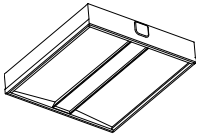


Lighting Applications

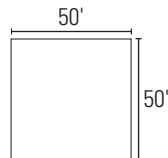
Recessed
Lighting Applications
Vectra 2'x2'

Vectra 2'x2'



Room

Length/Width



Notes

Work Plane

Height 2'6"

Reflectances

Ceiling 80%
Walls 50%
Floor 20%

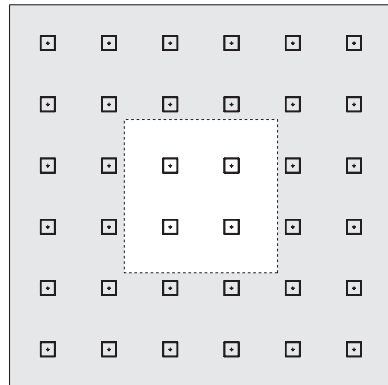
Ceiling Height (circle) **8'** **8.5'** **9'** **9.5'** **10'**

1 TT5 40W



8'x8' on Center

0.55 w/ft²



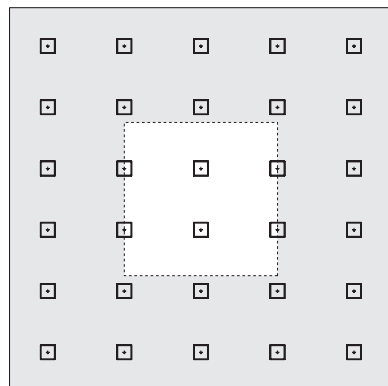
Average Illuminance, fc	37.3	37.3	37.3	37.2	37.0
Max/Min Ratio	1.4:1	1.2:1	1.2:1	1.2:1	1.1:1
Maximum, fc	43.4	41.2	40.4	40.4	40.0
Minimum, fc	31.4	33.4	34.9	35.0	35.0

Calculation Files 60221S01-8 60221S01-85 60221S01-9 60221S01-95 60221S01-10

Calculation Grid 20'x20'
Light Loss Factor* 0.86

8'x10' on Center

0.46 w/ft²



Average Illuminance, fc	30.5	30.3	30.2	30.0	29.8
Max/Min Ratio	1.7:1	1.4:1	1.3:1	1.2:1	1.1:1
Maximum, fc	39.0	35.9	33.7	32.2	31.1
Minimum, fc	23.5	25.1	26.5	27.6	28.5

Calculation File 60221S02-8 60221S02-85 60221S02-9 60221S02-95 60221S02-10

Calculation Grid 20'x20'
Light Loss Factor* 0.86

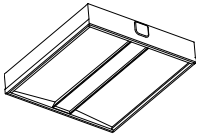
Notes

1. Lighting Power Density (w/ft²) calculated using the actual measured input watts to the fixture during photometric testing. Certain ballast variations may produce different results.
 2. These calculations were performed without the inclusion of partitions. Subject to their height and reflectance values, the use of partitions will reduce horizontal illuminance by approximately 10-25%.
- * Light Loss Factor (LLF) is comprised of a ballast factor, lamp lumen depreciation, and luminaire dirt depreciation.

Lighting Applications

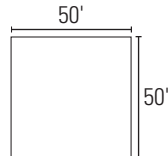
Recessed
Lighting Applications
Vectra 2'x2'

Vectra 2'x2'



Room

Length/Width



Notes

Work Plane

Height 2'6"

Reflectances

Ceiling 80%
Walls 50%
Floor 20%

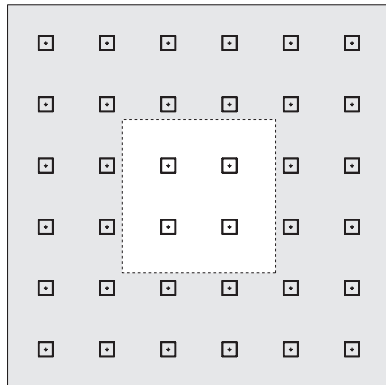
Ceiling Height (circle) **8'** **8.5'** **9'** **9.5'** **10'**

