

LowdoLed MK3

Elevated LED light for Helipad

TLOF

FATO

Aiming point

Flight path alignment

Perimeter

Taxiway edges

ICAO

FAA

CASA



SUMMARY

Product summary:

This very robust elevated Led light is especially designed for Helipad application. Available in a large range of colors and power supply The LowdoLed MK3 also include a InraRed light source for pilot flying with NVG. This light is the result of over 20 years of Aerolighting experience in the design and manufacture of aviation lighting. Its waterproofness, mechanical resistance, the care given to the photometry, the simplicity of the installation, the possibilities of digital control/monitoring make it the ideal product in most situations.



<i>Design:</i>	Elevated LED Light for Helipad	<i>Power supply:</i>	48 VDC or 110~240VAC 6.6A with external driver
<i>Material:</i>	Aluminum or Stainless Steel	<i>Power:</i>	Max. 20W
<i>IP Rating:</i>	IP 67	<i>Standards:</i>	ICAO, FAA, CASA
<i>NVG Enhanced:</i>	Integrated InfraRed	<i>Brightness ctrl.:</i>	with LBR II DA or DALI
<i>Projection:</i>	< 240 mm	<i>LED Lifetime:</i>	> 80'000 hours
<i>DALI</i>	Yes	<i>iControl Ready:</i>	Yes

Standards summary:

Type	Color	InfraRed integrated	ICAO Annex 14 2020 TLOF	ICAO Annex 14 2020 FATO	ICAO Annex 14 2020 Alignment and guidance	ICAO Annex 14 2020 Aiming	ICAO Annex 14 2020 Taxiway edge	FAA AC 150/5390-2C 2012	FAA EB87	FAA EB98	CAA CAP437 2021	CASA CAAP 92-2 2014	EASA CS-HPT-DSN 2019	ICAO DOC 9261 & 9154	DGAC-STAC (France)	DIN EN IEC 62471:2009
LowdoLed MK3-G	Green	<	<	<	<	<	<	<	<	<	<	<	<	<	pending	<
LowdoLed MK3-W	White	<	<	<	<	<	<	<	<	<	<	<	<	<	pending	<
LowdoLed MK3-B	Blue	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
LowdoLed MK3-R	Red	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<
LowdoLed MK3-Y	Yellow	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<

TECHNICAL DESCRIPTION:

Mechanical characteristics:

Body material:	Aluminum anodized or Stainless steel Borosilicate glass
Diameter:	Base plate 165mm
Height above ground:	<240 mm
Weight:	2.8 kg
Temperature range:	-35° to +50°C
Protection Class:	IP67
Water / Humidity; Insulation	WatBar – Physical insulation between the “connection room” and the light
Note:	No glued parts, no PMMA, no acrylic glass parts

Optical characteristics: (visible)

Technology:	High Power LED
Light source:	Aerolighting HELI-8 LED engine
Available color:	Green/White/Yellow/Blue/Red/Infrared/Dual
Intensity (White):	100cd @ 0° (ground level)
Horizontal output:	360°
Intensity level:	100% - 30% - 10% with LBR II DA from 5% to 100% with DALI
LEDs Lifespan:	>80'000 hours

Optical characteristics: (InfraRed)

Technology:	High Power LED
Light source:	Aerolighting HELI-8 LED engine
Wavelength:	850nm (central) +/- 30nm
Intensity (White):	Up to 180mw/sr @ 0° elevation
Horizontal output:	360°
Intensity level:	100% - 30% - 10% with LBR II DA from 5% to 100% with DALI
LEDs Lifespan:	>80'000 hours

Electrical characteristics:

Supply Voltage:	48 Volts DC or 110~240VAC 50/60hz
Power:	Max 20 Watts (white: 20W / other color: 9W)
Brightness regulation	LBR II DA
(visible):	DALI (fully compatible with Digital Addressable Lighting Interface)
Connection:	48VDC :+Vdc / -Vdc / DA / DA 110~240VAC: L/N/PE/DA/DA
Type of cable:	48VDC : 4x 1.5mm ² 110~240VAC: 5x0.75mm ² (if DALI or LBR II DA is not used, only 2/3 wires are connected) Note: this light can be used only by connecting 48V or 110~230V without any regulation (only ON/OFF)

