

# Passenger Information Solutions

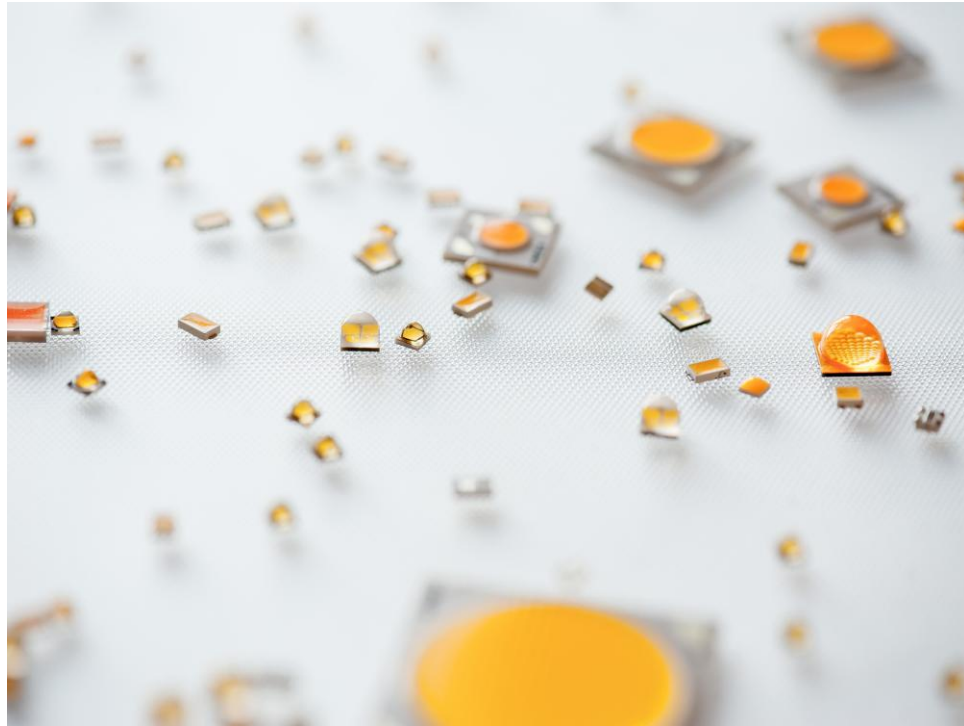
---

[WWW.FORGE.CO.UK](http://WWW.FORGE.CO.UK)



**HONGLI**TRONIC

# Contents



---

01) PACKAGES

---

02) SPECIFICATIONS

---

04) LIFE TEST

---

05) TESTING AND COMPLIANCE

---

06) QUALITY

# PACKAGES

---

# Packages

Package	Package Size	Colour
	<u>3528</u> 3.5mm x 2.8mm x 1.9mm	Amber White PC Amber
	<u>1608</u> 1.6mm x 0.8mm	White PC Amber
	<u>2121</u> 2.1mm x 2.1mm	Amber White
	<u>2835</u> 2.8mm x 3.5mm	White PC Amber

# SPECIFICATIONS

---

# Specifications

Package	Colour	Luminous Intensity (mcd)		Wavelength / CCT	Notes
		min	max		
1608	White	1100	1500	0.314 / 0.324	Single intensity bin / Single CCT bin
1608	PC Amber	900	1200	0.575 / 0.415	Single intensity bin
3528	White	2400	3200	0.32 / 0.33	Single intensity bin / Single CCT bin
3528	Amber	900	1100	591nm	Single intensity bin / Single CCT bin
3528	PC Amber	1600	2000	0.575 / 0.415	Single intensity bin
2835	White	2400	3200	0.32 / 0.33	Single intensity bin / Single CCT bin
2835	PC Amber	2200	2900	0.575 / 0.415	Single intensity bin
2121	White	1500	3100	0.305 / 0.35	
2121	Amber	355	645	592nm	

LIFETIME

---

# Lifetime (LM80 / TM21)



LED Type	Life (intensity reduction)	Life (colour shift)
Forge 3528 White (20mA, 85°C)	> 10 years (85k hrs)	✓ (Du'v' ~0.015, 6K hrs)
Forge 3528 PC-Amber (20mA, 85°C)	> 10 years (86k hrs)	✓ (Du'v' ~0.030, 12K hrs)
Forge 1608 White (2mA, 85°C)	> 10 years (63k hrs)	✓ (Du'v' ~0.025, 6K hrs)
Forge 1608 PC-Amber (2mA, 85°C)	> 10 years (111k hrs)	✓ (Du'v' ~0.015, 6K hrs)



## TEST REPORT

According to ANSI/IES LM-80-15  
For

**Forge Europa Ltd**

35 Princes Street, Ulverston, Cumbria, LA127NQ, United Kingdom

#Model: FE-SM1608-WHF1

Report Type: 6000 Hours Test Report	Product Type: LED Package
Test Engineer:	Pote Wang
Report Number:	RSZ190918504-10-6000
Test Date:	2019-09-20 to 2020-06-15
Report Date:	2020-07-24
Reviewed By:	Bill Xiong / EE Engineer
Test Facility:	Test facility was located at No.69,Pulongcun ,Puxihu Industrial Area, Tangxia , Dongguan, Guangdong, China.
Prepared By:	Bay Area Compliance Laboratories Corp. (Dongguan). No.69,Pulongcun ,Puxihu Industrial Area, Tangxia , Dongguan, Guangdong, China. Tel: +86-0769-86858888 Fax: +86-0769-86858588
Accreditation:	The IAS Accreditation Number TL-460.

