

Lichteffizienz:

81 Lumen/Watt

CRI:

CRI: 91,9

Farbtemperatur:

2752 K

Lichtstärke: 602 lm

Leuchtdichte: 3312 cd

Leistung: 7,4 W

Powerfaktor: 0,94



Bestellnummer:

F11RXXXM0627L15P

Messung erstellt:

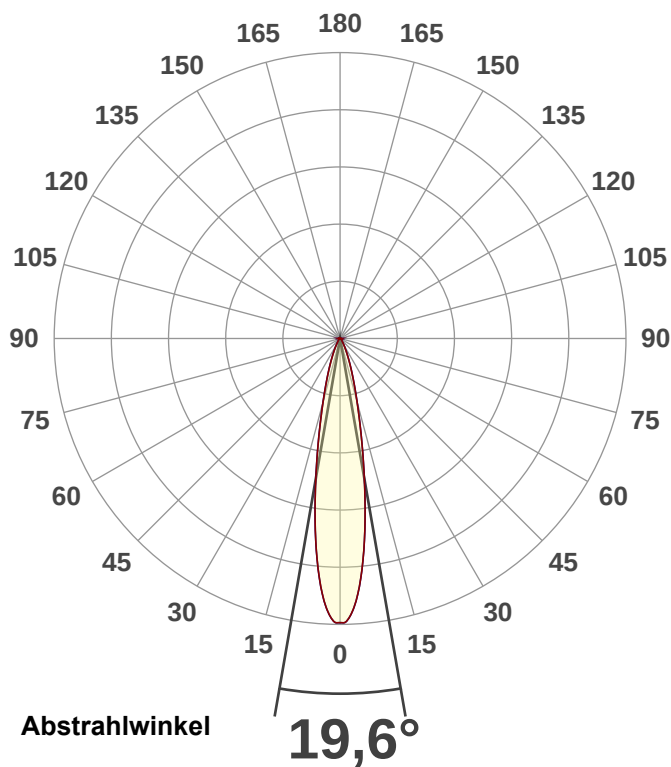
10.02.2023 09:55:27

Beschreibung:

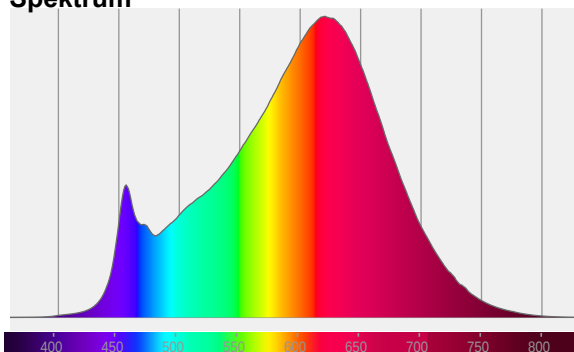
SELECTO

LED Deckeneinbau - quad. -  
schwenkbar - weiß - IP20  
220-240V/AC - 6W - 2700K -  
755lm - inkl. Netzgerät -  
Phase

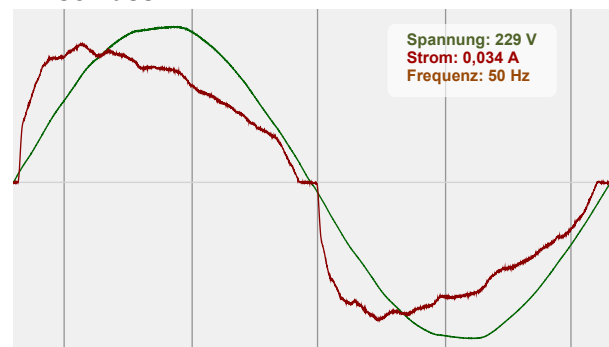
(gemessen von 2,831m)

