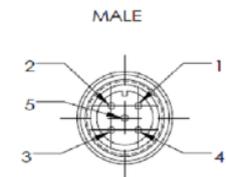
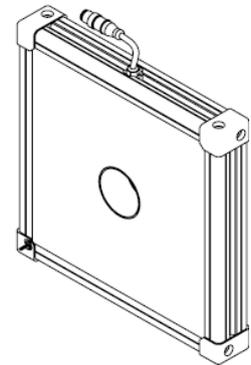
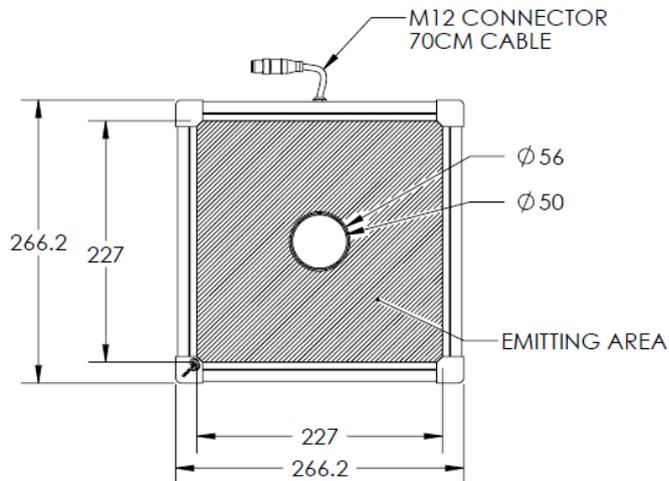


## HBBQ-00-240X240-X-W-24V

### Lighting Dimension



PIN 1	BROWN	24V
PIN 2	WHITE	-
PIN 3	BLUE	GND
PIN 4	BLACK	-
PIN 5	GRAY	-



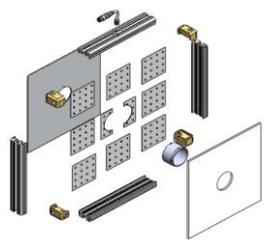
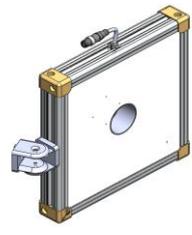
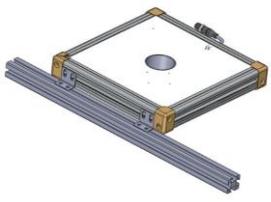
Mechanical Information	
Casing Material	Aluminium
Storage & Operating Temperature Range	Temp 0-60°C, Humidity 20-85%
Weight	1970 g
Length / Outer Diameter	266.2 X 266.2 mm
Width / Inner Diameter	50 mm
Thickness / Height	43 mm



