

# B3528-XXV-60-8MM-4.8W-XXK-IPYY

LED Engines



## FEATURES

- Lumen output: 12V = 113.5 lm/ft, 24V = 128 lm/ft
- Single row, SMD 3528
- 18.3 LED/ft / 60 LED/m
- Width: 5/16 in / 8mm
- Length: 16.4ft / 5m
- 12V / 24V
- 1.46 W/ft / 4.8W/m



12V LED ENGINE - IP22	QUANTITY	12V LED ENGINE - IP68	QUANTITY
B3528-12V-60-8mm-4.8W-2700K-IP22		B3528-12V-60-8mm-4.8W-2700K-IP68	
B3528-12V-60-8mm-4.8W-3000K-IP22		B3528-12V-60-8mm-4.8W-3000K-IP68	
B3528-12V-60-8mm-4.8W-3500K-IP22		B3528-12V-60-8mm-4.8W-3500K-IP68	
B3528-12V-60-8mm-4.8W-4200K-IP22		B3528-12V-60-8mm-4.8W-4200K-IP68	
B3528-12V-60-8mm-4.8W-6200K-IP22		B3528-12V-60-8mm-4.8W-6200K-IP68	

24V LED ENGINE - IP22	QUANTITY	24V LED ENGINE - IP68	QUANTITY
B3528-24V-60-8mm-4.8W-2700K-IP22		B3528-24V-60-8mm-4.8W-2700K-IP68	
B3528-24V-60-8mm-4.8W-3000K-IP22		B3528-24V-60-8mm-4.8W-3000K-IP68	
B3528-24V-60-8mm-4.8W-3500K-IP22		B3528-24V-60-8mm-4.8W-3500K-IP68	
B3528-24V-60-8mm-4.8W-4200K-IP22		B3528-24V-60-8mm-4.8W-4200K-IP68	
B3528-12V-60-8mm-4.8W-6200K-IP22		B3528-12V-60-8mm-4.8W-6200K-IP68	

### CUSTOM OPTIONS:

SMD TYPE	INPUT VOLTAGE	LED DENSITY	STRIP WIDTH	RATED POWER	CCT	USAGE	LEAD IN / OUT	STRIP LENGTH
B3528 - 3.5 x 2.8mm	12V - 12 volt 24V - 24 volt	60 - 60 LED/m	8mm (5/16 in.)	4.8 W/m (1.5 W/ft)	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"><span style="width: 15px; height: 10px; background-color: #f4a460; border: 1px solid black; margin-right: 5px;"></span> 2700K</div> <div style="display: flex; align-items: center;"><span style="width: 15px; height: 10px; background-color: #f4c69d; border: 1px solid black; margin-right: 5px;"></span> 3000K</div> <div style="display: flex; align-items: center;"><span style="width: 15px; height: 10px; background-color: #f4e1d9; border: 1px solid black; margin-right: 5px;"></span> 3500K</div> <div style="display: flex; align-items: center;"><span style="width: 15px; height: 10px; background-color: #f4f1e1; border: 1px solid black; margin-right: 5px;"></span> 4200K</div> <div style="display: flex; align-items: center;"><span style="width: 15px; height: 10px; background-color: #f4f9f9; border: 1px solid black; margin-right: 5px;"></span> 6200K</div> </div>	IP22 - indoor dry location  IP68 - wet/damp location	HW3 - Hardwire 36" HW6 - Hardwire 72" HW9 - Hardwire 108" HWX - Hardwire cust. DC3 - DC plug 36" DC6 - DC plug 72" DC9 - DC plug 108" DCX - DC plug cust. NO - No lead	Custom length up to 420 inches.  Quick ship regular roll is 196 inches - 12 in HW only.

<b>B3528</b>	<b>60</b>	<b>8MM</b>	<b>4.8W</b>
SMD TYPE	LED/M	WIDTH	W/M
INPUT VOLTAGE	CCT	USAGE	IN    OUT    LENGTH

\*NOTE: The light output is provided in lumens per foot, for a CCT of 4200K and a clear lens. Please refer to the optics page for CCT and translucency conversion factors.

