

REL

Glo-Black LED
UV-A Lamps



Tested & Complies with



ASTM E3022
STANDARD

Tested & Complies with

Rolls-Royce
RRES 90061
REQUIREMENTS

Meets Specifications



ISO 3059



2021

relinc.com



Glo-Black LED
UV-A Lamps

	C4 Magnum.....	5		Liquid Magnum.....	19
	C4 Magnum-GO.....	9		Profusion.....	25
	C4 Nomad.....	12		Profusion XW.....	30
	C4 Nomad-GO.....	16		REL Star Testing Panel.....	35





Tough.



REL

Made in

U.S. of eh!

relinc.com



LED UV-A Lamps



relinc.com

C4 Magnum

LED UV-A Lamp

Tested & Complies with



ASTM E3022
STANDARD

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RRES 90061
REQUIREMENTS

Meets Specifications



ISO 3059

NSN: 5980-01-671-7903



C4 Magnum

LED UV-A Lamp

//// 2-Year Warranty ////

3 ways to buy the C4 Magnum



= UV-2000

- Glo-Black C4 Magnum LED UV-A Lamp
- 120/240V, 60W Power Supply (UV-2023)
- Bolt on Power Cord for Magnum (UV-2014)
- Rugged watertight case
- Safety glasses



= UV-2000NC

- Glo-Black C4 Magnum LED UV-A Lamp
- 120/240V, 60W Power Supply (UV-2023)
- Bolt on Power Cord for Magnum (UV-2014)
- Safety glasses



= UV-2000CR

- Glo-Black C4 Magnum LED UV-A Lamp
- 30' Retractable Cord Reel w/ Power Supply (UV-5309)
- Safety glasses

C4 Magnum LED attributes:

- Serialized Certificate of Conformance
- Tested & complies with Rolls-Royce RRES 90061 Requirements
- Tested & complies with ASTM E3022 Standard
- Meets specifications ISO 3059
- Input voltage 100-240V AC
- Tested to work as hard as you do
- Refurbishable
- IP-67 Rated

Directions For Use:

1. Remove from impact resistant carrying case.
2. Drop
3. Kick
4. Use

*Note: Steps 2-4 can be performed in any order!



C4 Magnum LED UV-A Characteristics

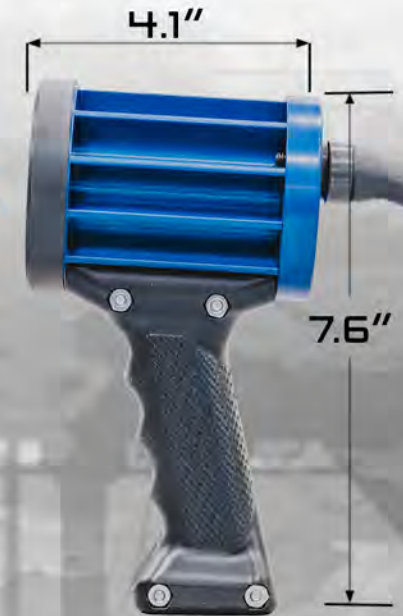
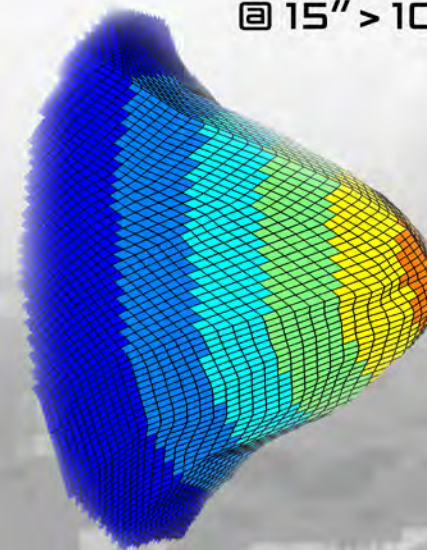
Performance Attributes	Parameters
Maximum Irradiance (at 15 in/38cm)	5000 $\mu\text{W}/\text{cm}^2$
Peak Wavelength	365 \pm 5 nm
Irradiance at Peak Wavelength (at 15 in)	> 200 $\mu\text{W}/\text{cm}^2$
Typical Irradiated Area (profile at 15 in)	Circular Spot 10" Diameter > 1000 $\mu\text{W}/\text{cm}^2$ (347-382nm)
Emission Spectrum	
Full Width at Half Maximum (FWHM)	\leq 15 nm
Longest Wavelength at Half Max (LWHM)	\leq 380 nm
Full width at 10% Maximum	\leq 30 nm (\pm 15)
Excitation Irradiance (347-382 nm)	> 2500 $\mu\text{W}/\text{cm}^2$
Wavelength Drift (at 70° F ambient)	\leq 3 nm
Working Distances	
ASTM E3022	Minimum WD \leq 5 in
RRES 90061	Minimum WD = 15 in
	Maximum WD = 36 in
Typical Visible Emission	
ASTM E3022 range (400-760 nm)	\leq 2 ft candles
RRES 90061 range (390-800 nm)	\leq 20 lux at 15 in
	\leq 5 lux at 36 in

Physical Attributes	Parameters
Operating Environment	32 - 120° F
Maximum Housing Temperature (at 70° F ambient)	116° F *
Lamp Cord Length	10 ft (Standard) or 30 ft (Cord Reel)
Power Supply Cord Length	6 ft
Weight	1.7 lb
Power in	100-240V AC / 50 - 60Hz < 1.2A
Specification Compliance	ASTM E3022, RRES 90061, ISO 3059

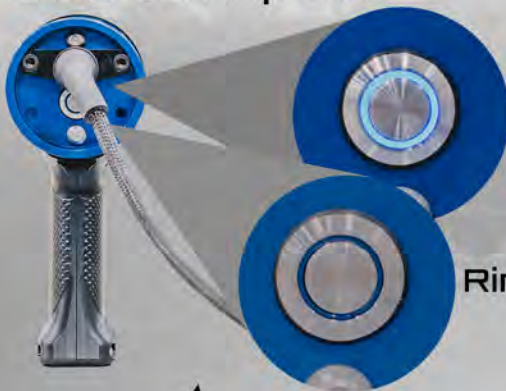
*Emission Spectrum measured at Stabilization Temperature

