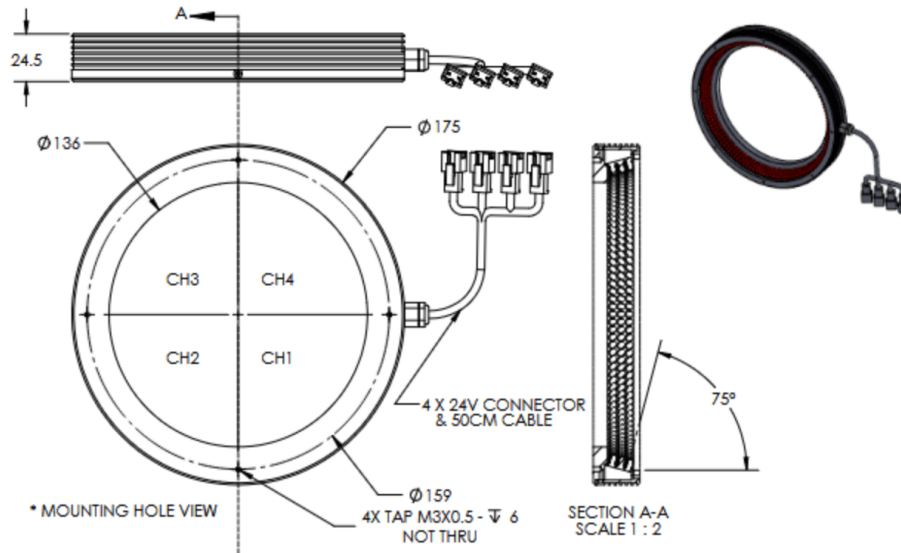


LTZZ0170-75-3-B-24V-CH4

Lighting Dimension



Mechanical Information

Casing Material	Aluminium
Storage Temperature Range	0 - 45°C
Storage Humidity Range	20 - 85%
Weight	0g
Width / Inner Diameter	136mm
Length / Outer Diameter	175mm
Height / Thickness	24.5mm

ILLUMINATOR DATA

LTZZO170-75-3-B-24V-CH4

Lighting Information																																																																								
LED Color	BLUE			BLUE			BLUE			BLUE																																																														
Wavelength	<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div></div><div><div>Relative Intensity</div><div>Wavelength (nm)</div></div><div>465 nm</div></div></div></div>			<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div></div><div><div>Relative Intensity</div><div>Wavelength (nm)</div></div><div>465 nm</div></div></div></div>			<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div></div><div><div>Relative Intensity</div><div>Wavelength (nm)</div></div><div>465 nm</div></div></div></div>			<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div><div></div></div></div></div><div><div>Relative Intensity</div><div>Wavelength (nm)</div></div><div>465 nm</div></div></div></div>																																																														
Working Distance	170 mm	181 mm	192m m	170 mm	181 mm	192m m	170 mm	181 mm	192m m	170 mm	181 mm	192m m																																																												
Intensity (±15%)	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx	0lx																																																												
Illumination (Number of Row)	3			3			3			3																																																														
Illumination Active Area	Active Outer Diameter						160																																																																	
	Active Inner Diameter						136																																																																	
Emission Angle	75°			75°			75°			75°																																																														
Eye Safety Class (IEC62471)	EXEMPT			EXEMPT			EXEMPT			EXEMPT																																																														
	Products with sources, which do not pose any potential photobiological hazard even for the continuous and unrestricted exposure. Example: 8 hours of exposure poses no acute hazard to either eye or skin, and 10,000 seconds (2.8 hours) of the intent starting causes no blue light retinal hazard.			Products with sources, which do not pose any potential photobiological hazard even for the continuous and unrestricted exposure. Example: 8 hours of exposure poses no acute hazard to either eye or skin, and 10,000 seconds (2.8 hours) of the intent starting causes no blue light retinal hazard.			Products with sources, which do not pose any potential photobiological hazard even for the continuous and unrestricted exposure. Example: 8 hours of exposure poses no acute hazard to either eye or skin, and 10,000 seconds (2.8 hours) of the intent starting causes no blue light retinal hazard.			Products with sources, which do not pose any potential photobiological hazard even for the continuous and unrestricted exposure. Example: 8 hours of exposure poses no acute hazard to either eye or skin, and 10,000 seconds (2.8 hours) of the intent starting causes no blue light retinal hazard.																																																														
Chromaticity Table For White Colour Only	<div>Color Rank</div> <table><tr><th></th><th>x</th><th>y</th></tr><tr><td>Rank W</td><td>0.11</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.11</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.15</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.15</td><td>0.10</td></tr></table> <div><div>* Ranking at T_{amb} 25°C.</div><div>* Tolerance of measurements of the Forward Voltage is ±3%.</div><div>* Tolerance of measurements of the Luminous Intensity is ±10%.</div><div>* Tolerance of measurements of the Chromaticity Coordinate is ±0.01.</div><div>* A shipment shall consist of LEDs in a combination of the above ranks.</div><div>The percentage of each rank in the shipment shall be determined by Nichia.</div></div>				x	y	Rank W	0.11	0.10	Rank W	0.11	0.10	Rank W	0.15	0.10	Rank W	0.15	0.10	<div>Color Rank</div> <table><tr><th></th><th>x</th><th>y</th></tr><tr><td>Rank W</td><td>0.11</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.11</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.15</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.15</td><td>0.10</td></tr></table> <div><div>* Ranking at T_{amb} 25°C.</div><div>* Tolerance of measurements of the Forward Voltage is ±3%.</div><div>* Tolerance of measurements of the Luminous Intensity is ±10%.</div><div>* Tolerance of measurements of the Chromaticity Coordinate is ±0.01.</div><div>* A shipment shall consist of LEDs in a combination of the above ranks.</div><div>The percentage of each rank in the shipment shall be determined by Nichia.</div></div>				x	y	Rank W	0.11	0.10	Rank W	0.11	0.10	Rank W	0.15	0.10	Rank W	0.15	0.10	<div>Color Rank</div> <table><tr><th></th><th>x</th><th>y</th></tr><tr><td>Rank W</td><td>0.11</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.11</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.15</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.15</td><td>0.10</td></tr></table> <div><div>* Ranking at T_{amb} 25°C.</div><div>* Tolerance of measurements of the Forward Voltage is ±3%.</div><div>* Tolerance of measurements of the Luminous Intensity is ±10%.</div><div>* Tolerance of measurements of the Chromaticity Coordinate is ±0.01.</div><div>* A shipment shall consist of LEDs in a combination of the above ranks.</div><div>The percentage of each rank in the shipment shall be determined by Nichia.</div></div>				x	y	Rank W	0.11	0.10	Rank W	0.11	0.10	Rank W	0.15	0.10	Rank W	0.15	0.10	<div>Color Rank</div> <table><tr><th></th><th>x</th><th>y</th></tr><tr><td>Rank W</td><td>0.11</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.11</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.15</td><td>0.10</td></tr><tr><td>Rank W</td><td>0.15</td><td>0.10</td></tr></table> <div><div>* Ranking at T_{amb} 25°C.</div><div>* Tolerance of measurements of the Forward Voltage is ±3%.</div><div>* Tolerance of measurements of the Luminous Intensity is ±10%.</div><div>* Tolerance of measurements of the Chromaticity Coordinate is ±0.01.</div><div>* A shipment shall consist of LEDs in a combination of the above ranks.</div><div>The percentage of each rank in the shipment shall be determined by Nichia.</div></div>				x	y	Rank W	0.11	0.10	Rank W	0.11	0.10	Rank W	0.15	0.10	Rank W	0.15	0.10
	x	y																																																																						
Rank W	0.11	0.10																																																																						
Rank W	0.11	0.10																																																																						
Rank W	0.15	0.10																																																																						
Rank W	0.15	0.10																																																																						
	x	y																																																																						
Rank W	0.11	0.10																																																																						
Rank W	0.11	0.10																																																																						
Rank W	0.15	0.10																																																																						
Rank W	0.15	0.10																																																																						
	x	y																																																																						
Rank W	0.11	0.10																																																																						
Rank W	0.11	0.10																																																																						
Rank W	0.15	0.10																																																																						
Rank W	0.15	0.10																																																																						
	x	y																																																																						
Rank W	0.11	0.10																																																																						
Rank W	0.11	0.10																																																																						
Rank W	0.15	0.10																																																																						
Rank W	0.15	0.10																																																																						