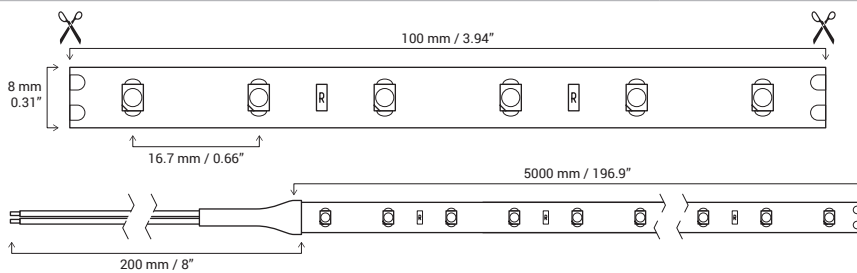
# B3528-24V-60-8mm-4.8W-XXK-IPYY

## Specification Sheet



### PHYSICAL

Product Type	Flexible LED Strip		
SMD Type	3528		
Strip Width	5/16 in	8 mm (IP22)	10 mm (IP68)
Strip Total Length (Roll)	16.4 ft	5 m	
LED Linear Density	18.3 LED/ft	60 LED/m	300 LED/roll total
Can be cut at every	3.94 in	100 mm	6 LED
Storage Temperature	-40°C to +80°C	Operating Temperature -25°C to +40°C	
Lifespan	50 000 Hrs		



### ELECTRICAL

Input Type	DC, Constant Voltage		
Input Voltage	24V DC		
<b>Rated Power (Max.)</b>	<b>1.5 W/ft</b>	<b>4.8 W/m</b>	<b>24 W/roll total</b>



Electrical Input

Rated Power (Max.)

**CONSTANT VOLTAGE 24V DC 24 W/roll**

Correlated Color Temperature (CCT)



### PRODUCT RANGE

Part Number	Code	IP	CCT*	Luminous Flux			Luminous Efficacy	CRI**	R9	duv***
B3528-24V-60-8mm-4.8W-2400K-IP22	LM28097-05	IP22	2400K	<b>112.2 lm/ft</b>	<b>368.2 lm/m</b>	<b>1841 lm/roll</b>	76.7 lm/W	92.3	58	0.0011
B3528-24V-60-8mm-4.8W-2400K-IP68	LM28097-06	IP68	(Soft White)							
B3528-24V-60-8mm-4.8W-2700K-IP22	LM28096-95	IP22	2700K	<b>112.7 lm/ft</b>	<b>369.6 lm/m</b>	<b>1848 lm/roll</b>	77.0 lm/W	92.6	69	0.010
B3528-24V-60-8mm-4.8W-2700K-IP68	LM28096-96	IP68	(Soft White)							
B3528-24V-60-8mm-4.8W-3000K-IP22	LM28095-01	IP22	3000K	<b>115.3 lm/ft</b>	<b>378.4 lm/m</b>	<b>1892 lm/roll</b>	78.8 lm/W	92.6	64	0.0001
B3528-24V-60-8mm-4.8W-3000K-IP68	LM28096-24	IP68	(Warm White)							
B3528-24V-60-8mm-4.8W-3500K-IP22	LM28061-24	IP22	3500K	<b>119.2 lm/ft</b>	<b>390.9 lm/m</b>	<b>1955 lm/roll</b>	81.4 lm/W	93.2	87	0.0021
B3528-24V-60-8mm-4.8W-3500K-IP68	LM28063-24	IP68	(Bright White)							
B3528-24V-60-8mm-4.8W-4200K-IP22	LM28071-24	IP22	4200K	<b>124.8 lm/ft</b>	<b>409.7 lm/m</b>	<b>2049 lm/roll</b>	85.4 lm/W	94.4	84	0.0011
B3528-24V-60-8mm-4.8W-4200K-IP68	LM28072-24	IP68	(Neutral White)							
B3528-24V-60-8mm-4.8W-6200K-IP22	LM28081-24	IP22	6200K	<b>125.6 lm/ft</b>	<b>412.1 lm/m</b>	<b>2061 lm/roll</b>	85.9 lm/W	93.2	81	0.032
B3528-24V-60-8mm-4.8W-6200K-IP	LM28081-28	IP68	(Cool White)							

Other CCT available upon request. Please contact your authorized representative.

