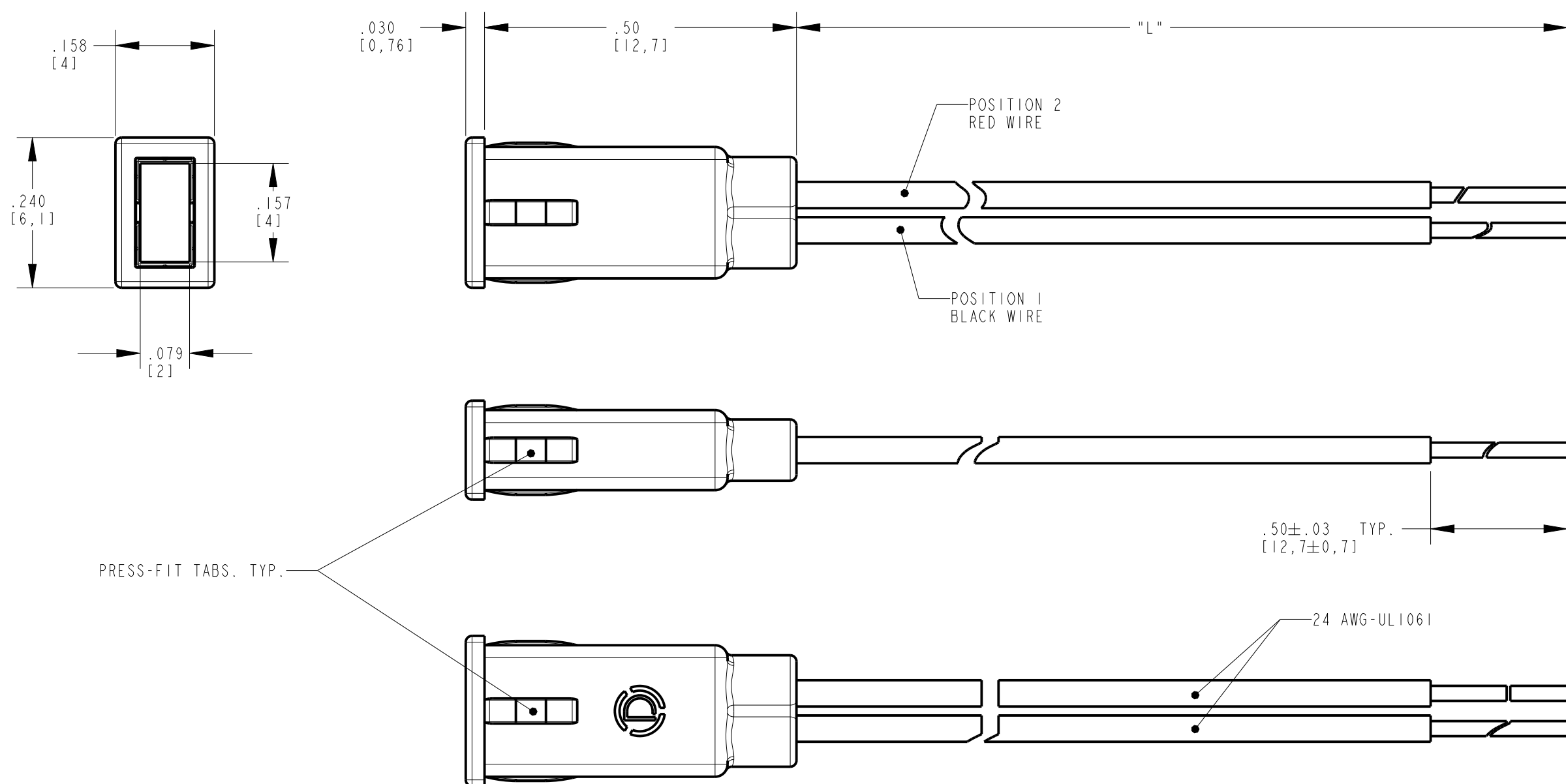


PART No:	COLOR	DIE	Vf(V)		TYP. If(mA)	LED EPOXY COLOR	DOM. WAVELENGTH(nm)			INTENSITY(mc d)		REVERSE CURRENT(μA)	VIEWING ANGLE	ABSOLUTE MAXIMUM RATINGS AT Ta=25C				
			TYP.	MAX.			MIN.	TYP.	MAX.	MIN.	TYP.			MAX.	POWER DISSIPATION (mW)	PEAK FORWARD CURRENT(mA)	DC FORWARD CURRENT(mA)	OPERATING TEMP.
559-8100-007F	RED	HI-EFF. RED	2.0	2.6	20	RED DIFFUSED		570		1.1	3.7	100	104	100	120	30	-55°C TO +100°C	-55°C TO +100°C
559-8200-007F	GREEN	GaP	2.1	2.6	20	GREEN DIFFUSED		566		3.75	5.6	100	104	100	90	30	-55°C TO +100°C	-55°C TO +100°C
559-8300-007F	YELLOW	YELLOW	2.1	2.6	20	YELLOW DIFFUSED		588		0.7	2.5	100	104	60	90	30	-55°C TO +100°C	-55°C TO +100°C
559-8120-007F	RED ORANGE	RED ORANGE	2.1	2.6	20	WHITE DIFFUSED		621		1.7	5.6	100	140	100	120	30	-55°C TO +100°C	-55°C TO +100°C
	GREEN	GREEN	2.1	2.6				569		1.7	5.6			100	120	30		
559-8320-007F	YELLOW GREEN	YELLOW GREEN	2.1	2.6	20	WHITE DIFFUSED	565	570	575	9	15	100	120	52	60	20	-40°C TO 85°C	-40°C TO 100°C
	YELLOW	YELLOW	2.1	2.6			584	591	594	4	11			52	60	20		
