

12"  
5W

Lm 602 12-30

### LED Test Report

**Product Mark**

Product Type :

Temperature : 'C

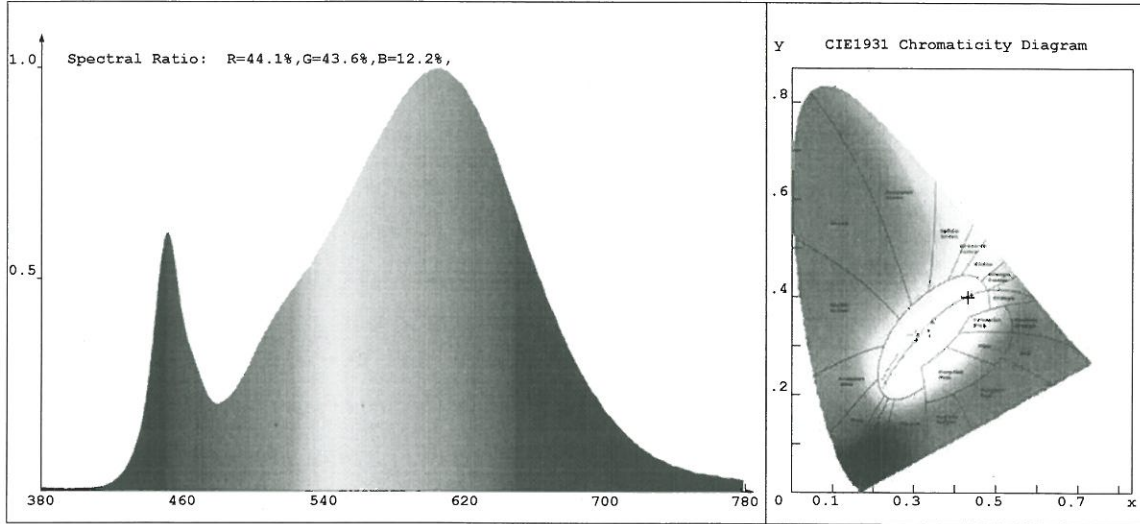
Operator :

Remark:CCSR LAB

Manufacturer :CC LED LIGHTING

Humidity :65%

Test Date :2016-01-20 11:41:44



**Chroma Parameters**

Chro.Coor.:x=0.4316 y=0.3999 u=0.2490 v=0.3459 duv=-0.0010

CCT: 3056K Dominant Wave.:582.9nm Purity:49.6%

Flux RGB Ratio:R=22.6%,G=75.7%,B=1.7% Peak Wave:602.8nm Half Width:135.9nm

**Rendering Index:Ra= 83.0**

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =81 | R2 =91 | R3 =97 | R4 =80 | R5 =81 | R6 =87 | R7 =84 | R8 =63 |
| R9 =16 | R10=78 | R11=78 | R12=68 | R13=84 | R14=98 | R15=76 |        |

**Photo Parameters**

Flux:~~2264.32lm~~ *645.05lm* Effi.:~~136.4lm/W~~ *128.61* Radiant:7435.5mW Iv:0.0mcd

**Ele. Parameters**

Voltage:U=~~23.00V~~ *14.28V* Current:I=~~0.7000A~~ *350mA*  
Power:P=~~16.00W~~ *5W* Power Factor:PF=1.000

**Lamp Parameters**

Voltage:U=3.530V Current:I=0.0000A Power:P=0.00W  
Power Factor:PF=0.000 Efficacy:0.0lm/W

**Instrument state**

Instrument:Hoop HP8000S Integral Time: 38.944ms VPeak: 13464  
VDark: 1127 Product ID: 201310440



gzu

Ln 60220-30

# LED Test Report

### Product Mark

Product Type :