CCT\* - Correlated Color Temperature

CRI\*\* - Colour Rendering Index

duv\*\*\* - Black-body Curve Deviation

Office & Showroom:  
9221, rue Edison, Montreal, Quebec, H1J 1T4, Canada

Toll Free: 1-855-384-3384  
E-mail: info@lumentruss.com  
www.lumentruss.com

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# B3528-24V-60-8mm-4.8W-2400K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4890, y=0.4182, u=0.2778, v=0.3564, duv=0.0011$   
 Correlated Color Temperature: 2393K  
 Dominant Wave.: 585.6nm  
 Purity: 72.3%  
 Flux RGB Ratio: R=29.1%, G=69.8%, B=1.1%  
 Peak Wave: 631.6nm  
 Half Width: 132.2nm

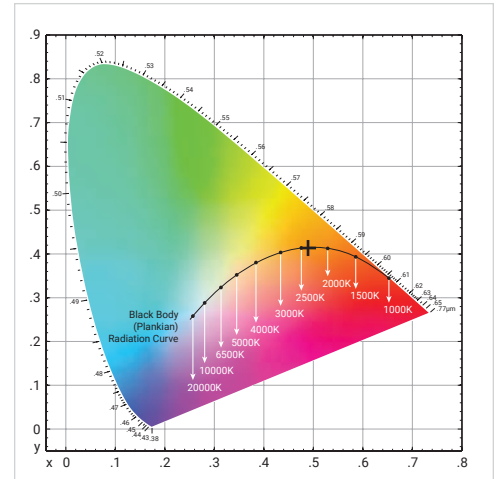
### Rendering Index: Ra=92.3

R1 = 92 R2 = 96 R3 = 99 R4 = 93 R5 = 93 R6 = 96 R7 = 90 R8 = 79  
 R9 = 58 R10=90 R11=95 R12=84 R13=93 R14=98 R15=87

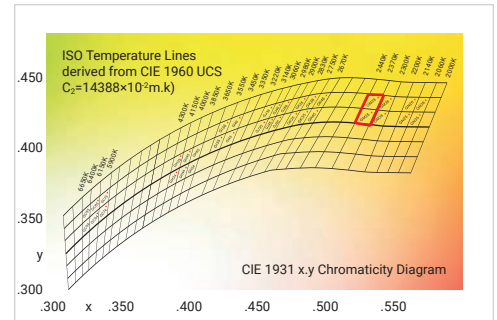
### Photo Parameters

**Luminous Flux: 368.2 lm**  
 Luminous Efficacy: 76.7 lm/W  
 Radiant Flux: 1489.1 mW  
 Iv: 0.0 mcd

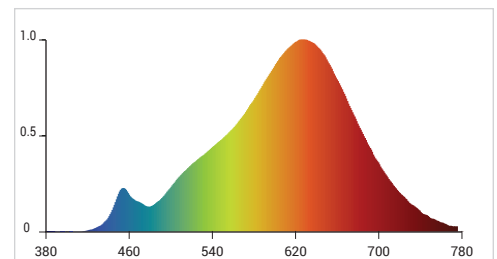
C.I.E. 1931 Chromaticity Diagram



Binning: GM25-26 (2370-2440K)



Spectral Ratio: R=60.5%, G=34%, B=5.5%



# B3528-24V-60-8mm-4.8W-2700K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4525, y=0.4114, u=0.2574, v=0.3510, duv=0.0010$   
 Correlated Color Temperature: 2813K  
 Dominant Wave.: 583.3nm  
 Purity: 59.3%  
 Flux RGB Ratio: R=25.3%, G=73.3%, B=1.4%  
 Peak Wave: 626.6nm  
 Half Width: 161.5nm

