

Light efficiency:

**53 Lumen/Watt**

Light quality:

**CRI: 96.4**

Color temperature:

**2917 K**

**Output: 1414 lm**

**Peak: 1148 cd**

**Power: 26.7 W**

**PF: 1.0**



Beam angle

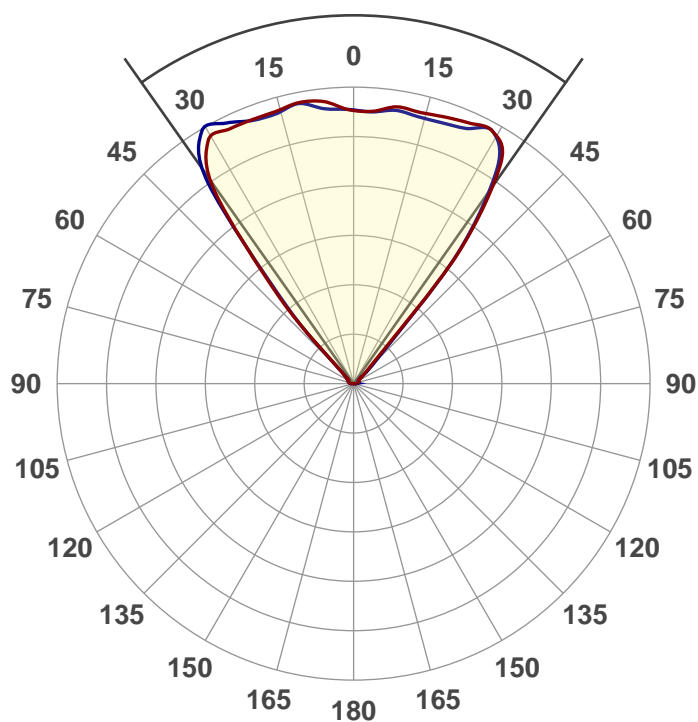
**70.3°**

Product name:

**608QA-6-XTM19-20LM-30K-98-  
UNV-DIM10-WH-S-TCRO**

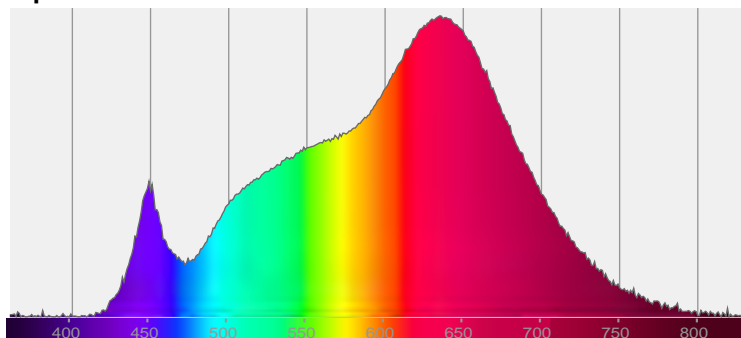
Date and time:

