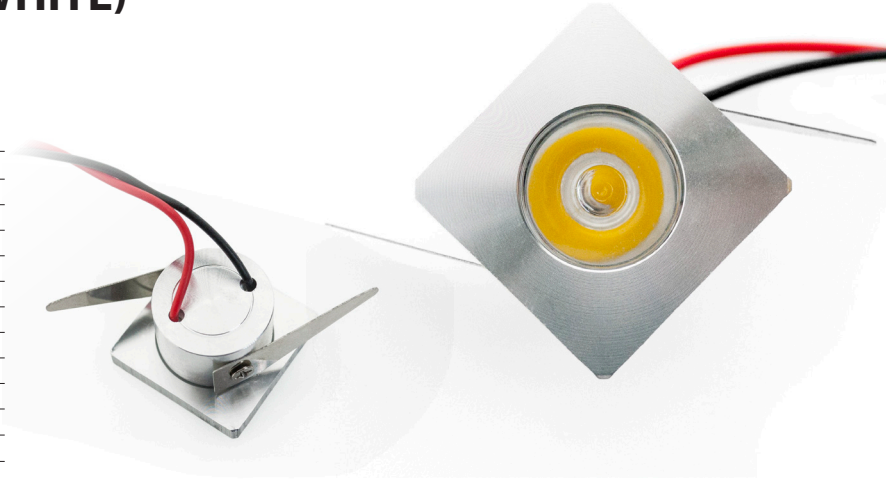




# 1 INCH SMALL SQUARE-FLAT LED RECESSED LIGHT 12V 1W 3000K (WARM WHITE)

## Specifications

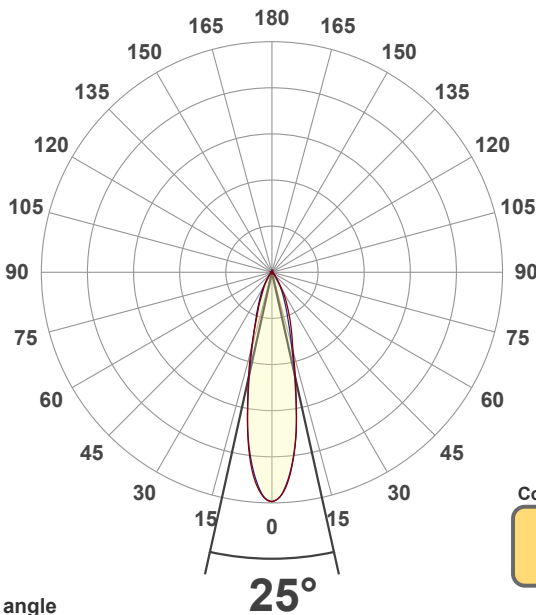
|                               |  |
|-------------------------------|--|
| <b>Input Voltage:</b>         | 12V DC   |
| <b>Wattage:</b>               | 1W   |
| <b>Available Trim Colors:</b> | Silver Grey  |
| <b>Color Temperatures:</b>    | 3000K (Warm White)                                 |
| <b>Material:</b>              | Aluminum   |
| <b>IP Rating:</b>             | IP20 (Indoor)                                      |
| <b>Rendering Index:</b>       | CRI>80   |
| <b>Luminous Flux:</b>         | 80-100 lumens                                      |
| <b>Dimmable:</b>              | Yes  |
| <b>Wire Length:</b>           | 200 mm (7.8 in) 24 AWG                             |
| <b>Dimensions:</b>            | 30.14 mm (1.18 in) Edge x 18.10 mm (0.71 in) Depth |
| <b>Cut Size Diameter:</b>     | Ø 24 mm (0.93 in)                                  |
| <b>Certification:</b>         | CE   |



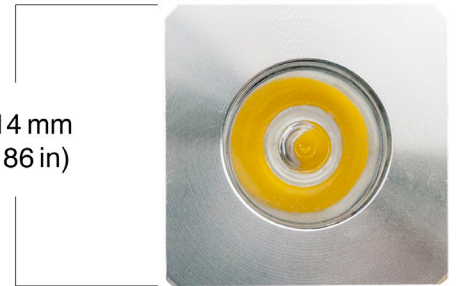
**SKU#: 666561405571**

## Features

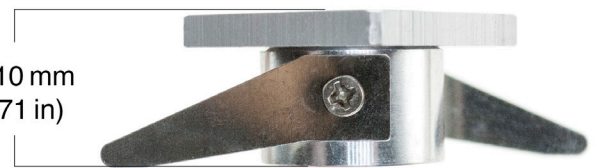
- Widely applicable in residential lighting, office lighting, display case lighting, art lighting, cabinet lighting and much more.
- Dissipates very less heat and is safe to touch.
- Suitable for dry and damp locations.



