

SPECIFICATION

MODEL: HLC4-HW-WXX

(150° Angle)

Constant Current + High Power Module

Powerd by SamsungLED

Sup	Customer			
Written by	Approved 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 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



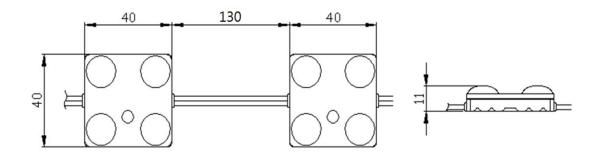








Dimension



Specification

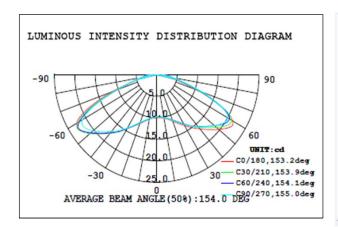
pecification									
Item		Value							
Model no	W12	W95	W65	W57	W50	W40	W30	W27	Unit
Power Dissipation				1.8	3W				Watt
Forward Voltage		12					VDC		
Forward Current		150					mA		
Driving System			С	onstan	t Currer	nt			1
Luminous Flux	116	116	124	124	124	124	116	112	lm
Luminance Efficiency	64	64	68	68	68	68	64	62	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 4EA / SAMSUNG LED						-	
Module Pitch		170 ±5					mm		
Size		40 x 40 x 11					mm		
Weight		13					g		
Max in series		30						EA	
Operating Temp		-20 ~ 50						°C	
Storage Temp	-30 ~ 70						°C		
Waterproof	IP67								
Life Time	50,000						Hour		
Cable	AWM2468-AWG18x2C, UL								
LENS materials	PMMA, UL-94								
Case materials	PC/ABS, UL-94 , V-2								

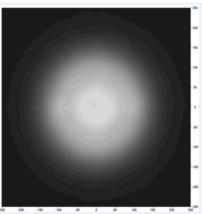






Photometric characteristics





Color Parameters:

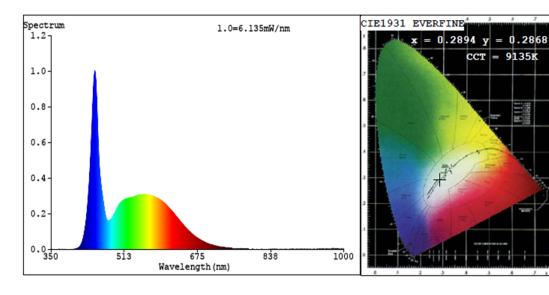
Chromaticity Coordinate:x=0.2894 y=0.2868/u'=0.1974 v'=0.4403 CCT=9135K(Duv=-0.0063) Dominant WL:Ld =475.9nm Purity=19.4% Ratio:R=13.0% G=80.6% B=6.4% Peak WL:Lp=447.0nm FWHM=19.1nm Render Index:Ra=85.2

Photo Parameters:

Flux = 123.6 lm Eff. : 69.03 lm/W Fe = 443.0 mW

Electrical parameters:

V = 11.998 V I = 0.1492 A P = 1.790 W PF = 1.000









Compare uniformity

LX-HLC4(120°) Vs HLC4-HW(150°)

Materail	LX-HLC4(120°)	HLC4-HW(150°)			
Flex		•			
PC (diffuser)					
Acrylic					

LED Specification

Absolute Maximum Rating







100		
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Item	Symbol	Rating	Condition
LED junction temperature	T,	110℃	-
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	



