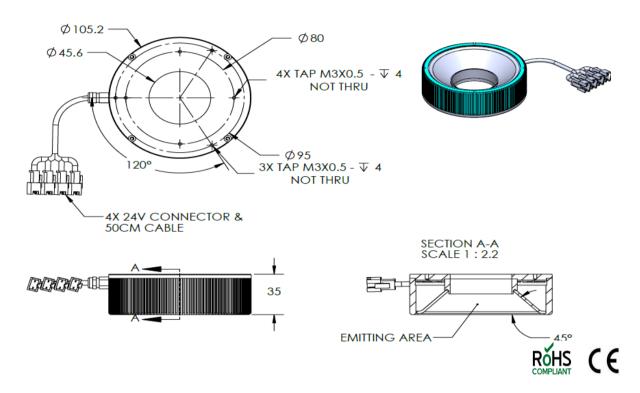


LT3RZF100-45-1-RGBW-24V

Lighting Dimension



	Mechanical Information				
Casing Material	Aluminium				
Storage Temperature Range	0 - 45°C				
Storage Humidity Range	20 - 85%				
Weight	225 g				
Length / Outer Diameter	105.2 mm				
Width / Inner Diameter	45.6 mm				
Thickness / Height	35 mm				



				Lig	hting Inform	nation						
Part Number		LT3RZF100-45-1-RGBW-24V										
LED Color	RED		GREEN		BLUE		WHITE					
Wavelength		630 nm		525 nm		470 nm		refer to chromaticity table				
Working Distance	5 mm	22 mm	39 mm	5 mm	22 mm	39 mm	5 mm	22 mm	39 mm	5 mm	22 mm	39 mm
Intensity (±15%)	4970 lx	5509 lx	4828 lx	23060 lx	25318 lx	21058 lx	23060 lx	25318 lx	21058 lx	23060 lx	25318 lx	21058 lx
Illumination (number of row)							1					
Illumination Active Area	Active Leng	gth / Outer I	Dia.					95 mm				
mummation Active Area	Active Wid	ctive Width / Inner Dia. 46 mm										
Emission angle		45										
Eye Safety Class (IEC62471)		EXEMPT EXEMPT II EXEMPT										
Chromaticity Table		X 0.296 0.287 0.307 0.311 X 0.311 0.307 0.33 0.33										
For White colour only				Y 0.276	0.295 0.315	0.294	Y 0.294	0.315 0.339	0.318			

		Electrical Information					
Rated Constant Voltage		24V±2%					
Rated Constant Current	270 mA	270 mA 270 mA 270 mA 270 mA					
Power Consumption	6.50 W	6.50 W	6.50 W	6.50 W			
Casing temperature,		54.5 °C					
After 60 minutes operation		34.3 C					
Max. continous current of RED,	*It is not recommended to turn on Re	ed, Green and Blue colour at the	e same time. Refer to Maximum Simu	Itaneous Current Output section in			
GREEN & BLUE LEDs on at the	the last page for maximum currer	the last page for maximum current that can be supplied for each colour. Failure in following this may results in damaging the lighting.					
same time							

			Strobe Mode	Specification				
**Normal Strobe Voltage		24 V						
**Normal Strobe Current	270 r	270 mA 270 mA 270 mA 270 mA					nΑ	
Overdrive Voltage Range	Min: 36 V	Max: 48 V	Min: 36 V	Max: 48 V	Min: 36 V	Max: 48 V	Min: 36 V	Max: 48 V
Overdrive Current Range	Min: 0.62 A	Max: 1 A	Min: 0.62 A	Max: 1 A	Min: 0.62 A	Max: 1 A	Min: 0.62 A	Max: 1 A
Max. pulse current of RED,	*It is not recomm	*It is not recommended to turn on Red, Green and Blue colour at the same time. Refer to Maximum Simultaneous Current Output section in					itput section in	
GREEN & BLUE LEDs on at the	the last page f	the last page for maximum current that can be supplied for each colour. Failure in following this may results in damaging the lighting.						
same time								
Recommended Overdrive		25.1						
Voltage		36 V						
***Max. Trigger Pulse Duration		10 msec						
***Max. Duty Cycle				•	10%		•	•

^{**}Normal strobe means the lighting is operated using the rated power. Overdrive means the power supplied to the lighting exceeded the rated power.

^{***}Overdrive condition must not exceed the max. trigger pulse duration and max. duty cycle. Failure in following this may results in damaging the lighting.



	Co	onnection Information			
Connector Type (Default)	JST SMR-03V				
Cable Length	50 cm				
Pin Configuration	Pin	Signal	Cable Colour		
	1	LED +	Red		
	2	N.C	-		
	3	LED -	White		
		3			

	Additional Information				
Additional Cooling Method	Additional Cooling Method Attached to machine part for better heat dissipation				
Intensity Controller Selection SD, ST, ANG, LC, SDA, SDP series					
CE Conformity	YES				
RoHS Compliance	YES				

Application Application				
Illumination Type	Diffused, Angular Ring Illumination			
Application Use	Character Recognition on Shining Surface, Lead Inspection			



		Maximum Simulteneous Current Output Information	
Colour	Current Limit (A)	Remarks	
SINGLE COLOUR : RED	0.27 A	TOTAL CURRENT OUTPUT : 0.27 A RECOMMENDED OVERDRIVE CURRENT : 0.62 A (36 V) ** OPTIMUM FOR SINGLE COLOUR	
SINGLE COLOUR : GREEN	0.27 A	TOTAL CURRENT OUTPUT : 0.27 A RECOMMENDED OVERDRIVE CURRENT : 0.62 A (36 V) ** OPTIMUM FOR SINGLE COLOUR	
SINGLE COLOUR : BLUE	0.27 A	TOTAL CURRENT OUTPUT : 0.27 A RECOMMENDED OVERDRIVE CURRENT : 0.62 A (36 V) ** OPTIMUM FOR SINGLE COLOUR	
COMBINE 2 COLOUR: RED & BLUE	0.27 A	TOTAL CURRENT OUTPUT: 0.27 A *****(EXAMPLE: RED = 0.135 A, BLUE = 0.135 A) ****(OVERDRIVE STROBE MODE EXAMPLE: RED = 0.31 A, BLUE = 0.31 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A	
COMBINE 2 COLOUR: RED & GREEN	0.27 A	TOTAL CURRENT OUTPUT: 0.27 A *****(EXAMPLE: RED = 0.135 A, GREEN = 0.135 A) *****(OVERDRIVE STROBE MODE EXAMPLE: RED = 0.31 A, GREEN = 0.31 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A	
COMBINE 2 COLOUR: GREEN & BLUE	0.27 A	TOTAL CURRENT OUTPUT: 0.27 A *****(EXAMPLE: GREEN = 0.135 A, BLUE = 0.135 A) *****(OVERDRIVE STROSE MODE EXAMPLE: RED = 0.31 A, BLUE = 0.31 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A	•
COMBINE COLOUR: RED, GREEN & BLUE	0.27 A	TOTAL CURRENT OUTPUT: 0.27 A ****(EXAMPLE: RED = 0.09 A, GREEN = 0.09 A, BLUE = 0.09 A) ****(OVERDRIVE STROBE MODE EXAMPLE: RED = 0.21 A, GREEN = 0.21 A, BLUE = 0.21 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A	



	Ligh	ting Pattern		
Working Distance		For further details pleas	e contact us.	
Display and Image				
Data Results	Horizontal 90% 80% 70% 60% 50% 40% 30% 20%	Meas.(mm)	Vertical 90% 80% 70% 60% 50% 40% 30% 20%	Meas.(mm)