30.14 mm  
(1.186 in)



18.10 mm  
(0.71 in)



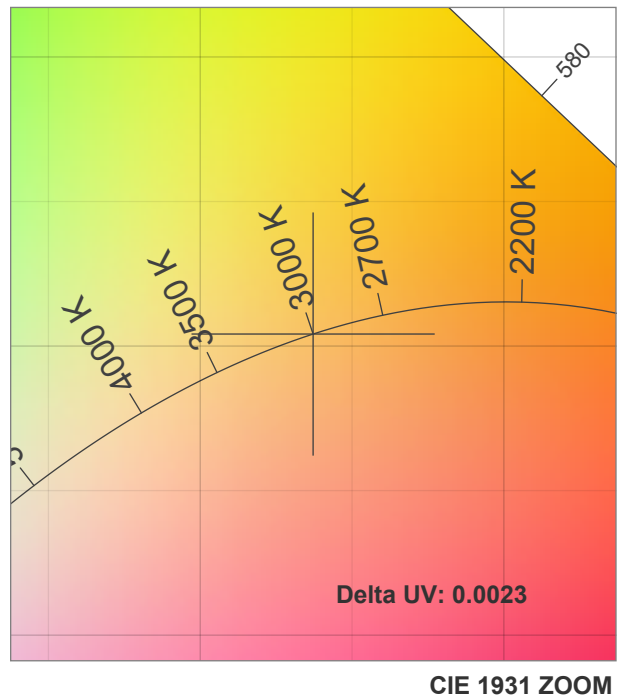
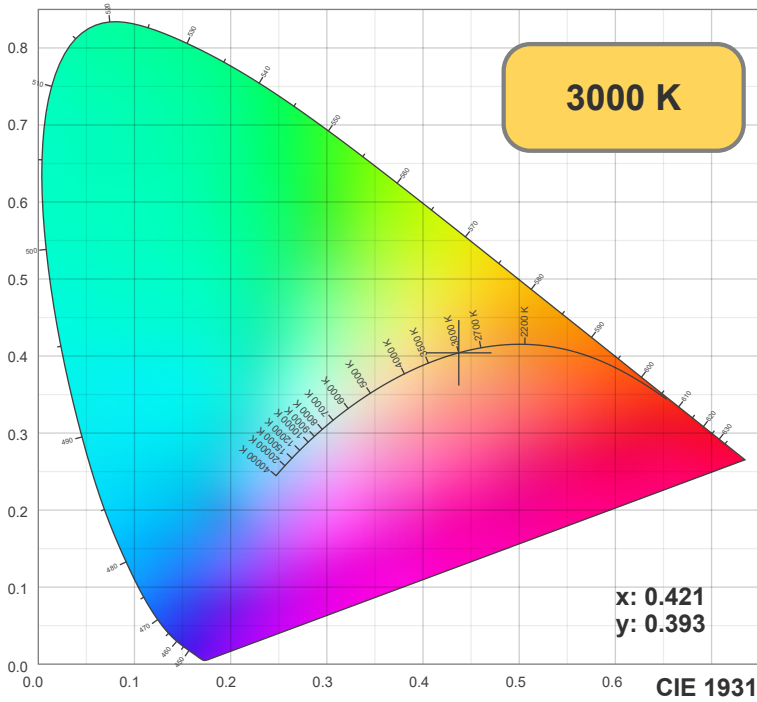
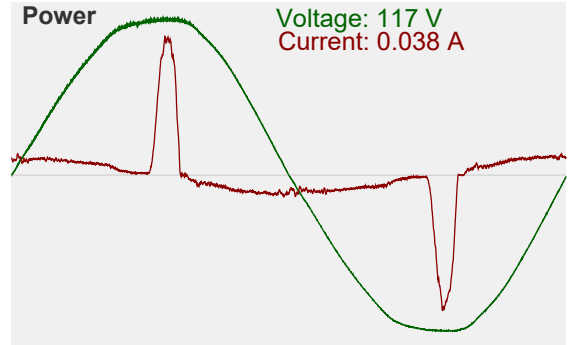
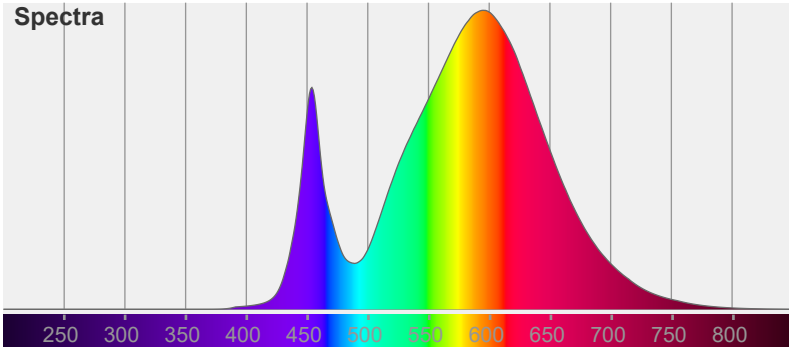
Color