**10" diameter
spot size**

@ 15" > 1000 $\mu\text{W}/\text{cm}^2$



2 switch inputs



Ring ON = UV-A OFF

Ring OFF = UV-A ON



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Accessories for C4 Magnum & C4 Magnum-GO



Domer &
Ding Ring
UV-2016

Mounting Arm
UV-1100

Bench
Adapter
UV-1000

Power Supply
UV-2023

Spray Can
Fixture
UV-7000



Bolt on Power Cord for Magnum (UV-2014)
& Magnum-GO (UV-2015)

Cord Reel for Magnum (UV-5309)
& Magnum-GO (UV-5310)



C4 Magnum-GO

LED UV-A Lamp
+ White Light

Tested & Complies with



ASTM E3022
STANDARD

Tested & Complies with

Rolls-Royce
RRES 90061
REQUIREMENTS

Meets Specifications



ISO 3059



relinc.com

C4 Magnum-GO

LED UV-A Lamp

//// 2-Year Warranty ////

3 ways to buy the C4 Magnum-GO



= UV-3000

- Glo-Black C4 Magnum-GO LED UV-A Lamp
- 120/240V, 60W Power Supply (UV-2023)
- Bolt on Power Cord for Magnum-GO (UV-2015)
- Rugged watertight case
- Safety glasses



= UV-3000NC

- Glo-Black C4 Magnum-GO LED UV-A Lamp
- 120/240V, 60W Power Supply (UV-2023)
- Bolt on Power Cord for Magnum-GO (UV-2015)
- Safety glasses



= UV-3000CR

- Glo-Black C4 Magnum-GO LED UV-A Lamp
- 30' Retractable Cord Reel w/ Power Supply (UV-5310)
- Safety glasses

C4 Magnum-GO LED attributes:

- Serialized Certificate of Conformance
- Tested & complies with Rolls-Royce RRES 90061 Requirements
- Tested & complies with ASTM E3022 Standard
- Meets Specification ISO 3059
- Input voltage 100-240V AC
- Tested to work as hard as you do
- Refurbishable
- IP-67 Rated

Directions For Use:

1. Remove from impact resistant carrying case.
2. Drop
3. Kick
4. Use

*Note: Steps 2-4 can be performed in any order!



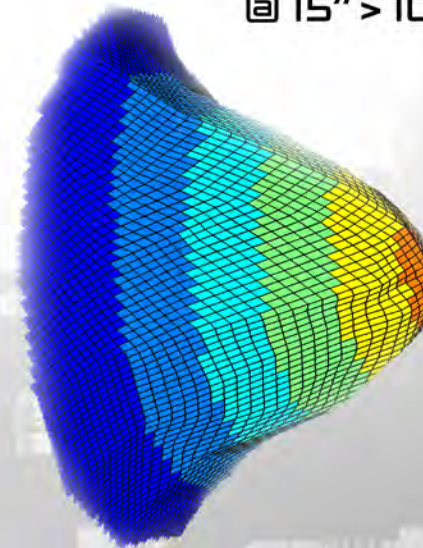
C4 Magnum-GO LED UV-A Characteristics

Performance Attributes	Parameters
Maximum Irradiance (at 15 in/38cm)	5000 $\mu\text{W}/\text{cm}^2$
Peak Wavelength	365 \pm 5 nm
Irradiance at Peak Wavelength (at 15 in)	> 200 $\mu\text{W}/\text{cm}^2$
Typical Irradiated Area (profile at 15 in)	Circular Spot 10" Diameter > 1000 $\mu\text{W}/\text{cm}^2$ (347-382nm)
Emission Spectrum	
Full Width at Half Maximum (FWHM)	\leq 15 nm
Longest Wavelength at Half Max (LWHM)	\leq 380 nm
Full width at 10% Maximum	\leq 30 nm (\pm 15)
Excitation Irradiance (347-382 nm)	> 2500 $\mu\text{W}/\text{cm}^2$
Wavelength Drift (at 70° F ambient)	\leq 3 nm
Working Distances	
ASTM E3022	Minimum WD \leq 5 in
RRES 90061	Minimum WD = 15 in
	Maximum WD = 36 in
Typical Visible Emission	
ASTM E3022 range (400-760 nm)	\leq 2 ft candles
RRES 90061 range (390-800 nm)	\leq 20 lux at 15 in
	\leq 5 lux at 36 in

Physical Attributes	Parameters
Operating Environment	32 - 120° F
Maximum Housing Temperature (at 70° F ambient)	116° F *
Lamp Cord Length	10 ft (Standard) or 30 ft (Cord Reel)
Power Supply Cord Length	6 ft
Weight	1.7 lb
Power in	100-240V AC / 50 - 60Hz < 1.2A
Specification Compliance	ASTM E3022, RRES 90061, ISO 3059

*Emission Spectrum measured at Stabilization Temperature

**10" diameter
spot size
@ 15" > 1000 $\mu\text{W}/\text{cm}^2$**



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C4 Nomad

LED UV-A Lamp

POWERED BY
M18 REDLITHIUM



Tested & Complies with



ASTM E3022
STANDARD

Tested & Complies with

Rolls-Royce
RRES 90061
REQUIREMENTS

Meets Specifications



ISO 3059



C4 Nomad

LED UV-A Lamp

//// 2-Year Warranty ////

2 ways to buy the C4 Nomad



=UV-2400

- Glo-Black C4 Nomad LED UV-A Lamp
- Rugged watertight case
- Two M18 2-Amp hour batteries
- 120V charger
- Safety glasses



=UV-2400BT

- Glo-Black C4 Nomad LED UV-A Lamp (Lamp only)
- Safety glasses



C4 Nomad LED attributes:

- Serialized Certificate of Conformance
- Tested & complies with Rolls-Royce RRES 90061 Requirements
- Tested & complies with ASTM E3022 Standard
- Meets Specifications ISO 3059
- Tested to work as hard as you do
- Refurbishable

Directions For Use:

1. Remove from impact resistant carrying case.
2. Drop
3. Kick
4. Use

*Note: Steps 2-4 can be performed in any order!