Electrical Information				
Rated Voltage	24V _(Min) - 24V _(Max)			
Rated Current	780mA	780mA	780mA	780mA
Power Consumption	18.720W	18.720W	18.720W	18.720W
Casing Temperature, After 60 minutes operation	60°C			

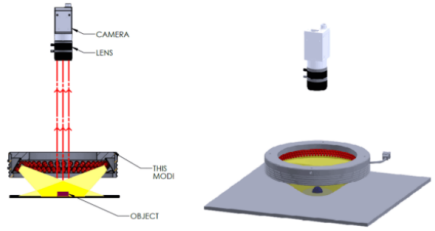
Strobe Mode Specification								
*Normal Strobe Voltage	24V							
*Normal Strobe Current	780mA		780mA		780mA		780mA	
Overdrive Voltage Range	Min: 36V	Max: 48V	Min: 36V	Max: 48V	Min: 36V	Max: 48V	Min: 36V	Max: 48V
Overdrive Current Range	Min: 5923mA	Max: 11066mA	Min: 5923mA	Max: 11066mA	Min: 5923mA	Max: 11066mA	Min: 5923mA	Max: 11066mA
Recommended Overdrive Voltage	36V		36V		36V		36V	

ILLUMINATOR DATA

LTZZ0170-75-3-B-24V-CH4

Connection Information								
Connector Type	JST SMR-03V-B							
Cable Length	500mm							
Pin Configuration	Pin	Signal	Cable Color					
	1	24V	RED					
	2	-	-					
	3	GND	WHITE / BLACK					
	<div></div> <div><table><tr><td>PIN 1</td><td>24V</td></tr><tr><td>PIN 2</td><td>-</td></tr><tr><td>PIN 3</td><td>GND</td></tr></table></div>			PIN 1	24V	PIN 2	-	PIN 3
PIN 1	24V							
PIN 2	-							
PIN 3	GND							

Additional Information	
Additional Cooling Method	Attached to machine part for better heat dissipation
Intensity Controller Selection	LTIC series
CE Conformity	YES
RoHS Compliance	YES

Application	
Illumination Type	Direct, Low Angle, Ring Illumination
Application Use	<ul style="list-style-type: none"> • Edge Detection • Scratch on Metal or Glossy Surface 

ILLUMINATOR DATA

LTZZ0170-75-3-B-24V-CH4

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