559-8400-007F	BLUE	InGaN	3.2		10	BLUE		468		30	67	100	100	80	60	20	-30°C TO 85°C	-40°C TO 100°C

REV	REVISIONS	DRN	APP	DATE
A	NEW RELEASE	JGL	SK	10/19/2020
B	UPDATED CHARTS	JGL	SK	01/11/2021
C	ADDED P/N: 559-8400-007F	JGL	SK	6/17/2022

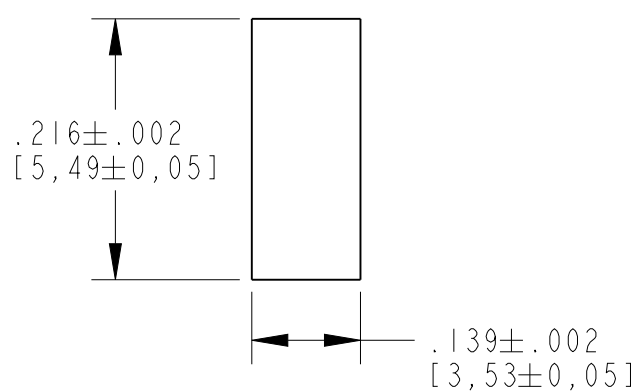


PART NUMBER	COLOR	POSITION 1 (BLACK WIRE)	POSITION 2 (RED WIRE)	"L"
559-8100-007F	RED	CATHODE		14.1"±0.12[358±3]
559-8200-007F	GREEN	CATHODE		14.1"±0.12[358±3]
559-8300-007F	YELLOW	CATHODE		14.1"±0.12[358±3]
559-8120-007F	RED ORANGE	CATHODE		14.1"±0.12[358±3]
	GREEN		CATHODE	
559-8320-007F	YELLOW	CATHODE		14.1"±0.12[358±3]
	YELLOW GREEN		CATHODE	
559-8400-007F	BLUE	CATHODE		14.1"±0.12[358±3]

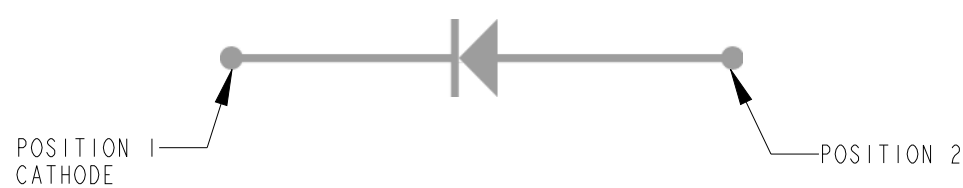
NOTES:

- REQUIRES EXTERNAL RESISTOR. MAXIMUM FORWARD D.C. CURRENT 7mA.
- LED LEAD DIMENSIONS SHOWN ARE MEASURED AT HOUSING EXIT.
- PIN(POSITION) NUMBERS FOR REFERENCE ONLY. DESIGNATION NON-EXISTENT ON PART.
- DIALIGHT PART NUMBERS: 559-8XX0-007F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.