1 TT5 55W



8'x8' on Center

0.79 w/ft²



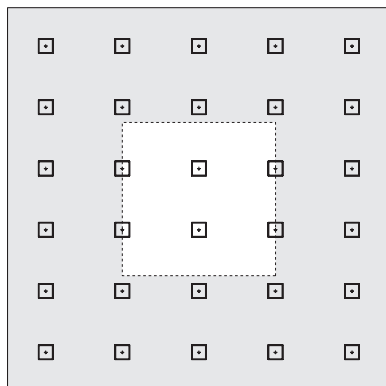
Average Illuminance, fc	52.3	52.3	52.3	52.1	51.9
Max/Min Ratio	1.4:1	1.2:1	1.2:1	1.2:1	1.1:1
Maximum, fc	60.5	57.3	56.3	56.3	55.9
Minimum, fc	44.4	47.2	49.1	49.1	49.0

Calculation File 60221S04-8 60221S04-85 60221S04-9 60221S04-95 60221S04-10

Calculation Grid 20'x20'
Light Loss Factor* 0.77
Calculated using Philips lamp.

8'x10' on Center

0.66 w/ft²



Average Illuminance, fc	42.7	42.5	42.3	42.0	41.8
Max/Min Ratio	1.6:1	1.4:1	1.3:1	1.2:1	1.1:1
Maximum, fc	54.3	50.0	47.0	44.8	43.4
Minimum, fc	33.3	35.6	37.5	39.0	40.2

Calculation File 60221S05-8 60221S05-85 60221S05-9 60221S05-95 60221S05-10

Calculation Grid 20'x20'
Light Loss Factor* 0.77
Calculated using Philips lamp.

Notes

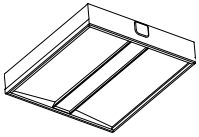
1. Lighting Power Density (w/ft²) calculated using the actual measured input watts to the fixture during photometric testing. Certain ballast variations may produce different results.
2. These calculations were performed without the inclusion of partitions. Subject to their height and reflectance values, the use of partitions will reduce horizontal illuminance by approximately 10-25%.

* Light Loss Factor (LLF) is comprised of a ballast factor, lamp lumen depreciation, and luminaire dirt depreciation.

Lighting Applications

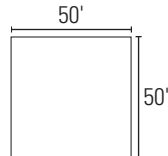
Recessed
Lighting Applications
Vectra 2'x2'

Vectra 2'x2'



Room

Length/Width



Notes

Work Plane

Height 2'6"

Reflectances

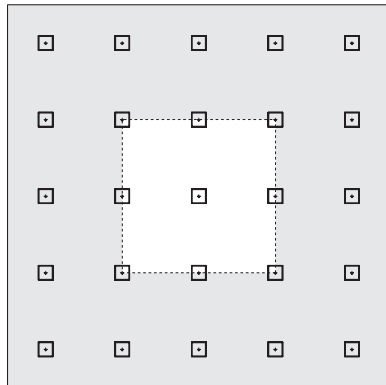
Ceiling 80%
Walls 50%
Floor 20%

Ceiling Height (circle) **8'** **8.5'** **9'** **9.5'** **10'**

1 TT5 40W



10'x10' on Center 0.38 w/ft²



Average Illuminance, fc	25.3	25.0	24.7	24.5	24.3
Max/Min Ratio	2.0:1	1.7:1	1.4:1	1.3:1	1.2:1
Maximum, fc	35.2	31.8	29.3	27.5	26.3
Minimum, fc	17.7	19.1	20.3	21.3	22.1

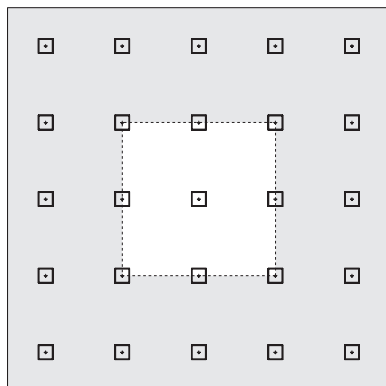
Calculation File 60221S03-8 60221S03-85 60221S03-9 60221S03-95 60221S03-10

Calculation Grid 20'x20'
Light Loss Factor* 0.86

1 TT5 55W



10'x10' on Center 0.55 w/ft²



Average Illuminance, fc	35.5	35.0	34.6	34.3	34.0
Max/Min Ratio	2.0:1	1.6:1	1.4:1	1.3:1	1.2:1
Maximum, fc	49.0	44.3	40.8	38.3	36.7
Minimum, fc	25.1	27.0	28.6	30.1	31.2

Calculation File 60221S06-8 60221S06-85 60221S06-9 60221S06-95 60221S06-10

Calculation Grid 20'x20'
Light Loss Factor* 0.77
Calculated using Philips lamp.