Aeronautical standards

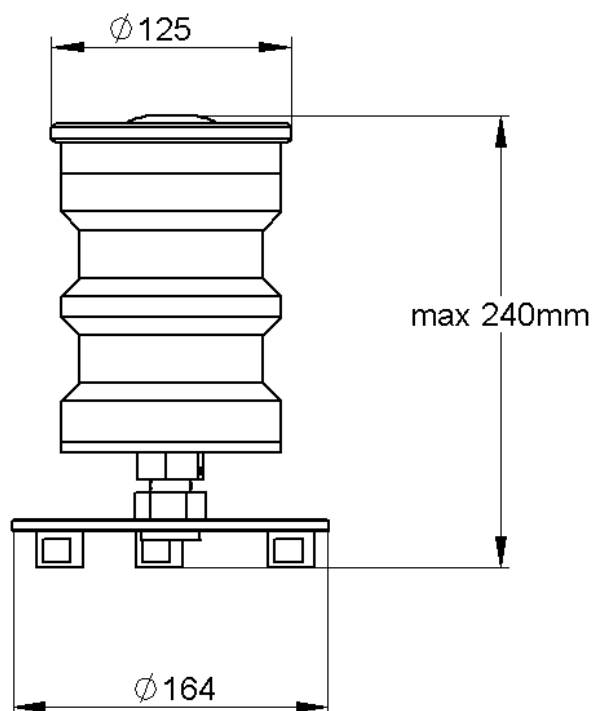
ICAO Annex 14 Vol II 5 th edition July 2020	TLOF perimeter lights Final approach and take off area lights (FATO) Aiming point lights Flight path and guidance lighting system
ICAO Annex 14 Vol I 9 th edition July 2022	Taxiway edge light
EASA CS-HPT-DSN Issue 1 2019	TLOF perimeter lights Final approach and take off area lights (FATO) Aiming point lights Flight path and guidance lighting system
CASA CAAP 92-2 (2) February 2014	Final approach and take off area lights (FATO) Flight path and guidance lighting system
FAA Engineering Brief 87 Jan 2012	Perimeter light L-860HR (L) – Semi-flush heliport fixture LED
FAA Engineering Brief 98 Dec 2018	850nm Infrared for NVG Exceed L-810(L) up to 120mW/sr from 0°(ground) to 90° // max 250mW/sr
FAA AC 150/5390-2C Apr 2012	TLOF perimeter lights Landing direction lights Flight path alignment lights <i>The light must be installed in accordance with AC 150/530-C to comply to the 2 inches elevation.</i>
DGAC-STAC SPE/STAC/SE/E/MIS/6008	Homologation pending
DGAC-STAC Version 4	Homologation pending
DIN EN IEC 642471 :2019	Safety of lamp system (for Infrared part)
IEC 60598-1 :2020	Ingress protection class dust/liquids

ORDERING CODE

LowdoLed MK3 – G – 48V –

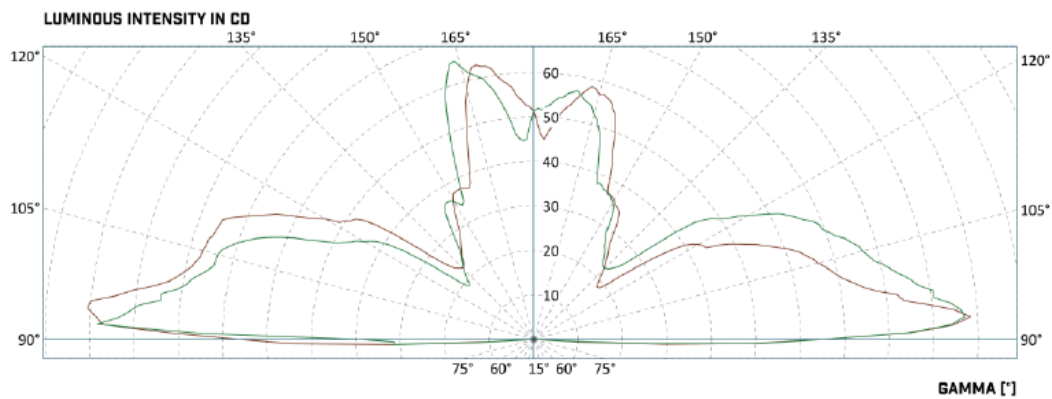
Type	Color	Power supply	Material
LowdoLed MK3	-G: Green -W: White -Y: Yellow -B: Blue -R: Red	-48V: 48VDC -230V: 110~240VAC	- : Aluminum -IN: Stainless Steel Stainless steel 1.4404, or 1.4435