C4 Nomad LED UV-A Characteristics

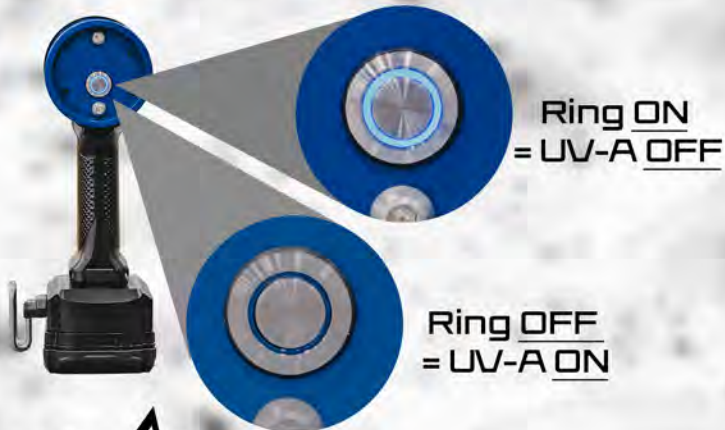
Performance Attributes	Parameters
Maximum Irradiance (at 15 in/38cm)	5000 $\mu\text{W}/\text{cm}^2$
Peak Wavelength	365 \pm 5 nm
Irradiance at Peak Wavelength (at 15 in)	> 200 $\mu\text{W}/\text{cm}^2$
Typical Irradiated Area (profile at 15 in)	Circular Spot 10" Diameter > 1000 $\mu\text{W}/\text{cm}^2$ (347-382nm)
Emission Spectrum	
Full Width at Half Maximum (FWHM)	\leq 15 nm
Longest Wavelength at Half Max (LWHM)	\leq 380 nm
Full width at 10% Maximum	\leq 30 nm
Excitation Irradiance (347-382 nm)	> 2500 $\mu\text{W}/\text{cm}^2$
Wavelength Drift (at 70° F ambient)	\leq 3 nm
Working Distances	
ASTM E3022	Minimum WD \leq 5 in
RRES 90061	Minimum WD = 15 in Maximum WD = 36 in
Typical Visible Emission	
ASTM E3022 range (400-760 nm)	\leq 2 ft candles
RRES 90061 range (390-800 nm)	\leq 20 lux at 15 in \leq 5 lux at 36 in

Physical Attributes	Parameters
Operating Environment	32 - 120 °F
Maximum Housing Temperature (at 70° F ambient)	116 °F *
Lamp Cord Length	None
Power Supply	18 V Lithium Ion Battery
Weight	3.2 lb
Approximate run time/per battery	2.5 hrs
Specification Compliance	ASTM E3022, RRES 90061, ISO 3059

*Emission Spectrum measured at Stabilization Temperature



2 switch inputs



Accessories for C4 Nomad & C4 Nomad-GO



Domer &
Ding Ring
UV-2016



Spray Can
Fixture
UV-7000



120 volt M18 Battery Charger
470-00007

M18 Battery,
2.0 amp hour
470-00008





C4 Nomad-GO

LED UV-A Lamp
+ White Light

POWERED BY
M18 REDLITHIUM



Tested & Complies with



ASTM E3022
STANDARD

Tested & Complies with



REQUIREMENTS

Meets Specifications



ISO 3059



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C4 Nomad-GO

LED UV-A Lamp

//// 2-Year Warranty ////

2 ways to buy the Nomad-GO



=UV-3400

- Glo-Black C4 Nomad-GO LED UV-A Lamp
- Rugged watertight case
- Two M18 2-Amp hour batteries
- 120V charger
- Safety glasses



=UV-3400BT

- Glo-Black C4 Nomad-GO LED UV-A Lamp (Lamp only)
- Safety glasses

C4 Nomad-GO LED attributes:

- Serialized Certificate of Conformance
- Tested & complies with Rolls-Royce RRES 90061 Requirements
- Tested & complies with ASTM E3022 Standard
- Meets specifications of ISO 3059
- Tested to work as hard as you do
- Refurbishable

Directions For Use:

1. Remove from impact resistant carrying case.
2. Drop
3. Kick
4. Use

*Note: Steps 2-4 can be performed in any order!

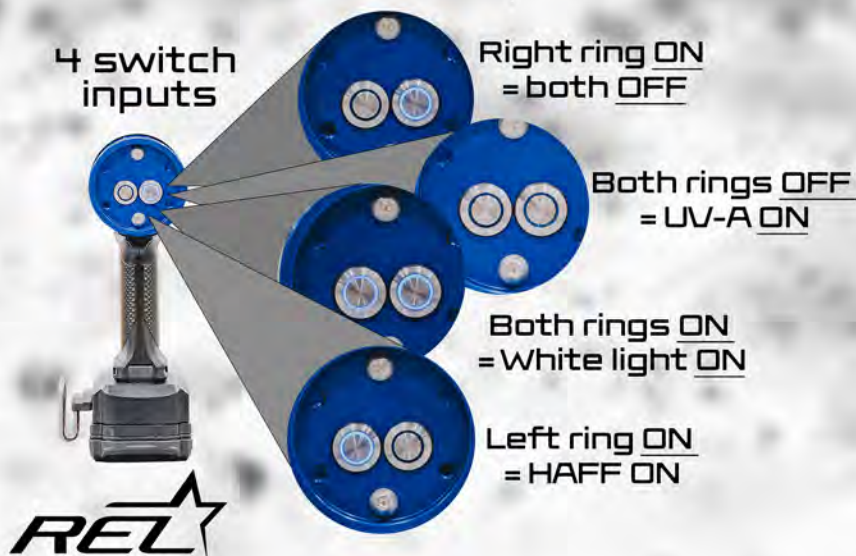


C4 Nomad-GO LED UV-A Characteristics

Performance Attributes	Parameters
Maximum Irradiance (at 15 in/38cm)	5000 $\mu\text{W}/\text{cm}^2$
Peak Wavelength	365 \pm 5 nm
Irradiance at Peak Wavelength (at 15 in)	> 200 $\mu\text{W}/\text{cm}^2$
Typical Irradiated Area (profile at 15 in)	Circular Spot 10" Diameter > 1000 $\mu\text{W}/\text{cm}^2$ (347-382nm)
Emission Spectrum	
Full Width at Half Maximum (FWHM)	\leq 15 nm
Longest Wavelength at Half Max (LWHM)	\leq 380 nm
Full width at 10% Maximum	\leq 30 nm
Excitation Irradiance (347-382 nm)	> 2500 $\mu\text{W}/\text{cm}^2$
Wavelength Drift (at 70° F ambient)	\leq 3 nm
Working Distances	
ASTM E3022	Minimum WD \leq 5 in
RRES 90061	Minimum WD = 15 in Maximum WD = 36 in
Typical Visible Emission	
ASTM E3022 range (400-760 nm)	\leq 2 ft candles
RRES 90061 range (390-800 nm)	\leq 20 lux at 15 in \leq 5 lux at 36 in