## HBBQ-00-240X240-X-W-24V

Optical Information																					
Part Number	HBBQ-00-240X240-X-W-24V																				
LED Colour	WHITE																				
Wavelength	(nm) *Refer to the Chromaticity Table below																				
Intensity ( ±15%)	(Lux) 9360 7960 6020																				
Working Distance	(mm) 200 220 250																				
Illumination (number of rows)	X																				
Illumination Active Area																					
Active Length / Outer diameter	(mm) 227 X 227																				
Active Width / Inner diameter	(mm) 56																				
Emission Angle	(deg.) 0																				
Eye Safety Class ( IEC62471)	EXEMPT																				
<b>*CHROMATICITY TABLE</b>																					
	<table border="1"> <tr> <td>X</td> <td>0.296</td> <td>0.287</td> <td>0.307</td> <td>0.311</td> </tr> <tr> <td>Y</td> <td>0.276</td> <td>0.295</td> <td>0.315</td> <td>0.294</td> </tr> </table> <table border="1"> <tr> <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>0.294</td> <td>0.315</td> <td>0.339</td> <td>0.318</td> </tr> </table>	X	0.296	0.287	0.307	0.311	Y	0.276	0.295	0.315	0.294	X	0.311	0.307	0.33	0.33	Y	0.294	0.315	0.339	0.318
X	0.296	0.287	0.307	0.311																	
Y	0.276	0.295	0.315	0.294																	
X	0.311	0.307	0.33	0.33																	
Y	0.294	0.315	0.339	0.318																	
Electrical Information																					
Lighting Supply Voltage (constant voltage mode)	24V ± 2%																				
Continuous Current	(mA) 1100																				
Power Consumption	(W) 26.4																				
Lighting Casing Temperature, Operating after 60 minutes	°C 59.5																				
Strobe Mode Specification																					
Pulse Operation	YES																				
Max. Lighting Supply Voltage (constant voltage power supply)	(V) Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC																				
Pulse Current, (Max. 10 msec) (constant current power supply)	(mA) 3300																				
Max. Trigger Pulse Duration	(msec) 10																				
Duty Cycle	0-10%																				
Additional Information																					
Additional Cooling Method	Attached to machine part for better heat dissipation																				
Intensity Controller Selection	SD/SDA-Series																				
CE Conformity	YES																				
RoHS Compliance	YES																				
Connection																					
Connector Type (default)	M12 5 PIN CONNECTOR (MALE)																				
Cable Length (out from lighting)	( mm ) 700																				
Pin Configuration	Pin	Signal	Cable Colour																		
	1	24V	BROWN																		
	2	-	WHITE																		
	3	GND	BLUE																		
	4	-	BLACK																		
	5	-	GRAY																		
Extension Cable																					
Connector Type (default)	M12 5 PIN CONNECTOR (FEMALE)																				
Part Number	EXT-FL-M12F-3M-24V																				
Cable Length (out from female connector)	(mm) 3000																				
Extension Cable (connect to M12 5 Pin Male Connector from lighting)																					
Application																					
Illumination Type	Diffused Illumination																				
Application Use	Robotic picking, inspection for parts identification & missing parts, visual inspection for large workpiece, measuring stamp dimensions for press products																				

# HBBQ-00-240X240-X-W-24V

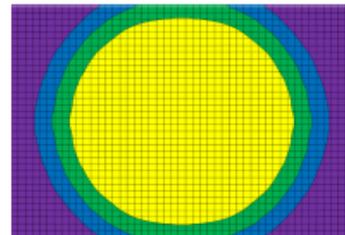
<b>Advantages</b>			
PCBA Cascade			
Easy Mounting	<b>Join Bracket (Angle Mount)</b> 	<b>L Bracket (Vertical Mount)</b> 	<b>L-shaped Plate (Horizontal Mount)</b> 

**Uniform Graph ( Relative Irradiation Strength) - Representative pattern**

LENS FOCAL LENGTH, F = 8 mm

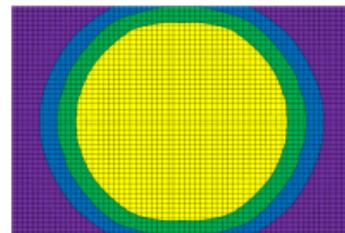
CWD = 300 mm  
LWD = 300 mm

COLOUR	TOLERANCE	L X W
Yellow	± 15 %	160 X 160
Green	± 20 %	180 X 175
Blue	± 25 %	205 X 175
Purple	± 30 %	240 X 175



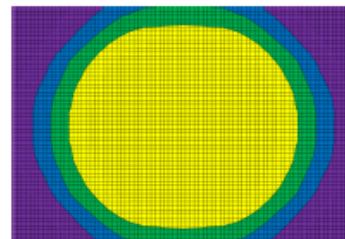
CWD = 400 mm  
LWD = 400 mm

COLOUR	TOLERANCE	L X W
Yellow	± 15 %	200 X 205
Green	± 20 %	235 X 235
Blue	± 25 %	270 X 235
Purple	± 30 %	315 X 235



CWD = 500 mm  
LWD = 500 mm

COLOUR	TOLERANCE	L X W
Yellow	± 15 %	270 X 260
Green	± 20 %	310 X 300
Blue	± 25 %	350 X 300
Purple	± 30 %	400 X 300



\* Each individual box is 5 X 5 mm.

\*Disclaimer : The graphs portrayed are for reference only and does not in any way guarantee the quality of this product.