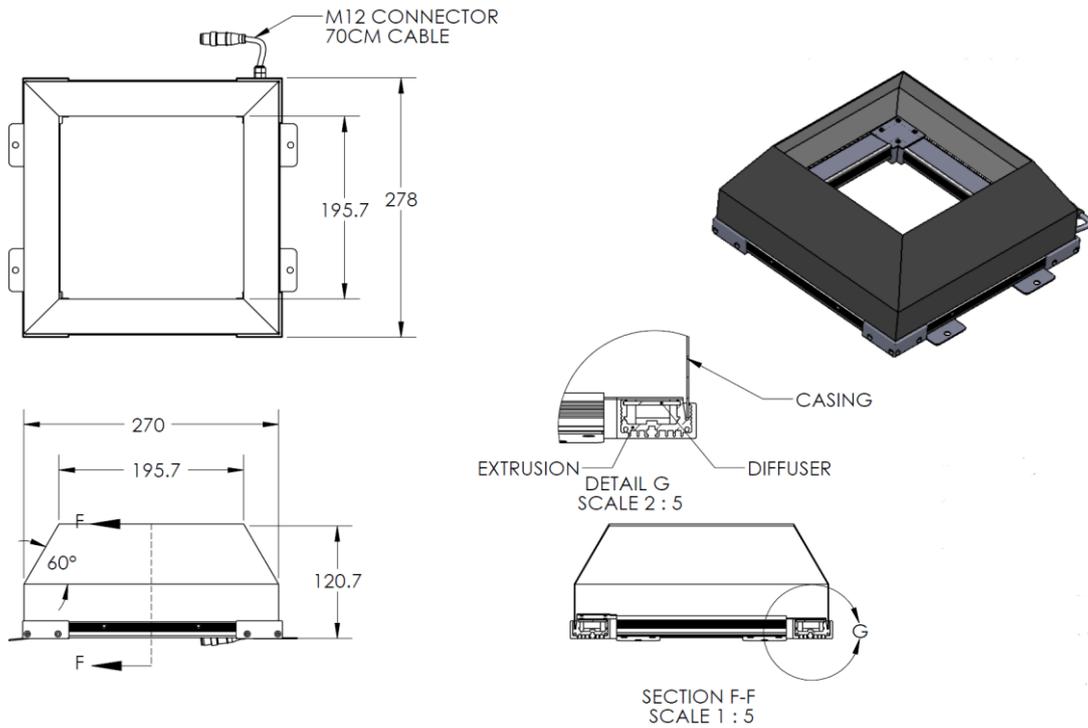


HDLQ-00-190-X-W-24V

Lighting Dimension



Mechanical Information	
Casing Material	Aluminium
Storage & Operating Temperature Range	Temp 0-60°C, Humidity 20-85%
Weight	2160 g
Outer Dimension	278 X 278 mm
Inner Dimension	195.7 X 195.7 mm
Thickness	120.7 mm



HDLQ-00-190-X-W-24V

Optical Information					
Part Number	HDLQ-00-190-X-W-24V				
LED Colour	WHITE				
Wavelength	(nm)	*CHROMATICITY TABLE			
Intensity (±15%)	(Lux)	8006	5198	6669	
Working Distance	(mm)	78	88	98	
Illumination (number of rows)	2				
Illumination Active Area					
Active Outer Dimension	(mm)	200 X 200			
Active Inner Dimension	(mm)	195.7 X 195.7			
Emission Angle	(deg.)	0			
Eye Safety Class (IEC62471)	EXEMPT				
*CHROMATICITY 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
Electrical Information					
Lighting Supply Voltage (constant voltage mode)	24V ± 2%				
Continuous Current	(mA)	960			
Power Consumption	(W)	23.04			
Lighting Casing Temperature, Operating after 60 minutes	°C	48.3			
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. 10msec) (constant current power supply)	(mA)	2880			
Max. Trigger Pulse Duration	(msec)	10			
Duty Cycle	0-10%				
Additional Information					
Additional Cooling Method	Attached to machine part for better heat dissipation				
Lifespan in Continuous Mode	20,000 hours (drop to 50% intensity) at 25°C				
Lifespan in Strobe Mode	Est. >50,000 hours (drop to 50% intensity) at 25°C				
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	Square Dark Field Illumination				
Application Use	Inspecting flat, reflective surfaces				

HDLQ-00-190-X-W-24V

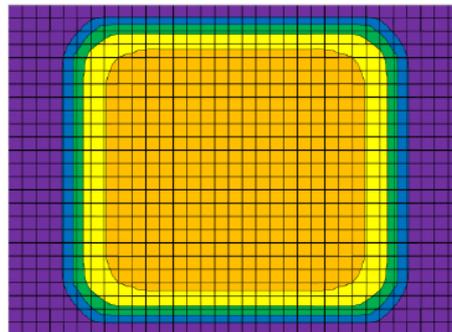
Advantages	
Flexible Illuminator	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Indirect Square Illumination</p> </div> <div style="text-align: center;"> </div> <div style="text-align: center;"> <p>Square Dark Field Illumination</p> </div> </div>
Easy Mounting	<p>Extend Plate</p>

Uniformity Graph (Relative Irradiation Strength) - Representative Pattern

LENS FOCAL LENGTH, F = 6 mm

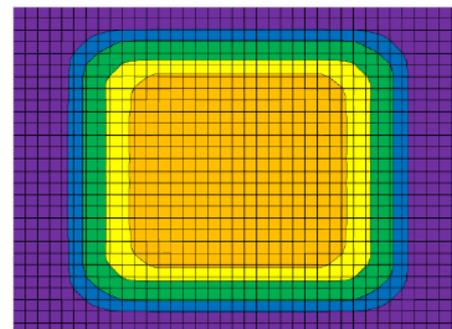
CWD = 190 mm
LWD = 30 mm

COLOUR	TOLERANCE	L X W
Yellow	± 10 %	99 X 96
Orange	± 15 %	115 X 108
Green	± 20 %	122 X 115
Blue	± 25 %	130 X 120
Purple	± 30 %	170 X 130



CWD = 210 mm
LWD = 50 mm

COLOUR	TOLERANCE	L X W
Yellow	± 10 %	89 X 87
Orange	± 15 %	107 X 97
Green	± 20 %	127 X 116
Blue	± 25 %	139 X 125
Purple	± 30 %	190 X 145



* 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.