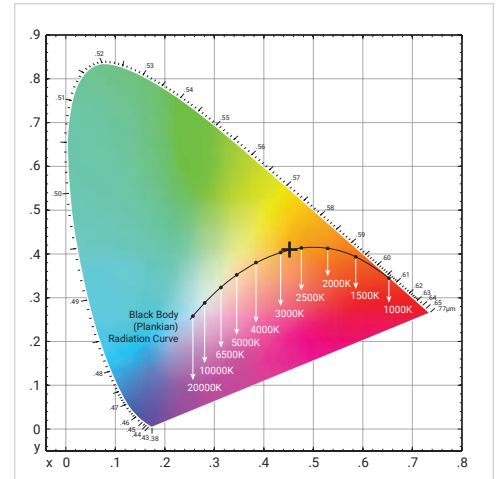
### Rendering Index: Ra=92.6

R1 = 92 R2 = 95 R3 = 95 R4 = 93 R5 = 92 R6 = 94 R7 = 94 R8 = 85  
 R9 = 65 R10=87 R11=93 R12=78 R13=93 R14=97 R15=90

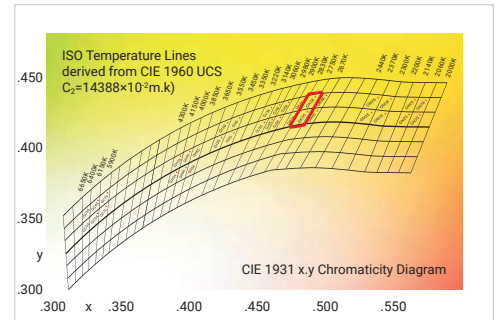
### Photo Parameters

**Luminous Flux: 369.6 lm**  
 Luminous Efficacy: 77.0 lm/W  
 Radiant Flux: 1182.7 mW  
 Iv: 0.0 mcd

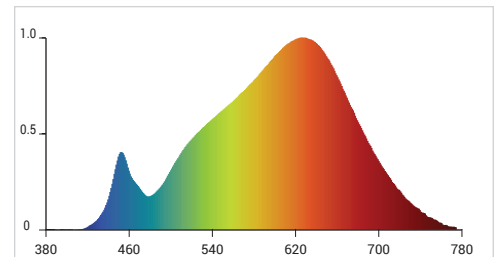
C.I.E. 1931 Chromaticity Diagram



Binning: GK35-36 (2750-2830K)



Spectral Ratio: R=54.4%, G=37.3%, B=8.3%%



# B3528-24V-60-8mm-4.8W-3000K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.4261, y=0.4004, u=0.2452, v=0.3455, duv=0.0001$   
 Correlated Color Temperature: 3067K  
 Dominant Wave.: 582.1nm  
 Purity: 48.1%  
 Flux RGB Ratio: R=23.1%, G=75.1%, B=1.8%  
 Peak Wave: 626.6nm  
 Half Width: 171.3nm

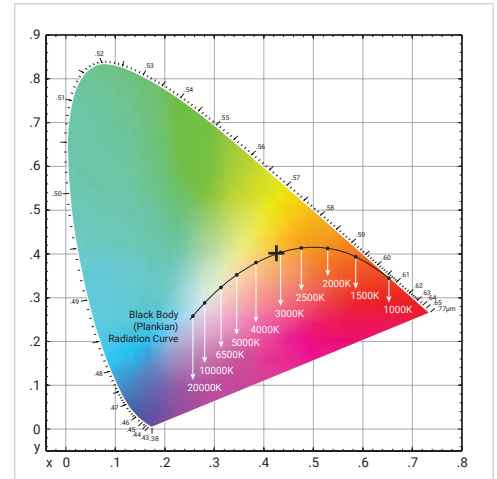
### Rendering Index: Ra=92.6

R1 = 92 R2 = 95 R3 = 96 R4 = 93 R5 = 92 R6 = 92 R7 = 94 R8 = 85  
 R9 = 64 R10=87 R11=93 R12=76 R13=93 R14=97 R15=90

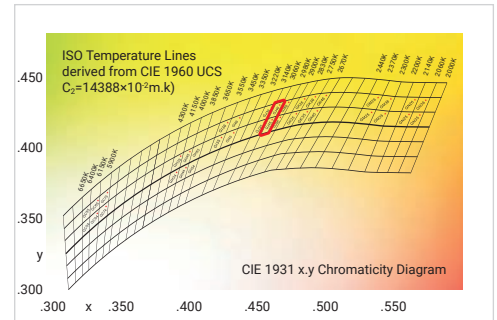
### Photo Parameters

**Luminous Flux: 378.4 lm**  
 Luminous Efficacy: 78.8 lm/W  
 Radiant Flux: 1165.14 mW  
 Iv: 0.0 mcd

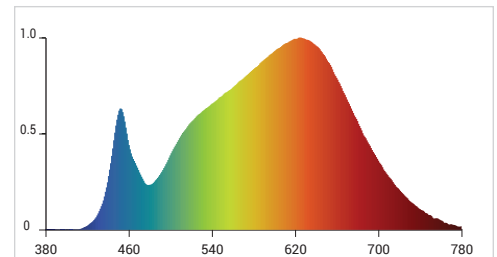
C.I.E. 1931 Chromaticity Diagram



Binning: GJ45-46 (3060-3140K)



