

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;"> 2700K</div> <div style="display: flex; align-items: center;"> 3000K</div> <div style="display: flex; align-items: center;"> 3500K</div> <div style="display: flex; align-items: center;"> 4200K</div> <div style="display: flex; align-items: center;"> 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.

B3528	-	60	-	8MM	-	4.8W	-		-		-		-		-		-	
SMD TYPE		LED/M		WIDTH		W/M		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.

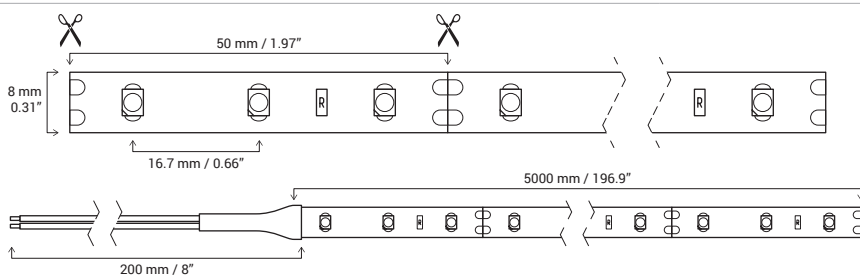
B3528-12V-60-8mm-4.8W-XXK-IPYY

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	1.97 in	50 mm	3 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	12V DC		
Rated Power (Max.)	1.5 W/ft	4.8 W/m	24 W/roll total

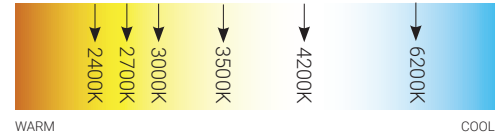


Electrical Input

Rated Power (Max.)

CONSTANT VOLTAGE	12V DC	24 W/roll
------------------	---------------	------------------

Correlated Color Temperature (CCT)



PRODUCT RANGE

Part Number	Code	IP	CCT*	Luminous Flux			Luminous Efficacy	CRI**	R9	duv***
B3528-12V-60-8mm-4.8W-2400K-IP22		IP22	2400K	86.4 lm/ft	283.5 lm/m	1418 lm/roll	67.9 lm/W	92.3	58	0.0011
B3528-12V-60-8mm-4.8W-2400K-IP68		IP68	(Soft White)							
B3528-12V-60-8mm-4.8W-2700K-IP22	LM28096-02	IP22	2700K	112.1 lm/ft	367.8 lm/m	1839 lm/roll	76.6 lm/W	91.3	61	0.0029
B3528-12V-60-8mm-4.8W-2700K-IP68	LM28096-01	IP68	(Soft White)							
B3528-12V-60-8mm-4.8W-3000K-IP22	LM28051	IP22	3000K	113.2 lm/ft	371.4 lm/m	1857 lm/roll	77.4 lm/W	92.8	66	-0.0007
B3528-12V-60-8mm-4.8W-3000K-IP68	LM28053	IP68	(Warm White)							
B3528-12V-60-8mm-4.8W-3500K-IP22	LM28061	IP22	3500K	114.3 lm/ft	375.2 lm/m	1876 lm/roll	80.4 lm/W	92.8	87	0.0021
B3528-12V-60-8mm-4.8W-3500K-IP68	LM28063	IP68	(Bright White)							
B3528-12V-60-8mm-4.8W-4200K-IP22	LM28071	IP22	4200K	115.4 lm/ft	378.5 lm/m	1893 lm/roll	81.2 lm/W	93.3	82	0.0009
B3528-12V-60-8mm-4.8W-4200K-IP68	LM28073	IP68	(Neutral White)							
B3528-12V-60-8mm-4.8W-6200K-IP22	LM28081	IP22	6200K	119.2 lm/ft	390.9 lm/m	1955 lm/roll	83.4 lm/W	86.8	27	0.0039
B3528-12V-60-8mm-4.8W-6200K-IP68	LM28083	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

Copyright Lumentruss, All Rights Reserved
Lumentruss reserves the right to make changes to this product
without advance notice, and any such change shall be effective immediately