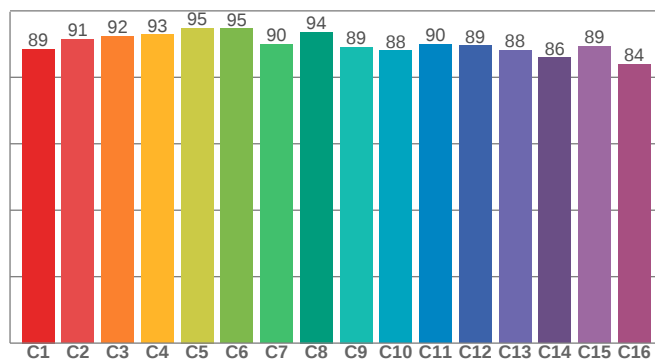
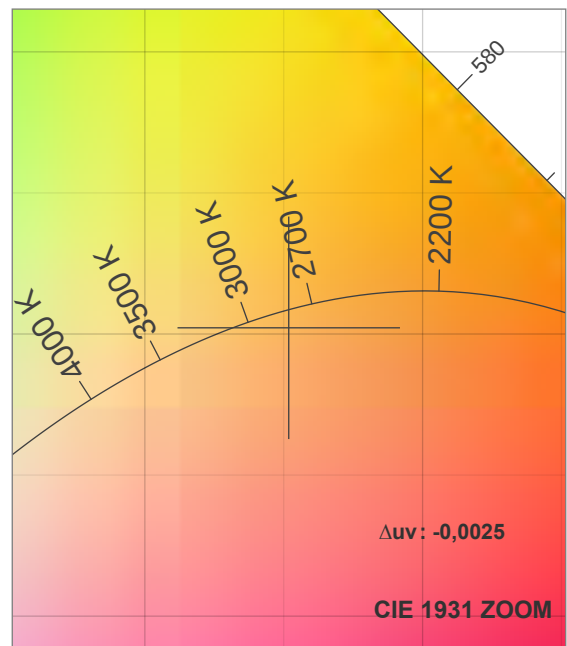
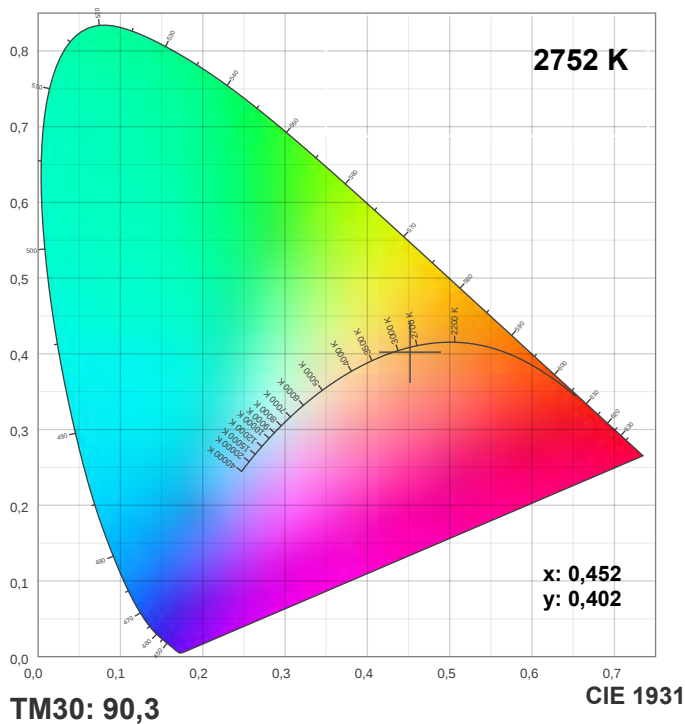


