

Výrobní a skladová hala - statistický výpočet denního osvětlení - Solatube® SkyVault M74 DS

| Výrobní hala A - 300lux | | | |
|-------------------------|-----------------------------------|------------------------|---|
| Požadovaná úspora | Počet hodin denního světla za rok | Počet uspořených hodin | Počet potřebných jednotek Solatube® M74DS |
| 1/4 roku | 4396 | 1100 | 96 (24x4) |
| 1/3 roku | 4396 | 1478 | 128 (32x4) |
| 1/2 roku | 4396 | 2178 | 248 (31x8) |

| Skladová hala B+C+D - 200lux | | | |
|------------------------------|-----------------------------------|------------------------|---|
| Požadovaná úspora | Počet hodin denního světla za rok | Počet uspořených hodin | Počet potřebných jednotek Solatube® M74DS |
| 1/4 roku | 4396 | 1198 | 120 (20x6) |
| 1/3 roku | 4396 | 1508 | 156 (26x6) |
| 1/2 roku | 4396 | 2172 | 444 (74x6) |





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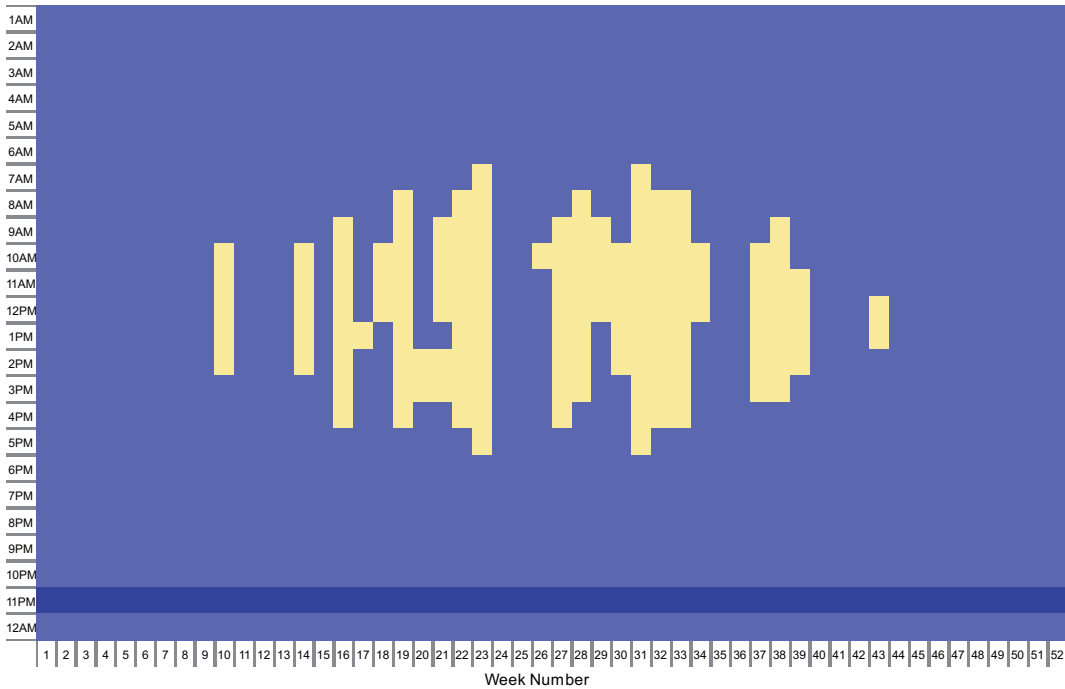
Project: VÃ½robnÃ½ hala 1CSC

Analysis Parameters

| | |
|-----------------------|---|
| Solution: | SM74DSOC DP A L2 |
| IES File Name: | SM74DSOC_DP_A_L2_CLD50.ies |
| Tube Length: | 2.0m |
| Number of Elbows: | 0 |
| Location: | Czech Republic - Ostrava |
| Occupancy Schedule: | 1CSC |
| Room Dimensions: | 140.0m W x 25.0m L x 14.0m H |
| Surface Reflectances: | Light Industrial - 50% Ceiling - 30% Walls - 10% Floors |
| Minimum Design Time: | 21 December at 11:00 |

Annual Performance

| | |
|------------------------------------|---|
| Design Time: | 21 December at 11:00 |
| Design Time Conditions: | 15° Solar Altitude, 100% cloud cover |
| Design Time Workplane Illuminance: | 31 lux |
| Unit Count: | 96 units |
| Output Lumens: | 1414 lumens |
| Annual Exceeded Hours: | 2672 hours over 75.0 lux 1948 hours over 150.0 lux 1100 hours over 300 lux 505 hours over 450.0 lux 224 hours over 600 lux |
| Annual Exceeded Percent: | Exceeds 300 lux for 0% of 365 occupied hours Exceeds 300 lux for 25% of 4396 daylight hours Exceeds 300 lux for 13% of all 8760 hours |