**1/16/2018 2:28:10 PM**

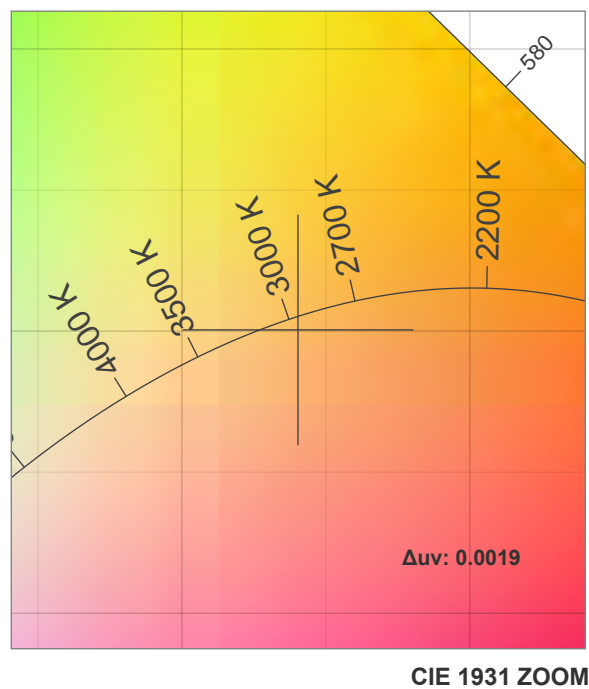
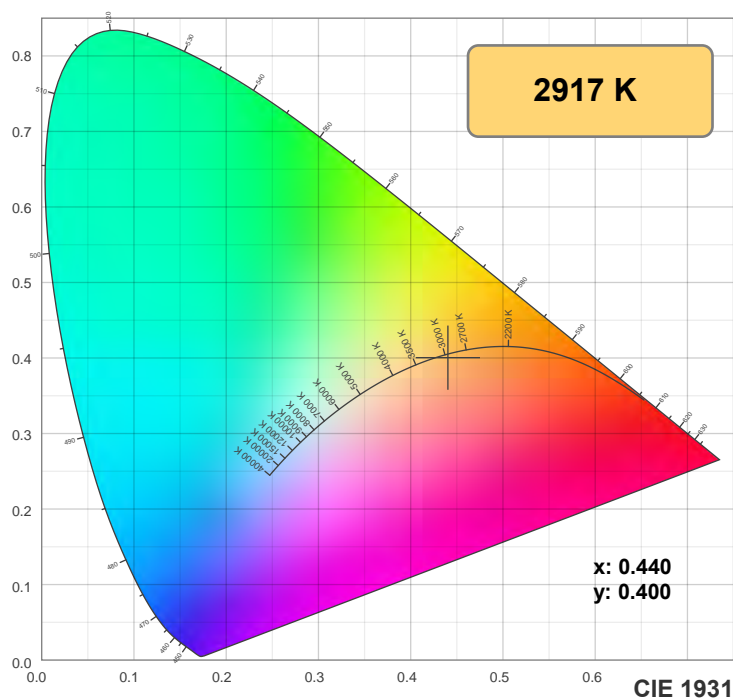


**CIE 1931  
x: 0.440  
y: 0.400**

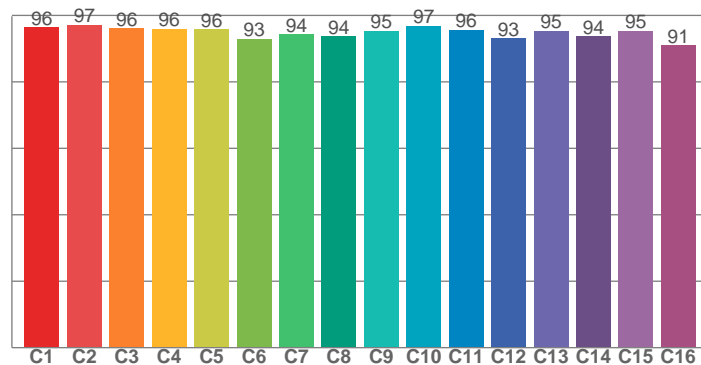
**Spectra**



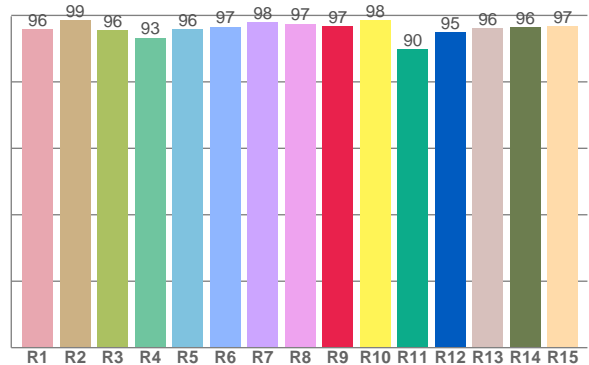
## Color details



TM30: 95.1



CRI: 96.4 (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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 95.8 | 98.6 | 95.6 | 93.2 | 95.8 | 96.6 | 97.9 | 97.5 | 96.7 | 98.5 | 89.8 | 94.9 | 96.2 | 96.5 | 96.8 |

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  |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 96.5 | 97.1 | 96.0 | 96.0 | 95.8 | 92.9 | 94.3 | 93.6 | 95.3 | 96.8 | 95.6 | 93.0 | 95.3 | 93.7 | 95.3 | 90.9 |

## Color parameters

| Color temperature | Color rendering index | Red component | Color fidelity | Color gamut | 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     | x                         | y                         | u                | v                | Δuv                             |
| 2917 K            | 96.4                  | 96.7          | 95.1           | 104.0       | 0.440                     | 0.400                     | 0.254            | 0.347            | 0.0019                          |

