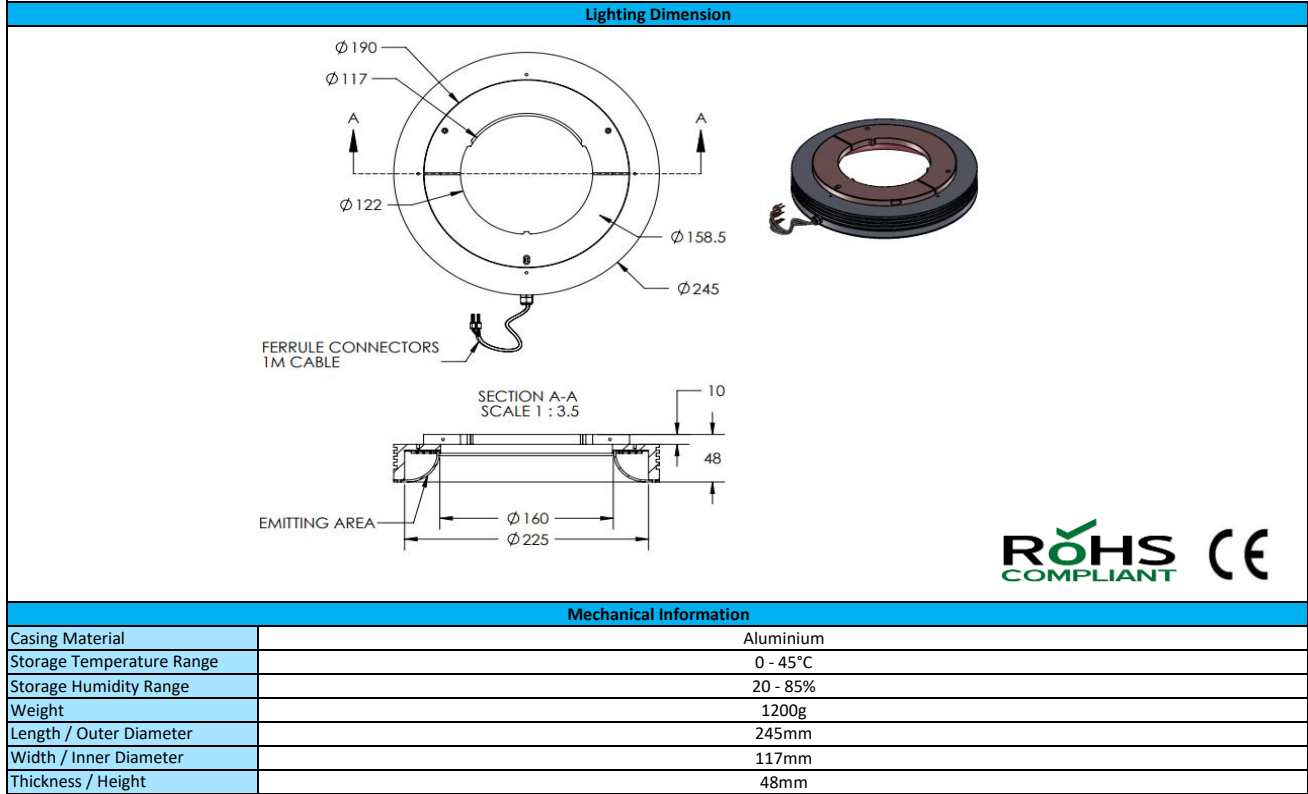




OPTO ENGINEERING

# ILLUMINATOR DATA

## LTRN245RGBW





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# ILLUMINATOR DATA

## LTRN245RGBW

Lighting Information																																
Part Number	LTRN245RGBW																															
LED Color	RED			GREEN			BLUE			WHITE																						
Wavelength	630			525			470			REFER CHROMACITY TABLE																						
Working Distance	45mm	55mm	65mm	45mm	55mm	65mm	45mm	55mm	65mm	45mm	55mm	65mm																				
Intensity (±15%)	FOR FURTHER INFORMATION PLEASE CONTACT US																															
Illumination (number of row)	1																															
Illumination Active Area	Active Length / Outer Dia.						225mm																									
	Active Width / Inner Dia.						160mm																									
Emission angle	0																															
Eye Safety Class ( IEC62471 )	EXEMPT			EXEMPT			II			EXEMPT																						
Chromaticity Table	<table border="1"> <tr> <td>X</td> <td>0.296</td> <td>0.287</td> <td>0.307</td> <td>0.311</td> <td>X</td> <td>0.311</td> <td>0.307</td> <td>0.33</td> <td>0.33</td> </tr> <tr> <td>Y</td> <td>0.276</td> <td>0.295</td> <td>0.315</td> <td>0.294</td> <td>Y</td> <td>0.294</td> <td>0.315</td> <td>0.339</td> <td>0.318</td> </tr> </table>												X	0.296	0.287	0.307	0.311	X	0.311	0.307	0.33	0.33	Y	0.276	0.295	0.315	0.294	Y	0.294	0.315	0.339	0.318
X	0.296	0.287	0.307	0.311	X	0.311	0.307	0.33	0.33																							
Y	0.276	0.295	0.315	0.294	Y	0.294	0.315	0.339	0.318																							
For White colour only																																

