

Robe Esprite



The self-referencing, data capturing TE™ 650W White LED engine, designed, developed and manufactured within our own factory, allows for rapid and economical “lamp-like” exchange to give the fixture a life well beyond those of non-user replaceable LED sources (Patents pending). Performance has not been compromised with the 27.000 lm fixture output producing a piercing 85.000 lux at 5 m. This is enhanced by our legendary precision optics to produce crystal clear white light. The comprehensive feature set includes: Flat field CMY mixing; variable CTO; remotely selectable CRI 70/80/90; two fast colour wheels; rotating and static gobo wheels; 6-facet rotating prism; 1° soft edge and 5° even wash frosts; an animation wheel and spectacular multi-colour effects. Quick, accurate, easy framing is provided via our patented fast framing shutter module with individual blade control and +/-60° rotation capability for extra fine control.

Physical

Size of Unit	399.3 x 443 x 749.4mm
Item Weight	26.9kg
Quantity in Case	2
Cased Weight	135kg
Size of Unit Cased	1340 x 600 x 790mm



Electrical

Rated Power	950w @ standard power / 870w @ lower power
Input Power	100-240v AC 50/60Hz
Power Connection	PowerCON TRUE 1 Connector

Mounting Options

Hanging Type	Omega clamps
Freestanding	Yes - Base
Expo LX	Yes

Optical

Light Source	650w LED WTE (white transferable engine)
Beam Angle	5.5-50°
Colour Temperature	6200k
CRI	69>
Light Output 2m	8544
Light Output 4m	2593
Light Output 6m	1328

Control

Control Method	DMX / RDM
DMX Mode	42ch / 49ch
DMX Channel List	See attached list
DMX Connection Types	5pin DMX / 3pin DMX

Environmental

IP Rating	IP20
Cooling	Forced air – controllable fans
Max Operating Temperature	75°

Compatibility

- Doesn't fit in Air Dome
- Can be used with Robe Robospot System
- Great for Camera

Information Links

Manufacturer Link [Robe Esprite](#)

Data Sheet [Spec Sheet](#)

Data Sheet [Photometry Report](#)

Data Sheet [Photometric Diagrams](#)

Static gobo wheel



rotating gobo wheel



Color wheel 1



Color wheel 2



Report of Photometry & Chromaticity for Light Source

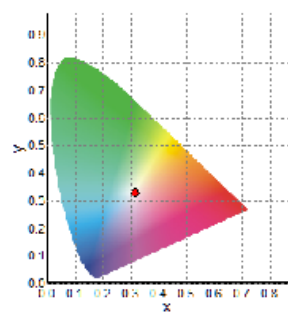


Product Description

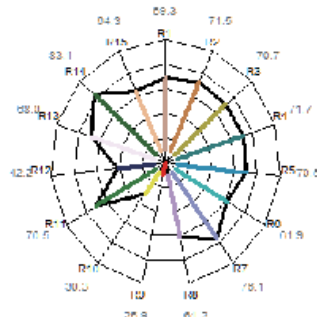
Product Name	Robe Esprite	
Sample Number		
Date(YYYY/MM/DD)	2020/5/6 16:09:44	
Manufacturer	Robe	
Tester	HTH	
Temperature(°C)	20	Re. Humidity(%)
Reviewer		

Photometry and Chromaticity

CIE_x	0.3176	Duv	-0.0007
CIE_y	0.3261	λ_d (nm)	485.6
CIE_u'	0.2023	Purity(%)	6
CIE_v'	0.4675	FWHM(nm)	30
CCT(K)	6261	SP ratio	1.91
Illuminance(lx)	8544	PPFD($\mu\text{mol}/\text{m}^2\text{s}$)	121.9
λ_p (nm)	443	CRI(Ra)	69
TLCl(Qa)	43.6	GAI	88.2
GAI BB8	91	GAI BB15	95
TM-30 Rf	64	TM-30 Rg	96



CIE1931 Chromaticity Diagram



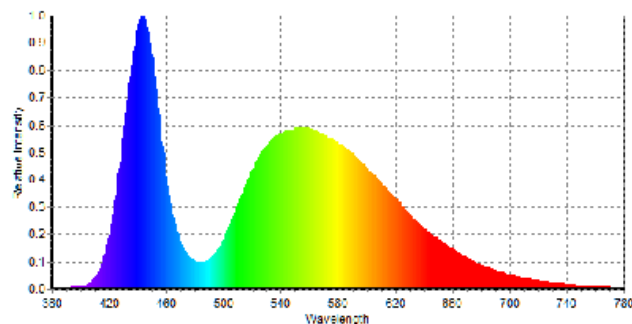
Radar Diagram of CRI

CQS-Qa		68	Re(thru R1~R15)		59
 R1	69.3	 R6	61.9	 R11	70.5
 R2	71.5	 R7	76.1	 R12	42.2
 R3	70.7	 R8	61.2	 R13	68.0
 R4	71.7	 R9	-25.9	 R14	83.1
 R5	70.5	 R10	30.3	 R15	64.3

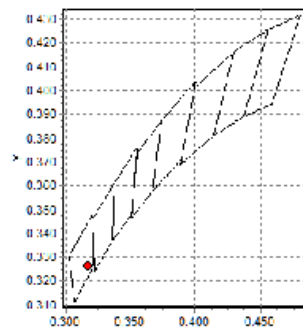
Flicker Frequency(Hz)

Flicker %

Flicker Index



Spectral Distribution



C78.377-2008