

HUL-280SA-036036

LED Moudle Datasheet

The HIGNTEK HUL-280SA-036036 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 222lm/W typical and 3046lm 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-280SA-036036 (T_P=25°C)

NOMINAL CCT	CRI CUI	CURRENT	FORWARD	POWER	LUMINOUS FLUX [lm]		EFFICACY [lm/W]	
	[RA]	[RA] [mA]	VOLTAGE [W]	T _c = 25° C	T _c = 45° C	T _c = 25° C	T _c = 45° C	
3000K	80	120	31.8	3.82	788	772	206	202
	80	210	32.4	6.80	1368	1341	201	197
	80	450	33.8	15.21	2833	2776	186	183
4000K	80	120	31.8	3.82	847	830	222	217
	80	210	32.4	6.80	1471	1442	216	212
	80	450	33.8	15.21	3046	2985	200	196
6500K	80	120	31.8	3.82	839	822	220	215
	80	210	32.4	6.80	1456	1427	214	210
	80	450	33.8	15.21	3016	2956	198	194
3000K	90	120	31.8	3.82	693	679	181	178
	90	210	32.4	6.80	1204	1180	177	174
	90	450	33.8	15.21	2493	2443	164	161
4000K	90	120	31.8	3.82	745	730	195	191
	90	210	32.4	6.80	1294	1268	190	186
	90	450	33.8	15.21	2680	2626	176	173
6500K	90	120	31.8	3.82	738	723	193	189
	90	210	32.4	6.80	1281	1255	188	184
	90	450	33.8	15.21	2654	2601	174	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-280SA-036036 Color temperature (2700K-6500K) is optional.

Product Code Information

Table 2. Product Code-HUL-280SA-036036-XXX

CRI [RA]	NOMINAL CCT	PRODUCT CODE		
	2700K	HUL-280SA-036036-278		
	3000K	HUL-280SA-036036-308		
	3500K	HUL-280SA-036036-358		
80	4000K	HUL-280SA-036036-408		
	5000K	HUL-280SA-036036-508		
	5700K	HUL-280SA-036036-578		
	6500K	HUL-280SA-036036-658		
	2700K	HUL-280SA-036036-279		
	3000K	HUL-280SA-036036-309		
	3500K	HUL-280SA-036036-359		
90	4000K	HUL-280SA-036036-409		
	5000K	HUL-280SA-036036-509		
	5700K	HUL-280SA-036036-579		
	6500K	HUL-280SA-036036-659		

Electrical Characteristics

Table 3. Electrical characteristics for HIGNTEK HUL-280SA-036036

PARAMETER	SYMBOL	VALUE			UNIT	REMARK
PARAIVIETER	STIVIDOL	MIN.	TYP.	MAX.	UNII	REWARK
Operating Current	l _F	-	210	1050	mA	-
Operating Voltage	V _F	31.2	32.4	33.6	Vdc	I _F =210 mA
Power Consumption	Р	6.55	6.80	7.06	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	36
	DC Forward Current	l _F	mA	1050
	Operating Temperature	-	°C	-40 to 65
	Storage Temperature	T_{Ctg}	°C	-40 to 105
HUL-280SA-036036-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

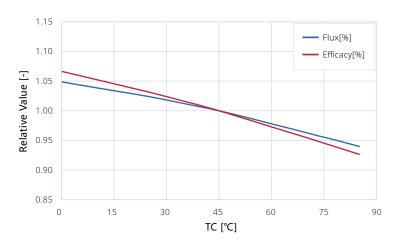


Figure 1. Typical normalized Flux and Efficacy vs. T_c temperature for HIGNTEK HUL-280SA-036036.

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

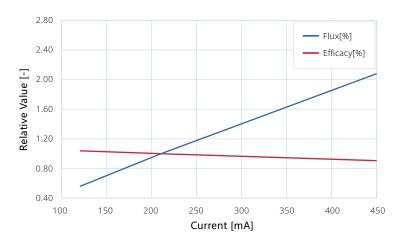


Figure 2. Typical normalized Flux and Efficacy vs. Current for HIGNTEK HUL-280SA-036036.

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

Mechanical Dimensions

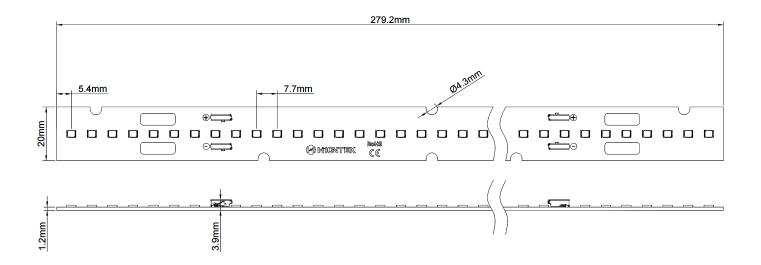


Figure 3. Mechanical Dimensions for HIGNTEK HUL-280SA-036036.

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

Table 5. Bill of Materials for HIGNTEK HUL-280SA-036036.

COMPONENT	SPECIFICATION PARAMETERS	QUANTITY
LED:2835	UHE-2835 3V	36
PCB: MCPCB	279.2*20mm	1
SMD PCB terminal block	WAGO-2065 0.2-0.75mm ²	4

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.



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