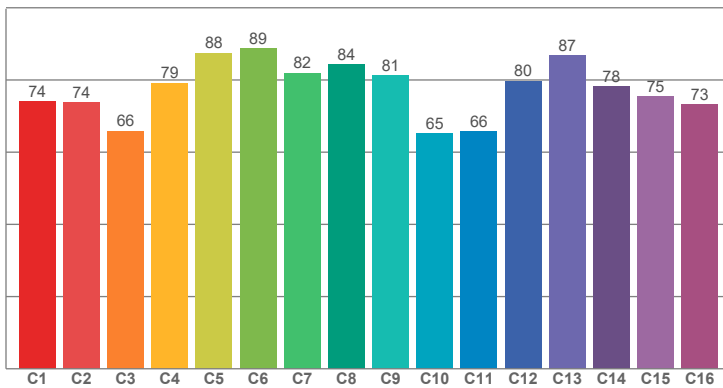
CIE1931  
x: 0.421  
y: 0.393

## Disclaimer

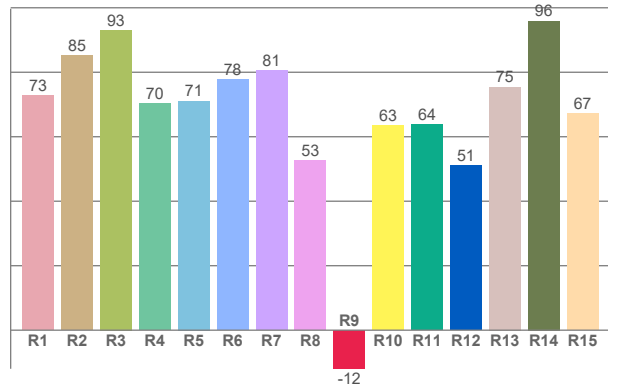
The data and information contained in this specification sheet are subject to change without notice; the ratings supplied are provided based on the product manufacturer. The information contained in this specification sheet should not be considered a warranty, expressed or implied, including, but not limited to, a warranty of merchantability or fitness for a particular purpose. In no event shall LED Lights and Parts be liable for any incidental or consequential damages resulting from the use, misuse, or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory.



