

B3528-24V-180-8MM-14.5W-XXK-IPYY

LED Engines



FEATURES

- Lumen output: 24V = 308 lm/ft
- Single row, SMD 3528
- 54.9 LED/ft / 180 LED/m
- Width: 5/16 in / 8mm
- Length: 16.4ft / 5m
- 24V
- 4.4 W/ft / 14.5 W/m



24V LED ENGINE - IP22	QUANTITY	24V LED ENGINE - IP68	QUANTITY
B3528-24V-180-8mm-14.5W-2400K-IP22		B3528-24V-180-8mm-14.5W-2400K-IP68	
B3528-24V-180-8mm-14.5W-2700K-IP22		B3528-24V-180-8mm-14.5W-2700K-IP68	
B3528-24V-180-8mm-14.5W-3000K-IP22		B3528-24V-180-8mm-14.5W-3000K-IP68	
B3528-24V-180-8mm-14.5W-3500K-IP22		B3528-24V-180-8mm-14.5W-3500K-IP68	
B3528-24V-180-8mm-14.5W-4200K-IP22		B3528-24V-180-8mm-14.5W-4200K-IP68	
B3528-24V-180-8mm-14.5W-5300K-IP22		B3528-24V-180-8mm-14.5W-5300K-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	24V - 24 volt	180 - 180 LED/m	8mm (5/16 in.)	14.5 W/m (4.4 W/ft)	<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="display: flex; align-items: center;"> 2400K</div> <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;"> 5300K</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	24V	180	8MM	14.5W					
SMD TYPE	INPUT VOLTAGE	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.

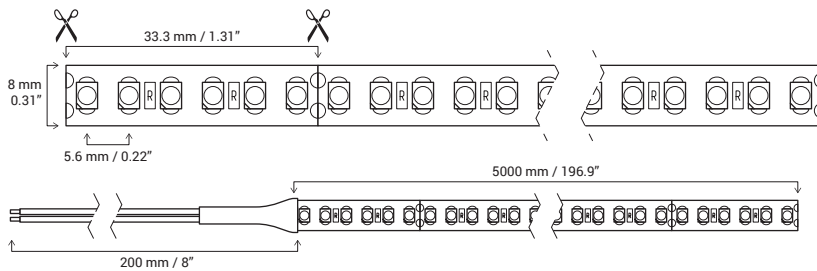
B3528-24V-180-8mm-14.5W-XXK-IPYY

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	54.9 LED/ft	180 LED/m	900 LED/roll total
Can be cut at every	1.31 in	33.3 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		
Rated Power (Max.)	4.4 W/ft	14.5 W/m	73 W/roll total



Electrical Input

Rated Power (Max.)

CONSTANT VOLTAGE	24V DC	73 W/roll
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Correlated Color Temperature (CCT)



PRODUCT RANGE

Part Number	Code	IP	CCT*	Luminous Flux			Luminous Efficacy	CRI**	R9	duv***
B3528-24V-180-8mm-14.5W-2400K-IP22	LM41271-30	IP22	2400K	279.7 lm/ft	917.9 lm/m	4590 lm/roll	70.8 lm/W	90	54	0.0004
B3528-24V-180-8mm-14.5W-2400K-IP68	LM41271-90	IP68	(Soft White)							
B3528-24V-180-8mm-14.5W-2700K-IP22	LM41271-35	IP22	2700K	288.5 lm/ft	946.7 lm/m	4733 lm/roll	77.0 lm/W	92.5	66	0.0005
B3528-24V-180-8mm-14.5W-2700K-IP68	LM41271-95	IP68	(Soft White)							
B3528-24V-180-8mm-14.5W-3000K-IP22	LM41272-35	IP22	3000K	296.9 lm/ft	974.2 lm/m	4871 lm/roll	80.2 lm/W	92.3	69	0.0002
B3528-24V-180-8mm-14.5W-3000K-IP68	LM41272-94	IP68	(Warm White)							
B3528-24V-180-8mm-14.5W-3500K-IP22	LM41272-36	IP22	3500K	299.5 lm/ft	982.4 lm/m	4912 lm/roll	80.4 lm/W	95	88	0.0002
B3528-24V-180-8mm-14.5W-3500K-IP68	LM41272-95	IP68	(Bright White)							
B3528-24V-180-8mm-14.5W-4200K-IP22	LM41274-36	IP22	4200K	308.9 lm/ft	1013.5 lm/m	5067 lm/roll	80.5 lm/W	94	83	0.0001
B3528-24V-180-8mm-14.5W-4200K-IP68	LM41274-95	IP68	(Neutral White)							
B3528-24V-180-8mm-14.5W-5300K-IP22	LM41274-25	IP22	5300K	325.7 lm/ft	1068.6 lm/m	5343 lm/roll	80.5 lm/W	93.8	72	0.0014
B3528-24V-180-8mm-14.5W-5300K-IP68	LM41274-26	IP68	(Daylight)							
B3528-24V-180-8mm-14.5W-6200K-IP22	LM41274-30	IP22	6200K	355.1 lm/ft	1165.1 lm/m	5825 lm/roll	81.1 lm/W	93.3	77	0.0015
B3528-24V-180-8mm-14.5W-6200K-IP68		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

