

## CONVERJ 2x4



T5/T5HO, T8 ARCHITECTURAL RECESSED LUMINAIRE

50' x 50'

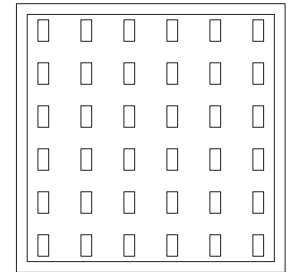
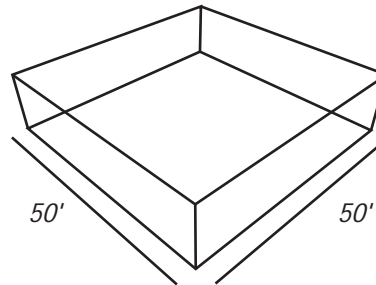
8' x 8' OC Spacing

### ROOM PARAMETERS

Reflectances: ceiling - 80%  
walls - 50%  
floor - 20%

Light Loss Factor: T5/T5HO 0.81  
T8 0.71

Ballast Factor, Lamp Lumen Depreciation & Luminaire Dirt Depreciation

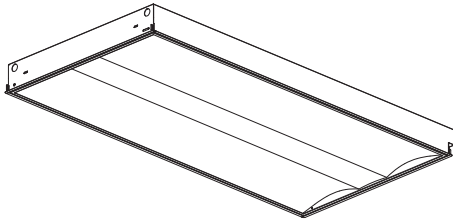


Open Space  
Calculation area: 46' x 46'

### Workplane (2'-6") Illuminance Calculation

|                             |     | 1T5 28w        | 1T5HO 54w | 1T8 32w | 2T5 28w | 2T5HO 54w | 2T8 32w   | 3T5 28w | 3T5HO 54w | 3T8 32w    |           |
|-----------------------------|-----|----------------|-----------|---------|---------|-----------|-----------|---------|-----------|------------|-----------|
| Ceiling Height              | 8'  | Average:       | 33.1 fc   | 56.9 fc | 28.3 fc | 65.2 fc   | 112.1 fc  | 55.2 fc | 95.6 fc   | 160.9 fc   | 75.5 fc   |
|                             |     | Maximum:       | 41.0 fc   | 71.0 fc | 35.0 fc | 81.0 fc   | 140.0 fc  | 69.0 fc | 116.0 fc  | 202.0 fc   | 95.0 fc   |
|                             |     | Minimum:       | 23.0 fc   | 39.0 fc | 19.0 fc | * 45.0 fc | * 78.0 fc | 38.0 fc | * 65.0 fc | * 112.0 fc | * 52.0 fc |
|                             |     | Avg/Min Ratio: | 1.44      | 1.46    | 1.49    | 1.45      | 1.44      | 1.45    | 1.44      | 1.44       | 1.45      |
|                             | 9'  | Average:       | 32.2 fc   | 55.4 fc | 27.6 fc | 63.3 fc   | 109.1 fc  | 53.7 fc | 90.8 fc   | 156.4 fc   | 73.6 fc   |
|                             |     | Maximum:       | 37.7 fc   | 65.0 fc | 32.0 fc | 73.4 fc   | 126.0 fc  | 62.0 fc | 105.0 fc  | 182.0 fc   | 85.0 fc   |
|                             |     | Minimum:       | 20.4 fc   | 35.0 fc | 18.0 fc | * 40.6 fc | * 70.0 fc | 35.0 fc | * 58.3 fc | * 101.0 fc | * 48.0 fc |
|                             |     | Avg/Min Ratio: | 1.58      | 1.58    | 1.53    | 1.56      | 1.56      | 1.54    | 1.56      | 1.55       | 1.53      |
|                             | 10' | Average:       | 31.3 fc   | 54.0 fc | 26.9 fc | 61.5 fc   | 106.1 fc  | 52.3 fc | 88.4 fc   | 152.2 fc   | 71.7 fc   |
|                             |     | Maximum:       | 36.6 fc   | 63.0 fc | 31.0 fc | 71.6 fc   | 124.0 fc  | 61.0 fc | 103.0 fc  | 177.0 fc   | 83.0 fc   |
|                             |     | Minimum:       | 19.0 fc   | 33.0 fc | 16.0 fc | * 37.5 fc | * 65.0 fc | 32.0 fc | * 54.0 fc | * 93.0 fc  | * 44.0 fc |
|                             |     | Avg/Min Ratio: | 1.65      | 1.63    | 1.68    | 1.64      | 1.63      | 1.63    | 1.64      | 1.64       | 1.63      |
| Lighting Power Density WPSF |     | .461           | .893      | .432    | .936    | 1.742     | .850      | 1.397   | 2.635     | 1.253      |           |

