

Light efficiency:

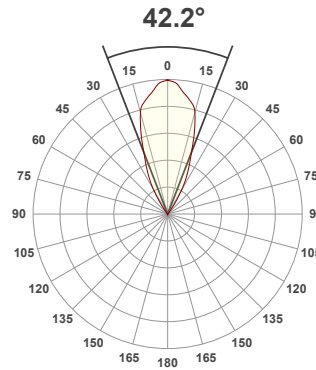
69 Lumen/Watt

Light quality:

CRI: 93.4

Color temperature:

3063 K



Product name:

90413-F_A-LED - LED51_Q-HO-30-WFL - 350mA

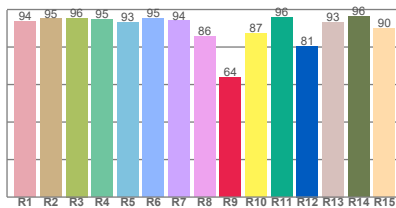
Item number:

Pinhole90 Fixed/Accent - LED51/Q-HO-30-WFL - 350mA

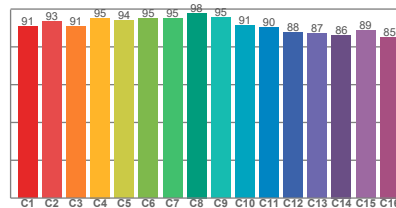
Delivered information for above fixture and LED combination.

Output: 967 Lumen Peak intensity: 1847 cd Power consumption: 14.0

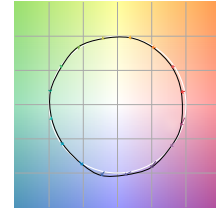
CRI R values



TM30 C Values

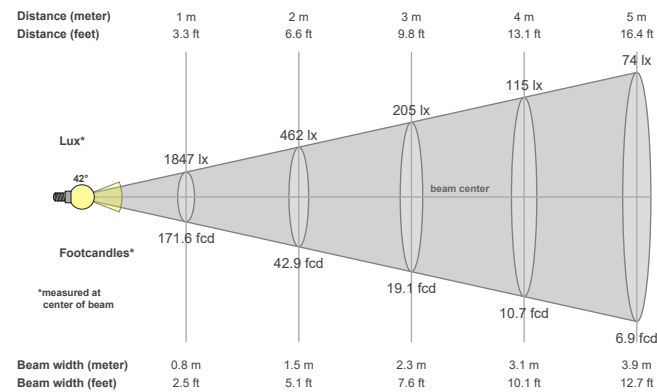


Color vector graphics



| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | Color quality scale | Color coordinate cie 1931 | Color coordinate cie 1931 | Color coordinate | Color coordinate | Color deviation from black body |
|-------------------|-----------------------|---------------|----------------|-------------|---------------------|---------------------------|---------------------------|------------------|------------------|---------------------------------|
| CCT | CRI | CRI R9 | TM30 Rf | TM30 Rg | CQS | x | y | u | v | Δuv |
| 3063 K | 93.4 | 64.0 | 91.8 | 99.3 | 91.8 | 0.436 | 0.409 | 0.248 | 0.349 | 0.0022 |

Beam details



Beam angels

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% |
|----------------|-----------------|-------------------|
| 42.2° | 67.9° | 77.1° |

Beam intensities

| Peak intensity | Int. ratio in 120° cone | Int. ratio in 90° cone |
|----------------|-------------------------|------------------------|
| 1847 cd | 99.6% | 99.1% |

Beam intensities from 1-20m

| 1m | 2m | 3m | 4m | 5m | 6m | 7m | 8m | 9m | 10m | 11m | 12m | 13m | 14m | 15m | 16m | 17m | 18m | 19m | 20m |
|----------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.3ft | 6.6ft | 9.8ft | 13.1ft | 16.4ft | 19.7ft | 23ft | 26.2ft | 29.5ft | 32.8ft | 36.1ft | 39.4ft | 42.7ft | 45.9ft | 49.2ft | 52.5ft | 55.8ft | 59.1ft | 62.3ft | 65.6ft |
| 1847lx | 462lx | 205lx | 115lx | 74lx | 51lx | 38lx | 29lx | 23lx | 18lx | 15lx | 13lx | 11lx | 9lx | 8lx | 7lx | 6lx | 6lx | 5lx | 5lx |
| 171.6fcd | 42.9fcd | 19.1fcd | 10.7fcd | 6.9fcd | 4.8fcd | 3.5fcd | 2.7fcd | 2.1fcd | 1.7fcd | 1.4fcd | 1.2fcd | 1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd |

The above information is for 3000K colour temperature, for specific module information please see LED spec located on our website.

