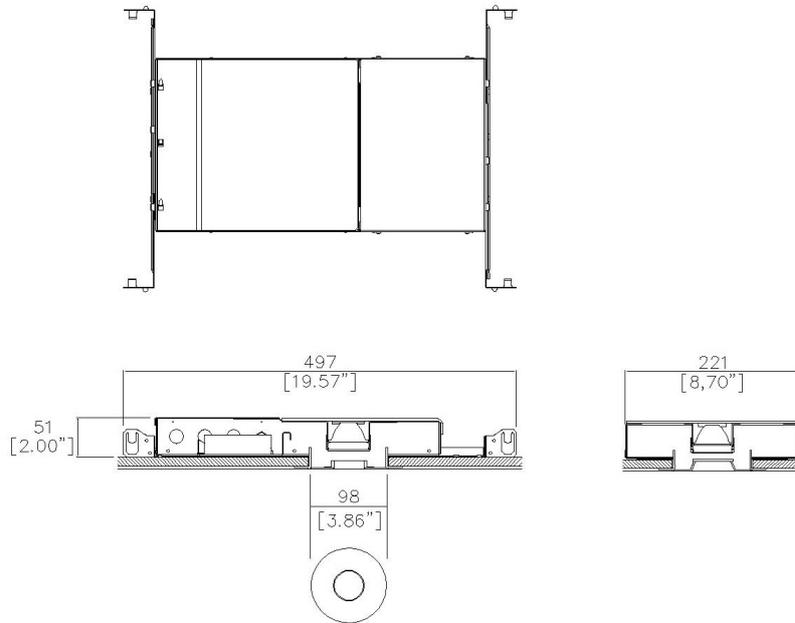


# Plus Edge LP Low Profile Fixed Downlight



Shallow 2" housing provides high performance electronics and architectural aesthetics in round and square 3.5" trim. Using our standard Plus front plates with a shallow height 2" housing with built in LED. Include fixed in a flanged or trimless installation kit. Available in various front plates (Conical, Bevel, Edge, Pyramidal and Square Bevel). Lucent modules available in a wide range of color temperatures, beam angles, intensities, and effects (Ambiance WarmDim and Dynamic Tuneable White). MR16 and GU10 LED lamp options available. TRIAC/Phase, 0-10v/1-10v, DMX and DALI/Digital dimming.



ALP090+113-LED-TL - LH-LP-2.00  
Cut-out 4.02" (102mm)



### Mud-in kit for seamless/trimless

| LED Source              | LED     | LED     | LED     | LED     |
|-------------------------|---------|---------|---------|---------|
| CCT                     | 3000K   | 3000K   | 3000K   | 3000K   |
| Drive Current           | 400mA   | 400mA   | 400mA   | 400mA   |
| Power inc Driver        | 16.3W   | 16.3W   | 16.3W   | 16.3W   |
| Beam Angle              | 17°     | 24°     | 35°     | 55°     |
| Delivered Lumens        | 1143    | 1113    | 1104    | 996     |
| Delivered Intensisty cd | 9707    | 6405    | 3783    | 1638    |
| Efficacy lm/w           | 70      | 68      | 68      | 61      |
| Forward Volt            | 34.6V   | 34.6V   | 34.6V   | 34.6V   |
| CRI                     | ≥90 CRI | ≥90 CRI | ≥90 CRI | ≥90 CRI |

Project Ref: \_\_\_\_\_

Location Ref: \_\_\_\_\_

Specify fixture part number (All boxes must be filled in to correctly order)

|                   |  |  |  |  |            |     |     |  |  |  |  |
|-------------------|--|--|--|--|------------|-----|-----|--|--|--|--|
| ALP090+113-LED-TL |  |  |  |  | LH-LP-2.00 | NIC | RTL |  |  |  |  |
|-------------------|--|--|--|--|------------|-----|-----|--|--|--|--|