Manufacturer : CC LED LIGHTING

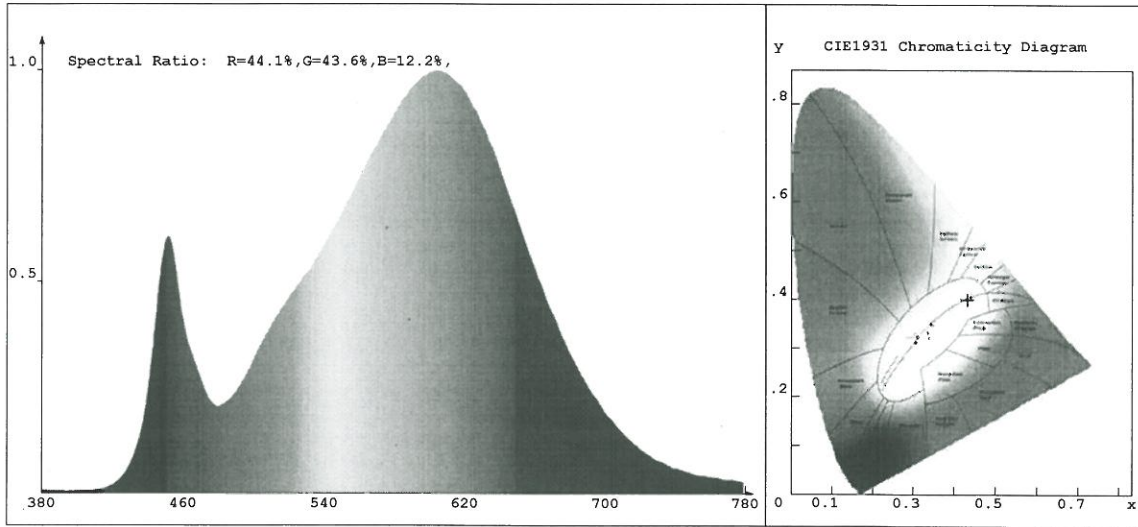
Temperature : 'C

Humidity : 65%

Operator :

Test Date : 2016-01-20 11:41:44

Remark: CCSR LAB



### Chroma Parameters

Chro.Coor.: x=0.4316 y=0.3999 u=0.2490 v=0.3459 duv=-0.0010

CCT: 3056K Dominant Wave.: 582.9nm Purity: 49.6%

Flux RGB Ratio: R=22.6%, G=75.7%, B=1.7% Peak Wave: 602.8nm Half Width: 135.9nm

Rendering Index: Ra = ~~83.0~~ 83.9

R1 = ~~81~~ 82 R2 = 91 R3 = 97 R4 = 80 R5 = ~~81~~ 82 R6 = 87 R7 = 84 R8 = ~~63~~ 62

R9 = ~~16~~ 17 R10 = 78 R11 = 78 R12 = 68 R13 = 84 R14 = ~~98~~ 97 R15 = 76

### Photo Parameters

Flux: ~~2264.32lm~~ 1056.12lm Effi.: ~~136.4lm/W~~ 135.4lm/W Radiant: 7435.5mW Iv: 0.0mcd

### Ele. Parameters

Voltage: U = ~~23.800V~~ 22.285V Current: I = ~~0.7000A~~ 0.350A

Power: P = ~~16.60W~~ 7.8W Power Factor: PF = 1.000

### Lamp Parameters

Voltage: U = 3.530V Current: I = 0.0000A Power: P = 0.00W

Power Factor: PF = 0.000 Efficacy: 0.0lm/W

### Instrument state

Instrument: Hopoo HP8000S Integral Time: 38.944ms VPeak: 13464

VDark: 1127 Product ID: 201310440

GCW

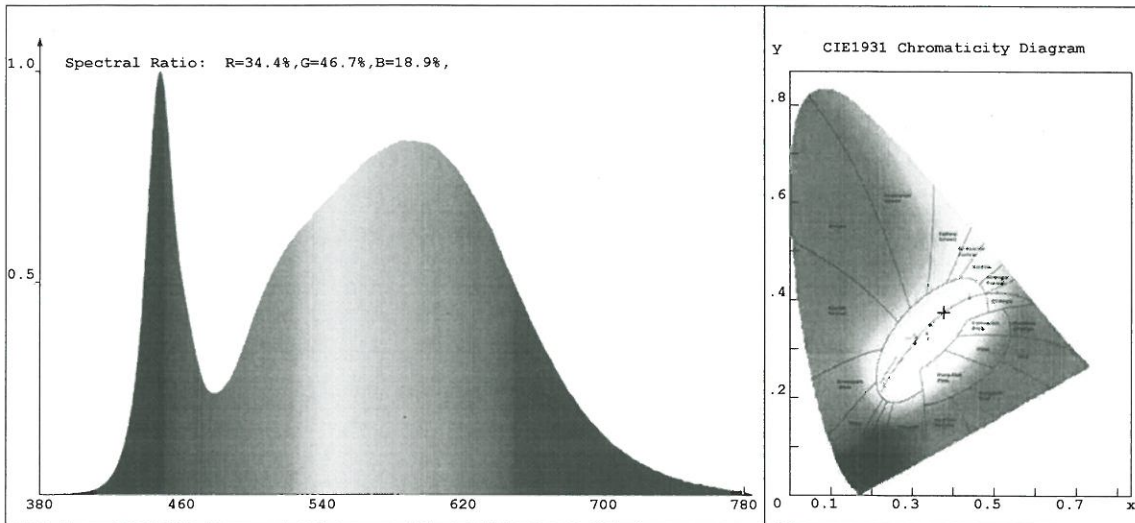
Ln 60220-42

### LED Test Report

**Product Mark**

Product Type :  
Temperature : 'C  
Operator :  
Remark:CCSR LAB

Manufacturer :CC LED LIGHTING  
Humidity :65%  
Test Date :2016-01-20 11:57:01



**Chroma Parameters**

Chro.Coor.:x=0.3773 y=0.3749 u=0.2238 v=0.3335 duv=0.0000  
CCT: 4073K Dominant Wave.:578.8nm Purity:25.8%  
Flux RGB Ratio:R=18.1%,G=79.6%,B=2.3% Peak Wave:447.5nm Half Width:21.7nm