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B3528-24V-180-8mm-14.5W-2400K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.4887, y=0.4161, u=0.2787, v=0.3559, duv=0.0004$
 Correlated Color Temperature: 2381K
 Dominant Wave.: 585.9nm
 Purity: 71.6%
 Flux RGB Ratio: R=29.1%, G=69.7%, B=1.1%
 Peak Wave: 625.5nm
 Half Width: 130.3nm

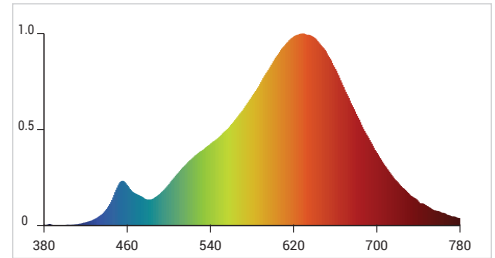
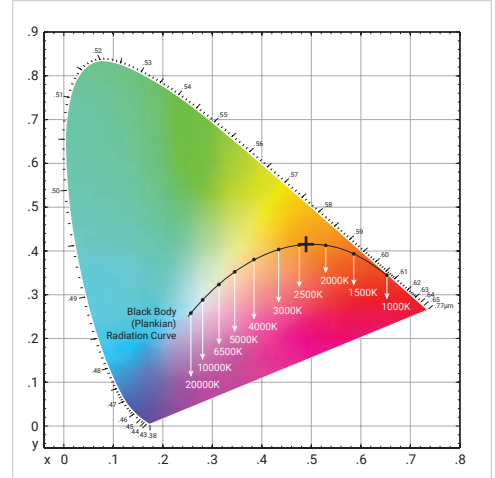
Rendering Index: Ra=90.0

R1 = 89 R2 = 94 R3 = 98 R4 = 94 R5 = 93 R6 = 91 R7 = 85 R8 = 74
 R9 = 54 R10=88 R11=95 R12=83 R13=89 R14=97 R15=84

Photo Parameters

Luminous Flux: 917.9 lm
 Luminous Efficacy: 70.8 lm/W
 Radiant Flux: 3370.2 mW
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



B3528-24V-180-8mm-14.5W-2700K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.4514, y=0.4099, u=0.2573, v=0.3505, duv=0.0005$
 Correlated Color Temperature: 2818K
 Dominant Wave.: 583.5nm
 Purity: 58.8%
 Flux RGB Ratio: R=25.3%, G=73.2%, B=1.5%
 Peak Wave: 628.5nm
 Half Width: 162.2nm

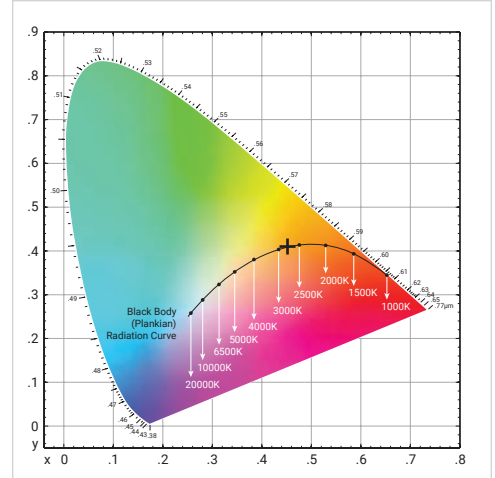
Rendering Index: Ra=92.5

R1 = 93 R2 = 95 R3 = 96 R4 = 93 R5 = 92 R6 = 93 R7 = 94 R8 = 85
 R9 = 66 R10=88 R11=93 R12=79 R13=93 R14=97 R15=90

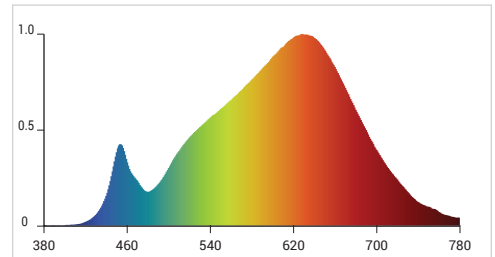
Photo Parameters

Luminous Flux: 946.7 lm
 Luminous Efficacy: 77.0 lm/W
 Radiant Flux: 3366.5 mW
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=25.3%, G=73.2%, B=1.5%