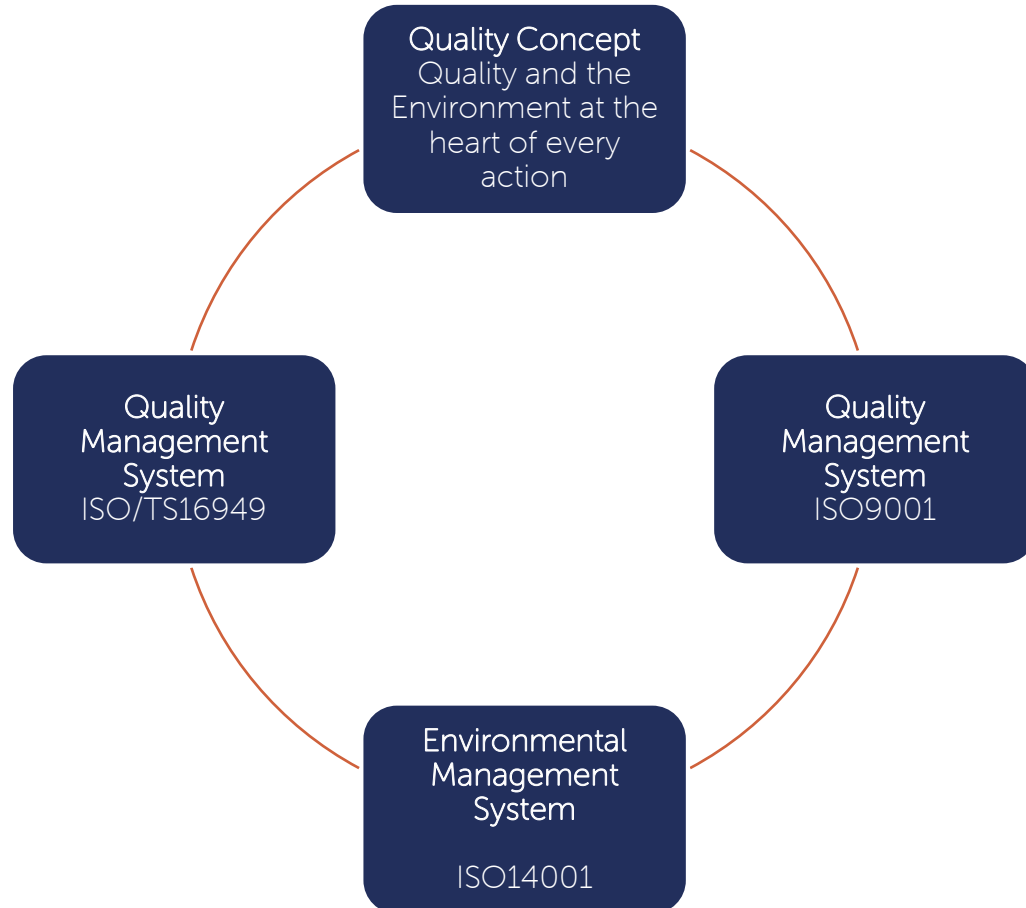


# Testing And Compliance



- HongliTronic Group's laboratory is accredited by CNAS and recognized by the U.S. EPA for conducting IES LM-80 testing of LED packages, arrays, and modules, as well as CIE 127-2007 standard testing. We offer clients a seamless, one-stop service experience, underpinning our expertise with cutting-edge testing facilities.
- HongliTronic integrates key international standards into research, development, manufacturing, and quality assurance. We develop standard solutions for global markets whilst remaining open to customised client requirements.

# Quality Policy



- HongliTronic is dedicated to the advancement of energy-saving LED technologies through sustainable innovation. We continually strive to make a positive impact, innovating for a greener tomorrow.
- From raw material through to finished products we adhere strictly to international environmental standards, our products and process are compliant with RoHS, REACH, PFOS/PFOA-free, and Halogen-free regulations, and have IEC62471 certification. We prioritise sustainability, waste reduction, and responsible waste management in every action we take.



+44 (0) 1229 580000  
info@forge.co.uk  
WWW.FORGE.CO.UK



**HONGLI**TRONIC