**Rendering Index:Ra= 83.0**

R1 =82<sup>80</sup> R2 =87 R3 =92 R4 =83 R5 =82 R6 =83<sup>82</sup> R7 =88 R8 =70  
R9 =19<sup>20</sup> R10=70 R11=82 R12=62 R13=83 R14=95 R15=77<sup>76</sup>

**Photo Parameters**

Flux:~~2325.95lm~~ <sup>1102.05lm</sup> Effi.:~~140.1lm/w~~ <sup>139.5lm/w</sup> Radiant:~~6623.1mW~~ Iv:0.0mcd

**Ele. Parameters**

Voltage:U=~~23.800V~~ <sup>22.57V</sup> Current:I=~~0.7000A~~ <sup>0.350A</sup>  
Power:P=~~16.60W~~ <sup>7.9W</sup> Power Factor:PF=1.000

**Lamp Parameters**

Voltage:U=3.640V Current:I=0.0000A Power:P=0.00W  
Power Factor:PF=0.000 Efficacy:0.01m/W

**Instrument state**

Instrument:Hopoo HP8000S Integral Time: 38.944ms VPeak: 13944  
VDark: 1175 Product ID: 201310440

10 W

Lm 60224-42

### LED Test Report

**Product Mark**

Product Type :

Manufacturer : CC LED LIGHTING

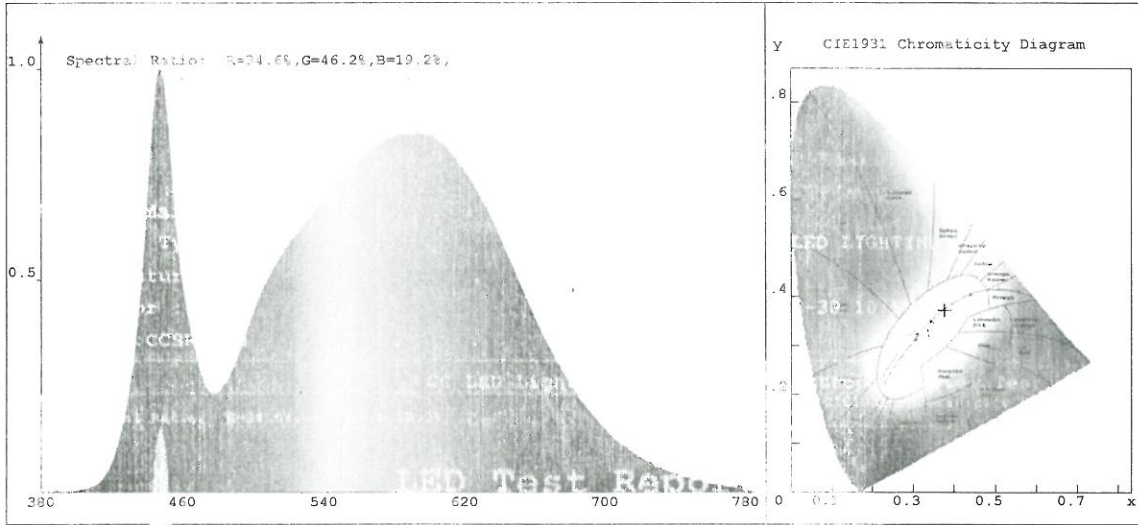
Temperature : °C

Humidity : 65%

Operator :

Test Date : 2015-06-30 10:52:24

Remark: CCSR LAB



**Chroma Parameters**

Chro. Coor.: x=0.3771 y=0.3725 u=0.2246 v=0.3328 duv=0.0010

CCT: 4000K Dominant Wave.: 579.4nm Purity: 25.0%

Flux Ratio: R=18.2%, G=79.5%, B=2.3% Peak Wave: 447.5nm Band Width: 22.4nm

**Rendering Index: Ra= 83.4**

|         |          |          |          |          |          |          |         |
|---------|----------|----------|----------|----------|----------|----------|---------|
| R1 = 85 | R2 = 88  | R3 = 91  | R4 = 91  | R5 = 82  | R6 = 88  | R7 = 87  | R8 = 70 |
| R9 = 72 | R10 = 70 | R11 = 82 | R12 = 82 | R13 = 83 | R14 = 90 | R15 = 78 |         |

**Photo Parameters**

Flux: 1485.64lm      Effi.: 139.4lm/W      Radiant: 4509.7mW      Iv: 0.0mcd

**Ele. Parameters**

Voltage: V=29.200V      Current: I=0.3500A  
Power: P=10.22W      Power Factor: PF=1.000

**Lamp Parameters**

Voltage: V=0.000V      Current: I=0.0000A      Power: P=0.00W  
Power Factor: PF=1.000      Efficiency: 0.0lm/W

**Instrument state**

Instrument: Popoo HP8000S      Integral Time: 51.575ms      VPeak: 14488  
VDark: 1327      Product ID: 201310440

10W

Ln 60224-30

### LED Test Report

**Product Mark**

Product Type :