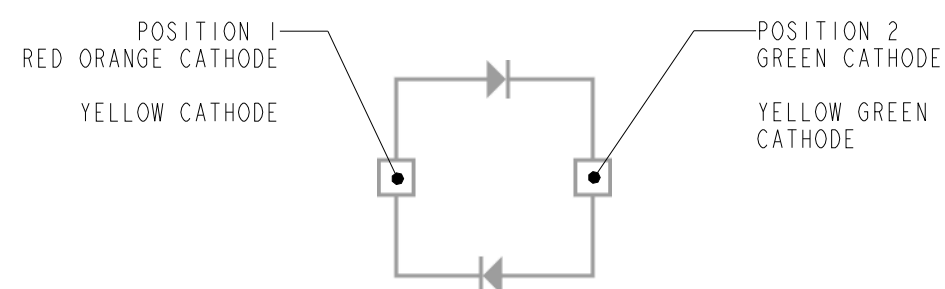
RECOMMENDED MOUNTING HOLE



SINGLE COLOR LED DIODE DIAGRAM



BI-COLOR LED DIODE DIAGRAM



ATTENTION:  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT CORP.		
DIALIGHT CORP. INTERNAL REFERENCE ONLY - 3D MODEL: 559810007F-A-2		
SCALE: 5.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18489	C
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	RECT PMI IND
FRACTIONS: ±1/64	MATERIAL	
DECIMALS (.XX): ±.01		
DECIMALS (.XXX): ±.005		
DECIMALS (.XXXX): ±.0005		
ANGLES: ±1°		
FINISH		
FSCM 83330	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
SHEET 1 OF 2	FAMILY TABLE:	

# TYPICAL ELECTRICAL/OPTICAL CHARACTERISTICS CURVS (AT 25°C AMBIENT TEMPERATURE)

PART NUMBER: 559-8100-007E

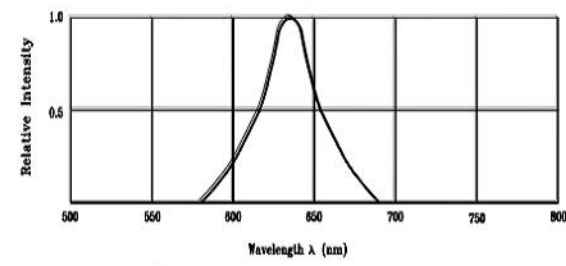


Fig.1 Relative Intensity vs. Wavelength

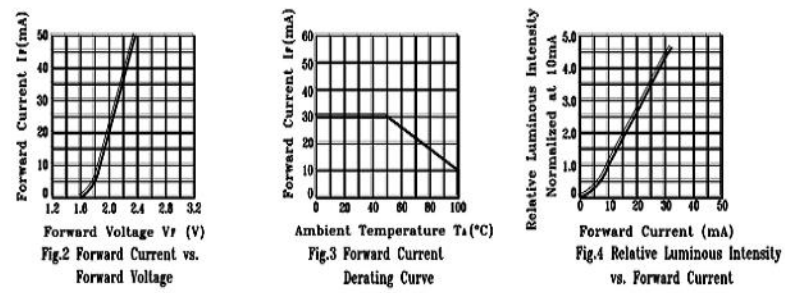


Fig.2 Forward Current vs. Forward Voltage  
Fig.3 Forward Current Derating Curve  
Fig.4 Relative Luminous Intensity vs. Forward Current