TM30: 77.1



CRI: 75.4 (R1-R8)





CRI R values, only R1-R8 are used to calculate final CRI value

| R1    | R2    | R3    | R4    | R5    | R6    | R7    | R8    | R9     | R10   | R11   | R12   | R13   | R14   | R15   |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|-------|-------|-------|
| 72.80 | 85.13 | 93.07 | 70.33 | 71.12 | 77.73 | 80.55 | 52.58 | -11.97 | 63.39 | 63.84 | 50.99 | 75.41 | 95.95 | 67.16 |

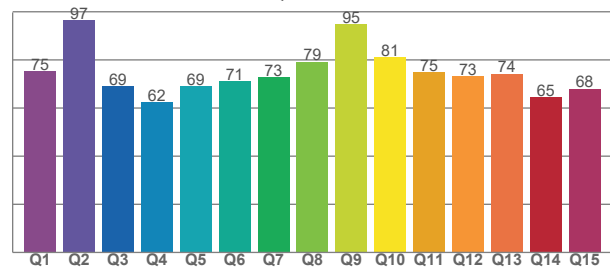
TM30 C values, 16 binned values out of total of 99 C values

| C1    | C2    | C3    | C4    | C5    | C6    | C7    | C8    | C9    | C10   | C11   | C12   | C13   | C14   | C15   | C16   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 74.10 | 73.70 | 65.86 | 79.18 | 87.53 | 88.67 | 81.91 | 84.23 | 81.34 | 65.26 | 65.84 | 79.74 | 86.86 | 78.14 | 75.45 | 73.17 |

CQS Q values

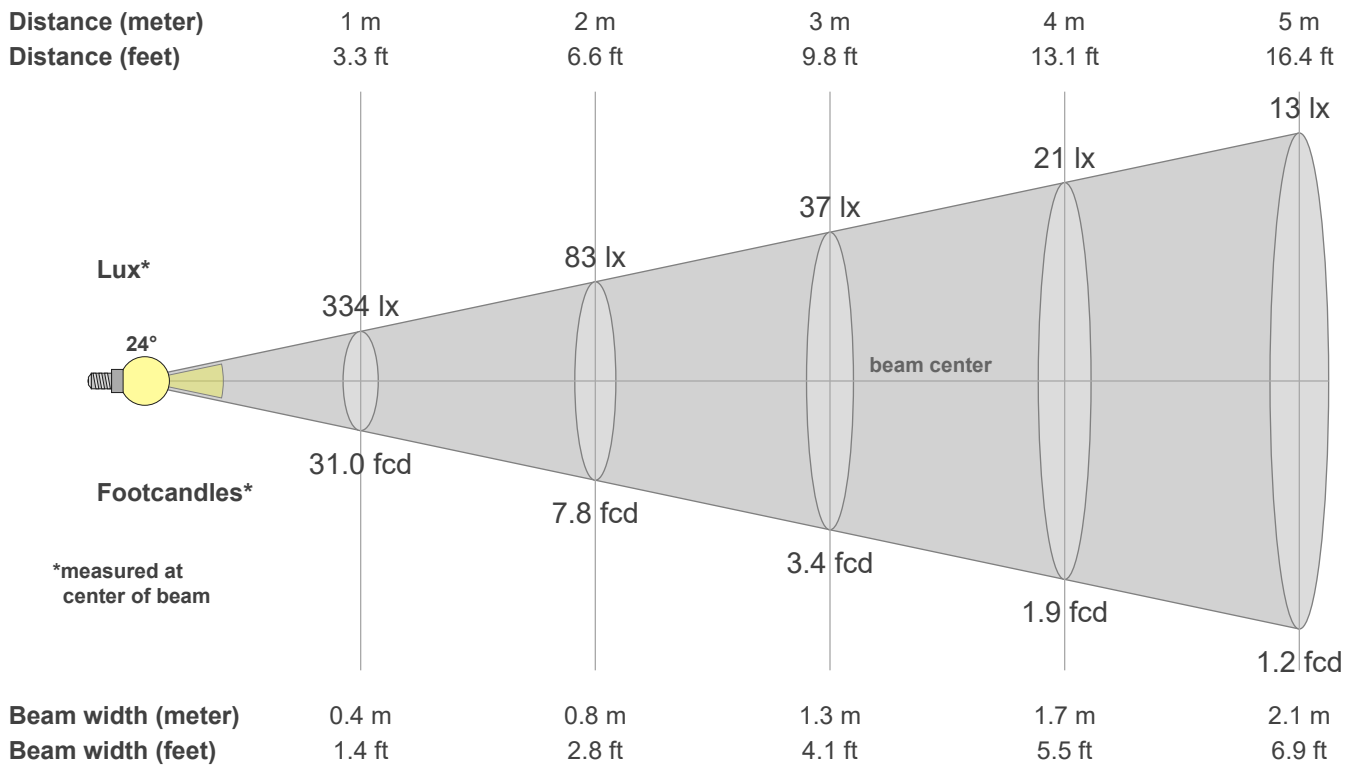
| Q1    | Q2    | Q3    | Q4    | Q5    | Q6    | Q7    | Q8    | Q9    | Q10   | Q11   | Q12   | Q13   | Q14   | Q15   |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 75.23 | 96.64 | 69.15 | 62.35 | 69.13 | 71.32 | 72.76 | 79.24 | 94.96 | 81.05 | 74.82 | 73.22 | 74.30 | 64.57 | 68.06 |