Spektrum

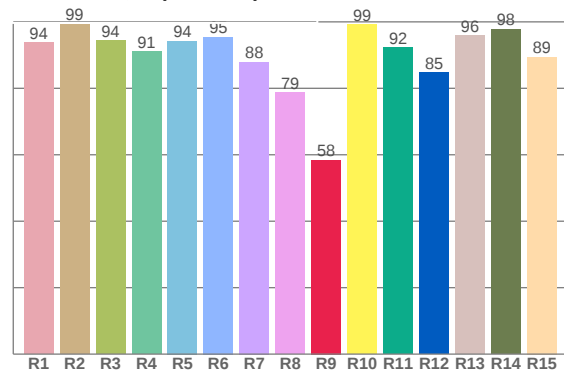


Anschluss





CRI: 91,9 (R1-R8)



CRI R-Werte, nur R1-R8 werden zur Berechnung des endgültigen CRI-Wertes verwendet

| R1   | R2   | R3   | R4   | R5   | R6   | R7   | R8   | R9   | R10  | R11  | R12  | R13  | R14  | R15  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 93,8 | 99,3 | 94,4 | 91,0 | 94,3 | 95,4 | 87,9 | 78,8 | 58,4 | 99,1 | 92,3 | 84,8 | 95,9 | 97,8 | 89,4 |

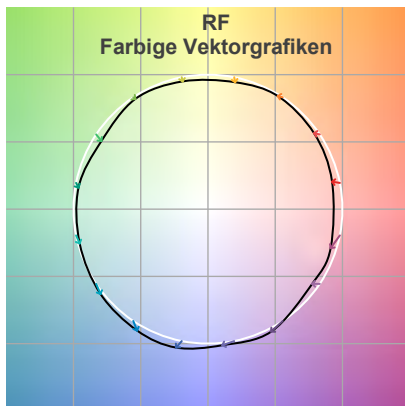
TM30 C-Werte, 16 eingelagerte Werte von insgesamt 99 C-Werten

| C1   | C2   | C3   | C4   | C5   | C6   | C7   | C8   | C9   | C10  | C11  | C12  | C13  | C14  | C15  | C16  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 88,5 | 91,4 | 92,3 | 92,8 | 94,9 | 94,6 | 89,9 | 93,6 | 89,1 | 88,0 | 90,0 | 89,5 | 88,2 | 85,9 | 89,3 | 83,9 |