## TM30 details

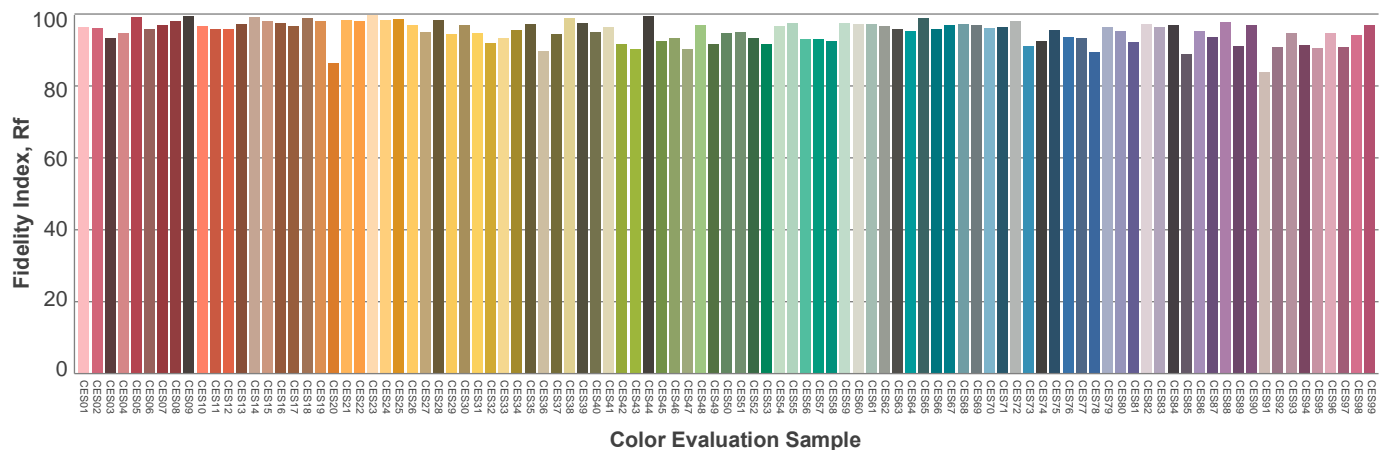
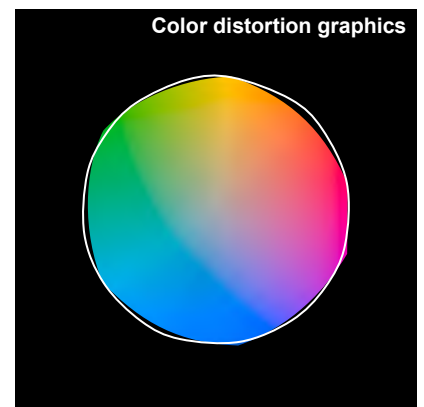
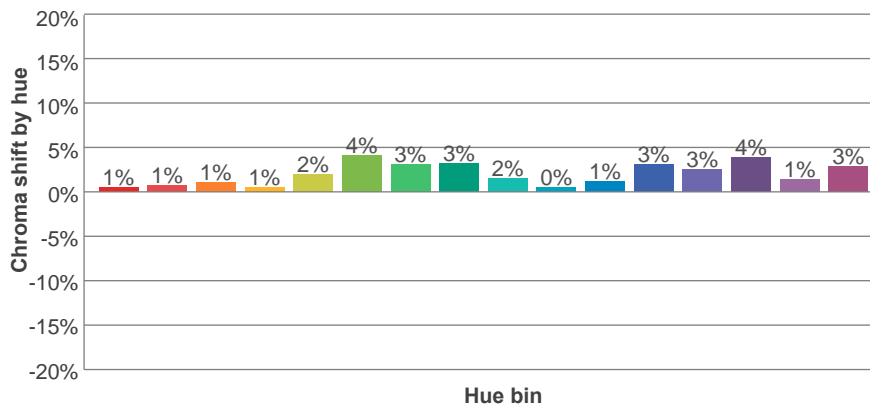
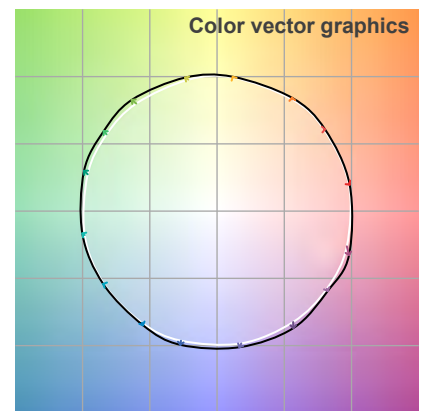
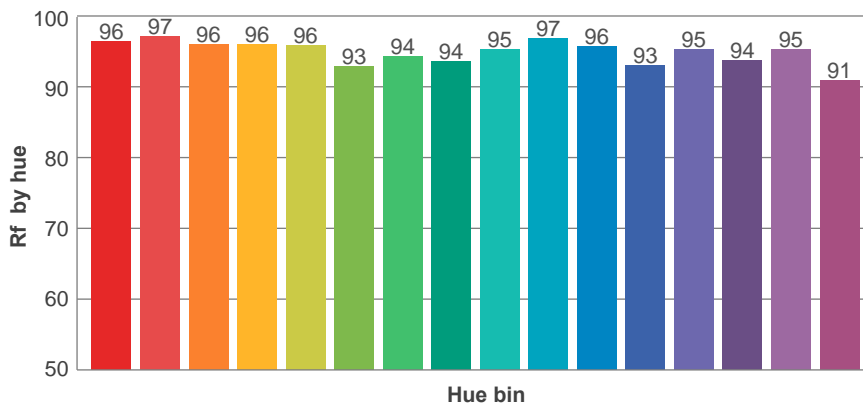
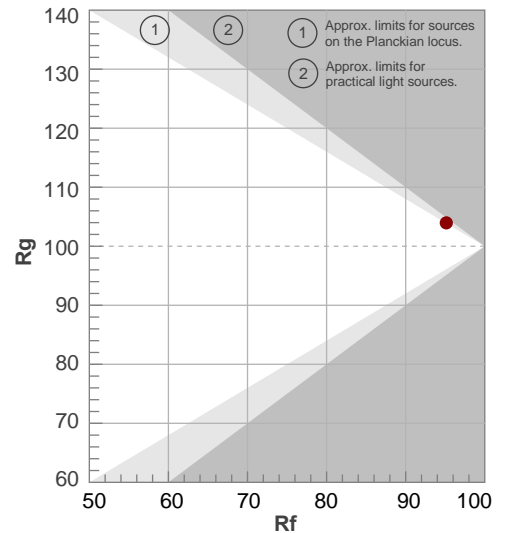
**Rf 95.1**