B3528-24V-180-8mm-14.5W-3000K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.4249, y=0.4000, u=0.2445, v=0.3453, duv=0.0002$
 Correlated Color Temperature: 3069K
 Dominant Wave.: 582.0nm
 Purity: 47.6%
 Flux RGB Ratio: R=23.1%, G=75.0%, B=1.9%
 Peak Wave: 626.6nm
 Half Width: 176.8nm

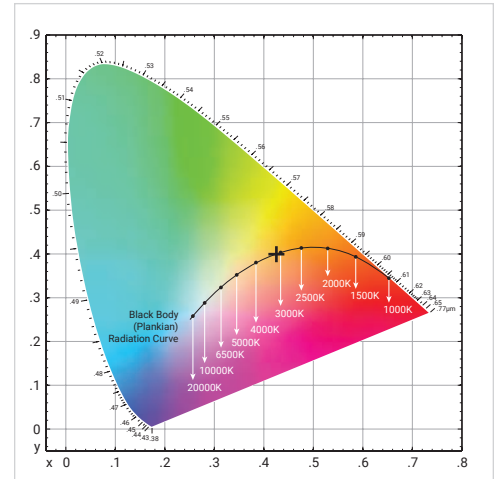
Rendering Index: Ra=92.3

R1 = 93 R2 = 95 R3 = 95 R4 = 95 R5 = 93 R6 = 92 R7 = 93 R8 = 86
 R9 = 69 R10=87 R11=95 R12=75 R13=93 R14=96 R15=90

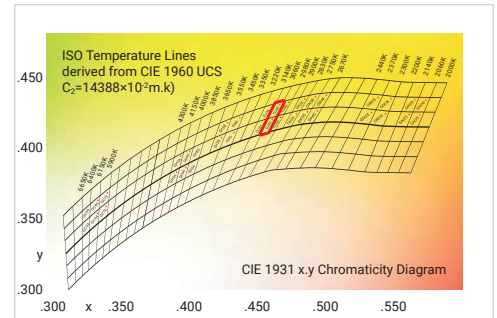
Photo Parameters

Luminous Flux: 974.2 lm
 Luminous Efficacy: 80.2 lm/W
 Radiant Flux: 3028.5 mW
 Iv: 0.0 mcd

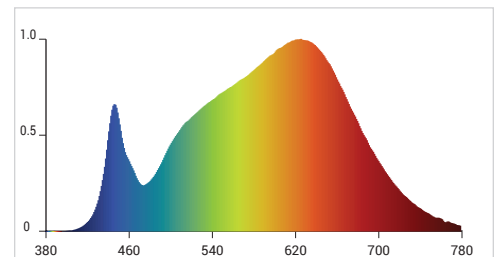
C.I.E. 1931 Chromaticity Diagram



Binning: GJ45-46 (3060-3140K)



Spectral Ratio: R=49.8%, G=38.9%, B=11.4%



B3528-24V-180-8mm-14.5W-3500K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.4039, y=0.3895, u=0.2353, v=0.3404, duv=-0.0002$
 Correlated Color Temperature: 3606K
 Dominant Wave.: 580.9nm
 Purity: 38.1%
 Flux RGB Ratio: R=21.7%, G=76.1%, B=2.1%
 Peak Wave: 637.7nm
 Half Width: 190.9nm