Finish \_\_\_\_\_

- WH** White
- BK** Black
- RAL** Custom\*

CCT \_\_\_\_\_

- 27** 2700K
- 30** 3000K
- 40** 4000K

Beam Angles \_\_\_\_\_

- 17** 17
- 24** 24
- 35** 35
- 55** 55

Ceiling Thickness \_\_\_\_\_

- SC** Standard Ceiling (1/2"-5/8"-3/4")
- C** Custom

Housing Size \_\_\_\_\_

- LH-LP-2.00** Lucent Housing Low Profile 2.00"

Housing Type \_\_\_\_\_

- NIC** Non-Insulated Ceiling

Fixture Type \_\_\_\_\_

- RTL** Round Trimless

Mounting Hardware \_\_\_\_\_

- 09** 9" to 15.25"
- 14** 14" to 24"
- 36** 28" to 36"

Supply Voltage \_\_\_\_\_

- 120** 120V
- 277** 277V

Protocol \_\_\_\_\_

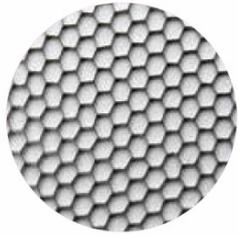
- S** Non-Dimmable (120 - 277V)
- P** TRIAC/Phase (120V ONLY)
- A** Analog (0-10V) (120 -277V)

Louvre/Lens \_\_\_\_\_

- XX** Not required
- LL45** Honeycomb
- LLCC** Warm Tone
- LLUV** UV
- LLDF** Solite/Diffusing
- LLFR** Frosted Lens
- LLLS** Linear Spread
- LLHS** Heavy Spread

\*Refer to Technical Details for more information

**NIC Housing Type - No contact with insulation and at least 3 inches spacing from insulation in all directions**



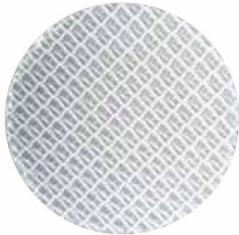
**Honeycomb Louvre**



**Diffusing Lens**



**Frosted Lens**



**Heavy Spread Lens**



**Linear Spread Lens**



**Warm Tone**

.....

## Technical Details

\*Custom RAL code must be specified. Custom RAL colours can increase prices and lead times

Dimming. Whilst Lucent can offer the majority of its luminaires with various dimming options, it remains the responsibility of the specifier/installer to check and ensure compatibility of any control equipment used. Additional cabling may be required depending on the dimming protocol specified.

\*\*Bluetooth (wireless) is the communication method. The exact dimming protocol must be confirmed to allow the selection of suitable drivers or bluetooth devices.

^ Depth indicated may vary depending on lamp type used

First Fix Requirement. Luminaire comprised of fixture body with ceiling trim and installation kit, which is to be fitted into the ceiling once finished. Ensure correct alignment of the installation kit before final assembly (see luminaire installation instructions for details)

IP Rating. Tested from underside of the ceiling

It is the policy of Lucent Lighting to continually review and improve its products and therefore reserve the right to change any details of product or withdraw specifications without prior notice.

Luminaires designed to comply with EN60598 and all other standards.

This specification sheet supersedes all previous versions.

All intellectual property rights pertaining to the product described above and to this document are owned by or licensed to Lucent Lighting Ltd.

We reserve the right to take whatever action is necessary to protect those intellectual property rights.