Notes

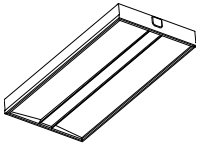
1. Lighting Power Density (w/ft²) calculated using the actual measured input watts to the fixture during photometric testing. Certain ballast variations may produce different results.
2. These calculations were performed without the inclusion of partitions. Subject to their height and reflectance values, the use of partitions will reduce horizontal illuminance by approximately 10-25%.

* Light Loss Factor (LLF) is comprised of a ballast factor, lamp lumen depreciation, and luminaire dirt depreciation.

Lighting Applications

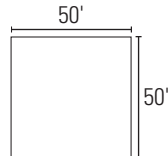
Recessed
Lighting Applications
Vectra 2'x4'

Vectra 2'x4'



Room

Length/Width



Notes

Work Plane

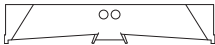
Height 2'6"

Reflectances

Ceiling 80%
Walls 50%
Floor 20%

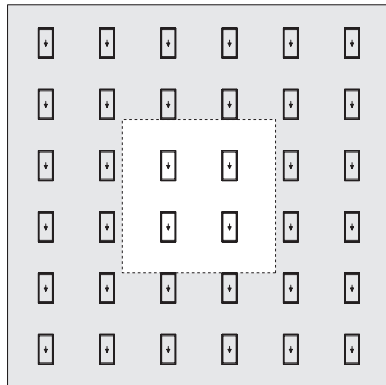
Ceiling Height (circle) **8'** **8.5'** **9'** **9.5'** **10'**

2 T8 32W



8'x8' on Center

0.86 w/ft²



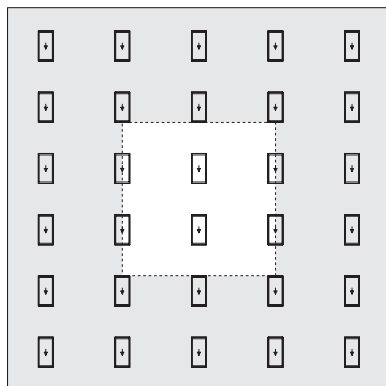
Average Illuminance, fc	57.9	58.0	57.9	57.8	57.6
Max/Min Ratio	1.4 : 1	1.3 : 1	1.2 : 1	1.1 : 1	1.1 : 1
Maximum, fc	68.7	64.9	62.7	62.0	61.7
Minimum, fc	48.6	51.8	54.2	55.0	54.7

Calculation File 40324L18-8 40324L18-85 40324L18-9 40324L18-95 40324L18

Calculation Grid 20'x20'
Light Loss Factor* 0.75

8'x10' on Center

0.72 w/ft²



Average Illuminance, fc	47.6	47.3	47.1	46.8	46.5
Max/Min Ratio	1.7 : 1	1.5 : 1	1.3 : 1	1.2 : 1	1.1 : 1
Maximum, fc	62.0	57.1	53.5	51.0	49.2
Minimum, fc	36.0	38.7	40.9	52.7	44.1

Calculation File 40324L20-8 40324L20-85 40324L20-9 40324L20-95 40324L20

Calculation Grid 20'x20'
Light Loss Factor* 0.75

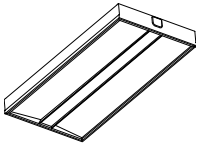
Notes

1. Lighting Power Density (w/ft²) calculated using the actual measured input watts to the fixture during photometric testing. Certain ballast variations may produce different results.
 2. These calculations were performed without the inclusion of partitions. Subject to their height and reflectance values, the use of partitions will reduce horizontal illuminance by approximately 10-25%.
- * Light Loss Factor (LLF) is comprised of a ballast factor, lamp lumen depreciation, and luminaire dirt depreciation.