Physical Attributes	Parameters
Operating Environment	32 - 120° F
Maximum Housing Temperature (at 70° F ambient)	116° F *
Lamp Cord Length	None
Power Supply	18 V Lithium Ion Battery
Weight	3.2 lb
Approximate run time/per battery	2.5 hrs
Specification Compliance	ASTM E3022, RRES 90061, ISO 3059

*Emission Spectrum measured at Stabilization Temperature



Liquid Magnum

LED UV-A Lamp

Tested & Complies with
Rolls-Royce
RRES 90061
REQUIREMENTS

Meets Specifications



ISO 3059



Liquid Magnum

LED UV-A Lamp

//// 2-Year Warranty ////



=UV-2100

- Glo-Black Liquid Magnum LED UV-A Lamp
- 2-Meter Light Guide (UV-2120)
- 120/240V, 60W Power Supply (UV-2023)
- Bolt on Power Cord for Magnum (UV-2014)
- Swivel mount (UV-4010)
- Rugged watertight case
- Safety glasses

Liquid Magnum LED attributes:

- Serialized Certificate of Conformance
- Tested & complies with Rolls-Royce RRES 90061 Requirements
- Meets Specifications ISO 3059
- Input voltage 100-240V AC
- Tested to work as hard as you do
- Refurbishable
- IP-67 Rated

Directions For Use:

1. Remove from impact resistant carrying case.
2. Drop
3. Kick
4. Use

*Note: Steps 2-4 can be performed in any order!



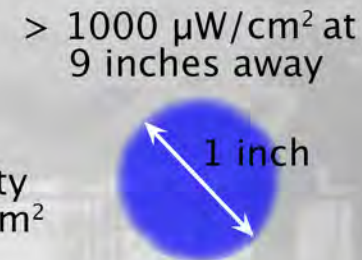
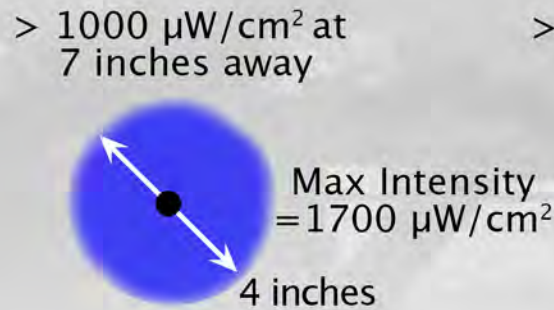
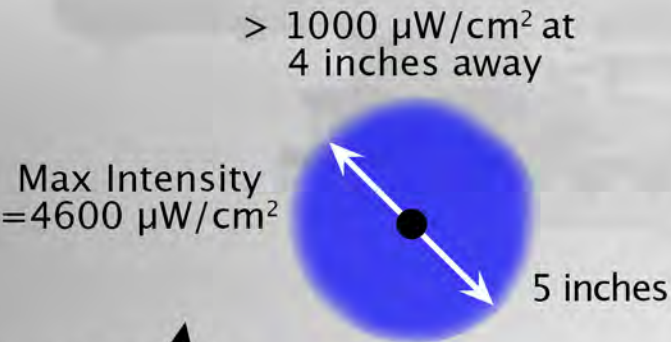
Liquid Magnum LED UV-A Characteristics

Performance Attributes	Parameters
Peak Wavelength	365 ± 5nm
Emission Spectrum	
Full Width at Half Maximum (FWHM)	≤ 15 nm
Longest Wavelength at Half Max (LWHM)	≤ 380 nm
Full Width at 10% Maximum	≤ 30 nm
Wavelength Drift (at 70° ambient)	≤ 3 nm
Typical Visible Emission Liquid Magnum	
(390 nm - 800 nm)	≤ 20 Lux

1200 $\mu\text{W}/\text{cm}^2$ at 8 inches
 4 inch diameter above 1000 $\mu\text{W}/\text{cm}^2$
 7 inch diameter over 500 $\mu\text{W}/\text{cm}^2$

@ 4 inch distance white light is less than 2 foot candles
 @ 4 inch distance there is a 5 inch diameter above 1000 $\mu\text{W}/\text{cm}^2$
 @ 4 inch distance the maximum intensity is 4600 $\mu\text{W}/\text{cm}^2$
 @ 7 inch distance white light is less than 1 foot candles
 @ 7 inch distance there is a 4 inch diameter above 1000 $\mu\text{W}/\text{cm}^2$
 @ 7 inch distance the maximum intensity is 1700 $\mu\text{W}/\text{cm}^2$

@ 9 inch distance white light is less than 1 foot candles
 @ 9 inch distance there is a 1 inch diameter above 1000 $\mu\text{W}/\text{cm}^2$



Physical Attributes	Parameters
Operating Environment	32 - 120 °F
Maximum Housing Temperature (at 70° F ambient)	122 °F *
Lamp Cord Length	10 ft (Standard) or 50 ft (Maximum)
Power Supply Cord Length	≈ 6 ft
Weight	1.8 lb
Power in	100-240V AC / 50 - 60Hz < 1.2A
Specification Compliance	ISO 3059, RRES 90061

* Emission Spectrum measured at Stabilization Temperature

2 switch inputs



Ring ON =
 UV-A OFF



Ring OFF =
 UV-A ON



Accessories for Liquid Magnum

Mounting Arm
UV-1100



Power Supply
UV-2023



Bolt on Power Cord
for Magnum (UV-2014)

2-Meter
Light Guide
UV-2120



Swivel Mount
UV-4010



Liquid Nomad
UV-2200



"REL, Inc. is an authorized Original Design Manufacturer (ODM) distributor of MILWAUKEE ELECTRIC TOOL CORPORATION."