Temperature : °C

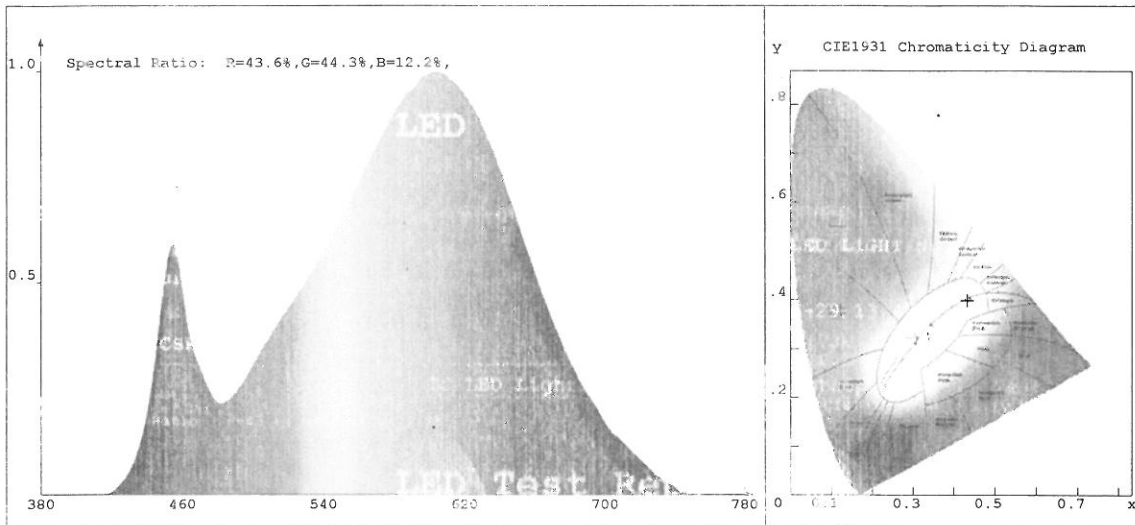
Operator :

Remark:CCSR LAB

Manufacturer :CC LED LIGHTING

Humidity :65%

Test Date :2015-06-29 13:43:39



**Chroma Parameters**

Chro.Coor.:x=0.4331 y=0.3990 u=0.2503 v=0.3459 duv=-0.0015

CCT: 3022K Dominant Wave.:583.3nm Purity:49.8%

Flux RGB Ratio:R=22.8%,G=75.4%,B=1.8% Peak Wave:601.7nm Half Width:134.1nm

**Rendering Index:Ra= 83.2**

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =82 | R2 =92 | R3 =96 | R4 =78 | R5 =80 | R6 =89 | R7 =85 | R8 =64 |
| R9 =16 | R10=80 | R11=76 | R12=78 | R13=85 | R14=93 | R15=77 |        |

**Photo Parameters**

Flux:1273.85lm Effi.:126.1lm/W Radiant:3765.6mW Iv:0.0mcd

**Ele. Parameters**

Voltage:U=28.900V Current:I=0.3500A  
Power:P=10.10W Power Factor:PF=1.000

**Lamp Parameters**

Voltage:U=0.000V Current:I=0.0000A Power:P=0.00W  
Power Factor:PF=1.000 Efficiency:0.0lm/W

**Instrument state**

Instrument:Hopoo HP8000S Integral Time: 64.663ms VPeak: 13480  
VDark: 1130 Product ID: 201310440

20W

Lot 60248-42

### LED Test Report

**Product Mark**

Product Type :

Temperature : °C

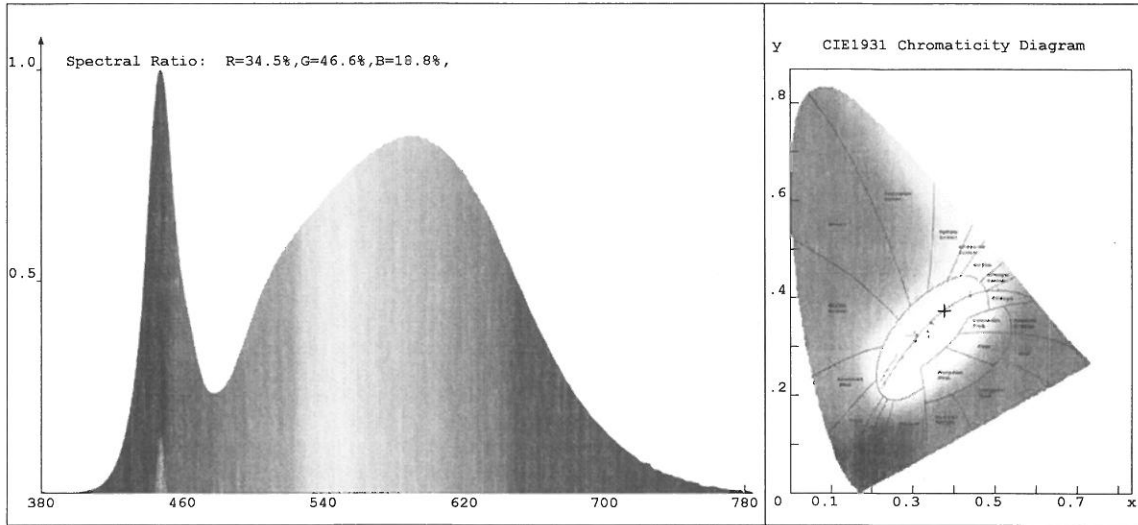
Operator :

