QA	MNFG	CUSTOMER
8Z410	RM	PL 12-13-05	GZ 12-13-05				

LTR	REVISION	DATE	APPD
B		12-06-05	RM

### 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	$I_v$	---	2400	---	mcd	$I_f=20mA$ (Note 1)
Viewing Angle	$2\theta_{1/2}$	---	40	---	Deg	(Note 2)
Forward Voltage	$V_f$	---	3.5	4.0	V	$I_f=20mA$
Reverse Current	$I_R$	---	---	100	$\mu A$	$V_R=5V$
SCP	---	---	---	---	---	---
Lumens	---	---	---	---	---	---
Radiant Intensity	---	---	---	---	$\mu W/sr$	---

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.
- $\theta_{1/2}$  is the off-axis at which the luminous intensity is half the axial luminous intensity.

**LED**<sup>®</sup>  
**LEDTRONICS, INC.**<sup>™</sup>  
 23105 KASHIWA COURT  
 TORRANCE, CA 90505

**-PROPRIETARY-**  
 This document contains Proprietary Information of LEDTRONICS, INC.<sup>™</sup>  
 It may not be copied, used or disclosed for any purpose without the prior express written consent of LEDTRONICS, INC.<sup>™</sup>

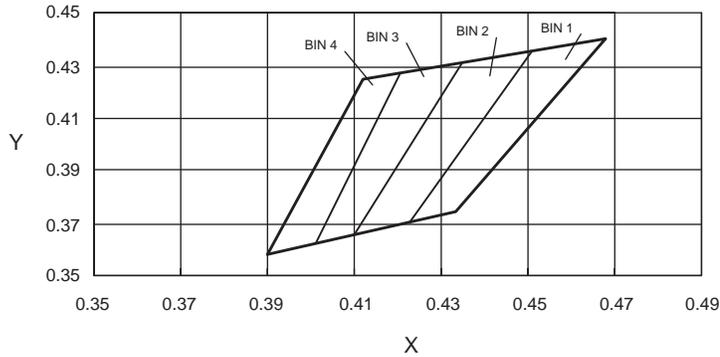
XXX ± .010 TOLERANCE PER ANSI-Y14.5  
 .XX ± .025 (UNLESS OTHERWISE STATED)  
 ANGLES ± 0°, 30'  
 FRACT. ± 1/32

TITLE <b>L200-0IW-40D</b>							
DWG NO DSDC316-A		SCALE NTS		SHEET 2 OF 3		DATE 12-06-05	
CODE IDENT NO. 8Z410	DWG BY RM	CHK BY	QA	MNFG	CUSTOMER		

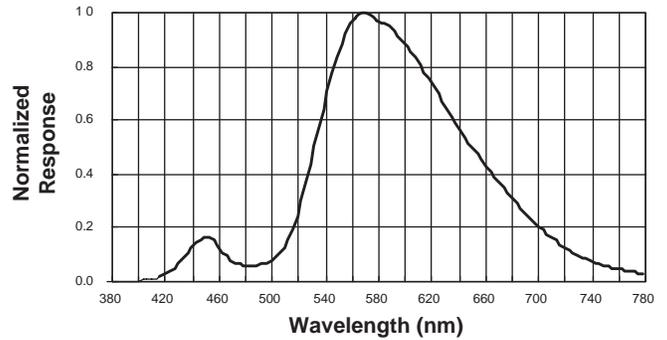
LTR	REVISION	DATE	APPD
B		12-06-05	RM

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

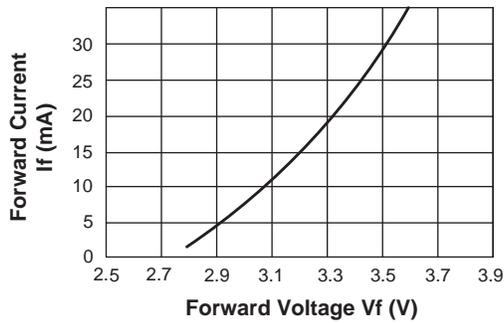
**CIE 1931 Chromaticity Diagram**



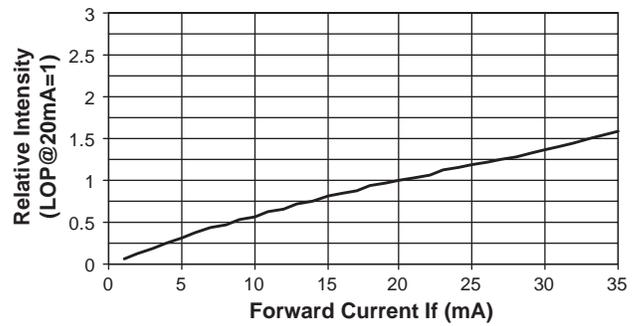
**Spectral Radiance**



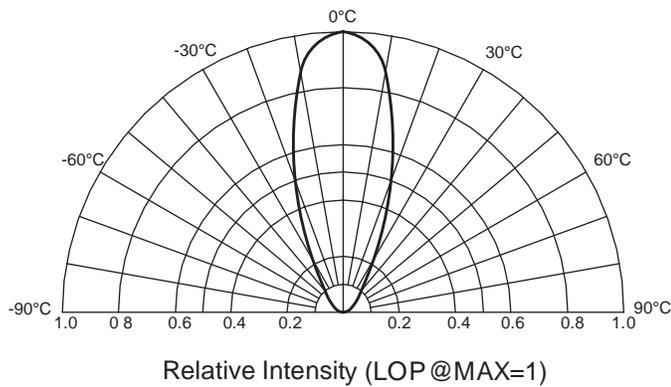
**Forward Current vs Forward Voltage**



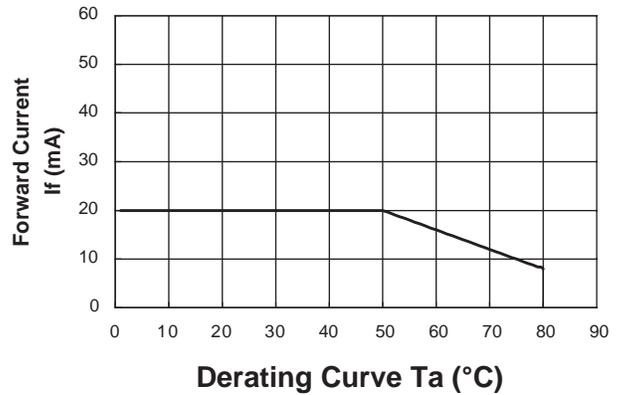
**Relative Luminous Intensity vs Forward Current**



**Beam Pattern**



**Forward Current vs Derating Curve**



**LED<sup>®</sup>**  
**LEDTRONICS, INC.<sup>™</sup>**  
 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.  
 .XXX ± .010 TOLERANCE PER ANSI-Y14.5 (UNLESS OTHERWISE STATED)  
 .XX ± .025  
 ANGLES ± 0°, 30'  
 FRACT. ± 1/32

TITLE		L200-01W-40D	
DWG NO	SCALE	SHEET	DATE
DSDC316-B	NTS	3 OF 3	12-06-05
CODE IDENT NO.	DWG BY	CHK BY	CUSTOMER
8Z410	RM	QA	
		MNFG	