Lamp Packaging



C4 Nomad
UV-2400



C4 Nomad-GO
UV-3400



UV-2000 Magnum
UV-3000 Magnum-GO



UV-2400 Nomad
UV-3400 Nomad-GO



120V Charger



2-Amp Hour batteries
included in package



UV-2100 Liquid Magnum



UV-2200 Liquid Nomad



Corded Lamps



C4 Magnum
UV-2000

NSN: 5980-01-671-7903



C4 Magnum-GO
UV-3000

Liquid Magnum
UV-2100



Profusion
UV-4000
[UV-4000DB shown]

Overhead Lamps



Profusion XW
UV-4700

C4 Nomad
UV-2400



Battery Powered Lamps



C4 Nomad-GO
UV-3400



LED UV-A Lamps

Profusion

LED UV-A Lamp Module

UV-4000DB Shown

Tested & Complies with



ASTM E3022
STANDARD

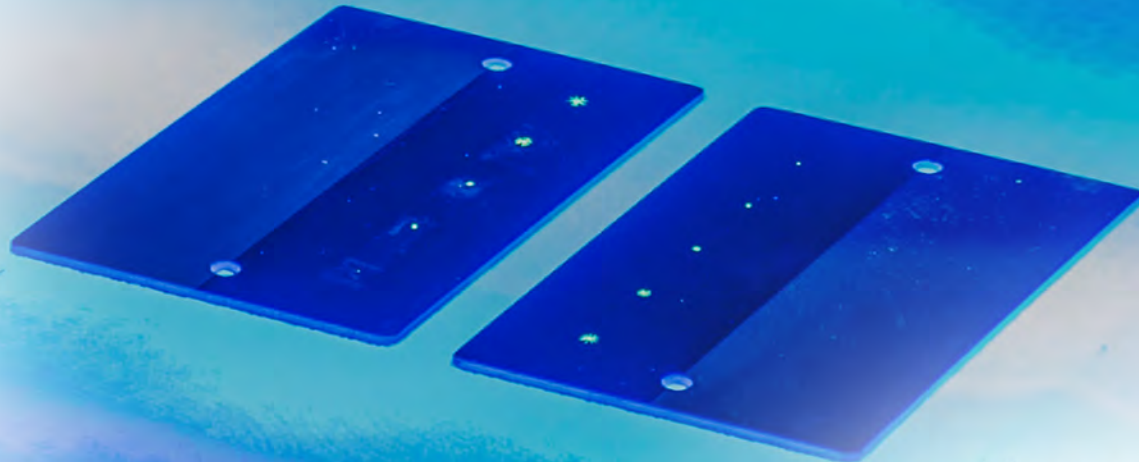
Tested & Complies with

Rolls-Royce
RRES 90061
REQUIREMENTS

Meets Specifications



ISO 3059



relinc.com

Profusion LED UV-A Lamp

////// 2-Year Warranty ////

Hardware Hanging Kit UV-4015



Profusion Triple Bank [3 lamp module] UV-4000TB



Profusion Single Lamp Module UV-4000

= UV-4000 includes:

- Glo-Black Profusion LED UV-A Lamp Module
- 120/240V Power Supply (depends on # of lamp modules)
- Hardware hanging kit (UV-4015)
- Safety glasses



120/240V, 60W Power Supply UV-2023 (1-3 Profusions)



Profusion LED UV-A attributes:

- Serialized Certificate of Conformance
- Tested & complies with Rolls-Royce RRES 90061 Requirements
- Tested & complies with ASTM E3022 Standard
- Meets Specifications ISO 3059
- Input voltage 100-240V AC
- Customized for your inspection area
- Module assembly required, instructions included
- IP68 Rated

Directions For Use:

1. Drop
 2. Kick
 3. Use
- *Note: Steps can be performed in any order!



Profusion Double Bank [2 lamp module] UV-4000DB



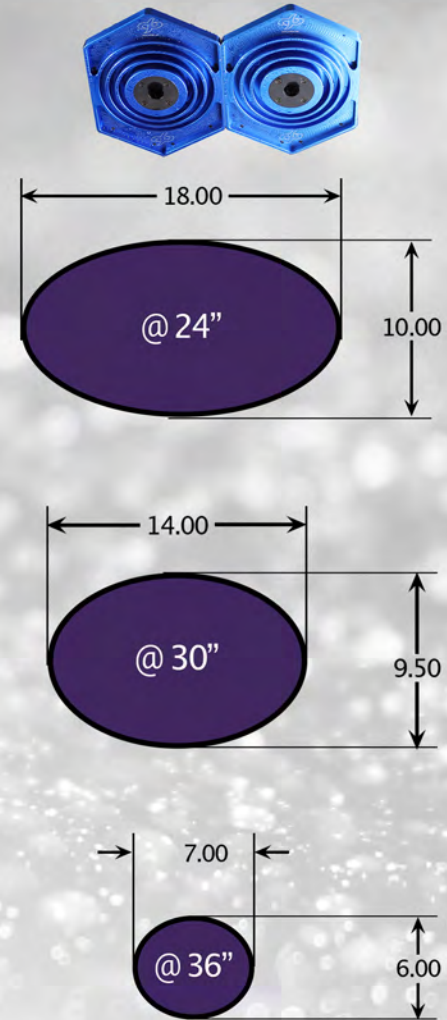
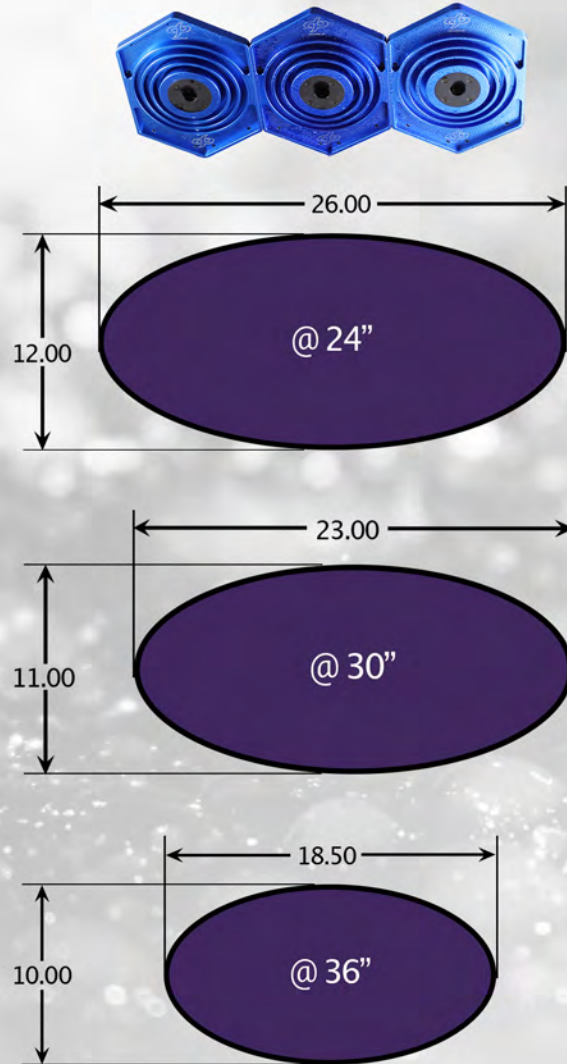
relinc.com