Remark:CCSR LAB

Manufacturer :CC LED LIGHTING

Humidity :65%

Test Date :2016-01-20 13:45:46



**Chroma Parameters**

Chro.Coor.:x=0.3769 y=0.3740 u=0.2238 v=0.3332 duv=-0.0002

CCT: 4079K Dominant Wave.:578.9nm Purity:25.4%

Flux RGB Ratio:R=18.1%,G=79.6%,B=2.2% Peak Wave:447.5nm Half Width:21.5nm

**Rendering Index:Ra= 83.8**

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =82 | R2 =88 | R3 =91 | R4 =83 | R5 =82 | R6 =83 | R7 =89 | R8 =71 |
| R9 =21 | R10=70 | R11=82 | R12=63 | R13=83 | R14=95 | R15=78 |        |

**Photo Parameters**

Flux:2894.05lm Effi.:140.4lm/W Radiant:9174.1mW Iv:0.0mcd

**Ele. Parameters**

Voltage:U=29.500V

Current:I=0.7000A

Power:P=20.60W

Power Factor:PF=1.000

**Lamp Parameters**

Voltage:U=3.500V

Current:I=0.0000A

Power:P=0.00W

Power Factor:PF=0.000

Efficacy:0.0lm/W

**Instrument state**

Instrument:Hopoo HP8000S

Integral Time: 29.493ms

VPeak: 14168

VDark: 1355

Product ID: 201310440

20W

Ln 60248-30

### LED Test Report

**Product Mark**

Product Type :

Temperature : 'C

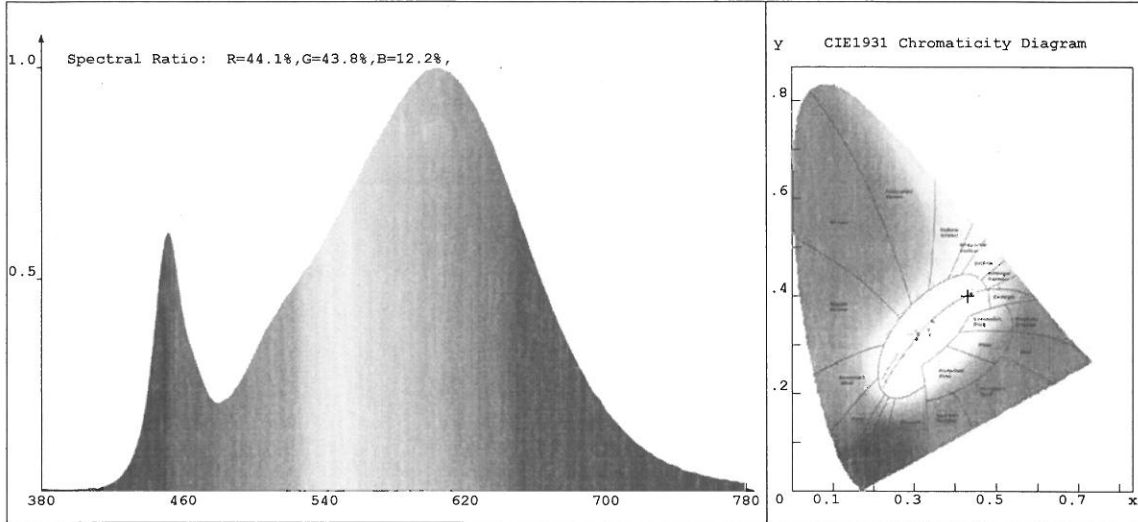
Operator :

Remark:CCSR LAB

Manufacturer :CC LED LIGHTING

Humidity :65%

Test Date :2016-01-20 12:07:11



**Chroma Parameters**

Chro.Coor.:x=0.4312 y=0.4004 u=0.2485 v=0.3460 duv=-0.0007

CCT: 3069K Dominant Wave.:582.8nm Purity:49.6%

Flux RGB Ratio:R=22.5%,G=75.8%,B=1.7% Peak Wave:603.7nm Half Width:137.5nm

**Rendering Index:Ra= 83.6**

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =82 | R2 =91 | R3 =97 | R4 =80 | R5 =81 | R6 =87 | R7 =85 | R8 =64 |
| R9 =17 | R10=78 | R11=78 | R12=68 | R13=84 | R14=98 | R15=77 |        |

