

A 225lm/w high light efficiency module designed for line lights

HUL-140SA-012012

LED Moudle Datasheet

The HIGNTEK HUL-140SA-012012 product is a uniquely wide portfolio which can be used in all kind of linear indoor luminaire types. The product uses a high light efficiency UHE-2835 led chip to make the module with ultra-high efficiency and brightness. Its size makes it easy to design and manufacture, and there are multiple sizes available to meet the needs of a wide range of applications, available lengths:70mm/140mm/280mm/560mm.

FEATURES AND BENEFITS

Efficacy and luminous flux of up to 225lm/W typical and 1039lm available Available CCT/CRI options: 2700K-6500K(80 & 90 CRI) Designed to be compatible with standard third party optics MCPCB for efficient heat dissipation and mechanical robustness CE, ROHS, ERP compliance 5-year limited guarantee

PRIMARY APPLICATIONS

Linear Light Wall lamp Panel light











Performance Characteristics

Product Selection Guide

Table 1. Product performance of HIGNTEK HUL-140SA-012012 (T_P=25°C)

NOMINAL CCT	CRI CURRENT [RA] [mA]	CURRENT	RRENT FORWARD	POWER	LUMINOUS FLUX [lm]		EFFICACY [lm/W]	
		VOLTAGE [W]	T _c = 25° C	T _c = 45° C	T _c = 25° C	T _c = 45° C		
3000K	80	120	10.6	1.27	266	261	209	206
	80	210	10.8	2.27	461	452	203	199
	80	450	11.5	5.18	966	947	186	183
	80	120	10.6	1.27	286	280	225	220
4000K	80	210	10.8	2.27	496	486	219	214
	80	450	11.5	5.18	1039	1018	201	197
6500K	80	120	10.6	1.27	283	277	223	218
	80	210	10.8	2.27	491	481	216	212
	80	450	11.5	5.18	1029	1008	199	195
	90	120	10.6	1.27	234	229	184	180
3000K	90	210	10.8	2.27	406	398	179	175
	90	450	11.5	5.18	850	833	164	161
	90	120	10.6	1.27	252	247	198	194
4000K	90	210	10.8	2.27	436	427	192	188
	90	450	11.5	5.18	914	896	176	173
6500K	90	120	10.6	1.27	249	244	196	192
	90	210	10.8	2.27	432	423	190	186
	90	450	11.5	5.18	906	888	175	171

Notes for Table1:

Notes for Table 1:

1. T_p : temperature at which performance is specified measured at "Tc point".

2. HIGNTEK maintains a measurement tolerance of : Luminous flux: ± 7 %, CRI: ± 3.0 ,

3. Measurement tolerance of CCT is ± 5 %.

4. HUL-140SA-012012 Color temperature (2700K-6500K) is optional.

Product Code Information

Table 2. Product Code-HUL-140SA-012012-XXX

CRI [RA]	NOMINAL CCT	PRODUCT CODE
	2700K	HUL-140SA-012012-278
	3000K	HUL-140SA-012012-308
	3500K	HUL-140SA-012012-358
80	4000K	HUL-140SA-012012-408
	5000K	HUL-140SA-012012-508
	5700K	HUL-140SA-012012-578
	6500K	HUL-140SA-012012-658
	2700K	HUL-140SA-012012-279
	3000K	HUL-140SA-012012-309
	3500K	HUL-140SA-012012-359
90	4000K	HUL-140SA-012012-409
	5000K	HUL-140SA-012012-509
	5700K	HUL-140SA-012012-579
	6500K	HUL-140SA-012012-659

Electrical Characteristics

Table 3. Electrical characteristics for HIGNTEK HUL-140SA-012012

PARAMETER	SYMBOL	VALUE			UNIT	REMARK
PARAIVIETER	STIVIBUL	MIN.	TYP.	MAX.	UNII	REWARK
Operating Current	l _F	-	210	1050	mA	-
Operating Voltage	V _F	10.4	10.8	11.2	Vdc	I _F =210 mA
Power Consumption	Р	2.18	2.27	2.35	W	T _P = 25 °C

Notes for Table3:

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Absolute Maximum Ratings

Table 4.Maximum Operating Specification (T_P=25°C)

PART NUMBER	PARAMETER	SYMBOL	UNIT	RATING
	Power Consumption	Р	W	12
	DC Forward Current	l _F	mA	1050
	Operating Temperature	-	°C	-40 to 65
	Storage Temperature	T_{Ctg}	°C	-40 to 105
HUL-140SA-012012-XXX	ESD Sensitivity	-	KV	3
	Beam Angle	_	0	120
	IP Grade	-	-	IP20
	Maximum Reverse Voltage	V _{RRM}	V	Moudle are not designed to be driven in reverse bias

Notes for Table4:

Characteristics Curves

Tc [°C]	Flux [%]	Efficacy [%]
85	94	93
65	97	96
45	100	100
25	102	103
0	105	107

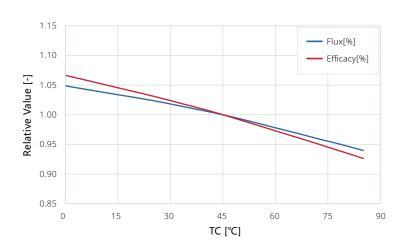


Figure 1. Typical normalized Flux and Efficacy vs. T_c temperature for HIGNTEK HUL-140SA-012012.

I [mA]	Flux [%]	Efficacy [%]
450	208	92
325	150	96
210	100	100
120	57	103

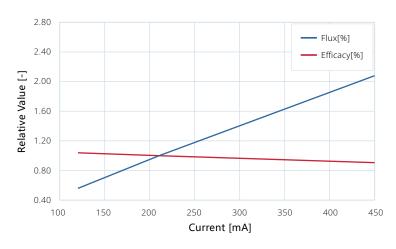


Figure 2. Typical normalized Flux and Efficacy vs. Current for HIGNTEK HUL-140SA-012012.

^{1.} $T_{\mbox{\tiny P}}$: temperature at which performance is specified measured at "Tc point".



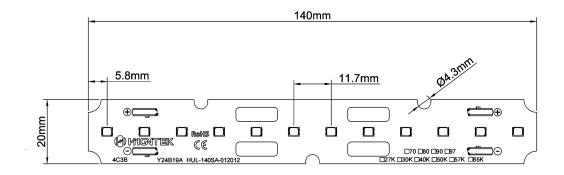




Figure 3. Mechanical Dimensions for HIGNTEK HUL-140SA-012012.

Notes for Figure 3:
1. Drawings are not to scale.
2. All dimensions are in millimeters.

Table 5. Bill of Materials for HIGNTEK HUL-140SA-012012.

COMPONENT	SPECIFICATION PARAMETERS	QUANTITY	
LED:2835	UHE-2835 3V	12	
PCB: MCPCB	140*20mm	1	
SMD PCB terminal block	WAGO-2065 0.2-0.75mm ²	4	

Notes for Table5:

1. Resistance specifications are adjusted according to different power.

Optional Branding (LED)





About HengXinYuan

Hengxinyuan is a professional lighting solutions company that helps customers deliver differentiated solutions to gain and maintain a competitive edge. The company's broad product portfolio includes a wide array of package and device choices such as CREE led, SUMSUNG led, LUMILEDS led, UHE led, Indoor lighting module and Outdoor lighting module. Hengxinyuan's LED products pursue high efficiency, high quality, and high reliability, and aim tomeet the needs of customers to the greatest extent. With the supply of high-standard supply chain services as the driving force, they contribute to the development of global LED green and healthy lighting power.

