

# **SPECIFICATION**

**MODEL: LX-ECO4-xxx** 

( Cover - 120° Angle)

**Powerd by Samsung LED** 

Sup	Customer	
Written by	Approved by	Approved by

# NCLED CO., LTD

Head Office: 4F Mirae B/D Amsa-dong, Kangdong-gu, Seoul, Korea

Tel: (02)474-8581, Fax: (02)429-8581,



### Characteristic

# CE, UL, KS CERTIFIED HICH EFFICIENCY SAMSUNG LED 5630 LED MOUNTED





**IP68 RATING** 

#### 120° COVER LENS APPLIED

DAMP.PROOF DESIGN TO PREVENT DAMAGE FOR LED & OTHER PARTS EXCELLENT PROTECTION RATE AGAINST RAIN, DIRECT LGIHT AND ULTRAVIOLET RAYS COMPACT DESIGN AND CONVENIENT USABILITY TRACEABILITY MANAGEMENT SYSTEM & QUALITY CONTROL MARKING SERIAL CODE CO TRACEABILITY MANAGEMENT SYSTEM & QUALITY CONTROL MARKING SERIAL CODE 50,000HOURS 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**





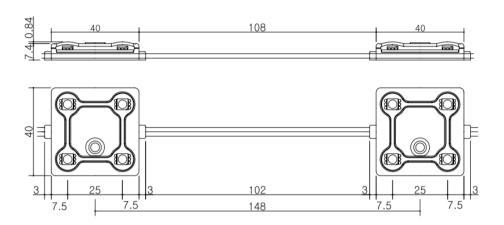
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# **Dimension**



**Specification** 

Item		Value						
Model no	W12	W95	W65		W50	W30		Unit
Power Dissipation		1.44W					•	Watt
Forward Voltage		12					VDC	
Forward Current		120				mA		
Driving System			C	onstant	: Voltage			1
Luminous Flux	94	94	100		100	94		lm
Luminance Efficiency	65	65	70		70	65		lm/W
CCT(K)	12000	9500	6500		5000	3000		Kelvin
CRI (Ra)	75	75	80		80	80		%
Viewing angle		120°				deg		
LED maker		5630PKG x 2EA / Samsung LED				ı		
Module Pitch		148 ±5				mm		
Size		46 x 40 x 11				mm		
Weight		13				g		
Max in series		35					EA	
Operating Temp		-20 ~ 50				°C		
Storage Temp		-30 ~ 70				°C		
Waterproof		IP68						
Life Time	50,000					Hour		
Cable		AWM2468-AWG18x2C, UL						
LENS materials		PMMA, UL-94						
Case materials	PC/ABS, UL-94 , V-2							

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## Photometric characteristics

#### Color Parameters:

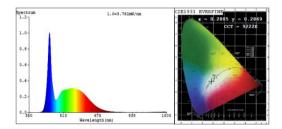
Chromaticity Coordinate:x=0.2885 y=0.2869/u'=0.1967 v'=0.4402 CCT=9222K(Duv=-0.0057) Dominant WL:Ld =476.3nm Purity=19.6% Ratio:R=12.8% G=80.8% B=6.4% Peak WL:Lp=447.0nm FWHM=18.6nm Render Index:Ra=84.8

### Photo Parameters:

Flux = 74.34 lm Eff. : 102.42 lm/W Fe = 266.7 mW

## Electrical parameters:

v = 11.998 vI = 0.06050 A P = 0.7259 W PF = 1.000



# **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	I <sub>FP</sub>	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℃	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

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