**Photo Parameters**

Flux:2742.66lm Effi.:133.1lm/W Radiant:9112.7mW Iv:0.0mcd

**Ele. Parameters**

Voltage:U=29.500V

Current:I=0.7000A

Power:P=20.60W

Power Factor:PF=1.000

**Lamp Parameters**

Voltage:U=3.630V

Current:I=0.0000A

Power:P=0.00W

Power Factor:PF=0.000

Efficacy:0.0lm/W

**Instrument state**

Instrument:Hopoo HP8000S

Integral Time: 37.701ms

VPeak: 15528

VDark: 1173

Product ID: 201310440



16W

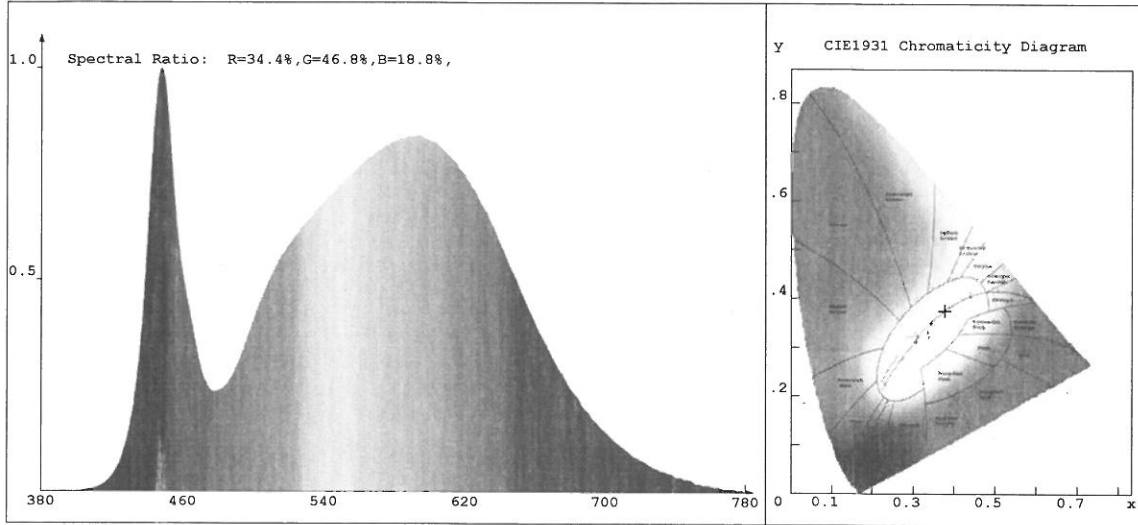
LM60236-42

### LED Test Report

**Product Mark**

Product Type :  
Temperature : 'C  
Operator :  
Remark:CCSR LAB

Manufacturer :CC LED LIGHTING  
Humidity :65%  
Test Date :2016-01-20 11:54:11



**Chroma Parameters**

Chro.Cooc.:x=0.3778 y=0.3751 u=0.2240 v=0.3337 duv=0.0000  
CCT: 4061K Dominant Wave.:578.8nm Purity:26.0%  
Flux RGB Ratio:R=18.1%,G=79.6%,B=2.3% Peak Wave:447.5nm Half Width:22.0nm

**Rendering Index:Ra= 83.3**

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =82 | R2 =87 | R3 =92 | R4 =83 | R5 =82 | R6 =83 | R7 =88 | R8 =69 |
| R9 =19 | R10=70 | R11=82 | R12=62 | R13=83 | R14=95 | R15=77 |        |

**Photo Parameters**

Flux:2330.86lm      Effi.:140.4lm/W      Radiant:6834.6mW      Iv:0.0mcd

**Ele. Parameters**

Voltage:U=23.800V      Current:I=0.7000A  
Power:P=15.60W      Power Factor:PF=1.000

**Lamp Parameters**

Voltage:U=3.600V      Current:I=0.0000A      Power:P=0.00W  
Power Factor:PF=0.000      Efficacy:0.0lm/W

**Instrument state**

Instrument:Hopoo HP8000S      Integral Time: 38.944ms      VPeak: 14280  
VDark: 1326      Product ID: 201310440