B3528-12V-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

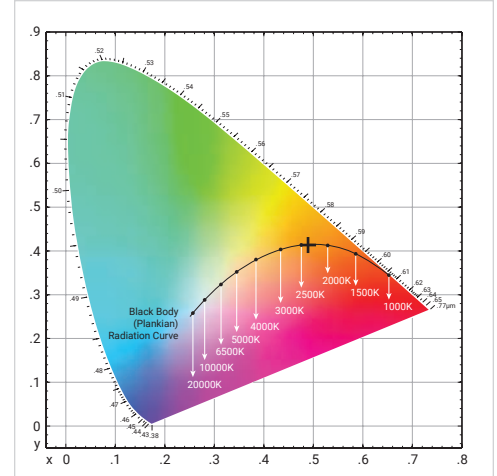
Rendering Index: Ra=92.3

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

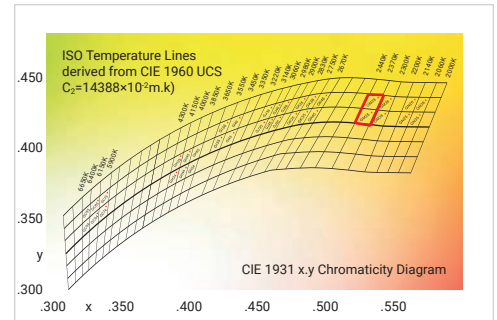
Photo Parameters

Luminous Flux: 283.5 lm
 Luminous Efficacy: 67.9 lm/W
 Radiant Flux: 1489.1 mW
 Iv: 0.0 mcd

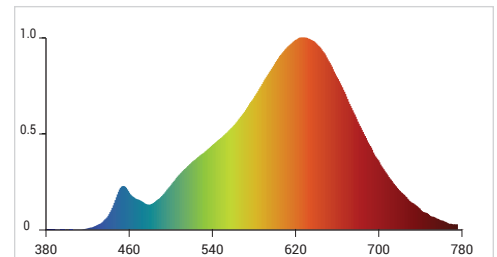
C.I.E. 1931 Chromaticity Diagram



Binning: GM25-26 (2370-2440K)



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



B3528-12V-60-8mm-4.8W-2700K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.4555, y=0.4173, u=0.2567, v=0.3528, duv=0.0029$
 Correlated Color Temperature: 2815K
 Dominant Wave.: 582.7nm
 Purity: 62.0%
 Flux RGB Ratio: R=25.1%, G=73.6%, B=1.3%
 Peak Wave: 628.5nm
 Half Width: 162.9nm

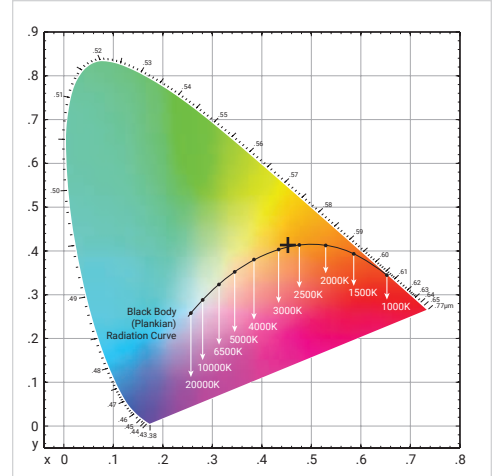
Rendering Index: Ra=91.3

R1 = 92 R2 = 94 R3 = 95 R4 = 92 R5 = 90 R6 = 91 R7 = 95 R8 = 85
 R9 = 61 R10=85 R11=92 R12=75 R13=92 R14=97 R15=89

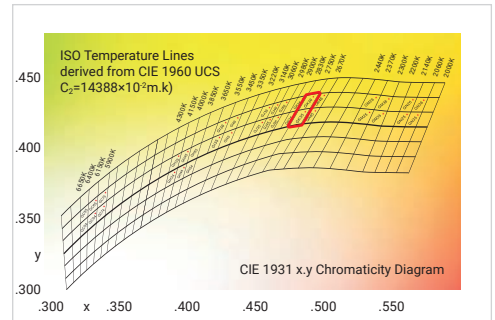
Photo Parameters

Luminous Flux: 367.8 lm
 Luminous Efficacy: 76.6 lm/W
 Radiant Flux: 1299.2 mW
 Iv: 0.0 mcd

