

Light efficiency:



Light quality:



Color temperature:

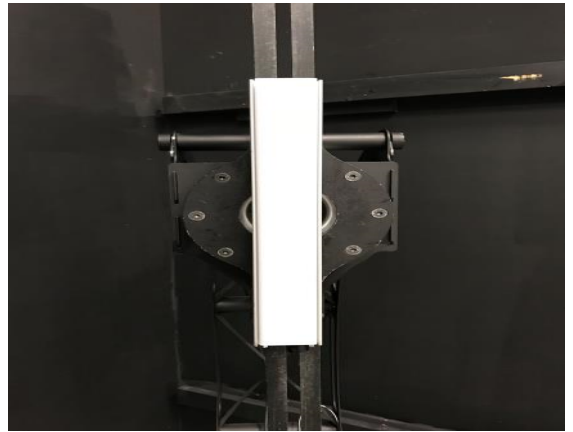


Output: 289 lm

Peak: 101 cd

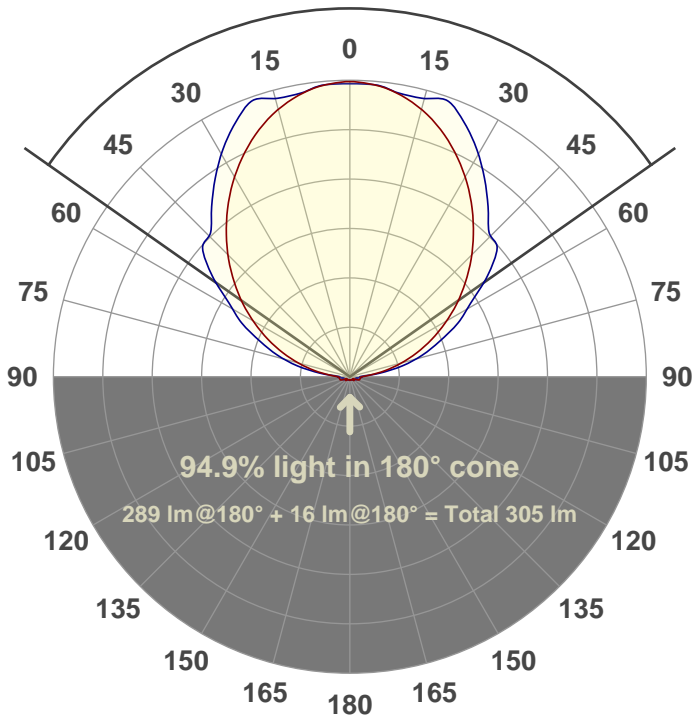
Power: 4.6 W

PF: 1.0



109.8°

Beam angle



Color



CIE 1931
x: 0.431
y: 0.401

Product name:

HL-DL-MONO-300-5W-3000K-ELV-NICHE

Date and time:

05-Sep-18 8:36:43 AM

Additional Information:

LED: MONO 3000K

FIXTURE: HL 300MM

LENS: YES

PROFILE: HL-DL

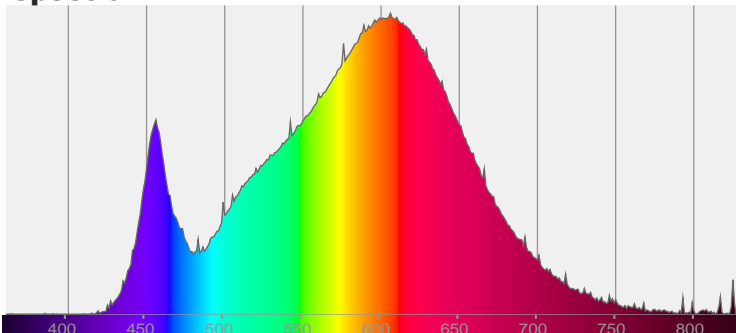
DIFFUSER: NICHE

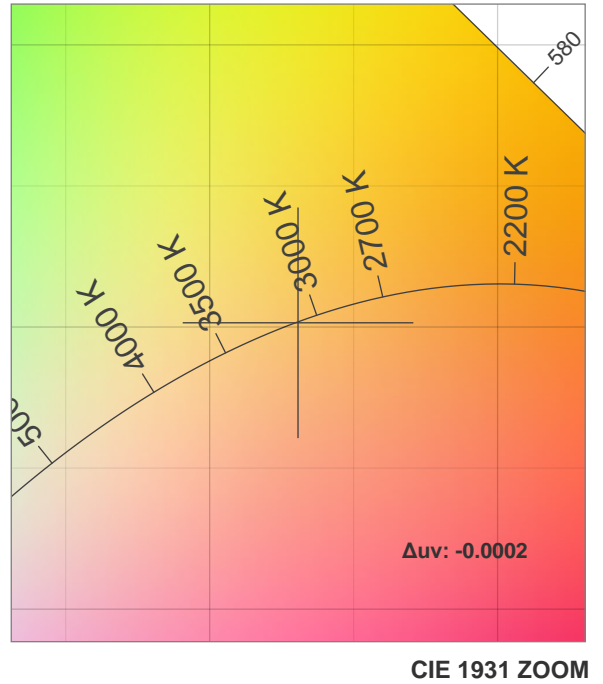
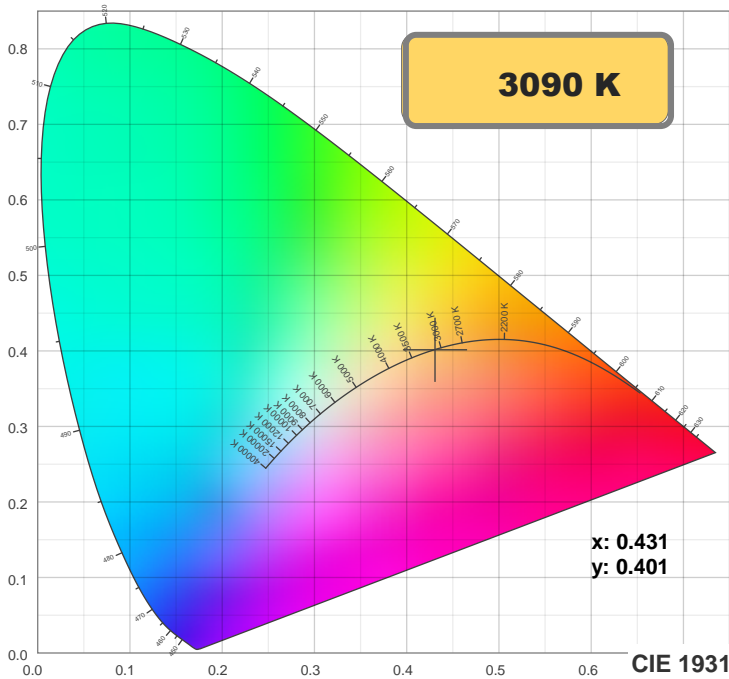
STABILIZED: YES