NOTES: \* This application is not recommended  
Partitions will reduce light levels up to 25%



## CONVERJ 2x4



T5/T5HO, T8 ARCHITECTURAL RECESSED LUMINAIRE

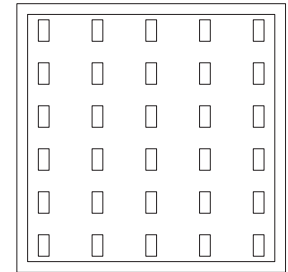
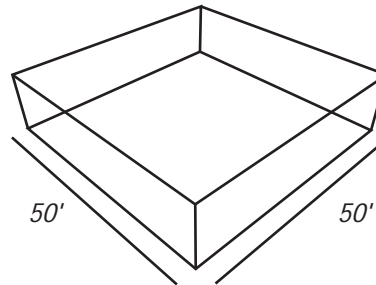
50' x 50'      8' x 10' OC Spacing

### ROOM PARAMETERS

Reflectances:    ceiling    - 80%  
                      walls        - 50%  
                      floor       - 20%

Light Loss Factor:    T5/T5HO    0.81  
                              T8            0.71

Ballast Factor, Lamp Lumen Depreciation & Luminaire Dirt Depreciation

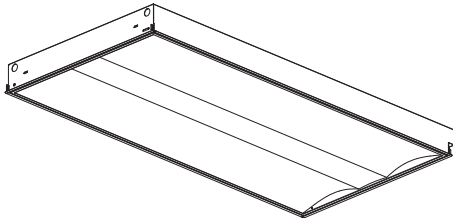


Open Space  
Calculation area: 46' x 46'

### Workplane (2'-6") Illuminance Calculation

|                             |     | 1T5 28w        | 1T5HO 54w | 1T8 32w | 2T5 28w | 2T5HO 54w | 2T8 32w   | 3T5 28w | 3T5HO 54w | 3T8 32w   |           |
|-----------------------------|-----|----------------|-----------|---------|---------|-----------|-----------|---------|-----------|-----------|-----------|
| Ceiling Height              | 8'  | Average:       | 27.3 fc   | 47.1 fc | 23.4 fc | 54.0 fc   | 92.8 fc   | 45.6 fc | 77.4 fc   | 133.1 fc  | 62.5 fc   |
|                             |     | Maximum:       | 37.0 fc   | 64.0 fc | 32.0 fc | 73.0 fc   | 127.0 fc  | 62.0 fc | 106.0 fc  | 183.0 fc  | 86.0 fc   |
|                             |     | Minimum:       | 19.0 fc   | 32.0 fc | 16.0 fc | 37.0 fc   | * 63.0 fc | 31.0 fc | * 52.0 fc | * 90.0 fc | * 41.0 fc |
|                             |     | Avg/Min Ratio: | 1.44      | 1.47    | 1.46    | 1.46      | 1.47      | 1.47    | 1.49      | 1.48      | 1.52      |
|                             | 9'  | Average:       | 26.5 fc   | 45.7 fc | 22.7 fc | 52.3 fc   | 90.1 fc   | 44.4 fc | 75.0 fc   | 129.2 fc  | 60.8 fc   |
|                             |     | Maximum:       | 32.4 fc   | 56.0 fc | 27.0 fc | 63.4 fc   | 110.0 fc  | 54.0 fc | 91.4 fc   | 158.0 fc  | 75.0 fc   |
|                             |     | Minimum:       | 19.2 fc   | 33.0 fc | 16.0 fc | 38.2 fc   | * 66.0 fc | 33.0 fc | * 54.9 fc | * 95.0 fc | * 44.0 fc |
|                             |     | Avg/Min Ratio: | 1.38      | 1.39    | 1.42    | 1.37      | 1.37      | 1.35    | 1.37      | 1.36      | 1.38      |
|                             | 10' | Average:       | 25.8 fc   | 44.5 fc | 22.1 fc | 50.8 fc   | 85.6 fc   | 43.1 fc | 72.9 fc   | 125.6 fc  | 59.1 fc   |
|                             |     | Maximum:       | 29.7 fc   | 51.0 fc | 25.0 fc | 58.3 fc   | 101.0 fc  | 49.0 fc | 83.8 fc   | 145.0 fc  | 68.0 fc   |
|                             |     | Minimum:       | 17.5 fc   | 30.0 fc | 15.0 fc | 34.7 fc   | * 60.0 fc | 30.0 fc | * 49.9 fc | * 86.0 fc | 41.0 fc   |
|                             |     | Avg/Min Ratio: | 1.48      | 1.48    | 1.48    | 1.46      | 1.46      | 1.44    | 1.46      | 1.46      | 1.44      |
| Lighting Power Density WPSF |     | .384           | .744      | .360    | .780    | 1.452     | .708      | 1.164   | 2.196     | 1.044     |           |