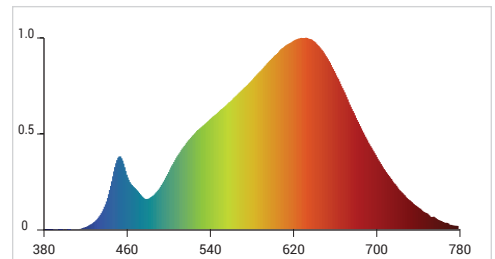
C.I.E. 1931 Chromaticity Diagram



Binning: GK35-36 (2750-2830K)



Spectral Ratio: R=54.4%, G=38.0%, B=7.6%



B3528-12V-60-8mm-4.8W-3000K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.4221, y=0.3967, u=0.2442, v=0.3441, duv=-0.0007$
 Correlated Color Temperature: 3061K
 Dominant Wave.: 582.3nm
 Purity: 45.8%
 Flux RGB Ratio: R=23.0%, G=75.1%, B=1.9%
 Peak Wave: 624.6nm
 Half Width: 174.3nm

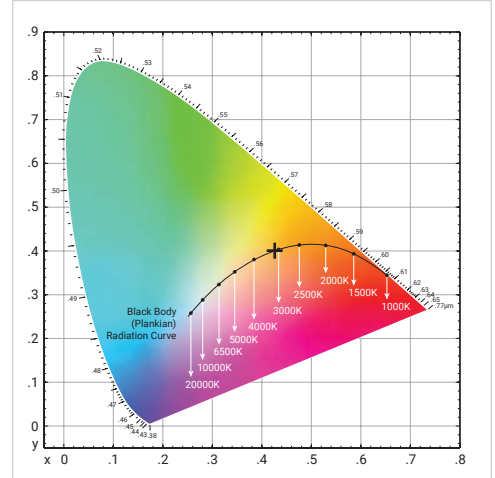
Rendering Index: Ra=92.8

R1 = 94 R2 = 96 R3 = 96 R4 = 92 R5 = 92 R6 = 93 R7 = 94 R8 = 86
 R9 = 66 R10=88 R11=93 R12=77 R13=94 R14=97 R15=91

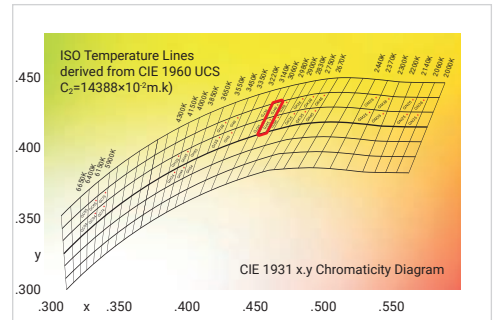
Photo Parameters

Luminous Flux: 371.4 lm
 Luminous Efficacy: 77.4 lm/W
 Radiant Flux: 1583.7 mW
 Iv: 0.0 mcd

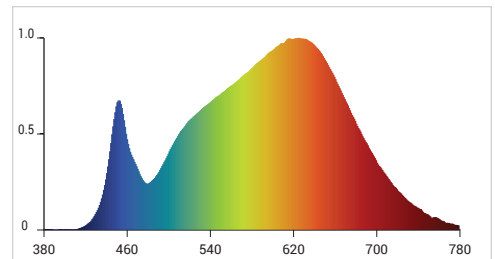
C.I.E. 1931 Chromaticity Diagram



Binning: GJ45-46 (3060-3140K)



Spectral Ratio: R=48.8%, G=39.4%, B=11.8%



B3528-12V-60-8mm-4.8W-3500K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.3985, y=0.3920, u=0.2308, v=0.3405, duv=0.0021$
 Correlated Color Temperature: 3621K
 Dominant Wave.: 579.4nm
 Purity: 37.3%
 Flux RGB Ratio: R=19.6%, G=78.2%, B=2.2%
 Peak Wave: 600.6nm
 Half Width: 150.5nm