Fidelity index Rf

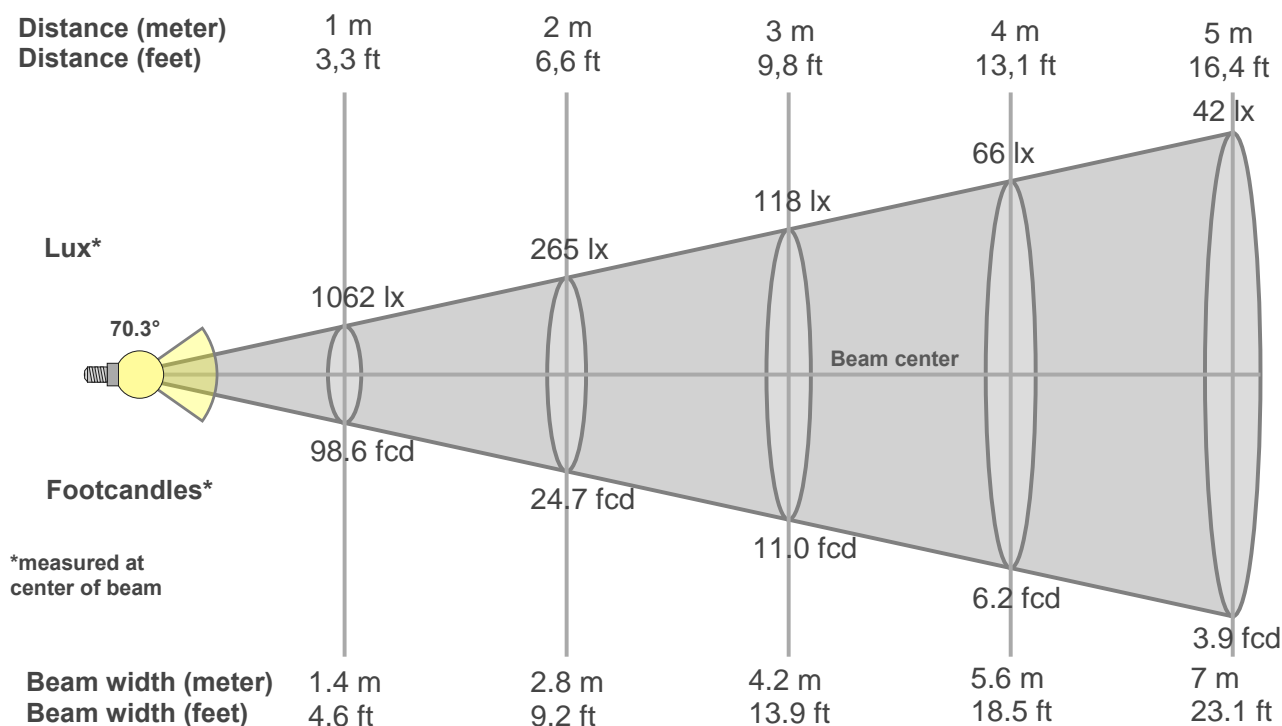
**Rg 104.0**

Gammut index Rg

| Hue Bin | Rf | Graphic shifts (%) |     |
|---------|----|--------------------|-----|
|         |    | Chroma             | Hue |
| 1       | 96 | 1%                 | -1% |
| 2       | 97 | 1%                 | 0%  |
| 3       | 96 | 1%                 | 1%  |
| 4       | 96 | 1%                 | 0%  |
| 5       | 96 | 2%                 | 2%  |
| 6       | 93 | 4%                 | 1%  |
| 7       | 94 | 3%                 | -1% |
| 8       | 94 | 3%                 | -2% |
| 9       | 95 | 2%                 | -2% |
| 10      | 97 | 0%                 | -1% |
| 11      | 96 | 1%                 | 2%  |
| 12      | 93 | 3%                 | 0%  |
| 13      | 95 | 3%                 | -2% |
| 14      | 94 | 4%                 | -2% |
| 15      | 95 | 1%                 | -1% |
| 16      | 91 | 3%                 | -6% |



## Beam details



### 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 |
| 1062lx  | 265lx   | 118lx | 66lx   | 42lx   | 29lx   | 22lx | 17lx   | 13lx   | 11lx   | 9lx    | 7lx    | 6lx    | 5lx    | 5lx    | 4lx    | 4lx    | 3lx    | 3lx    | 3lx    |
| 98.6fcd | 24.7fcd | 11fcd | 6.2fcd | 3.9fcd | 2.7fcd | 2fcd | 1.5fcd | 1.2fcd | 1fcd   | 0.8fcd | 0.7fcd | 0.6fcd | 0.5fcd | 0.4fcd | 0.4fcd | 0.3fcd | 0.3fcd | 0.3fcd | 0.2fcd |

### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 1062 | 1070 | 1085 | 1100 | 1104 | 1108 | 1108 | 1102 | 1097 | 1097 | 1097 | 1097 | 1098 | 1098 | 1098 | 1098 | 1058 | 986 | 906 | 708 |