Spectral Ratio: R=49.1%, G=39.6%, B=11.3%



# B3528-24V-60-8mm-4.8W-3500K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.3984, y=0.3918, u=0.2308, v=0.3405, duv=0.0021$   
 Correlated Color Temperature: 3633K  
 Dominant Wave.: 579.4nm  
 Purity: 37.2%  
 Flux RGB Ratio: R=19.6%, G=78.1%, B=2.3%  
 Peak Wave: 600.6nm  
 Half Width: 150.1nm

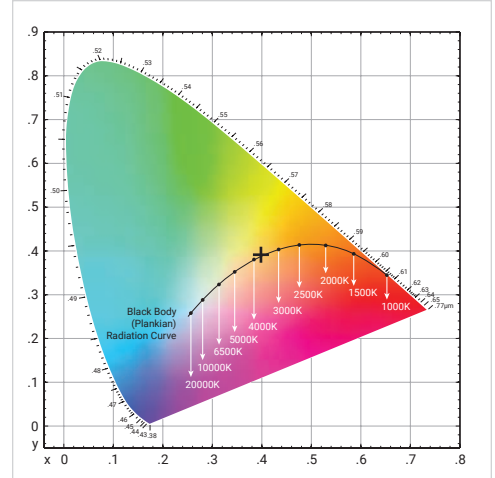
### Rendering Index: Ra= 93.2

R1 = 95 R2 = 94 R3 = 93 R4 = 95 R5 = 94 R6 = 91 R7 = 97 R8 = 97  
 R9 = 87 R10=87 R11=96 R12=73 R13=96 R14=95 R15=97

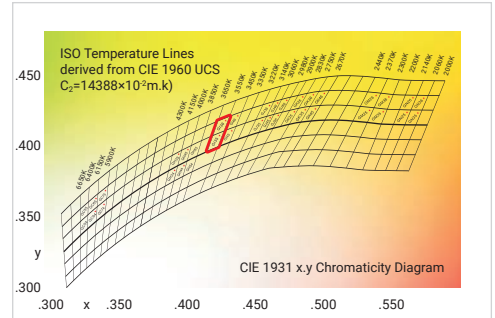
### Photo Parameters

**Luminous Flux: 390.9 lm**  
 Luminous Efficacy: 81.4 lm/W  
 Radiant Flux: 1070.5 mW  
 Iv: 0.0 mcd

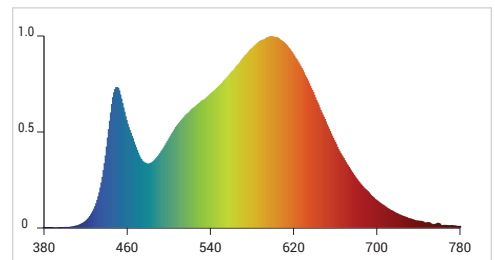
C.I.E. 1931 Chromaticity Diagram



Binning: GI35-36 (3550-3650K)



Spectral Ratio: R=36.3%, G=47.4%, B=16.3%



# B3528-24V-60-8mm-4.8W-4200K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.3782, y=0.3777, u=0.2232, v=0.3344, duv=0.0011$   
 Correlated Color Temperature: 4205K  
 Dominant Wave.: 578.2nm  
 Purity: 26.9%  
 Flux RGB Ratio: R=19.5%, G=77.8%, B=2.7%  
 Peak Wave: 453.7nm  
 Half Width: 27.9nm

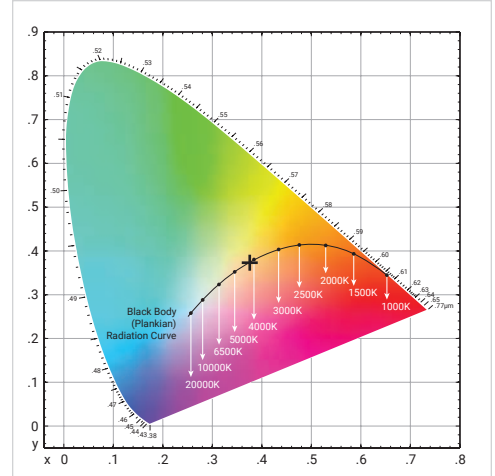
### Rendering Index: Ra=94.4

R1 = 95   R2 = 96   R3 = 94   R4 = 94   R5 = 93   R6 = 92   R7 = 98   R8 = 94  
 R9 = 84   R10=87   R11=93   R12=69   R13=95   R14=96   R15=95