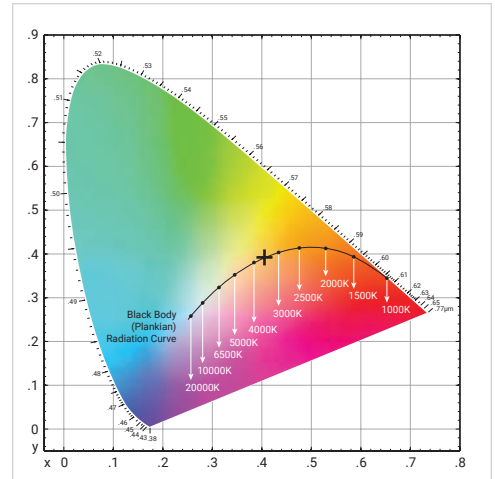
Rendering Index: Ra=95.0

R1 = 97 R2 = 96 R3 = 93 R4 = 96 R5 = 95 R6 = 92 R7 = 97 R8 = 96
 R9 = 88 R10=88 R11=95 R12=74 R13=96 R14=95 R15=97

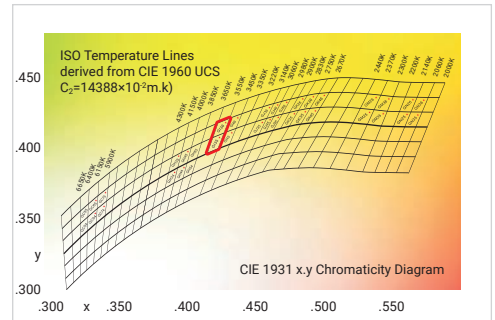
Photo Parameters

Luminous Flux: 982.4 lm
 Luminous Efficacy: 80.4 lm/W
 Radiant Flux: 3252.8 mW
 Iv: 0.0 mcd

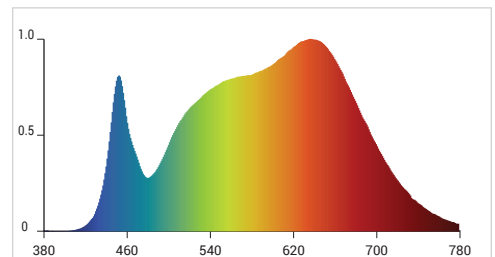
C.I.E. 1931 Chromaticity Diagram



Binning: G135-36 (3550-3650K)



Spectral Ratio: R=48.8%, G=38.1%, B=13.1%



B3528-24V-180-8mm-14.5W-4200K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.3776, y=0.3751, u=0.2239, v=0.3336, duv=0.0001$
 Correlated Color Temperature: 4208K
 Dominant Wave.: 578.8nm
 Purity: 25.9%
 Flux RGB Ratio: R=19.6%, G=77.8%, B=2.6%
 Peak Wave: 452.1nm
 Half Width: 24.7nm

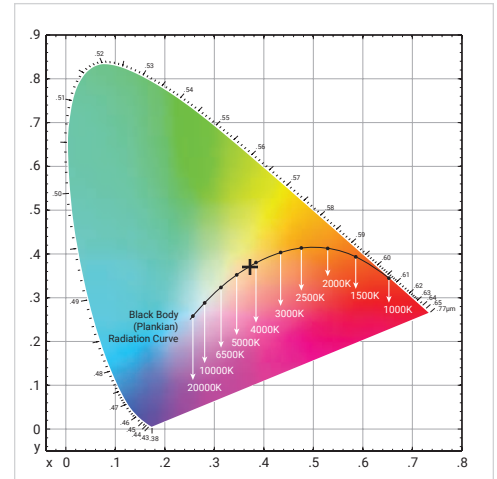
Rendering Index: Ra=94.0

R1 = 95 R2 = 95 R3 = 93 R4 = 94 R5 = 93 R6 = 90 R7 = 98 R8 = 94
 R9 = 83 R10=87 R11=93 R12=69 R13=95 R14=96 R15=95

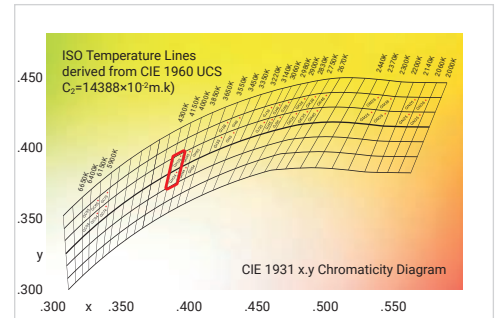
Photo Parameters

Luminous Flux: 1013.5 lm
 Luminous Efficacy: 80.5 lm/W
 Radiant Flux: 3290.3 mW
 Iv: 0.0 mcd

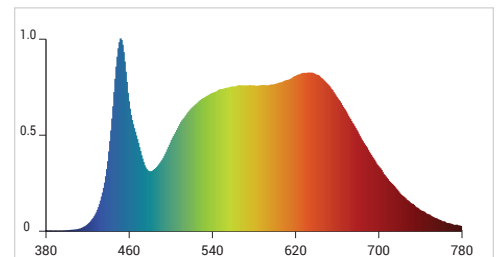
C.I.E. 1931 Chromaticity Diagram



Binning: GH34-35 (4150-4300K)