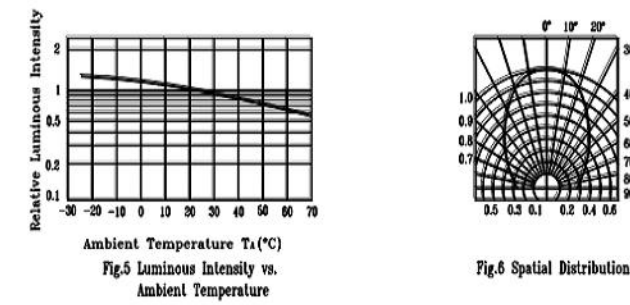


Fig.5 Luminous Intensity vs. Ambient Temperature  
Fig.6 Spatial Distribution

PART NUMBER: 559-8200-007E

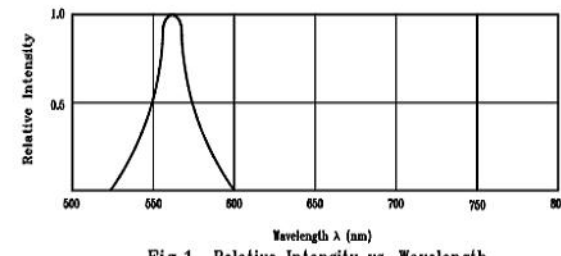


Fig.1 Relative Intensity vs. Wavelength

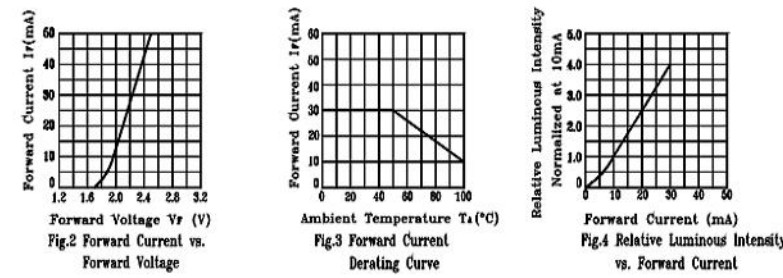


Fig.2 Forward Current vs. Forward Voltage  
Fig.3 Forward Current Derating Curve  
Fig.4 Relative Luminous Intensity vs. Forward Current

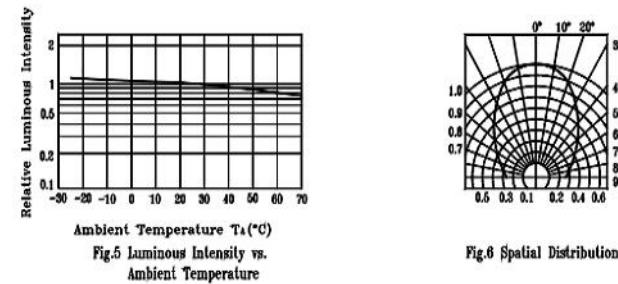


Fig.5 Luminous Intensity vs. Ambient Temperature  
Fig.6 Spatial Distribution

PART NUMBER: 559-8300-007E

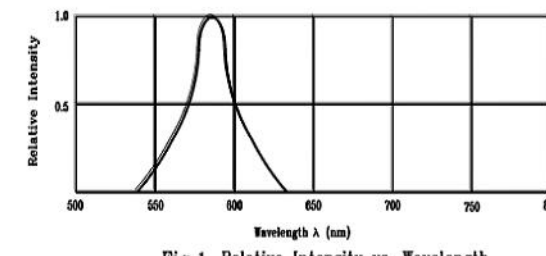


Fig.1 Relative Intensity vs. Wavelength

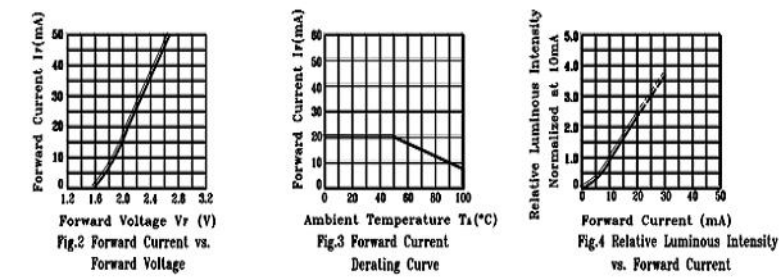


Fig.2 Forward Current vs. Forward Voltage  
Fig.3 Forward Current Derating Curve  
Fig.4 Relative Luminous Intensity vs. Forward Current