16U

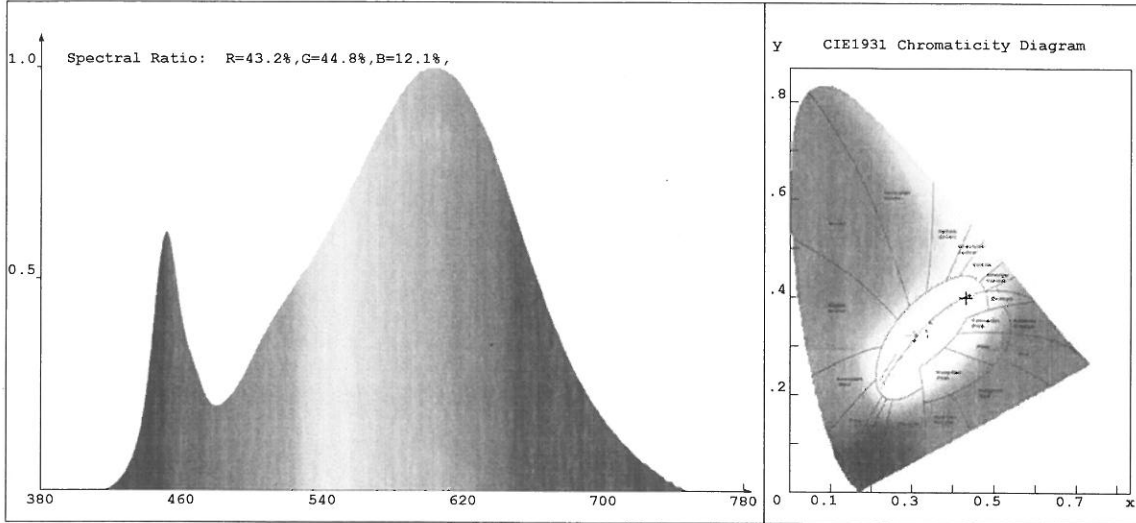
Ln 60248-30

### LED Test Report

**Product Mark**

Product Type :  
Temperature : 'C  
Operator :  
Remark:CCSR LAB

Manufacturer :CC LED LIGHTING  
Humidity :65%  
Test Date :2016-01-20 11:42:50



**Chroma Parameters**

Chromaticity: ~~3054K~~  $x=0.4317$   $y=0.3998$   $u=0.2491$   $v=0.3459$   $duv=-0.0010$   
 CCT: ~~3054K~~ Dominant Wave.:583.0nm Purity:49.6%  
 Flux RGB Ratio:R=22.6%,G=75.8%,B=1.7% Peak Wave:606.7nm Half Width:137.1nm

**Rendering Index:Ra= 83.1**

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| R1 =82 | R2 =91 | R3 =96 | R4 =79 | R5 =80 | R6 =88 | R7 =86 | R8 =64 |
| R9 =15 | R10=78 | R11=77 | R12=68 | R13=84 | R14=98 | R15=76 |        |

**Photo Parameters**

Flux:2277.56lm      Effi.:137.2lm/W      Radiant:7515.4mW      Iv:0.0mcd

**Ele. Parameters**

Voltage:U=23.800V      Current:I=0.7000A  
Power:P=15.60W      Power Factor:PF=1.000

**Lamp Parameters**

Voltage:U=3.550V      Current:I=0.0000A      Power:P=0.00W  
Power Factor:PF=0.000      Efficacy:0.0lm/W

**Instrument state**

Instrument:Hopoo HP8000S      Integral Time: 38.944ms      VPeak: 13800  
VDark: 1323      Product ID: 201310440

26W

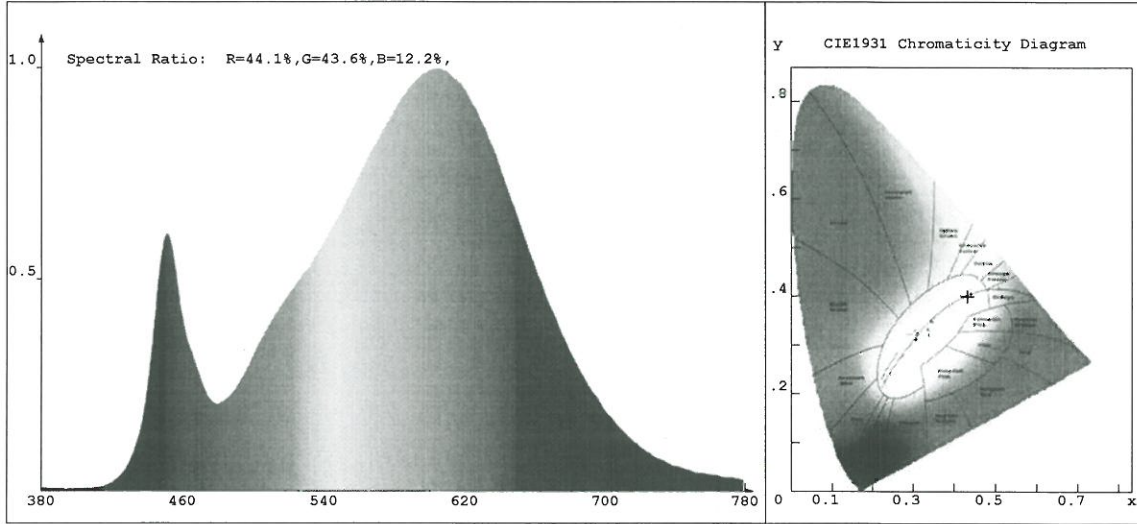
lm60260-30

### LED Test Report

**Product Mark**

Product Type :  
Temperature : 'C  
Operator :  
Remark:CCSR LAB

Manufacturer :CC LED LIGHTING  
Humidity :65%  
Test Date :2016-01-20 11:41:44



**Chroma Parameters**

Chro.Coor.:x=0.4316 y=0.3999 u=0.2490 v=0.3459 duv=-0.0010  
CCT: 3056K Dominant Wave.:582.9nm Purity:49.6%  
Flux RGB Ratio:R=22.6%,G=75.7%,B=1.7% Peak Wave:602.8nm Half Width:135.9nm

