

SPECIFICATION

MODEL : HLC2S-LW-WXX

(150° Angle, Constant Current)

Powerd by Samsung LED

Sup	Customer			
Written by	Approved by	Approved by		

NCLED CO., LTD







Characteristic

CE, UL, KS CERTIFIED HICH EFFICIENCY SAMSUNG LED 5630 LED MOUNTED THE BEST STABILITY AGAINST TEMP. AND POWER CHANGE WITH CONSTANT CURRENT CIRCUIT IP67 RATING 150° WIDE ANGLE OPTIC LENS APPLIED 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 40,000HOURS RATED LIFE TIME (L70)

Application note

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

Product Image



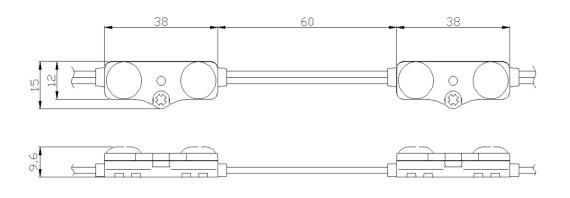


ONLINE ORDER





Dimension



Specification

Item	Value				l locit					
Model no	W12	W95	W65	W57	W50	W40	W30	W27	Unit	
Power Dissipation		0.72W					Watt			
Forward Voltage		12						VDC		
Forward Current	60					mA				
Driving System	Constant Current					-				
Luminous Flux	47	47	50	50	50	50	47	45	lm	
Luminance Efficiency	65	65	70	70	70	70	65	63	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	5630PKG x 2EA / Samsung LED					-				
Module Pitch	98 ±3					mm				
Size	38 x 15 x 9.6					mm				
Weight	7					g				
Max in series	50					EA				
Operating Temp	-20 ~ 50					°C				
Storage Temp	-30 ~ 70					°C				
Waterproof	IP67									
Life Time	50,000					Hour				
Cable	AWM2468-AWG18, UL									
LENS materials	PMMA, UL-94									
Case materials	PC/ABS, UL-94 , V-2									



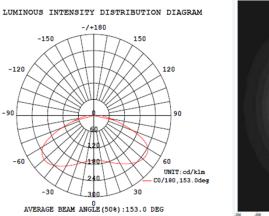
ONLINE ORDER

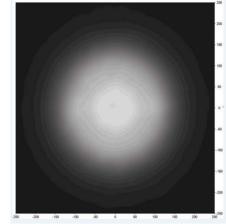






Photometric characteristics





Color Parameters:

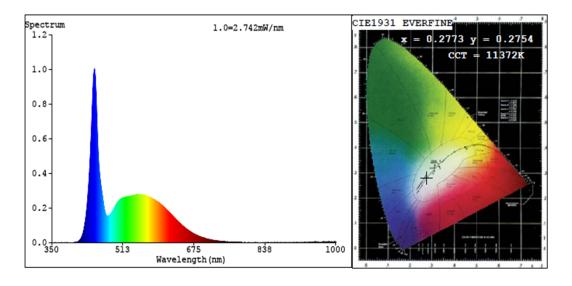
Chromaticity Coordinate:x=0.2773 y=0.2754/u'=0.1929 v'=0.4311 CCT=11372K(Duv=-0.0048) Dominant WL:Ld =476.3nm Purity=24.5% Ratio:R=12.0% G=81.0% B=7.0% Peak WL:Lp=447.7nm FWHM=18.6nm Render Index:Ra=84.4

Photo Parameters:

Flux = 49.15 lm Eff. : 66.62 lm/W Fe = 180.9 mW

Electrical parameters:

V = 11.998 V I = 0.06150 A P = 0.7379 W PF = 1.000



ONLINE ORDER

WWW.SA-LED.COM



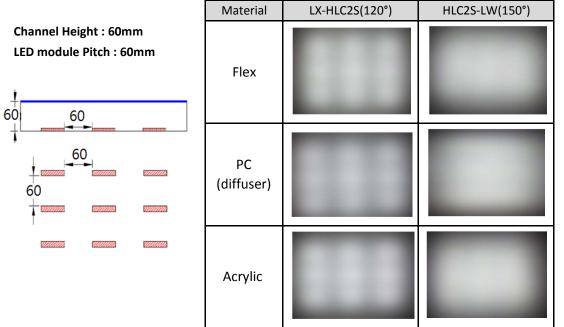
SALed[®]



HLC2S-LW-WXX

Compare uniformity

LX-HLC2S(120°) Vs HLC2S-LW(150°)



LED Specification





Absolute Maximum Rating

Item	Symbol	Rating	Condition		
LED junction temperature	T,	110℃	-		
Forward Current	l _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	-	5kV	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'v')	
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	