

SPECIFICATION

MODEL : HLC3S-HW-WXX

(150° Angle)

Constant Current + High Power Module

Powerd by SamsungLED

Sup	Customer		
Written by	Written by Approved by		

NCLED CO., LTD



Characteristic

CE, UL, KS CERTIFIED HICH EFFICIENCY SAMSUNG LED 5630 LED MOUNTED TOTAL 124 Lumen (100 lm/W) **150° WIDE ANGLE OPTIC LENS APPLIED** IP67 RATING COMPACT DESIGN AND CONVENIENT USABILITY DAMP.PROOF DESIGN TO PREVENT DAMAGE FOR LED & OTHER PARTS EXCELLENT PROTECTION RATE AGAINST RAIN, DIRECT LGIHT AND ULTRAVIOLET RAYS LESS QUANTITY, BETTER UNIFORMITY FOR LOWER CHANNEL LETTER TRACEABILITY MANAGEMENT SYSTEM & QUALITY CONTROL MARKING SERIAL CODE COST REDUCTION FOR INSTALLATION AND MAINTENANCE

Application note

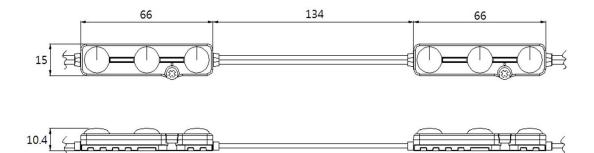
BEST SUBSTITUTE FOR GENERAL CHANNEL LETTER SIGNAGE MODIFIED FOR THE BEST UNIFORMITY BACK LIGHT FOR LIGHT BOX

Product Image





Dimension

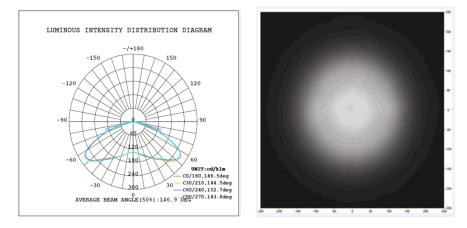


Specification

Item		Value							
Model no	W12	W95	W65	W57	W50	W40	W30	W27	Unit
Power Dissipation				1.2	2W				Watt
Forward Voltage				1	.2				VDC
Forward Current				10	00				mA
Driving System			С	onstan	t Currei	nt			-
Luminous Flux	114	114	120	120	120	120	114	108	lm
Luminance Efficiency	95	95	100	100	100	100	95	90	lm/W
CCT(K)	12000	9500	6500	5700	5000	4000	3000	2700	Kelvin
CRI (Ra)	75	75	80	80	80	80	80	80	%
Viewing angle		150°, Wide Angle						deg	
LED maker		5630PKG x 3EA / SAMSUNG LED					-		
Module Pitch	200 ± 5					mm			
Size	72 x 17 x 10.4					mm			
Weight	11					g			
Max in series	35						EA		
Operating Temp	-20 ~ 50					°C			
Storage Temp	-30 ~ 70					°C			
Waterproof	IP67								
Life Time	40,000					Hour			
Cable	UL, AWM2468-AWG18x2C								
LENS materials	PMMA, UL-94								
Case materials	PC/ABS , UL-94, V-2								



Photometric characteristics



Color Parameters:

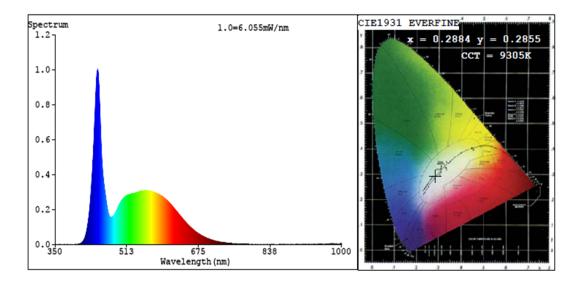
Chromaticity Coordinate:x=0.2884 y=0.2855/u'=0.1972 v'=0.4393 CCT=9305K(Duv=-0.0064) Dominant WL:Ld =475.7nm Purity=19.9% Ratio:R=12.9% G=80.8% B=6.3% Peak WL:Lp=446.7nm FWHM=19.5nm Render Index:Ra=84.5

Photo Parameters:

Flux = 121.6 lm Eff. : 98.52 lm/W Fe = 437.9 mW

Electrical parameters:

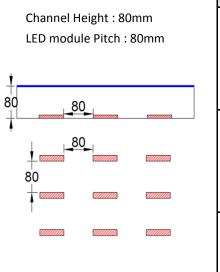
V = 11.998 V I = 0.1029 A P = 1.235 W PF = 1.000





Compare uniformity

LX-HLC3S(120°) Vs HLC3S-HW(150°)



Materail	LX-ECO3S(120°)	ECO3S-HW(150°)		
Flex				
PC (diffuser)				
Acrylic				

LED Specification

Absolute Maximum Rating		۹، 🥪	SAMSUNG		
Item	Symbol	Rating	Condition		
LED junction temperature	T,	110°C	-		
Forward Current	I _F	150 mA	-		
Peak Pulsed Forward Current	IFP	300 mA	Duty 1/10 pulse width 10ms		
Thermal resistance	R _{th,} j-s	16°C/W	Junction to solder point		
ESD	-	5k∨	НВМ		

LM80- Test Summary

Life test condition			Summary of result			
Test condition	Current (mA)	Case temperature (℃)	Test duration (h)	Average lumen maintenance (%)	Maximum chromaticity shift (△u'∨')	
1	100	53.8°C	6000	98.9	0.0010	
2	100	84.6°C	6000	97.8	0.0018	
3	100	104.9°C	6000	92.4	0.0032	