DRAWING

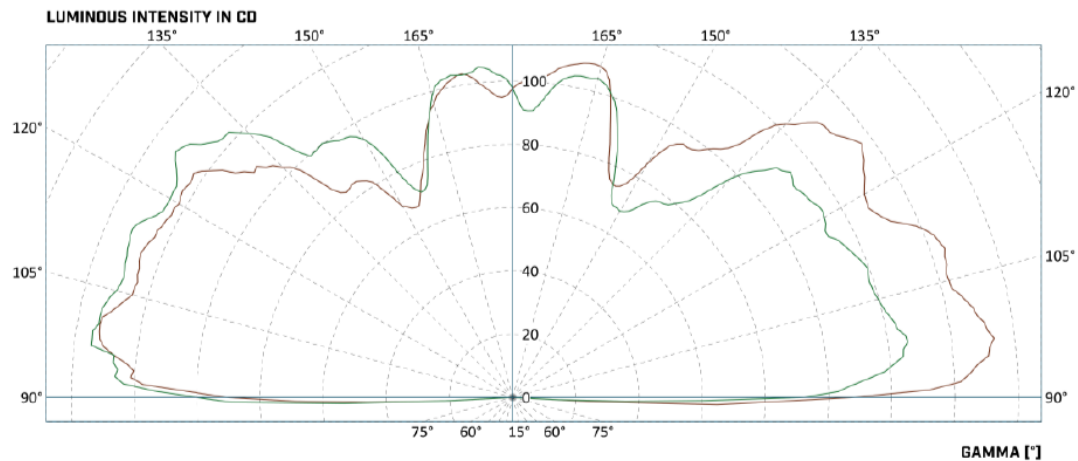


PHOTOMETRIC DATA

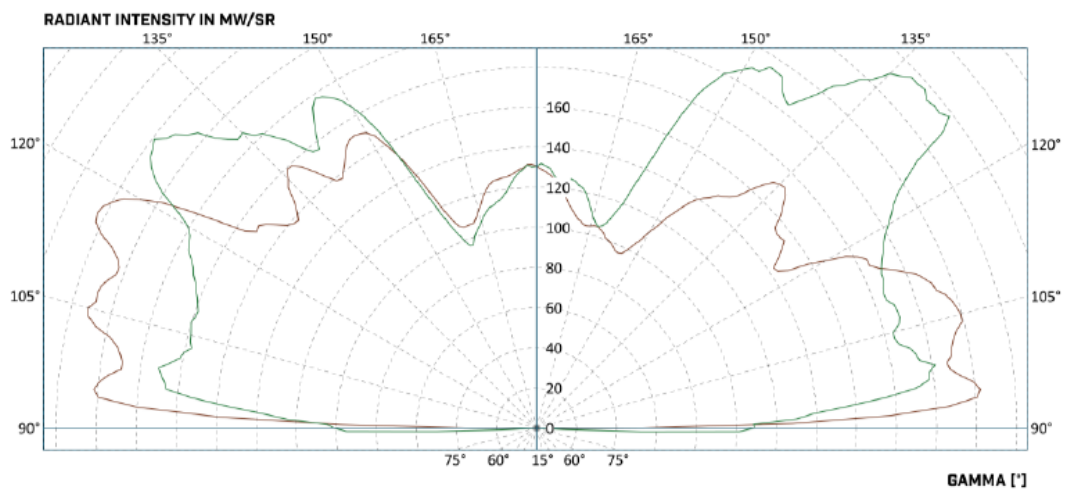
ICAO – Green



ICAO – White



INFRARED (integrated with all colors)



The descriptions, photometric measurements and features contained in this publication are given for information only and do not constitute an engagement for our society, which reserves the right to change them without prior notification.