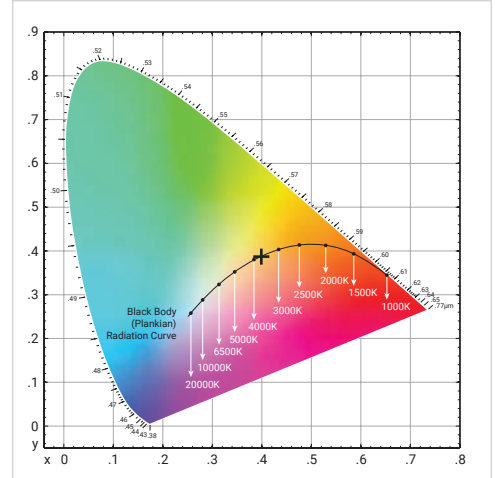
Rendering Index: Ra=92.8

R1 = 95 R2 = 95 R3 = 93 R4 = 95 R5 = 94 R6 = 91 R7 = 96 R8 = 96
 R9 = 87 R10=88 R11=96 R12=75 R13=96 R14=95 R15=97

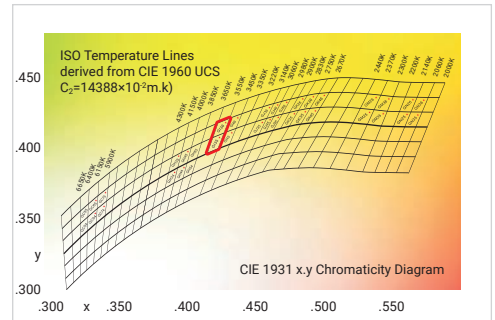
Photo Parameters

Luminous Flux: 375.2 lm
 Luminous Efficacy: 80.4 lm/W
 Radiant Flux: 1387.3 mW
 Iv: 0.0 mcd

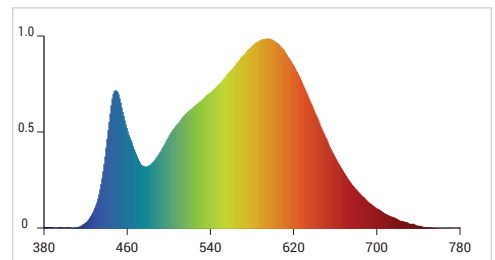
C.I.E. 1931 Chromaticity Diagram



Binning: G135-36 (3550-3650K)



Spectral Ratio: R=36.1%, G=47.8%, B=16.1%



B3528-12V-60-8mm-4.8W-4200K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.3784, y=0.3773, u=0.2235, v=0.3343, duv=0.0009$
 Correlated Color Temperature: 4213K
 Dominant Wave.: 578.4nm
 Purity: 26.8%
 Flux RGB Ratio: R=19.4%, G=78.0%, B=2.6%
 Peak Wave: 451.8nm
 Half Width: 24.7nm

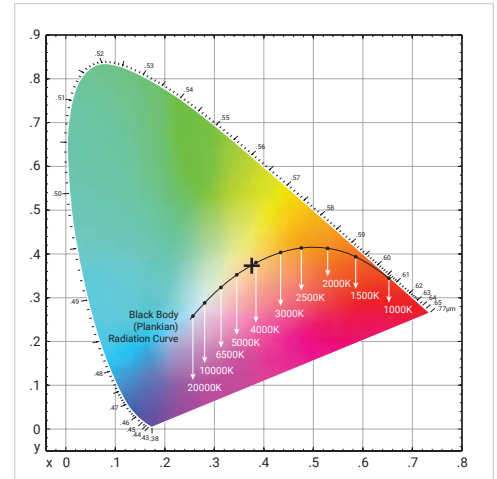
Rendering Index: Ra=93.3

R1 = 94 R2 = 94 R3 = 92 R4 = 94 R5 = 92 R6 = 90 R7 = 97 R8 = 94
 R9 = 82 R10=84 R11=93 R12=68 R13=94 R14=95 R15=94

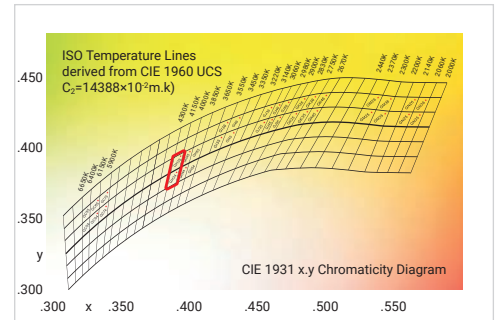
Photo Parameters

Luminous Flux: 378.5 lm
 Luminous Efficacy: 81.2 lm/W
 Radiant Flux: 1381.1 mW
 Iv: 0.0 mcd