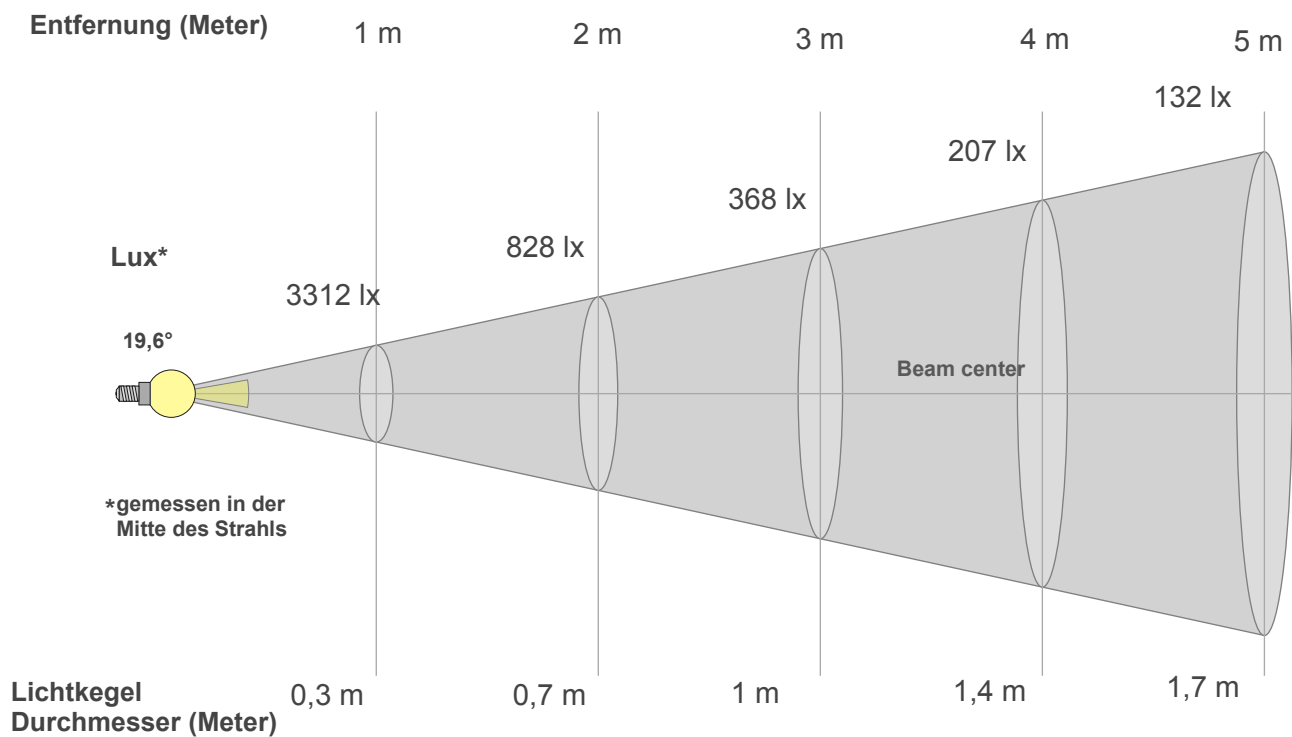
### Farbparameter

| Farbtemperatur<br>CCT | CRI-Wert rendering<br>CRI | Rotanteil R9<br>CRI R9 | Farbtreue<br>TM30 Rf | Farbbereich<br>TM30 Rg |
|-----------------------|---------------------------|------------------------|----------------------|------------------------|
| 2752 K                | 91,9                      | 58,4                   | 90,3                 | 96,9                   |

## TM30 Details



## Lichtstrahl Details



## Strahlintensitäten von 1-20m

| 1m     | 2m    | 3m    | 4m    | 5m    | 6m   | 7m   | 8m   | 9m   | 10m  | 3,3m    | 6,6m   | 9,8m   | 13,1m  | 16,4m  | 19,7m | 23m   | 26,2m | 29,5m | 32,8m |
|--------|-------|-------|-------|-------|------|------|------|------|------|---------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 3312lx | 828lx | 368lx | 207lx | 132lx | 92lx | 68lx | 52lx | 41lx | 33lx | 307,7lx | 76,9lx | 34,2lx | 19,2lx | 12,3lx | 8,5lx | 6,3lx | 4,8lx | 3,8lx | 3,1lx |

