

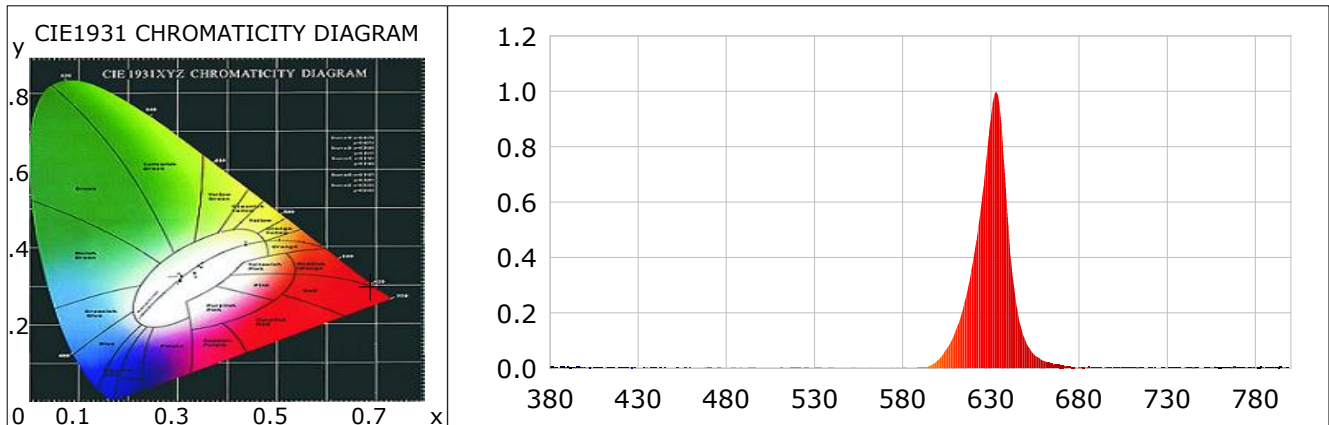
## Lightsource Test Report

### Product Information

Product Category: 24V 12W RGBW Downlight    Product Type: BNL-SP10RGBW-D  
 Product Spec: 1414    Product Number: 1745

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.6911$   $y=0.3007$      $u(u')=0.5289$   $v=0.3452$   $v'=0.5178$   
 CCT:  $T_c=1000K$  ( $duv=-0.08134$ )    Color Ratio:  $R=0.971$   $G=0.027$   $B=0.002$   
 Peak Wavelength: 633nm    Half Bandwidth: 17.3nm  
 Dominant Wavelength: 624.7nm    Color Purity: 0.975  
 Color Render Index:  $R_a=31.7$ ,  $CRI=34.8$   
 R1 =18    R2 =84    R3 =37    R4 =0    R5 =24    R6 =89    R7 =2    R8 =0  
 R9 =0    R10=83    R11=22    R12=58    R13=42    R14=64    R15=0



### Photometric Parameters

Luminous Flux: 139.44 lm    Efficiency: 46.86 lm/W    Radiant Power: 0.755 W

### Electric Parameters

Forward Voltage (VF): 24.00V    Forward Current (IF): 124mA    Power: 2.976W  
 Reverse Voltage (VR): 0.0V    Reverse Current (IR): 0.0000uA

### Test Information

Scan Range: 380nm~800nm:1nm    Photometric Method: sphere-spectroradiometer  
 Stabilization Time: 0 ms    Photometric Condition: Sphere diameter: 1.50m, 4π  
 Max of Signal: 42157 (5581)    CCD Integration Time: 667.17 ms

