

SPECIFICATION

MODEL: HLC4-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 IP68 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



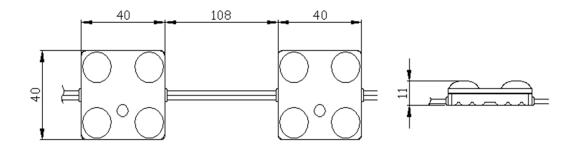








Dimension



Specification

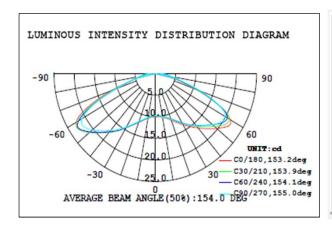
pecification									
Item				Va	lue				l lm:4
Model no	W12	W95	W65	W57	W50	W40	W30	W27	Unit
Power Dissipation		1.44W					Watt		
Forward Voltage		12					VDC		
Forward Current		120					mA		
Driving System			C	onstan	t Currer	nt			-
Luminous Flux	94	94	100	100	100	100	94	90	lm
Luminance Efficiency	65	65	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 maker		5630PKG x 2EA / Samsung LED					-		
Module Pitch		148 ±5					mm		
Size		40 x 40 x 11					mm		
Weight		13						g	
Max in series		50						EA	
Operating Temp		-20 ~ 50					°C		
Storage Temp		-30 ~ 70					°C		
Waterproof		IP68							
Life Time		50,000					Hour		
Cable		AWM2468-AWG18x2C, UL							
LENS materials		PIVIIVIA, UL-94							
Case materials		PC/ABS, UL-94 , V-2							
	_	_	_			_			

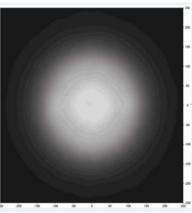






Photometric characteristics





Color Parameters:

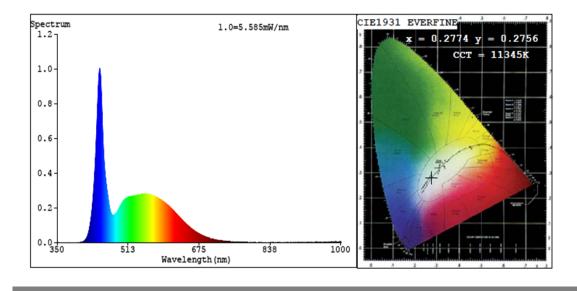
Chromaticity Coordinate:x=0.2774 y=0.2756/u'=0.1929 v'=0.4312 CCT=11345K(Duv=-0.0048) Dominant WL:Ld =476.4nm Purity=24.5% Ratio:R=12.0% G=81.0% B=7.0% Peak WL:Lp=447.1nm FWHM=18.9nm Render Index:Ra=84.6

Photo Parameters:

Flux = 101.2 lm Eff. : 68.77 lm/W Fe = 372.4 mW

Electrical parameters:

V = 11.998 V I = 0.1227 A P = 1.472 W PF = 1.000









Compare uniformity

LX-HLC4(120°) Vs HLC4-LW(150°)

Material	LX-HLC4(120°)	HLC4-LW(150°)			
Flex					
PC (diffuser)	#				
Acrylic					

LED Specification

Absolute Maximum Rating







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Item	Symbol	Rating	Condition
LED junction temperature	T,	110°C	-
Forward Current	l _F	150 mA	-
Peak Pulsed Forward Current	I _{FP}	300 mA	Duty 1/10 pulse width 10ms
Thermal resistance	R _{th.} j-s	16℃/W	Junction to solder point
ESD	-	5kV	НВМ

LM80- Test Summary

Life test condition			Summary of result			
Test condition	Current (mA)	Case temperature (°C)	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	