NOTES: \* This application is not recommended  
Partitions will reduce light levels up to 25%



## CONVERJ 2x4



T5/T5HO, T8 ARCHITECTURAL RECESSED LUMINAIRE

10' x 12'

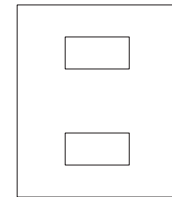
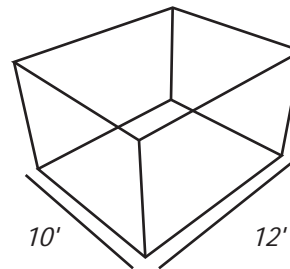
6' OC Spacing

### ROOM PARAMETERS

Reflectances: ceiling - 80%  
walls - 50%  
floor - 20%

Light Loss Factor: T5/T5HO 0.81  
T8 0.71

Ballast Factor, Lamp Lumen Depreciation & Luminaire Dirt Depreciation



Open Space  
Calculation area: 10' x 12'

### Workplane (2'-6") Illuminance Calculation

|                             |     | 1T5 28w        | 1T5HO 54w | 1T8 32w | 2T5 28w | 2T5HO 54w | 2T8 32w    | 3T5 28w | 3T5HO 54w | 3T8 32w    |         |
|-----------------------------|-----|----------------|-----------|---------|---------|-----------|------------|---------|-----------|------------|---------|
| Ceiling Height              | 8'  | Average:       | 24.5 fc   | 42.4 fc | 21.2 fc | 48.9 fc   | 84.6 fc    | 41.7 fc | 70.5 fc   | 121.2 fc   | 57.1 fc |
|                             |     | Maximum:       | 35.0 fc   | 60.0 fc | 30.0 fc | 70.0 fc   | 120.0 fc   | 59.0 fc | 100.0 fc  | 172.0 fc   | 81.0 fc |
|                             |     | Minimum:       | 16.0 fc   | 28.0 fc | 14.0 fc | 32.0 fc   | * 56.0 fc  | 27.0 fc | * 46.0 fc | * 80.0 fc  | 37.0 fc |
|                             |     | Avg/Min Ratio: | 1.53      | 1.51    | 1.51    | 1.53      | 1.51       | 1.54    | 1.53      | 1.52       | 1.54    |
|                             | 9'  | Average:       | 22.0 fc   | 38.3 fc | 18.9 fc | 43.9 fc   | 75.5 fc    | 37.5 fc | 62.9 fc   | 108.5 fc   | 51.3 fc |
|                             |     | Maximum:       | 30.0 fc   | 52.0 fc | 26.0 fc | 60.0 fc   | * 103.0 fc | 51.0 fc | * 86.0 fc | * 148.0 fc | 70.0 fc |
|                             |     | Minimum:       | 15.0 fc   | 27.0 fc | 13.0 fc | 31.0 fc   | * 53.0 fc  | 26.0 fc | * 44.0 fc | * 76.0 fc  | 36.0 fc |
|                             |     | Avg/Min Ratio: | 1.47      | 1.42    | 1.46    | 1.42      | 1.42       | 1.44    | 1.43      | 1.43       | 1.43    |
|                             | 10' | Average:       | 19.6 fc   | 34.2 fc | 16.7 fc | 39.2 fc   | 67.7 fc    | 33.3 fc | 56.4 fc   | 97.1 fc    | 46.0 fc |
|                             |     | Maximum:       | 26.0 fc   | 45.0 fc | 22.0 fc | 88.0 fc   | * 88.0 fc  | 44.0 fc | 74.0 fc   | * 127.0 fc | 60.0 fc |
|                             |     | Minimum:       | 14.0 fc   | 25.0 fc | 12.0 fc | 50.0 fc   | * 50.0 fc  | 24.0 fc | 41.0 fc   | * 71.0 fc  | 34.0 fc |
|                             |     | Avg/Min Ratio: | 1.40      | 1.37    | 1.39    | 1.35      | 1.35       | 1.39    | 1.38      | 1.37       | 1.35    |
| Lighting Power Density WPSF |     | .533           | 1.033     | .500    | 1.083   | 2.017     | .983       | 3.050   | .814      | 1.450      |         |

NOTES: \* This application is not recommended  
Partitions will reduce light levels up to 25%

CTA Revision 1.0