## Lightsource Test Report

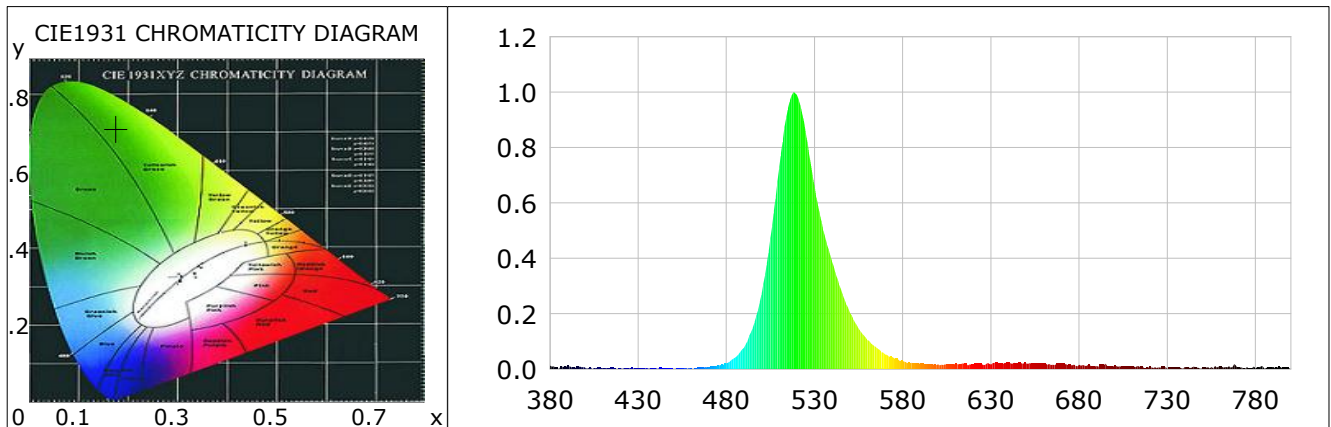
### Product Information

Product Category: 24V 12W RGBW Downlight Product Type: BNL-SP10RGBW-D  
Product Spec: 1414

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.1750$   $y=0.7153$   $u(u')=0.0623$   $v=0.3821$   $v'=0.5731$   
 CCT:  $T_c=7786K$  ( $duv=0.15494$ ) Color Ratio:  $R=0.013$   $G=0.967$   $B=0.019$   
 Peak Wavelength: 518nm Half Bandwidth: 29.6nm  
 Dominant Wavelength: 527.2nm Color Purity: 0.788  
 Color Render Index:  $R_a=0.2$ ,  $CRI=2.5$   

$R_1=0$	$R_2=0$	$R_3=0$	$R_4=0$	$R_5=1$	$R_6=0$	$R_7=0$	$R_8=0$
$R_9=0$	$R_{10}=0$	$R_{11}=0$	$R_{12}=0$	$R_{13}=0$	$R_{14}=36$	$R_{15}=0$	



### Photometric Parameters

Luminous Flux: 392.84 lm Efficiency: 132.00 lm/W Radiant Power: 0.863 W

### Electric Parameters

Forward Voltage (VF): 24.00V Forward Current (IF): 124mA Power: 2.976W  
 Reverse Voltage (VR): 0.0V Reverse Current (IR): 0.0000uA

### Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer  
 Stabilization Time: 0 ms Photometric Condition: Sphere diameter: 1.50m, 4π  
 Max of Signal: 42922 (5599) CCD Integration Time: 792.21 ms

## Lightsource Test Report

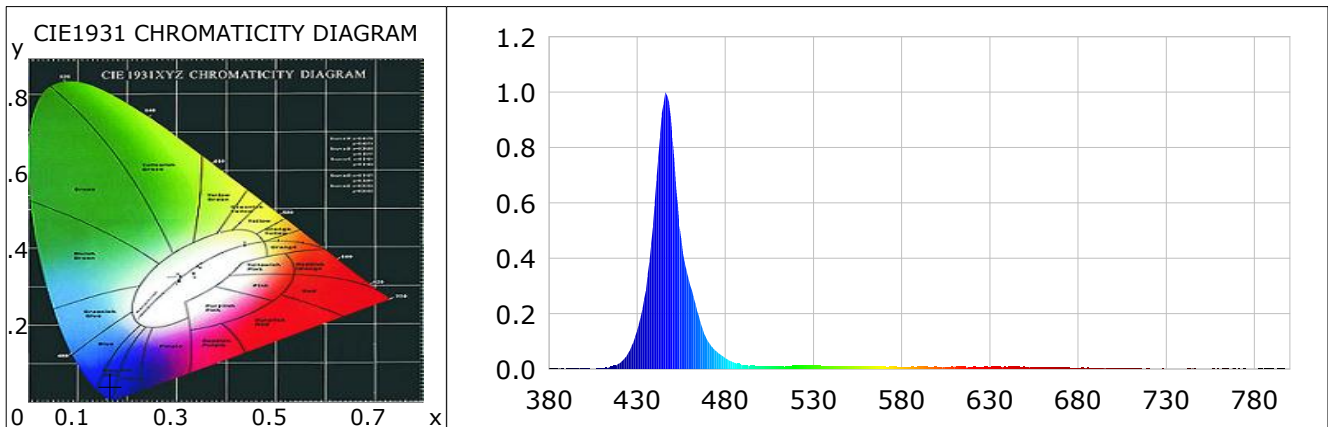
### Product Information

Product Category: 24V 12W RGBW Downlight Product Type: BNL-SP10RGBW-D  
Product Spec: 1414