## Blendungsbewertung nach UGR

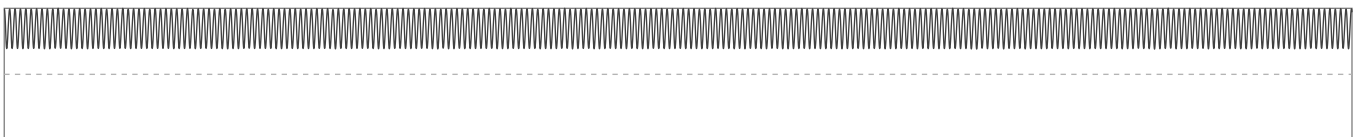
|                                                                  |     |                                               |     |     |     |     |                                           |     |     |     |     |
|------------------------------------------------------------------|-----|-----------------------------------------------|-----|-----|-----|-----|-------------------------------------------|-----|-----|-----|-----|
| p Decke                                                          |     | 70                                            | 70  | 50  | 50  | 30  | 70                                        | 70  | 50  | 50  | 30  |
| p Wand                                                           |     | 50                                            | 30  | 50  | 30  | 30  | 50                                        | 30  | 50  | 30  | 30  |
| p Boden                                                          |     | 20                                            | 20  | 20  | 20  | 20  | 20                                        | 20  | 20  | 20  | 20  |
| Raumgrößen<br>X      Y                                           |     | Blickrichtung rechtwinklig zur<br>Lampenachse |     |     |     |     | Blickrichtung parallel zur<br>Lampenachse |     |     |     |     |
| 2H                                                               | 2H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 3H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 4H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 6H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 8H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 12H | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
| 4H                                                               | 2H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 3H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 4H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 6H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 8H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 12H | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
| 8H                                                               | 4H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 6H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 8H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 12H | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
| 12H                                                              | 4H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 6H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
|                                                                  | 8H  | -â°                                           | -â° | -â° | -â° | -â° | -â°                                       | -â° | -â° | -â° | -â° |
| Variation der Beobachterposition für den Leuchtenabstand S       |     |                                               |     |     |     |     |                                           |     |     |     |     |
| S = 1.0H                                                         |     | NaN / NaN                                     |     |     |     |     | NaN / NaN                                 |     |     |     |     |
| S = 1.5H                                                         |     | NaN / NaN                                     |     |     |     |     | NaN / NaN                                 |     |     |     |     |
| S = 2.0H                                                         |     | NaN / NaN                                     |     |     |     |     | NaN / NaN                                 |     |     |     |     |
| Standard-Tabelle                                                 |     | n/a                                           |     |     |     |     | n/a                                       |     |     |     |     |
| Korrektur<br>Zusammenfassung                                     |     | n/a                                           |     |     |     |     | n/a                                       |     |     |     |     |
| Korrigierte Blendungsindizes bezogen auf 602 lm Gesamtlichtstrom |     |                                               |     |     |     |     |                                           |     |     |     |     |

| Measurement Details |                        |
|---------------------|------------------------|
| Messzeitpunkt       | 10.02.2023<br>09:55:27 |
| Betreiber           | EVN Lichttechnik       |

| Laboratory and Equipment      |                  |                         |
|-------------------------------|------------------|-------------------------|
| Laboreigentümer und Standort  | EVN Lichttechnik | Winkelhaid, Deutschland |
| Flickermeter Art              | Viso Systems     | LabFlicker              |
| Frequenz der Eingangsleistung | 50 Hz            |                         |

| Flicker Details                                                                                       |                     |                                             |
|-------------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------|
| Flicker-Abtastrate                                                                                    | 20000 Abtastungen/s |                                             |
| Flicker Kennwerte gemäß der Illuminating Engineering Society (IES)                                    | Flicker Frequenz    | 100 Hz                                      |
|                                                                                                       | Flickeranteil in %  | 18,22 %                                     |
|                                                                                                       | Flicker Index       | 0,06                                        |
| Flicker Kennwerte gemäß der Kalifornische Energiekommission, JA 8/10 Prozentsatz Amplitudenmodulation | Ungefiltert         | 18,22 %                                     |
|                                                                                                       | mit 40-Hz-Grenze    | 0,84 %                                      |
|                                                                                                       | mit 90-Hz-Grenze    | 3,78 %                                      |
|                                                                                                       | mit 200-Hz-Grenze   | 18,83 %                                     |
|                                                                                                       | mit 400-Hz-Grenze   | 18,25 %                                     |
|                                                                                                       | mit 1000-Hz-Grenze  | 18,21 %                                     |
| Flickerindex nach ASSIST                                                                              | Mp 0,23             | Konformität mit der EU-Ökodesign-Richtlinie |

| Flickerkurve (vollständig ausgewertetes Flickersignal)               |                                                  |                                            |
|----------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------|
| TLA-Kennwerte gemäß IEC TR 61547-1, IEC 61000-3-3 und IEC 61000-4-15 | Flicker PstLM Wert 0,35<br>Flicker SVM Wert 0,68 | Yes - PstLM $\leq$ 1,0<br>No - SVM $>$ 0,4 |



| Flicker Frame (Bild einer Flickerperiode im Zeitbereich) | Flicker FFT (Flickerkurve im Frequenzbereich) |
|----------------------------------------------------------|-----------------------------------------------|
|----------------------------------------------------------|-----------------------------------------------|

