

# **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**



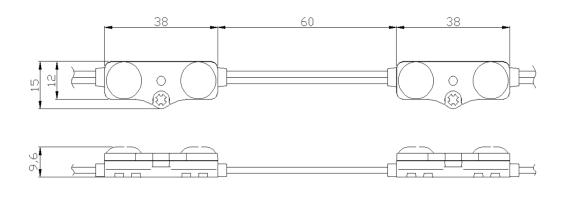


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## Dimension



# **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									



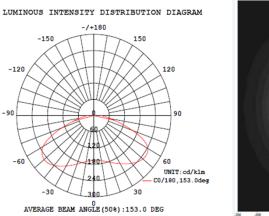
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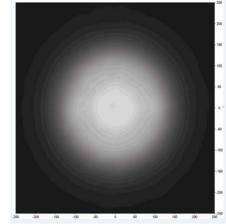






#### **Photometric characteristics**





#### Color Parameters:

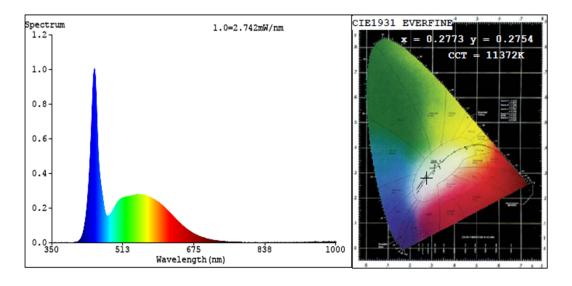
Chromaticity Coordinate:x=0.2773 y=0.2754/u'=0.1929 v'=0.4311 CCT=11372K(Duv=-0.0048) Dominant WL:Ld =476.3nm Purity=24.5% Ratio:R=12.0% G=81.0% B=7.0% Peak WL:Lp=447.7nm FWHM=18.6nm Render Index:Ra=84.4

#### 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



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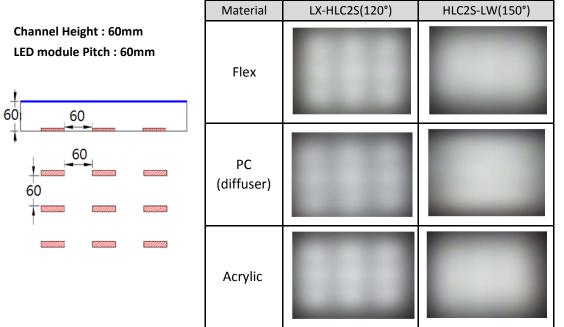
SALed<sup>®</sup>



# 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 <sub>F</sub>	150 mA	-		
Peak Pulsed Forward Current	IFP	300 mA	Duty 1/10 pulse width 10ms		
Thermal resistance	R <sub>th</sub> , 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	