| 100% | 101% | 102% | 104% | 104% | 104% | 104% | 104% | 103% | 103% | 103% | 103% | 103% | 103% | 103% | 103% | 100% | 93% | 85% | 67% |

### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 1062 | 1065 | 1068 | 1072 | 1085 | 1099 | 1103 | 1096 | 1089 | 1090 | 1092 | 1099 | 1112 | 1124 | 1132 | 1139 | 1106 | 1032 | 956 | 726 |
| 100% | 100% | 101% | 101% | 102% | 104% | 104% | 103% | 103% | 103% | 103% | 104% | 105% | 106% | 107% | 107% | 104% | 97%  | 90% | 68% |

### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|
| 1062 | 1060 | 1059 | 1070 | 1081 | 1085 | 1084 | 1083 | 1087 | 1091 | 1095 | 1100 | 1105 | 1110 | 1115 | 1095 | 1059 | 1008 | 854 | 701 |
| 100% | 100% | 100% | 101% | 102% | 102% | 102% | 102% | 102% | 103% | 103% | 104% | 104% | 105% | 105% | 103% | 100% | 95%  | 80% | 66% |

### 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° |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|
| 1062 | 1059 | 1056 | 1063 | 1069 | 1070 | 1067 | 1065 | 1066 | 1067 | 1071 | 1076 | 1083 | 1098 | 1113 | 1088 | 1043 | 981 | 836 | 690 |
| 100% | 100% | 100% | 100% | 101% | 101% | 101% | 100% | 100% | 101% | 101% | 101% | 102% | 103% | 105% | 103% | 98%  | 92% | 79% | 65% |

| Beam angle 50% | Field angle 10% | Cutoff angle 2,5% | Intensity ratio in 120° cone | Intensity ratio in 90° cone |
|----------------|-----------------|-------------------|------------------------------|-----------------------------|
| 70.3°          | 82.4°           | 120.4°            | 96.0%                        | 92.3%                       |