Spectral Ratio: R=42.9%, G=40.3%, B=16.8%



B3528-24V-180-8mm-14.5W-5300K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.3402, y=0.3505, u=0.2085, v=0.3223, duv=0.0014$
 Correlated Color Temperature: 5190K
 Dominant Wave.: 567.7nm
 Purity: 7.2%
 Flux RGB Ratio: R=16.9%, G=79.1%, B=4.0%
 Peak Wave: 453.7nm
 Half Width: 30.9nm

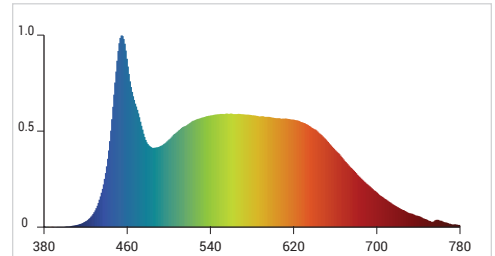
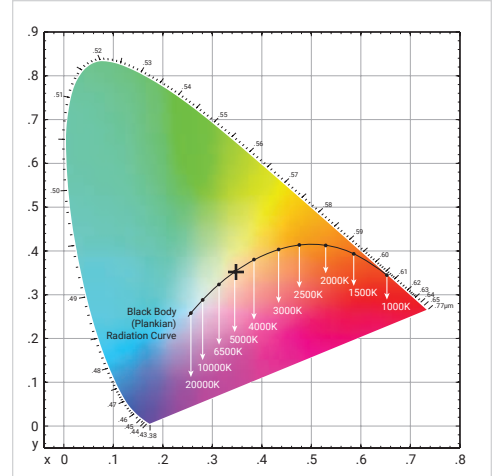
Rendering Index: Ra=93.8

R1 = 95 R2 = 98 R3 = 98 R4 = 92 R5 = 93 R6 = 94 R7 = 94 R8 = 88
 R9 = 72 R10=94 R11=92 R12=72 R13=96 R14=99 R15=93

Photo Parameters

Luminous Flux: 1068.6 lm
 Luminous Efficacy: 80.5 lm/W
 Radiant Flux: 4992.7 mW
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



B3528-24V-180-8mm-14.5W-6200K-IP22/IP68

Test Data for 1 Meter LED Strip Length



Chroma Parameters

Chromaticity Coordinates: $x=0.3131, y=0.3261, u=0.1992, v=0.3112, duv=0.0015$
 Correlated Color Temperature: 6506K
 Dominant Wave.: 487.0nm
 Purity: 7.4%
 Flux RGB Ratio: R=15.1%, G=79.9%, B=5.0%
 Peak Wave: 454.8nm
 Half Width: 27.4nm

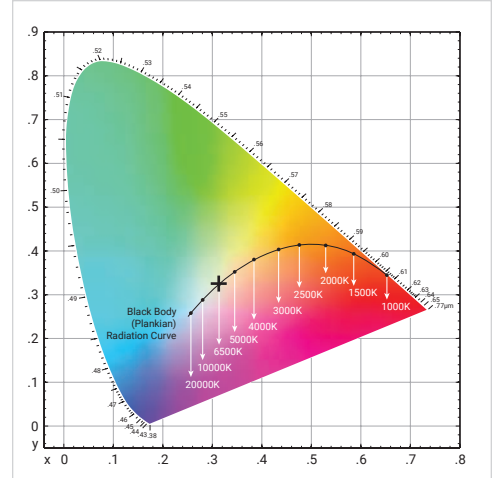
Rendering Index: Ra=93.3

R1 = 94 R2 = 99 R3 = 97 R4 = 90 R5 = 92 R6 = 92 R7 = 93 R8 = 89
 R9 = 77 R10=94 R11=91 R12=66 R13=97 R14=99 R15=92

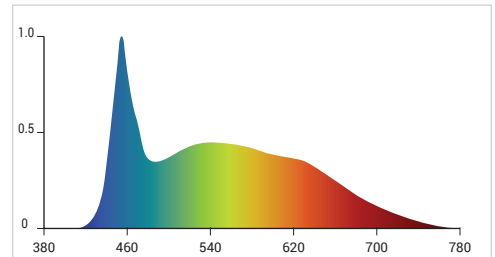
Photo Parameters

Luminous Flux: 1165.1 lm/m
 Luminous Efficacy: 81.1 lm/W
 Radiant Flux: 3919.5 mW
 Iv: 0.0 mcd

C.I.E. 1931 Chromaticity Diagram



Spectral Ratio: R=29%, G=42.2%, B=28.9%



NOTES