Lighting Applications

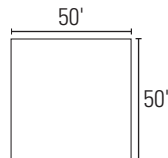
Recessed
Lighting Applications
Vectra 2'x4'

Vectra 2'x4'



Room

Length/Width



Notes

Work Plane

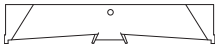
Height 2'6"

Reflectances

Ceiling 80%
Walls 50%
Floor 20%

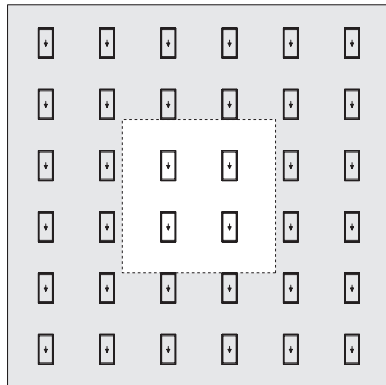
Ceiling Height (circle) **8'** **8.5'** **9'** **9.5'** **10'**

1 T5HO 54W



8'x8' on Center

0.89 w/ft²



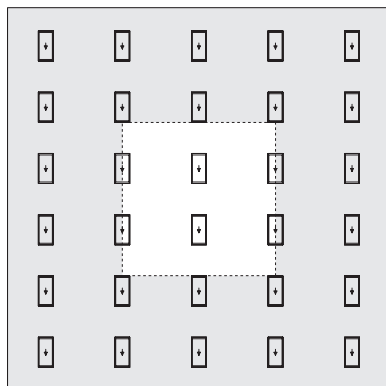
Average Illuminance, fc	58.3	58.4	58.4	58.3	58.1
Max/Min Ratio	1.4 : 1	1.2 : 1	1.2 : 1	1.2 : 1	1.2 : 1
Maximum, fc	68.3	65.0	63.6	63.8	63.4
Minimum, fc	49.2	52.7	54.5	54.3	54.0

Calculation File 40324L19-8 40324L19-85 40324L19-9 40324L19-95 40324L19

Calculation Grid 20'x20'
Light Loss Factor* 0.86

8'x10' on Center

0.74 w/ft²



Average Illuminance, fc	47.7	47.4	47.2	46.9	46.7
Max/Min Ratio	1.7 : 1	1.4 : 1	1.3 : 1	1.2 : 1	1.1 : 1
Maximum, fc	59.8	55.5	52.5	50.3	48.8
Minimum, fc	36.3	39.2	41.6	43.5	44.9

Calculation File 40324L21-8 40324L21-85 40324L21-9 40324L21-95 40324L21

Calculation Grid 20'x20'
Light Loss Factor* 0.86

Notes

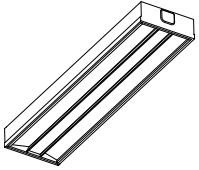
1. Lighting Power Density (w/ft²) calculated using the actual measured input watts to the fixture during photometric testing. Certain ballast variations may produce different results.
2. These calculations were performed without the inclusion of partitions. Subject to their height and reflectance values, the use of partitions will reduce horizontal illuminance by approximately 10-25%.

* Light Loss Factor (LLF) is comprised of a ballast factor, lamp lumen depreciation, and luminaire dirt depreciation.

Lighting Applications

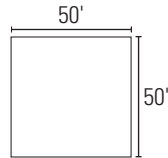
Recessed
Lighting Applications
Vectra 1'x4'

Vectra 1'x4'



Room

Length/Width



Notes

Work Plane

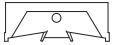
Height 2'6"

Reflectances

Ceiling 80%
Walls 50%
Floor 20%

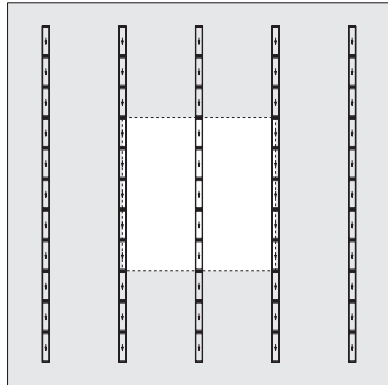
Ceiling Height (circle) **8'** **8.5'** **9'** **9.5'** **10'**

1 T8 32W



10' on Center

0.81 w/ft²



Average Illuminance, fc	44.4	43.8	43.4	42.9	42.6
Max/Min Ratio	1.8:1	1.6:1	1.4:1	1.3:1	1.2:1
Maximum, fc	56.7	52.5	49.7	47.6	45.9
Minimum, fc	31.2	33.4	35.4	36.9	38.1

Calculation File 51020SV05_8 51020SV05_85 51020SV05_9 51020SV05_95 51020SV05_10

Calculation Grid 20'x20'
Light Loss Factor* 0.86

Notes

1. Lighting Power Density (w/ft²) calculated using the actual measured input watts to the fixture during photometric testing. Certain ballast variations may produce different results.
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