Electrical Information				
Rated Constant Voltage	24V			
Rated Constant Current	910mA	630mA	700mA	1120mA
Power Consumption	21.84W	15.12W	16.8W	26.88W
Casing temperature, After 60 minutes operation	59.8			
Max. continous current of RED, GREEN & BLUE LEDs on at the same time	*It is not recommended to turn on Red, Green and Blue colour at the same time. Refer to Maximum Simultaneous Current Output section in the last page for maximum current that can be supplied for each colour. Failure in following this may results in damaging the lighting.			

Strobe Mode Specification				
*Normal Strobe Voltage	24V			
*Normal Strobe Current	910mA	630mA	700mA	1120mA
Overdrive Voltage Range	Min: 36V Max: 48V	Min: 36V Max: 48V	Min: 36V Max: 48V	Min: 36V Max: 48V
Overdrive Current Range	Min: 1365mA Max: 1820mA	Min: 945mA Max: 1260mA	Min: 1050mA Max: 1400mA	Min: 1680mA Max: 2240mA
Max. pulse current of RED, GREEN & BLUE LEDs on at the same time	*It is not recommended to turn on Red, Green and Blue colour at the same time. Refer to Maximum Simultaneous Current Output section in the last page for maximum current that can be supplied for each colour. Failure in following this may results in damaging the lighting.			
Recommended Overdrive Voltage	36V			
**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.



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# ILLUMINATOR DATA

## LTRN245RGBW

Connection Information		
Connector Type (Default)	Ferrule-Type	
Cable Length	100cm	
Pin Configuration	Color	Electrical Polarity
	Brown	24V (+)
	White	WHITE (-)
	Yellow	RED (-)
	Green	GREEN (-)
	Grey	BLUE (-)

Additional Information	
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	
Illumination Type	Diffused Ring Illumination
Application Use	Shining Surface and Food Packaging Inspection



OPTO ENGINEERING

# ILLUMINATOR DATA

## LTRN245RGBW

Maximum Simultaneous Current Output Information		
Colour	Current Limit (A)	Remarks
 SINGLE COLOUR : RED		TOTAL CURRENT OUTPUT : 0.5 A RECOMMENDED OVERDRIVE CURRENT : 1.1 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : GREEN		TOTAL CURRENT OUTPUT : 0.4 A RECOMMENDED OVERDRIVE CURRENT : 1.21 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 SINGLE COLOUR : BLUE		TOTAL CURRENT OUTPUT : 0.45 A RECOMMENDED OVERDRIVE CURRENT : 1.21 A (36 V) ** OPTIMUM FOR SINGLE COLOUR
 COMBINE 2 COLOUR: RED & BLUE		TOTAL CURRENT OUTPUT : 0.5 A ****(EXAMPLE : RED = 0.25 A , BLUE = 0.25 A) ****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.5 A , BLUE = 0.5 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 
 COMBINE 2 COLOUR: RED & GREEN		TOTAL CURRENT OUTPUT : 0.5 A ****(EXAMPLE : RED = 0.25 A , GREEN = 0.25 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 
 COMBINE 2 COLOUR: GREEN & BLUE		TOTAL CURRENT OUTPUT : 0.5 A ****(EXAMPLE : GREEN = 0.25 A , BLUE = 0.25 A) ****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.5 A , BLUE = 0.5 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 
 COMBINE COLOUR: RED, GREEN & BLUE		TOTAL CURRENT OUTPUT : 0.5 A ****(EXAMPLE : RED = 0.16 A , GREEN = 0.16 A , BLUE = 0.16 A) ****(OVERDRIVE STROBE MODE EXAMPLE : RED = 0.33 A , GREEN = 0.33 A , BLUE = 0.33 A) FOR COMBINE COLOUR TEMPERATURE CANNOT EXCEED MORE THAN 60°C ENSURE CURRENT MUST NOT EXCEED 0.5 A 

## LTRN245RGBW

Lighting Pattern				
Working Distance	For further details please contact us.			
Display and Image				
Data Results	Horizontal		Vertical	
		Meas.(mm)		Meas.(mm)
	90%		90%	
	80%		80%	
	70%		70%	
	60%		60%	
	50%		50%	
	40%		40%	
	30%		30%	
	20%		20%	
	10%		10%	