CQS: 73.3



## Color parameters

| CCT    | CRI  | CRI R9 | TM30 Rf | TM30 Rg | CQS  | x   | y   | u   | v   | Duv     |
|--------|------|--------|---------|---------|------|-----|-----|-----|-----|---------|
| 3000 K | 75.4 | -12.0  | 77.1    | 94.6    | 73.3 | 0.4 | 0.4 | 0.3 | 0.3 | -0.0023 |



\*measured at center of beam

## Intensities in 0° c-plane

| 0°   | 2°  | 4°  | 6°  | 8°  | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 334  | 327 | 310 | 282 | 248 | 205 | 167 | 133 | 109 | 93  | 79  | 67  | 56  | 47  | 39  | 30  | 23  | 17  | 13  | 10  |
| 100% | 98% | 93% | 85% | 74% | 61% | 50% | 40% | 33% | 28% | 24% | 20% | 17% | 14% | 12% | 9%  | 7%  | 5%  | 4%  | 3%  |



### Intensities in 90° c-plane

|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0°   | 2°  | 4°  | 6°  | 8°  | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
| 334  | 327 | 308 | 280 | 247 | 205 | 161 | 125 | 99  | 79  | 65  | 54  | 44  | 37  | 30  | 24  | 18  | 14  | 11  | 9   |
| 100% | 98% | 92% | 84% | 74% | 61% | 48% | 37% | 30% | 24% | 19% | 16% | 13% | 11% | 9%  | 7%  | 6%  | 4%  | 3%  | 3%  |

### Intensities in 180° c-plane

|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0°   | 2°  | 4°  | 6°  | 8°  | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
| 334  | 328 | 312 | 286 | 249 | 204 | 167 | 133 | 101 | 76  | 60  | 48  | 37  | 30  | 25  | 21  | 16  | 13  | 11  | 9   |
| 100% | 98% | 93% | 86% | 74% | 61% | 50% | 40% | 30% | 23% | 18% | 14% | 11% | 9%  | 8%  | 6%  | 5%  | 4%  | 3%  | 3%  |

### Intensities in 270° c-plane

|      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0°   | 2°  | 4°  | 6°  | 8°  | 10° | 12° | 14° | 16° | 18° | 20° | 22° | 24° | 26° | 28° | 30° | 32° | 34° | 36° | 38° |
| 334  | 327 | 308 | 280 | 247 | 205 | 161 | 125 | 99  | 79  | 65  | 54  | 44  | 37  | 30  | 24  | 18  | 14  | 11  | 9   |
| 100% | 98% | 92% | 84% | 74% | 61% | 48% | 37% | 30% | 24% | 19% | 16% | 13% | 11% | 9%  | 7%  | 6%  | 4%  | 3%  | 3%  |

|                       |                        |                          |                                     |                                    |
|-----------------------|------------------------|--------------------------|-------------------------------------|------------------------------------|
| <b>Beam angle 50%</b> | <b>Field angle 10%</b> | <b>Cutoff angle 2.5%</b> | <b>Intensity ratio in 120° cone</b> | <b>Intensity ratio in 90° cone</b> |
| <b>23.7°</b>          | <b>53.9°</b>           | <b>77.8°</b>             | <b>97.1%</b>                        | <b>92.6%</b>                       |