Please notify Lucent Lighting Ltd of any inaccuracies immediately. E&OE

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**Light efficiency:**

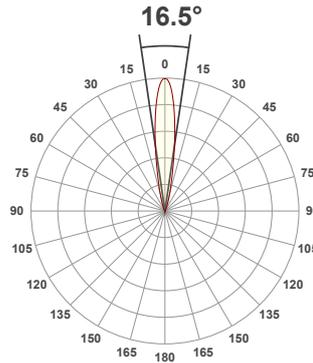
**70 Lumen/Watt**

**Light quality:**

**CRI: 91.6**

**Color temperature:**

**3000 K**



**Product name:**

**Plus3.5 Edge Fixed, 3000K 17°  
400mA + Lucent Housing 2"**

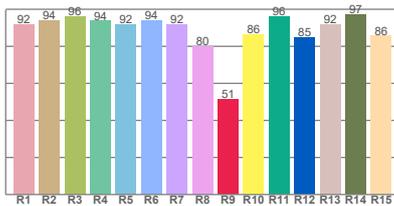
**Item number:**

**ALP090+113-LED-930-17-400mA  
+ LH-LP-2.00**

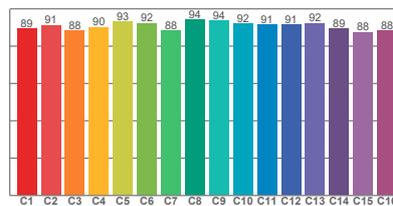
**Delivered information for above  
fixture and LED combination.**

**Output: 1143 Lumen Peak intensity: 9707 cd Power consumption: 16.3**

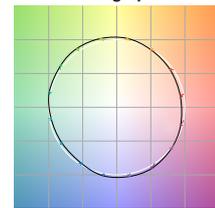
**CRI R values**



**TM30 C Values**

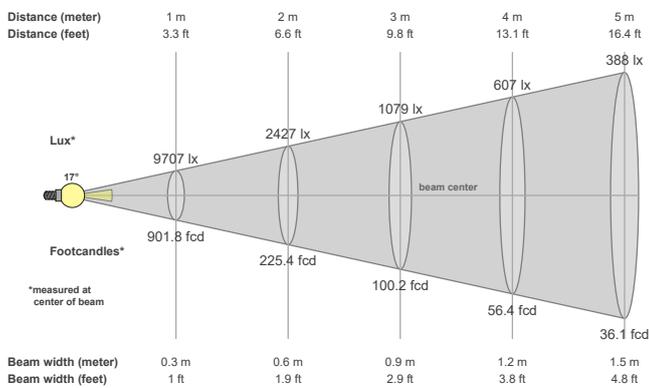


**Color vector graphics**



| 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                             |
| 3000 K            | 91.6                  | 51.3          | 91.0           | 100.9       | 90.2                | 0.437                     | 0.404                     | 0.251            | 0.348            | 0.0020                          |

**Beam details**



**Beam angels**

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% |
|----------------|-----------------|-------------------|
| 16.5°          | 33.9°           | 50°               |

**Beam intensities**

| Peak intensity | Int. ratio in 120° cone | Int. ratio in 90° cone |
|----------------|-------------------------|------------------------|
| 9707 cd        | 99.7%                   | 99.3%                  |

**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 |
| 9707lx   | 2427lx   | 1079lx   | 607lx   | 388lx   | 270lx  | 198lx   | 152lx   | 120lx   | 97lx   | 80lx   | 67lx   | 57lx   | 50lx   | 43lx   | 38lx   | 34lx   | 30lx   | 27lx   | 24lx   |
| 901.8fcd | 225.4fcd | 100.2fcd | 56.4fcd | 36.1fcd | 25fcd  | 18.4fcd | 14.1fcd | 11.1fcd | 9fcd   | 7.5fcd | 6.3fcd | 5.3fcd | 4.6fcd | 4fcd   | 3.5fcd | 3.1fcd | 2.8fcd | 2.5fcd | 2.3fcd |

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 use the following factors for lumen output and candelas:

2700K = 0.94  
4000K = 1.07

**Light efficiency:**

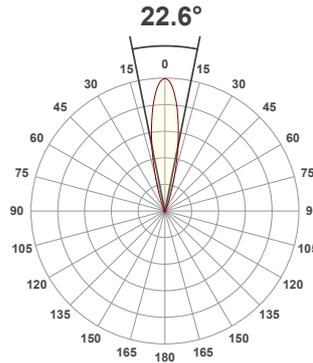
**68 Lumen/Watt**

**Light quality:**

**CRI: 91.4**

**Color temperature:**

**3000 K**



**Product name:**

**Plus3.5 Edge Fixed, 3000K 24°  
400mA + Lucent Housing 2"**

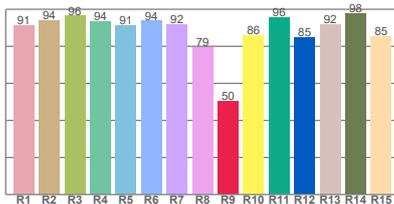
**Item number:**

**ALP090+113-LED-930-24-400mA  
+ LH-LP-2.00**

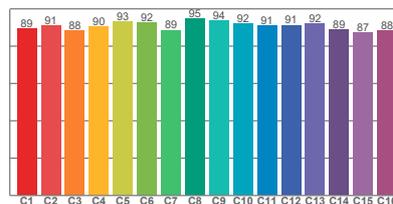
**Delivered information for above  
fixture and LED combination.**

**Output: 1113 Lumen Peak intensity: 6405 cd Power consumption: 16.3**

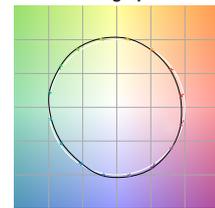
**CRI R values**



**TM30 C Values**

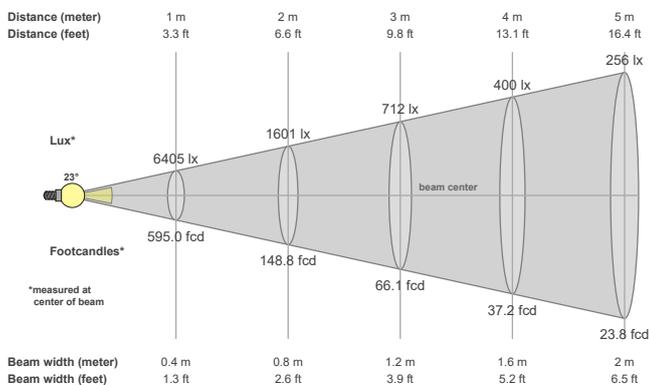


**Color vector graphics**



| 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                             |
| 3000 K            | 91.4                  | 50.1          | 91.0           | 100.7       | 90.1                | 0.437                     | 0.404                     | 0.251            | 0.348            | 0.0020                          |

**Beam details**



**Beam angels**

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% |
|----------------|-----------------|-------------------|
| 22.6°          | 39.8°           | 52.3°             |

**Beam intensities**

| Peak intensity | Int. ratio in 120° cone | Int. ratio in 90° cone |
|----------------|-------------------------|------------------------|
| 6405 cd        | 99.7%                   | 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 |
| 6405lx | 1601lx   | 712lx   | 400lx   | 256lx   | 178lx   | 131lx   | 100lx  | 79lx   | 64lx   | 53lx   | 44lx   | 38lx   | 33lx   | 28lx   | 25lx   | 22lx   | 20lx   | 18lx   | 16lx   |
| 595fcd | 148.8fcd | 66.1fcd | 37.2fcd | 23.8fcd | 16.5fcd | 12.1fcd | 9.3fcd | 7.3fcd | 6fcd   | 4.9fcd | 4.1fcd | 3.5fcd | 3fcd   | 2.6fcd | 2.3fcd | 2.1fcd | 1.8fcd | 1.6fcd | 1.5fcd |

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 use the following factors for lumen output and candelas:

2700K = 0.94  
4000K = 1.07

**Light efficiency:**

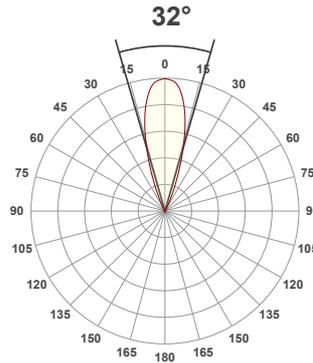
**68 Lumen/Watt**

**Light quality:**

**CRI: 91.5**

**Color temperature:**

**3000 K**



**Product name:**

**Plus3.5 Edge Fixed, 3000K 35°  
400mA + Lucent Housing 2"**

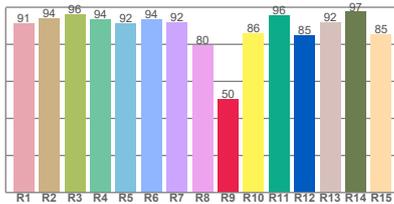
**Item number:**

**ALP090+113-LED-930-35-400mA  
+ LH-LP-2.00**

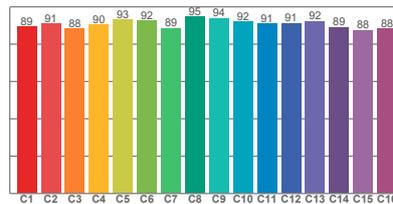
**Delivered information for above  
fixture and LED combination.**

**Output: 1104 Lumen Peak intensity: 3783 cd Power consumption: 16.3**

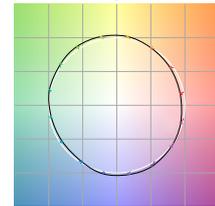
**CRI R values**



**TM30 C Values**

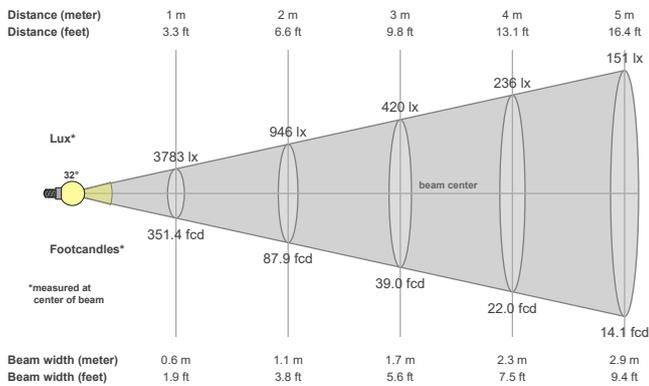


**Color vector graphics**



| 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                             |
| 3000 K            | 91.5                  | 50.4          | 91.0           | 100.8       | 90.2                | 0.437                     | 0.404                     | 0.251            | 0.348            | 0.0020                          |

**Beam details**



**Beam angels**

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% |
|----------------|-----------------|-------------------|
| 32°            | 49.1°           | 59.1°             |

**Beam intensities**

| Peak intensity | Int. ratio in 120° cone | Int. ratio in 90° cone |
|----------------|-------------------------|------------------------|
| 3783 cd        | 99.8%                   | 99.3%                  |

**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 |
| 3783lx   | 946lx   | 420lx | 236lx  | 151lx   | 105lx  | 77lx   | 59lx   | 47lx   | 38lx   | 31lx   | 26lx   | 22lx   | 19lx   | 17lx   | 15lx   | 13lx   | 12lx   | 10lx   | 9lx    |
| 351.4fcd | 87.9fcd | 39fcd | 22fcd  | 14.1fcd | 9.8fcd | 7.2fcd | 5.5fcd | 4.3fcd | 3.5fcd | 2.9fcd | 2.4fcd | 2.1fcd | 1.8fcd | 1.6fcd | 1.4fcd | 1.2fcd | 1.1fcd | 1fcd   | 0.9fcd |

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 use the following factors for lumen output and candelas:

2700K = 0.94  
4000K = 1.07

**Light efficiency:**

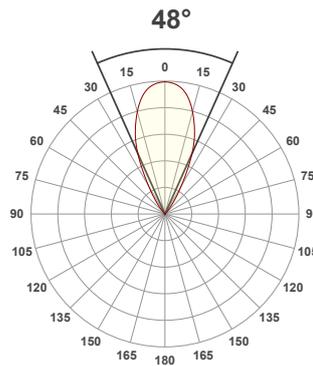
**61 Lumen/Watt**

**Light quality:**

**CRI: 91.5**

**Color temperature:**

**3000 K**



**Product name:**

**Plus3.5 Edge Fixed, 3000K 55°  
400mA + Lucent Housing 2"**

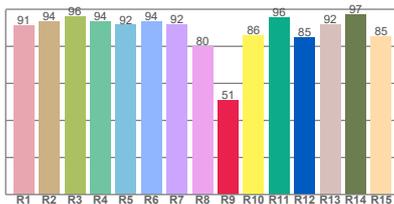
**Item number:**

**ALP090+113-LED-930-55-400mA  
+ LH-LP-2.00**

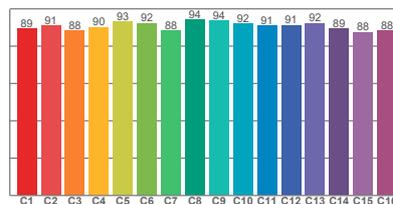
**Delivered information for above  
fixture and LED combination.**

**Output: 996 Lumen Peak intensity: 1638 cd Power consumption: 16.3**

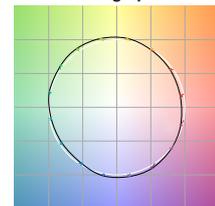
**CRI R values**



**TM30 C Values**

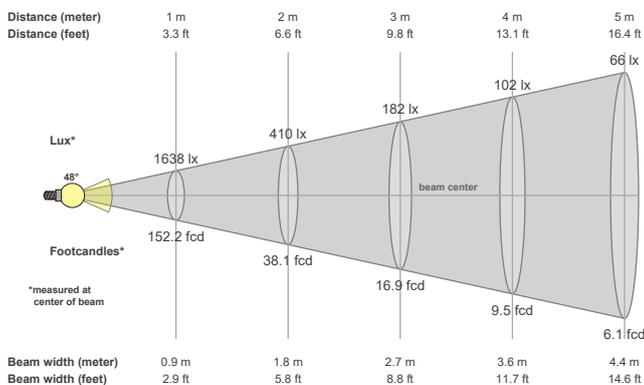


**Color vector graphics**



| 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                             |
| 3000 K            | 91.5                  | 50.9          | 90.9           | 100.8       | 90.2                | 0.437                     | 0.404                     | 0.251            | 0.348            | 0.0021                          |

**Beam details**



**Beam angels**

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% |
|----------------|-----------------|-------------------|
| 48°            | 71.7°           | 83.2°             |

**Beam intensities**

| Peak intensity | Int. ratio in 120° cone | Int. ratio in 90° cone |
|----------------|-------------------------|------------------------|
| 1638 cd        | 99.5%                   | 98.7%                  |

**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 |
| 1638lx   | 410lx   | 182lx   | 102lx  | 66lx   | 46lx   | 33lx   | 26lx   | 20lx   | 16lx   | 14lx   | 11lx   | 10lx   | 8lx    | 7lx    | 6lx    | 6lx    | 5lx    | 5lx    | 4lx    |
| 152.2fcd | 38.1fcd | 16.9fcd | 9.5fcd | 6.1fcd | 4.2fcd | 3.1fcd | 2.4fcd | 1.9fcd | 1.5fcd | 1.3fcd | 1.1fcd | 0.9fcd | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.5fcd | 0.4fcd | 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 use the following factors for lumen output and candelas:

2700K = 0.94  
4000K = 1.07