Profusion LED UV-A Lamp Module Common Configurations

Coverage Area
>1000 $\mu\text{W}/\text{cm}^2$

Triple Bank

Double Bank



Profusion Single Lamp Module Characteristics

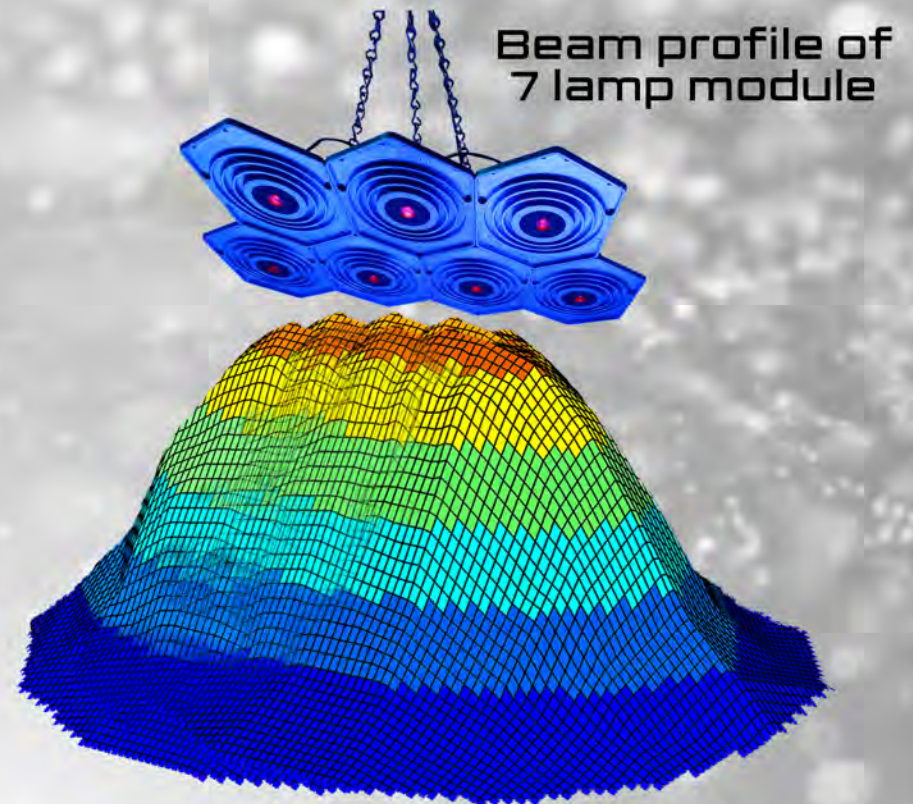
Performance Attributes	Parameters
Maximum Irradiance (at 15 in/38cm)	5000 $\mu\text{W}/\text{cm}^2$
Peak Wavelength	365 \pm 5 nm
Irradiance at Peak Wavelength (at 15 in)	> 200 $\mu\text{W}/\text{cm}^2$
Typical Irradiated Area (profile at 15 in)	Circular Spot 10" Diameter > 1000 $\mu\text{W}/\text{cm}^2$ (347-382nm)
Emission Spectrum	
Full Width at Half Maximum (FWHM)	\leq 15 nm
Longest Wavelength at Half Max (LWHM)	\leq 377 nm
Full width at 10% Maximum	\leq 30 nm
Excitation Irradiance (347-382 nm)	> 2500 $\mu\text{W}/\text{cm}^2$
Wavelength Drift (at 70° F ambient)	\leq 3 nm
Working Distances	
ASTM E3022	Minimum WD \leq 5 in
RRES 90061	Minimum WD = 15 in
	Maximum WD = 36 in
Typical Visible Emission	
ASTM E3022 range (400-760 nm)	\leq 2 ft candles
RRES 90061 range (390-800 nm)	\leq 20 lux at 15 in
	\leq 5 lux at 36 in

Physical Attributes	Parameters
Operating Environment	32 - 115 ° F
Maximum Housing Temperature (at 70° F ambient)	104 ° F*
Lamp Cord Length	10 ft
Power Supply	Per order
Weight	3.08 lb
Power in	100-240V AC / 50 - 60Hz < 1.2A
Specification Compliance	ASTM E3022, RRES 90061, ISO 3059

* Emission Spectrum measured at Stabilization Temperature



Weight of 1 Module: 3.08 lb.