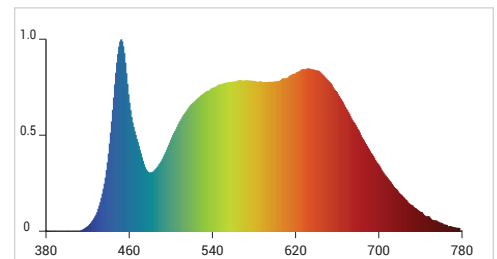
C.I.E. 1931 Chromaticity Diagram



Binning: GH34-35 (4150-4300K)



Spectral Ratio: R=43.0%, G=40.5%, B=16.5%



B3528-12V-60-8mm-4.8W-6200K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.3210, y=0.3384, u=0.2001, v=0.3163, duv=0.0039$
 Correlated Color Temperature: 6030K
 Dominant Wave.: 497.1nm
 Purity: 3.9%
 Flux RGB Ratio: R=14.6%, G=80.7%, B=4.7%
 Peak Wave: 455.7nm
 Half Width: 30.6nm

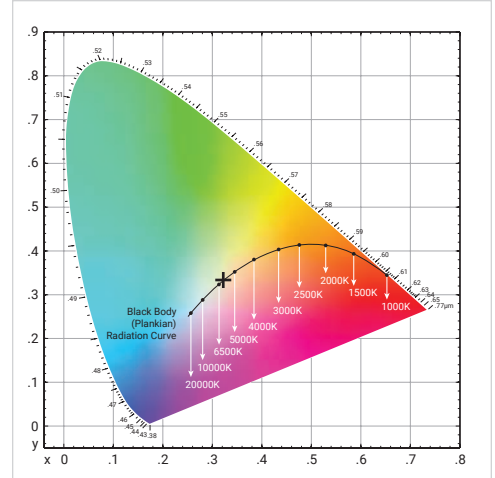
Rendering Index: Ra=86.8

R1 = 87 R2 = 97 R3 = 94 R4 = 81 R5 = 86 R6 = 92 R7 = 86 R8 = 72
 R9 = 27 R10=90 R11=82 R12=64 R13=91 R14=97 R15=82

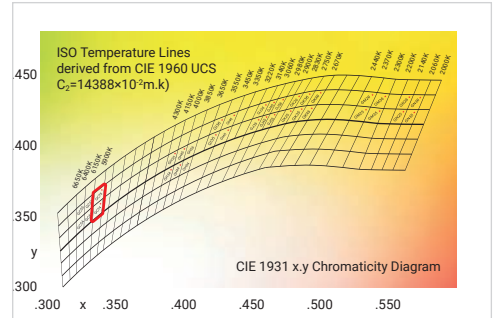
Photo Parameters

Luminous Flux: 390.9 lm
 Luminous Efficacy: 83.4 lm/W
 Radiant Flux: 870.8 mW
 Iv: 0.0 mcd

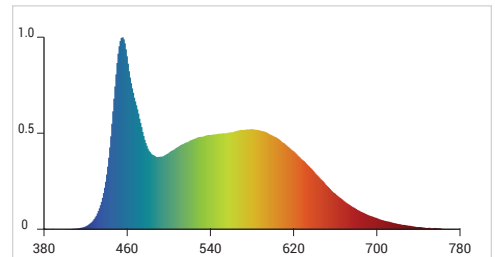
C.I.E. 1931 Chromaticity Diagram



Binning: GC74-75 (5900-6150K)



Spectral Ratio: R=24.3%, G=46.6%, B=29.1%



NOTES