For information regarding other colour temperatures please refer to ies/ldt files available on the website.

Light planning Glare Evaluation According to UGR

| | | | | | | | | | | | |
|---|-----|---|------|------|------|------|---|------|------|------|------|
| p Ceiling | | 70 | 70 | 50 | 50 | 30 | 70 | 70 | 50 | 50 | 30 |
| p Walls | | 50 | 30 | 50 | 30 | 30 | 50 | 30 | 50 | 30 | 30 |
| p Floor | | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| Room size X Y | | Viewing direction at right angles to lamp axis | | | | | Viewing direction parallel to lamp axis | | | | |
| 2H | 2H | 19.6 | 20.1 | 19.7 | 20.4 | 20.5 | 19.6 | 20.1 | 19.7 | 20.4 | 20.5 |
| | 3H | 19.3 | 20.0 | 19.7 | 20.2 | 20.4 | 19.3 | 20.0 | 19.7 | 20.2 | 20.4 |
| | 4H | 19.3 | 19.9 | 19.7 | 20.2 | 20.4 | 19.3 | 19.9 | 19.7 | 20.2 | 20.4 |
| | 6H | 19.3 | 19.9 | 19.6 | 20.2 | 20.5 | 19.3 | 19.9 | 19.6 | 20.2 | 20.5 |
| | 8H | 19.3 | 19.8 | 19.6 | 20.1 | 20.5 | 19.3 | 19.8 | 19.6 | 20.1 | 20.5 |
| | 12H | 19.3 | 19.8 | 19.6 | 20.1 | 20.5 | 19.3 | 19.8 | 19.6 | 20.1 | 20.5 |
| 4H | 2H | 19.3 | 19.9 | 19.6 | 20.1 | 20.4 | 19.3 | 19.9 | 19.6 | 20.1 | 20.4 |
| | 3H | 19.2 | 19.7 | 19.5 | 20.0 | 20.5 | 19.2 | 19.7 | 19.5 | 20.0 | 20.5 |
| | 4H | 19.1 | 19.5 | 19.5 | 20.0 | 20.5 | 19.1 | 19.5 | 19.5 | 20.0 | 20.5 |
| | 6H | 19.1 | 19.6 | 19.6 | 19.9 | 20.3 | 19.1 | 19.6 | 19.6 | 19.9 | 20.3 |
| | 8H | 19.0 | 19.5 | 19.6 | 19.9 | 20.2 | 19.0 | 19.5 | 19.6 | 19.9 | 20.2 |
| | 12H | 19.0 | 19.4 | 19.5 | 19.8 | 20.3 | 19.0 | 19.4 | 19.5 | 19.8 | 20.3 |
| 8H | 4H | 19.0 | 19.4 | 19.5 | 19.8 | 20.1 | 19.0 | 19.4 | 19.5 | 19.8 | 20.1 |
| | 6H | 19.0 | 19.3 | 19.5 | 19.8 | 20.3 | 19.0 | 19.3 | 19.5 | 19.8 | 20.3 |
| | 8H | 19.1 | 19.3 | 19.6 | 19.8 | 20.5 | 19.1 | 19.3 | 19.6 | 19.8 | 20.5 |
| | 12H | 19.1 | 19.3 | 19.7 | 19.8 | 20.4 | 19.1 | 19.3 | 19.7 | 19.8 | 20.4 |
| 12H | 4H | 18.9 | 19.3 | 19.4 | 19.7 | 20.1 | 18.9 | 19.3 | 19.4 | 19.7 | 20.1 |
| | 6H | 19.0 | 19.3 | 19.5 | 19.8 | 20.4 | 19.0 | 19.3 | 19.5 | 19.8 | 20.4 |
| | 8H | 19.0 | 19.2 | 19.6 | 19.7 | 20.3 | 19.0 | 19.2 | 19.6 | 19.7 | 20.3 |
| Variation of the observer position for the luminaire distance S | | | | | | | | | | | |
| S = 1.0H | | 6.1 / -6.8 | | | | | 6.1 / -6.8 | | | | |
| S = 1.5H | | 8.8 / -6.9 | | | | | 8.8 / -6.9 | | | | |
| S = 2.0H | | 10.8 / -7.1 | | | | | 10.8 / -7.1 | | | | |
| Corrected glare indices referring to 967 lm total luminous flux | | | | | | | | | | | |