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.1655$   $y=0.0388$   $u(u')=0.2113$   $v=0.0742$   $v'=0.1114$   
 CCT:  $T_c=100000K$  ( $duv=-0.19414$ ) Color Ratio:  $R=0.080$   $G=0.416$   $B=0.504$   
 Peak Wavelength: 446nm Half Bandwidth: 15.7nm  
 Dominant Wavelength: 458.2nm Color Purity: 0.939  
 Color Render Index:  $R_a=19.9$ ,  $CRI=18.8$   

R1 =81	R2 =0	R3 =0	R4 =0	R5 =79	R6 =0	R7 =0	R8 =0
R9 =45	R10=0	R11=0	R12=0	R13=23	R14=0	R15=54	



### Photometric Parameters

Luminous Flux: 90.35 lm Efficiency: 30.86 lm/W Radiant Power: 1.764 W

### Electric Parameters

Forward Voltage (VF): 24.00V Forward Current (IF): 122mA Power: 2.928W  
 Reverse Voltage (VR): 0.0V Reverse Current (IR): 0.0000uA

### Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer  
 Stabilization Time: 0 ms Photometric Condition: Sphere diameter: 1.50m, 4π  
 Max of Signal: 44142 (5194) CCD Integration Time: 291.01 ms

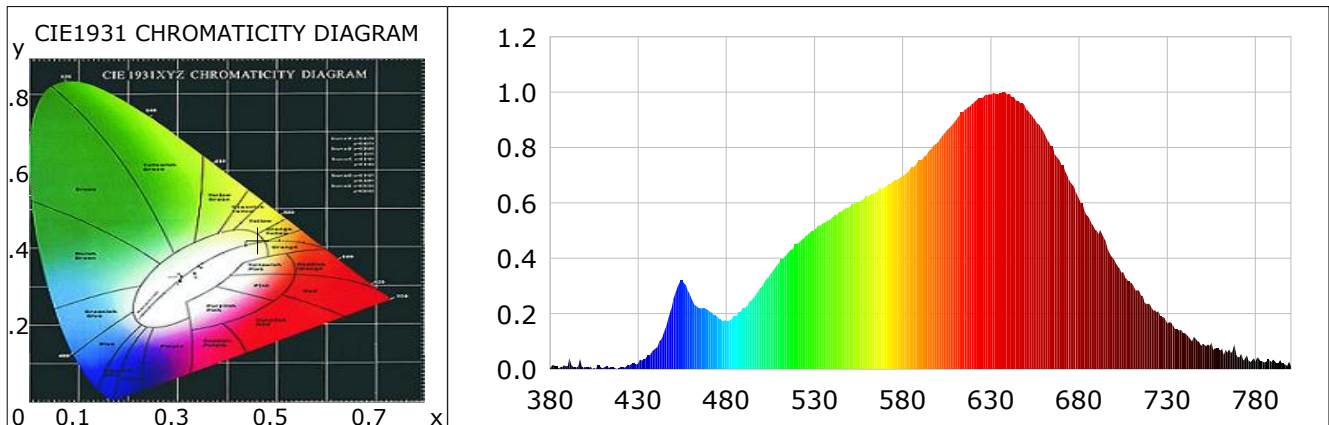
## Lightsource Test Report

### Product Information

Product Category: 24V 12W RGBW Downlight Product Type: BNL-SP10RGBW-D  
Product Spec: 1414

### CIE Colorimetric Parameters

Chromaticity coordinates:  $x=0.4624$   $y=0.4233$   $u(u')=0.2585$   $v=0.3550$   $v'=0.5325$   
 CCT:  $T_c=2762K$  ( $duv=0.00441$ ) Color Ratio:  $R=0.260$   $G=0.717$   $B=0.023$   
 Peak Wavelength: 638nm Half Bandwidth: 160.5nm  
 Dominant Wavelength: 582.6nm Color Purity: 0.659  
 Color Render Index:  $R_a=94.9$ ,  $CRI=92.3$   
 $R1=96$   $R2=96$   $R3=95$   $R4=96$   $R5=94$   $R6=95$   $R7=97$   $R8=91$   
 $R9=76$   $R10=89$   $R11=97$   $R12=79$   $R13=95$   $R14=96$   $R15=92$



### Photometric Parameters

Luminous Flux: 315.52 lm Efficiency: 103.52 lm/W Radiant Power: 1.147 W

### Electric Parameters

Forward Voltage (VF): 24.00V Forward Current (IF): 127mA Power: 3.048W  
 Reverse Voltage (VR): 0.0V Reverse Current (IR): 0.0000uA

### Test Information

Scan Range: 380nm~800nm:1nm Photometric Method: sphere-spectroradiometer  
 Stabilization Time: 0 ms Photometric Condition: Sphere diameter: 1.50m, 4π  
 Max of Signal: 42664 (6107) CCD Integration Time: 3310.21 ms