





HUL-280SA-036024

LED Moudle Datasheet

The HIGNTEK HUL-280SA-036024 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

A 224lm/w

Efficacy and luminous flux of up to 224lm/W typical and 2031lm 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-036024 (Tp=25°C)

NOMINAL CCT	CRI CU	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	80	31.9	2.55	530	519	208	204
	80	140	32.4	4.54	917	899	202	198
	80	300	33.7	10.11	1885	1847	186	183
4000K	80	80	31.9	2.55	570	559	224	219
	80	140	32.4	4.54	986	966	217	213
	80	300	33.7	10.11	2027	1986	200	196
6500K	80	80	31.9	2.55	564	553	221	217
	80	140	32.4	4.54	976	956	215	211
	80	300	33.7	10.11	2007	1967	199	195
3000K	90	80	31.9	2.55	466	457	183	179
	90	140	32.4	4.54	807	791	178	174
	90	300	33.7	10.11	1659	1626	164	161
	90	80	31.9	2.55	502	492	197	193
4000K	90	140	32.4	4.54	868	851	191	187
	90	300	33.7	10.11	1784	1748	176	173
6500K	90	80	31.9	2.55	496	486	195	191
	90	140	32.4	4.54	859	842	189	185
	90	300	33.7	10.11	1766	1731	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-280SA-036024 Color temperature (2700K-6500K) is optional.

Product Code Information

Table 2. Product Code-HUL-280SA-036024-XXX

CRI [RA]	NOMINAL CCT	PRODUCT CODE
	2700K	HUL-280SA-036024-278
	3000K	HUL-280SA-036024-308
	3500K	HUL-280SA-036024-358
80	4000K	HUL-280SA-036024-408
	5000K	HUL-280SA-036024-508
	5700K	HUL-280SA-036024-578
	6500K	HUL-280SA-036024-658
	2700K	HUL-280SA-036024-279
	3000K	HUL-280SA-036024-309
	3500K	HUL-280SA-036024-359
90	4000K	HUL-280SA-036024-409
	5000K	HUL-280SA-036024-509
	5700K	HUL-280SA-036024-579
	6500K	HUL-280SA-036024-659

Electrical Characteristics

Table 3. Electrical characteristics for HIGNTEK HUL-280SA-036024

PARAMETER	SYMBOL	VALUE			UNIT	REMARK
PARAIVIETER	STIVIDOL	MIN.	TYP.	MAX.	UNII	REWARK
Operating Current	l _F	-	140	700	mA	-
Operating Voltage	V _F	31.2	32.4	33.6	Vdc	I _F =140 mA
Power Consumption	Р	4.37	4.54	4.70	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	24
	DC Forward Current	l _F	mA	700
	Operating Temperature	-	°C	-40 to 65
	Storage Temperature	T_{Ctg}	°C	-40 to 105
HUL-280SA-036024-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

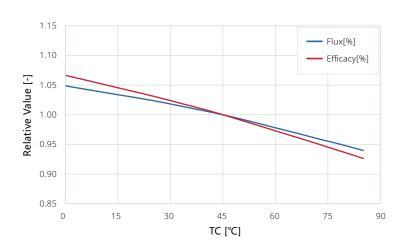


Figure 1. Typical normalized Flux and Efficacy vs. T_c temperature for HIGNTEK HUL-280SA-036024.

I [mA]	Flux [%]	Efficacy [%]
300	208	92
214	150	96
140	100	100
80	57	103

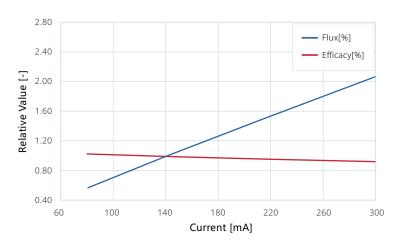


Figure 2. Typical normalized Flux and Efficacy vs. Current for HIGNTEK HUL-280SA-036024.

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

Mechanical Dimensions

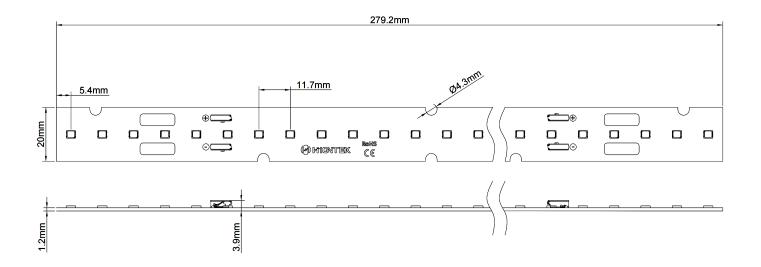


Figure 3. Mechanical Dimensions for HIGNTEK HUL-280SA-036024.

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-036024.

COMPONENT	SPECIFICATION PARAMETERS	QUANTITY
LED:2835	UHE-2835 3V	24
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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