Rendering Index:Ra= ~~83.0~~ 84.2

R1 = ~~81~~ 84 R2 =91 R3 =97 R4 =80 R5 = ~~81~~ 82 R6 =87 R7 =84 R8 =63  
R9 = ~~16~~ 21 R10=78 R11=78 R12= ~~68~~ 67 R13=84 R14=98 R15= ~~76~~ 77

**Photo Parameters**

Flux: ~~3264.32lm~~ 3595.32lm Effi.: ~~136.4lm/W~~ 139.8 Radiant:7435.5mW Iv:0.0mcd

**Ele. Parameters**

Voltage:U= ~~23.800V~~ 36.22V Current:I= ~~0.7000A~~ 0.700A  
Power:P= ~~16.60W~~ 25.36W Power Factor:PF=1.000

**Lamp Parameters**

Voltage:U=3.530V Current:I=0.0000A Power:P=0.00W  
Power Factor:PF=0.000 Efficacy:0.0lm/W

**Instrument state**

Instrument:Hopoo HP8000S Integral Time: 38.944ms VPeak: 13464  
VDark: 1127 Product ID: 201310440

26W

Ln 60260-42

### LED Test Report

**Product Mark**

Product Type :

Temperature : 'C

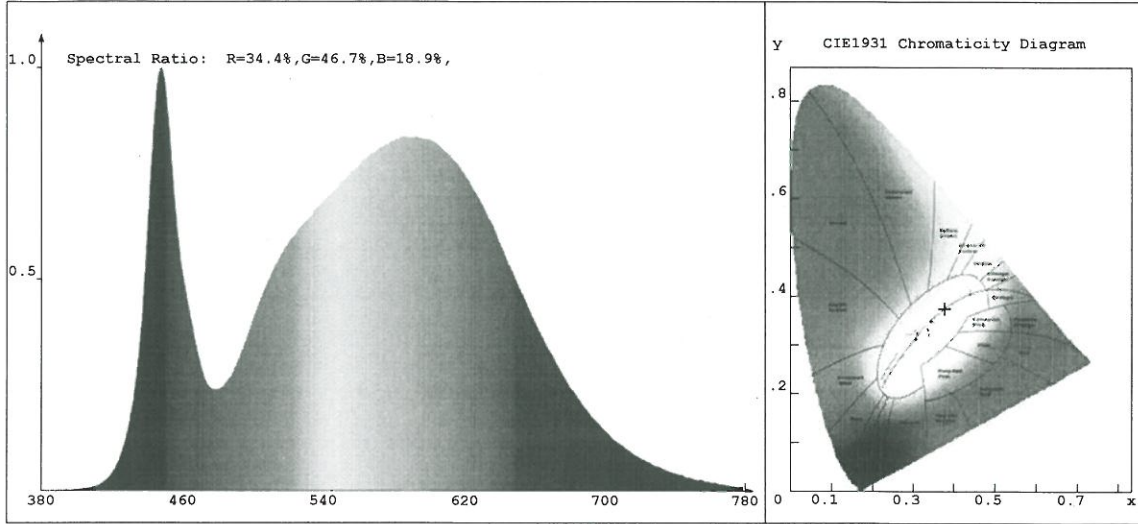
Operator :

Remark:CCSR LAB

Manufacturer :CC LED LIGHTING

Humidity :65%

Test Date :2016-01-20 11:57:01



**Chroma Parameters**

Chro.Coor.:x=0.3773 y=0.3749 u=0.2238 v=0.3335 duv=0.0000

CCT: 4073K Dominant Wave.:578.8nm Purity:25.8%

Flux RGB Ratio:R=18.1%,G=79.6%,B=2.3% Peak Wave:447.5nm Half Width:21.7nm

Rendering Index:Ra= ~~83.0~~ **84.1**

|                              |         |         |         |                              |         |         |                              |
|------------------------------|---------|---------|---------|------------------------------|---------|---------|------------------------------|
| R1 = <del>82</del> <b>85</b> | R2 = 87 | R3 = 92 | R4 = 83 | R5 = <del>82</del> <b>83</b> | R6 = 83 | R7 = 88 | R8 = <del>70</del> <b>72</b> |
| R9 = <del>19</del> <b>21</b> | R10=70  | R11=82  | R12=62  | R13=83                       | R14=95  | R15=77  |                              |

**Photo Parameters.**

Flux: ~~2325.95lm~~ **3612.2lm** Effi.: ~~140.1lm/W~~ **139.9** Radiant:6623.1mW Iv:0.0mcd

**Ele. Parameters**

Voltage:U=~~23.800V~~ **36.88V** Current:I=~~0.7000A~~ **0.700A**  
Power:P=~~16.60W~~ **25.82W** Power Factor:PF=1.000

**Lamp Parameters**

Voltage:U=3.640V Current:I=0.0000A Power:P=0.00W  
Power Factor:PF=0.000 Efficacy:0.0lm/W

**Instrument state**

Instrument:Hopoo HP8000S Integral Time: 38.944ms VPeak: 13944  
VDark: 1175 Product ID: 201310440