Accessories for the Profusion

Hardware Hanging Kit UV-4015

Profusion 12" Connection Wire Kit (Includes Joining Plate) UV-2030



Swivel Mount UV-4010



Switch Block UV-4200



Power Cord UV-2007



120/240V, 120W Power Supply UV-2031 (4-7 Profusions)





Profusion XW

LED UV-A Lamp

Tested & Complies with



ASTM E3022
STANDARD

Meets Specifications



ISO 3059



relinc.com

Profusion XW LED UV-A Lamp

///// 2-Year Warranty /////

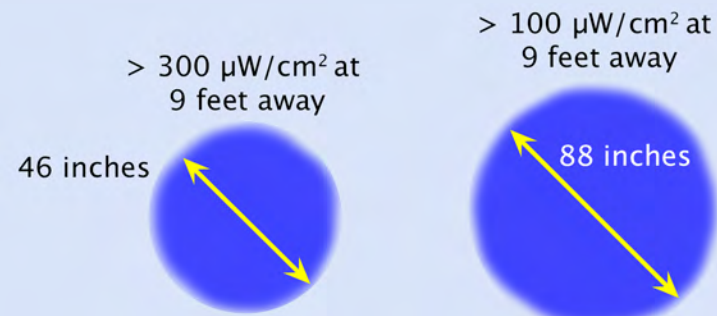
UV-4700 includes:

- Glo-Black Profusion XW Lamp
- 120/240V, 120W Power Supply (UV-2031)
- Power Cord (UV-2007)
- Swivel Mount (UV-4010)



Profusion XW Attributes:

- Waterproof - IP68 Rated
- 100% continuous duty at full output
- \approx 100 Watts per lamp
- Tested & complies with ASTM E3022 Standard
- Meets Specifications ISO 3059



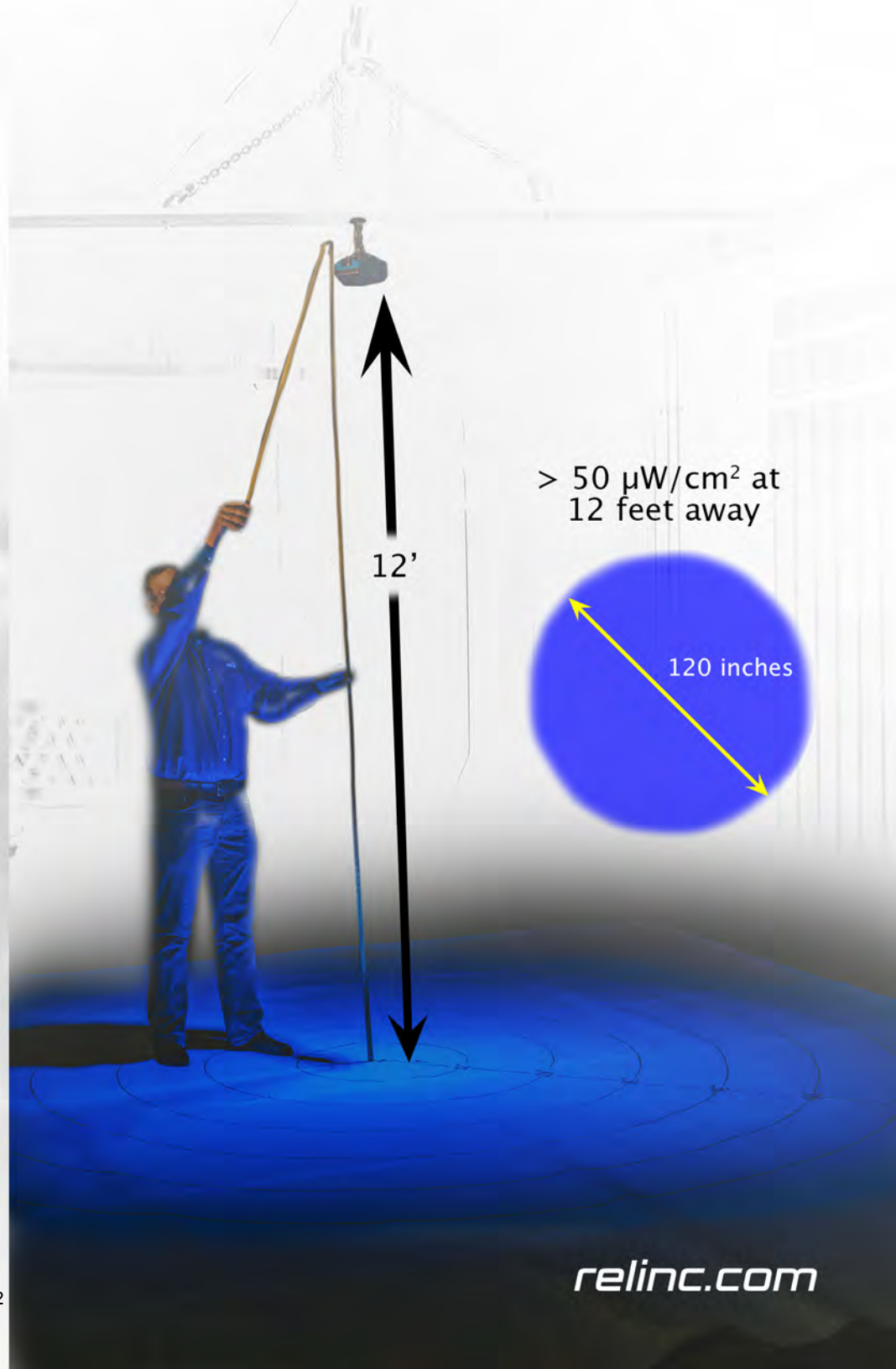
Profusion XW Lamp Characteristics

Performance Attributes	Parameters
Maximum Irradiance (at 36 in/91cm)	5700 $\mu\text{W}/\text{cm}^2$
Peak Wavelength	365 \pm 5nm
Emission Spectrum	
Full Width at Half Maximum (FWHM)	\leq 15 nm
Longest Wavelength at Half Max (LWHM)	\leq 377 nm
Full width at 10% Maximum	\leq 30 nm
Excitation Irradiance at 36 in	$>$ 5000 $\mu\text{W}/\text{cm}^2$
Wavelength Drift (at 70 ° Fambient)	\leq 1 nm
Typical Visible Emission	
range (400-760 nm)	\leq 2 ft candles at 36 in
	\leq 20 lux at 36 in

Physical Attributes	Parameters
Operating Environment	32-115° F
Maximum Housing Temperature (at 70° F ambient)	88 °F *
Lamp Cord Length	10' Standard
Power Supply	Included
Weight	5.8 lbs
Power in	100-240V AC / 50/60Hz
Specification Compliance	ISO 3059