LUMINANCE: 8214 cd/m2

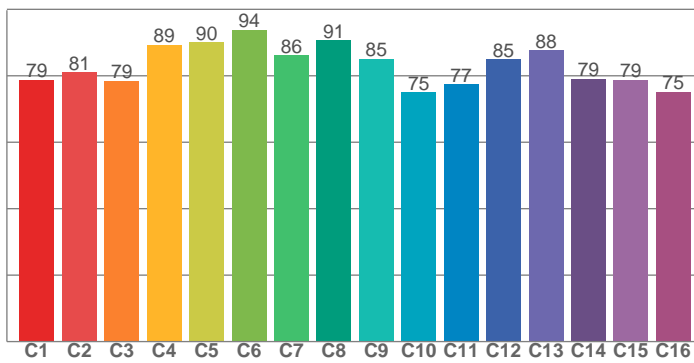
PERFORMED BY: ABDULLAH QURESHI

Spectra

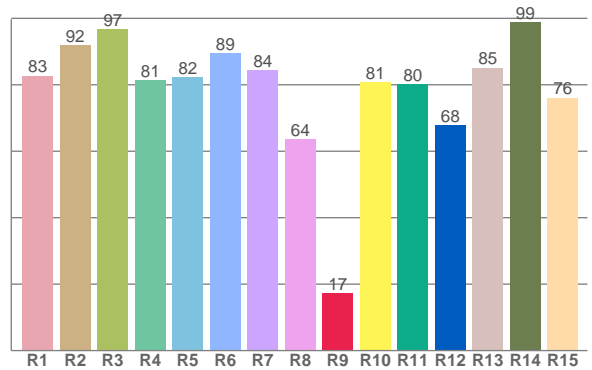




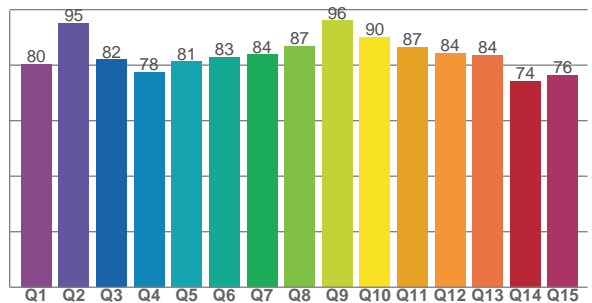
TM30: 83.1



CRI: 84.1 (R1-R8)



CQS: 82.9



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 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 82.8 | 92.0 | 96.8 | 81.4 | 82.3 | 89.4 | 84.5 | 63.6 | 17.3 | 80.8 | 80.1 | 67.8 | 85.1 | 98.9 | 76.1 |

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

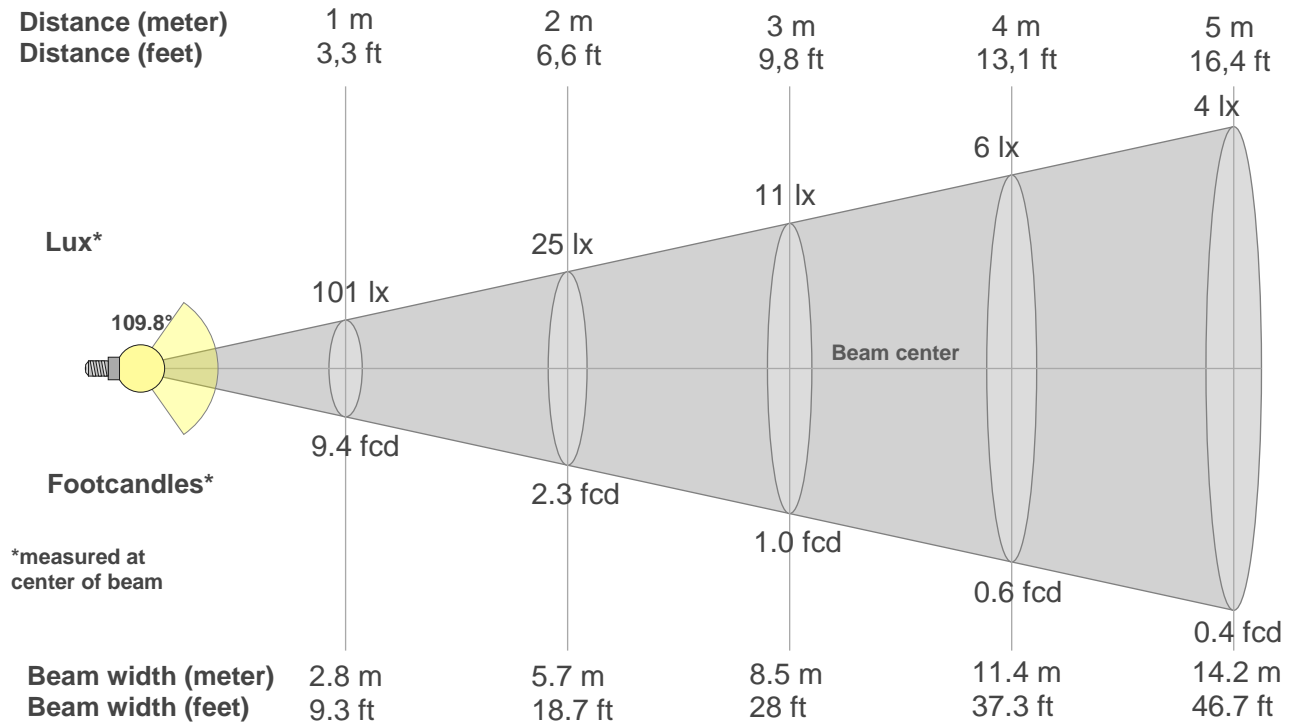
| C1 | C2 | C3 | C4 | C5 | C6 | C7 | C8 | C9 | C10 | C11 | C12 | C13 | C14 | C15 | C16 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78.8 | 81.0 | 78.6 | 89.4 | 90.1 | 93.8 | 86.2 | 90.7 | 85.1 | 75.0 | 77.4 | 84.9 | 87.7 | 79.1 | 78.8 | 75.2 |