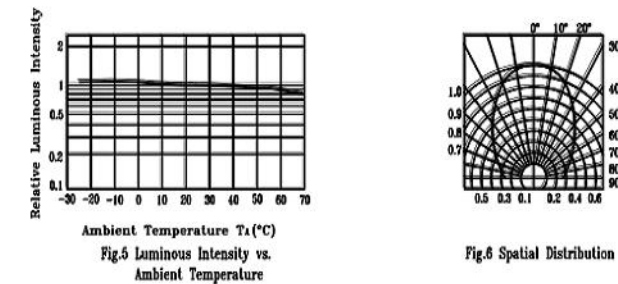


Fig.5 Luminous Intensity vs. Ambient Temperature  
Fig.6 Spatial Distribution

PART NUMBER: 559-8120-007E

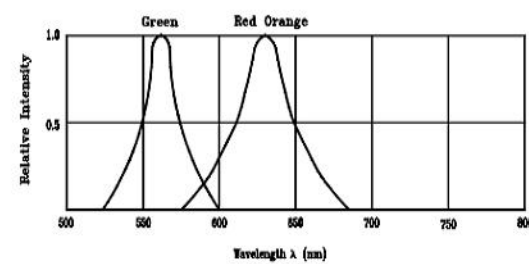


Fig.1 Relative Intensity vs. Wavelength

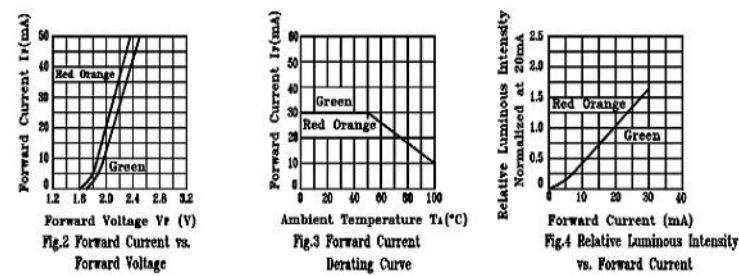


Fig.2 Forward Current vs. Forward Voltage  
Fig.3 Forward Current Derating Curve  
Fig.4 Relative Luminous Intensity vs. Forward Current

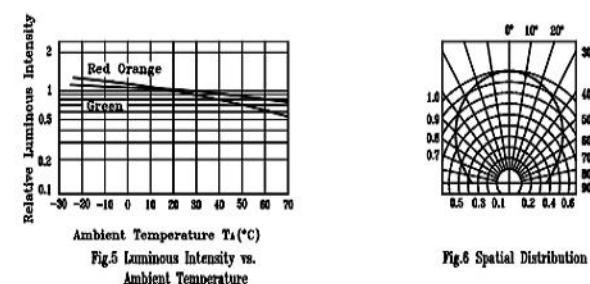


Fig.5 Luminous Intensity vs. Ambient Temperature  
Fig.6 Spatial Distribution

PART NUMBER: 559-8320-007E

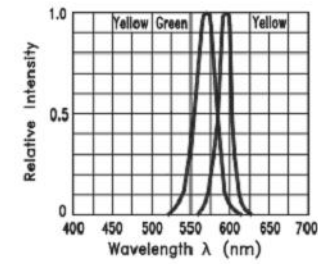


Fig.1 Relative Intensity vs. Wavelength

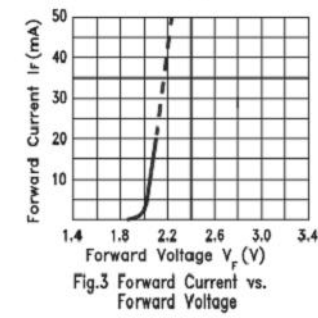


Fig.3 Forward Current vs. Forward Voltage

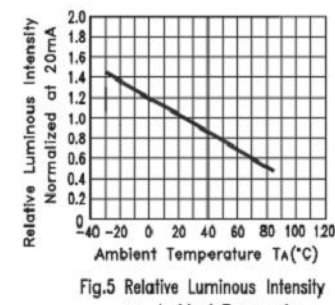


Fig.5 Relative Luminous Intensity vs. Ambient Temperature

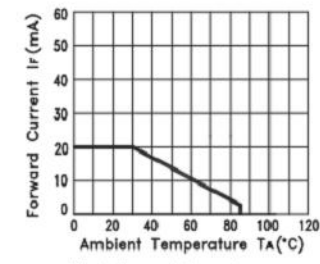


Fig.2 Forward Current Derating Curve

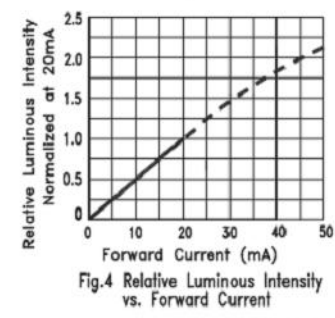


Fig.4 Relative Luminous Intensity vs. Forward Current

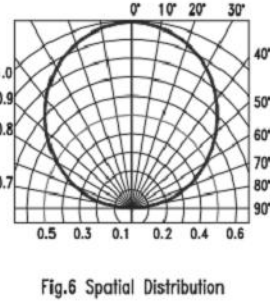


Fig.6 Spatial Distribution

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT CORP.		
DIALIGHT CORP INTERNAL REFERENCE ONLY = 3D MODEL : 559810007E-A.2		
SCALE: 5:000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18489	C
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE RECT PMI IND	
FRACTIONS: ±1/64	MATERIAL	
DECIMALS (.XX): ±.01	FINISH	
DECIMALS (.XXX): ±.005	FSCM 83330	
DECIMALS (.XXXX): ±.0005	SHEET 2 OF 2 FAMILY TABLE:	
ANGLES: ±1°	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	