

TESTED TO COMPLY WITH BOTH



ASTM
E3022-18
Standard

Rolls-Royce
RRES 90061
Requirements

MEETS
EN ISO:3059
Specifications

SPECTROLINE[®]
NDT

EDGE™ 13 SERIES

Compliant LED UV-A Flood Lamp

EDG-13SBLC

Standard-intensity **ASTM E3022-18** and **Rolls-Royce RRES 90061** compliant broad-beam flood lamp for overhead nondestructive testing inspections.

IP65
RATED



Dust Tight & Water Resistant



NDT Inspection Booths



Screening of Fluorescent Particles

EASILY MOUNTABLE

For overhead inspection or in-line applications

FLEXIBLE ARM

For mounting at specific angles

FANLESS

Cool running design that uses state-of-the-art heat sinks

THERMAL CUT-OFF CIRCUITRY

Prevents lamp from going out of compliance when internal temperature exceeds specifications

GANGABLE

Can be ganged together to provide an even wider coverage area

INTEGRAL UV-A PASS FILTERS

Reduce visible wavelengths

LONG-LASTING UV-A LENSES

Virtually eliminate clouding/solarization

13 UV-A LEDs

Provides large area of coverage for the largest, most even overhead beam available



CERTIFICATE OF CONFORMANCE & VALIDATION REPORT
included with each lamp

EDGE™ 13 SERIES EDG-365SBLC

MODEL	NOMINAL STEADY-STATE UV-A (365 nm) INTENSITY at 15 in (38 cm)	VISIBLE LIGHT MEASUREMENT	UV-A COVERAGE AREA (at minimum 1,200 µW/cm²)
EDG-13SBLC	4,700 µW/cm²	< 1 foot-candle (11 lux)	14.5 x 13 in (37 x 33 cm)

- Light Source:** (13) UV-A (365 nm) LEDs
- Lamp Style:** Panel flood lamp
- Length: (L x W x H)** 11 x 14 x 9 in (28 x 36 x 23 cm)
- Weight:** 14 lb (6.4 kg)
- Power Requirements:** AC power (main AC power cord supplied with the unit) (Available in 100-120V, 230V and 240V versions)

Ⓢ UV-A intensity reading taken with the Spectroline® AccuMAX™ Series meter, and are factory set to the values shown.



For applications requiring extremely large coverage areas, the EDGE™ 13 can be quickly ganged together.

*Optional accessory: ganged cables with connectors (130156)



SPECTROLINE® VALIDATION REPORT				
MODEL NUMBER: EDG-13SBLC STANDARD: Robt-Royce RRES 9001			SERIAL NUMBER: PART NUMBER:	
TEST DESCRIPTIONS	PARAMETERS	TYPE TEST	NOMINAL	UNIT TEST
Minimum Working Distance	5,000 µW/cm²	NA	15 inches	NA
	1,200 µW/cm²	NA	10.5 inches	NA
Peak Wavelength	365 +/- 5 nm	367 +/- 2 nm	367 +/- 2 nm	368 +/- 2 nm
	50% Max PW +/- 20 nm (FWHM)	10 +/- 1 nm	10 +/- 1 nm	10 +/- 1 nm
50% Max PW +/- 10 nm	-5 +/- 6 nm	-5 +/- 6 nm	-5 +/- 6 nm	-5 +/- 6 nm
	10% Max PW +/- 30 nm	22 +/- 3 nm	22 +/- 3 nm	22 +/- 3 nm
10% Max PW +/- 15 nm	100 +/- 25 nm	100 +/- 25 nm	100 +/- 25 nm	100 +/- 25 nm
	Wavelength Drift	300nm to 370nm	Acceptable	Acceptable
Visible Light Output	<10 Lux at Maximum Dist	2.31 Lux	2.35 Lux	2.05 Lux
	<5 Lux at Maximum Dist	10.25 Lux at Min	10.25 Lux at Min	10.15 Lux at Min
Output Stability	1% (30 minutes) min.	NA	5 minutes	NA
	<2% variation over 60 mins	NA	5 minutes	NA
Ambient Temperature	10 degrees C to 30 degrees C	25 degrees C	25 degrees C	10 degrees C to 30 degrees C
	Source Life*	11,200 - 70% Initial Intensity	11,200	70% - NA
Life - Air applicable	11,200 - 50% Initial Intensity	11,000 hours	70% - NA	NA



SPECTROLINE® CERTIFICATE OF CONFORMANCE		
MODEL NUMBER: EDG-13SBLC STANDARD: ASTM E3022, Type A		SERIAL NUMBER: PART NUMBER:
APPARATUS 6.0	MANUFACTURER	MODEL NUMBERS
UV-A/Visible Meter (6.1)	Spectroline Corporation	AccuMax MP-3000*
Spectroradiometer (6.2)	Std/NIST	UVI 50-25, NR 3-25
Spectrophotometer (6.3)	Std/NIST	UVI 50-25, NR 3-25
LAMP ACCEPTANCE TEST (8.1)	Requirements	At Ambient: 77° (25 C) (24° (75 F))
Maximum Intensity (8.2)	At 15 inches (38 cm)	4700 µW/cm²
Relative Spectrum (7.4.6.1)	Match range 100-400nm	See figure 7.4.6.1, 7.4.6.2
Peak Wavelength (7.4.6.2)	360 to 370nm	nm
FWHM (7.4.6.3)	<15nm	nm
Longest Wavelength at Half Maximum (7.4.6.4)	<377nm	nm
UV-A LED Visible Light (Emission at 395 nm) (8.0)	<2% (21 Lux)	RLC Lux
Visible LED Light (Emission at 395 nm) (8.0)	<0.05% (0.15 Lux)	RLC Lux



UV-A Beam Profiles