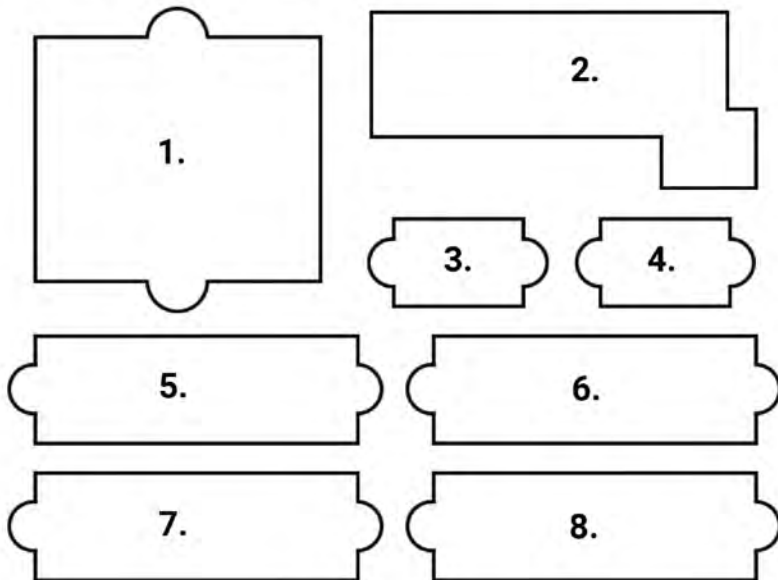
* Emission Spectrum measured at Stabilization Temperature

Weight of 1 lamp: 5.8 lb.



**FPI MOBILE TESTING
NOMAD
TYPE 1, METHOD C
PART # 470-00000
CAGE CODE: 5DLA1
NSN: 6850-01-676-2205**

1. 120V CHARGER 470-00007
2. C4 NOMAD 470-UV-2400
3. 18V BATTERY 470-00008
4. 18V BATTERY 470-00008
5. 1 CAN ZL-27A PENETRANT 470-00006
6. 1 CAN ZP-9F DEVELOPER 470-00005
7. 1 CAN SKC-S CLEANER 470-00004
8. 1 CAN SKC-S CLEANER 470-00004



FPI Mobile Testing Kit

Part # 470-00000
NSN 6850-01-676-2205

- C4 Nomad
- 120V Charger
- Two M18 2-Amp hr batteries
- 1 can penetrant
- 1 can developer
- 2 cans cleaner

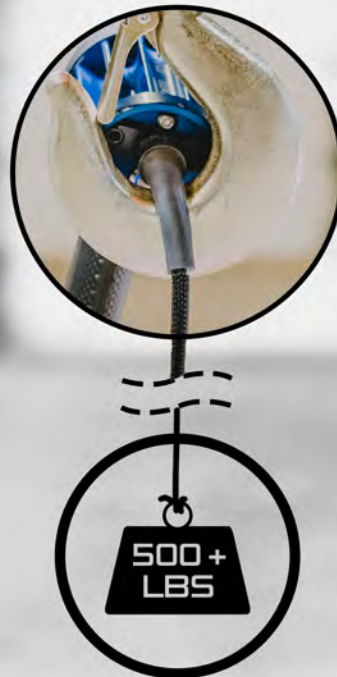


"The only complete mobile testing kit available to the fleet."

Bolt on Power



lift point



Abrasion
Resistant



Durable




Prevent
Breakage



REL Star Testing Panel

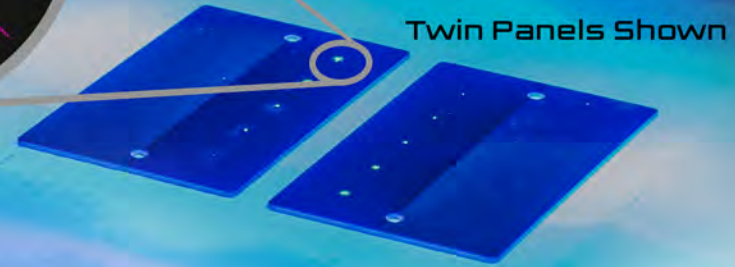
REL Star Testing Panels are Hexavalent Chromium free

REL Designed Green 

Panel plating is designed to comply with RoHS, REACH, WEE, ELV, and Proposition 65.

REL Certified 

REL Star Testing Panels meet the requirements as stated in ASTM E1417, MIL-STD-6866, TO 33B-1-1, NAVAIR 01-1A-16-1, and TM 1-1500-335-23. The REL Star Testing Panels have been manufactured and tested in accordance with the REL, Inc. procedure RWI-1105.

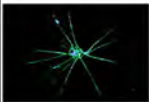


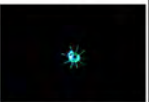
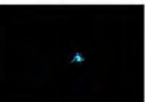


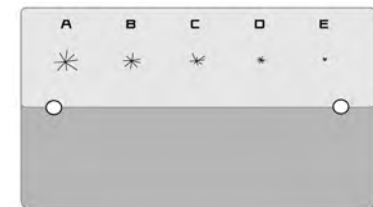
REL Star Testing Panel - Single
[Part Number: 250-00104]

REL Star Testing Panel - Twin
[Part Number: 250-00103]

Each REL Star Testing Panel includes documentation, protective case, and foam sleeve for panel.

PENETRANT SYSTEM MONITORING PANEL DOCUMENTATION

SN# 80077198	A	B	C	D	E
Crack Position					
Photo of Defect					
Magnification Factor: 1 : 5.5					
Measured Size [inch]	0.183	0.142	0.081	0.050	0.030
Specification [inch]	0.180 - 0.250	0.125 - 0.171	0.075 - 0.093	0.046 - 0.062	0.015 - 0.031
Measured Size [mm]	4.65	3.61	2.06	1.27	0.76
Specification [mm]	4.57 - 6.35	3.18 - 4.34	1.91 - 2.36	1.17 - 1.57	0.38 - 0.79
Crack Depth	.0025" ± .0001"		63 µm ± 2.5µm		



Documentation (see above image)

- REL Star Testing Panel and Documentation included:
1. Case w/ panel certification,
 2. Serialized crack size certification documents, and
 3. Five [5] pictures of the manufactured defects.





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