CQS Q values

| Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 80.4 | 95.1 | 82.0 | 77.6 | 81.2 | 82.9 | 83.9 | 86.8 | 96.1 | 90.1 | 86.5 | 84.4 | 83.5 | 74.2 | 76.4 |

Color parameters

| 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 |
| 3090 K | 84.1 | 17.3 | 83.1 | 95.4 | 82.9 | 0.431 | 0.401 | 0.248 | 0.346 | -0.0002 |



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 |
| 101lx | 25lx | 11lx | 6lx | 4lx | 3lx | 2lx | 2lx | 1lx | 1lx | 1lx | 1lx | 1lx | 1lx | 0lx | 0lx | 0lx | 0lx | 0lx | 0lx |
| 9.4fcd | 2.3fcd | 1fcd | 0.6fcd | 0.4fcd | 0.3fcd | 0.2fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0.1fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd | 0fcd |

Intensities in 0° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101 | 100 | 98 | 95 | 90 | 85 | 79 | 73 | 66 | 59 | 52 | 45 | 38 | 32 | 25 | 18 | 12 | 7 | 4 | 0 |
| 100% | 99% | 97% | 94% | 90% | 84% | 78% | 72% | 65% | 59% | 52% | 45% | 38% | 31% | 25% | 18% | 12% | 7% | 4% | 0% |

Intensities in 90° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101 | 100 | 99 | 99 | 100 | 95 | 88 | 81 | 74 | 68 | 65 | 56 | 47 | 39 | 31 | 23 | 16 | 8 | 4 | 0 |
| 100% | 99% | 98% | 98% | 99% | 94% | 87% | 80% | 73% | 68% | 65% | 55% | 46% | 39% | 31% | 23% | 15% | 8% | 4% | 0% |

Intensities in 180° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101 | 100 | 98 | 95 | 90 | 85 | 79 | 73 | 66 | 59 | 52 | 45 | 38 | 32 | 25 | 18 | 12 | 7 | 4 | 0 |
| 100% | 99% | 97% | 94% | 90% | 84% | 78% | 72% | 65% | 59% | 52% | 45% | 38% | 31% | 25% | 18% | 12% | 7% | 4% | 0% |

Intensities in 270° c-plane

| 0° | 5° | 10° | 15° | 20° | 25° | 30° | 35° | 40° | 45° | 50° | 55° | 60° | 65° | 70° | 75° | 80° | 85° | 90° | 95° |
|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 101 | 100 | 99 | 99 | 100 | 95 | 88 | 81 | 74 | 68 | 65 | 56 | 47 | 39 | 31 | 23 | 16 | 8 | 4 | 0 |
| 100% | 99% | 98% | 98% | 99% | 94% | 87% | 80% | 73% | 68% | 65% | 55% | 46% | 39% | 31% | 23% | 15% | 8% | 4% | 0% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 109.8° | 165.9° | 244.3° | 73.5% | 50.4% |