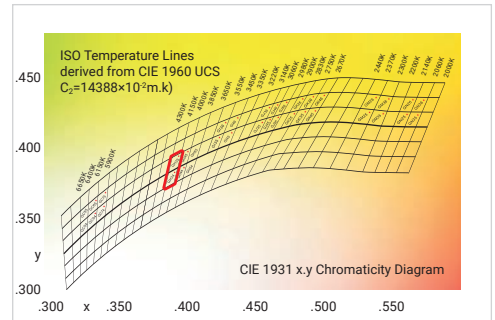
### Photo Parameters

**Luminous Flux: 409.7 lm**  
 Luminous Efficacy: 85.4 lm/W  
 Radiant Flux: 1312.6 mW  
 Iv: 0.0 mcd

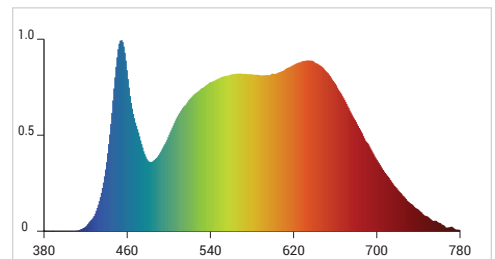
C.I.E. 1931 Chromaticity Diagram



Binning: GH34-35 (4150-4300K)



Spectral Ratio: R=42.9%, G=40.5%, B=16.6%



# B3528-24V-60-8mm-4.8W-6200K-IP22/IP68

## Test Data for 1 Meter LED Strip Length



### Chroma Parameters

Chromaticity Coordinates:  $x=0.3150, y=0.3313, u=0.1985, v=0.3133, duv=0.0032$   
 Correlated Color Temperature: 6369K  
 Dominant Wave.: 490.3nm  
 Purity: 6.3%  
 Flux RGB Ratio: R=15.0%, G=80.5%, B=4.5%  
 Peak Wave: 452.7nm  
 Half Width: 26.5nm

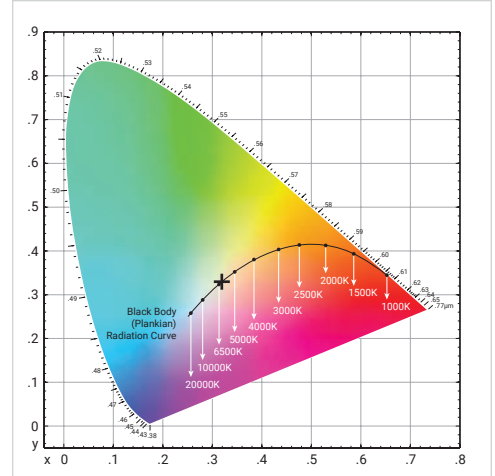
### Rendering Index: Ra=93.2

R1 = 94   R2 = 97   R3 = 95   R4 = 91   R5 = 91   R6 = 91   R7 = 97   R8 = 93  
 R9 = 81   R10=89   R11=91   R12=66   R13=96   R14=98   R15=94

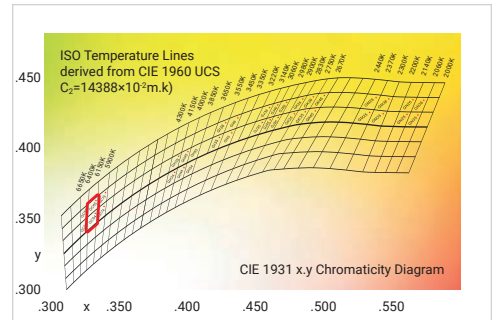
### Photo Parameters

**Luminous Flux:** 412.1 lm  
 Luminous Efficacy: 85.9 lm/W  
 Radiant Flux: 1510.9 mW  
 Iv: 0.0 mcd

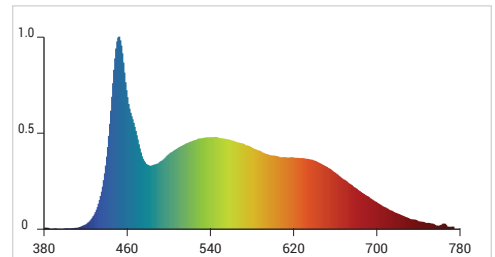
C.I.E. 1931 Chromaticity Diagram



Binning: GC64-65 (6150-6400K)



Spectral Ratio: R=31.1%, G=41.7%, B=27.1%





# NOTES