- Unoccupied, light level will exceed 300 lux
- Occupied, light level will exceed 300 lux
- Unoccupied, light level will not exceed 300 lux
- Occupied, light level will not exceed 300 lux



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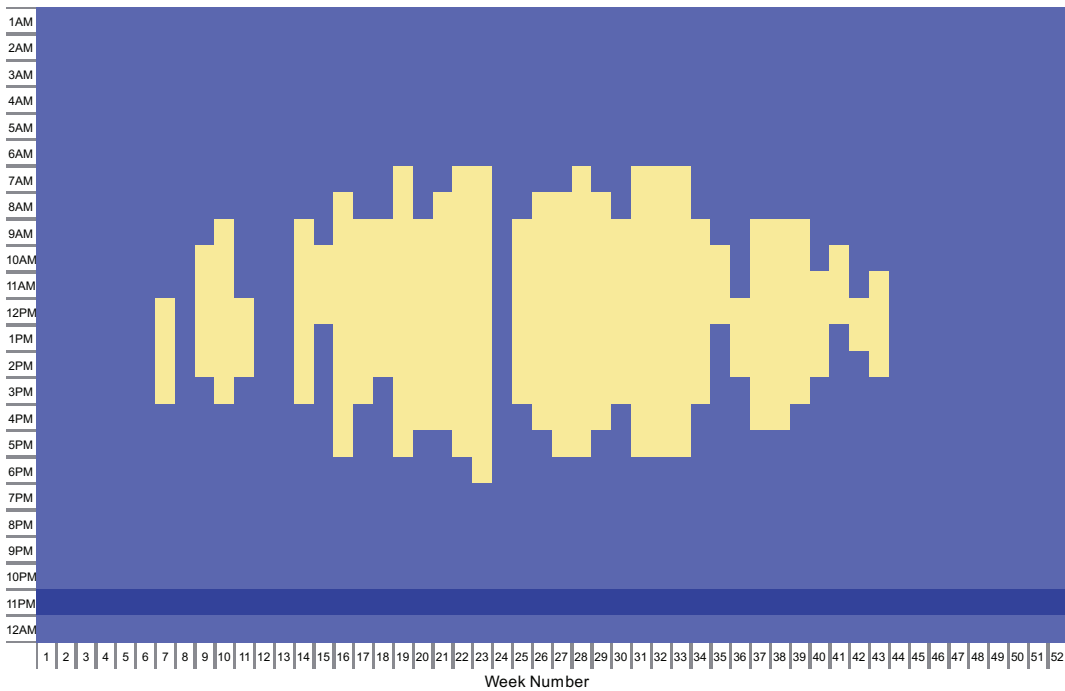
Project: VÃ½robnÃ½ hala 1CSC

Analysis Parameters

| | |
|-----------------------|---|
| Solution: | SM74DSOC DP A L2 |
| IES File Name: | SM74DSOC_DP_A_L2_CLD50.ies |
| Tube Length: | 2.0m |
| Number of Elbows: | 0 |
| Location: | Czech Republic - Ostrava |
| Occupancy Schedule: | 1CSC |
| Room Dimensions: | 140.0m W x 25.0m L x 14.0m H |
| Surface Reflectances: | Light Industrial - 50% Ceiling - 30% Walls - 10% Floors |
| Minimum Design Time: | 30 August at 12:00 |

Annual Performance

| | |
|------------------------------------|---|
| Design Time: | 30 August at 12:00 |
| Design Time Conditions: | 49° Solar Altitude, 80% cloud cover |
| Design Time Workplane Illuminance: | 306 lux |
| Unit Count: | 128 units |
| Output Lumens: | 10553 lumens |
| Annual Exceeded Hours: | 2955 hours over 75.0 lux 2213 hours over 150.0 lux 1478 hours over 300 lux 896 hours over 450.0 lux 505 hours over 600 lux |
| Annual Exceeded Percent: | Exceeds 300 lux for 0% of 365 occupied hours Exceeds 300 lux for 34% of 4396 daylight hours Exceeds 300 lux for 17% of all 8760 hours |



- Unoccupied, light level will exceed 300 lux
- Occupied, light level will exceed 300 lux
- Unoccupied, light level will not exceed 300 lux
- Occupied, light level will not exceed 300 lux



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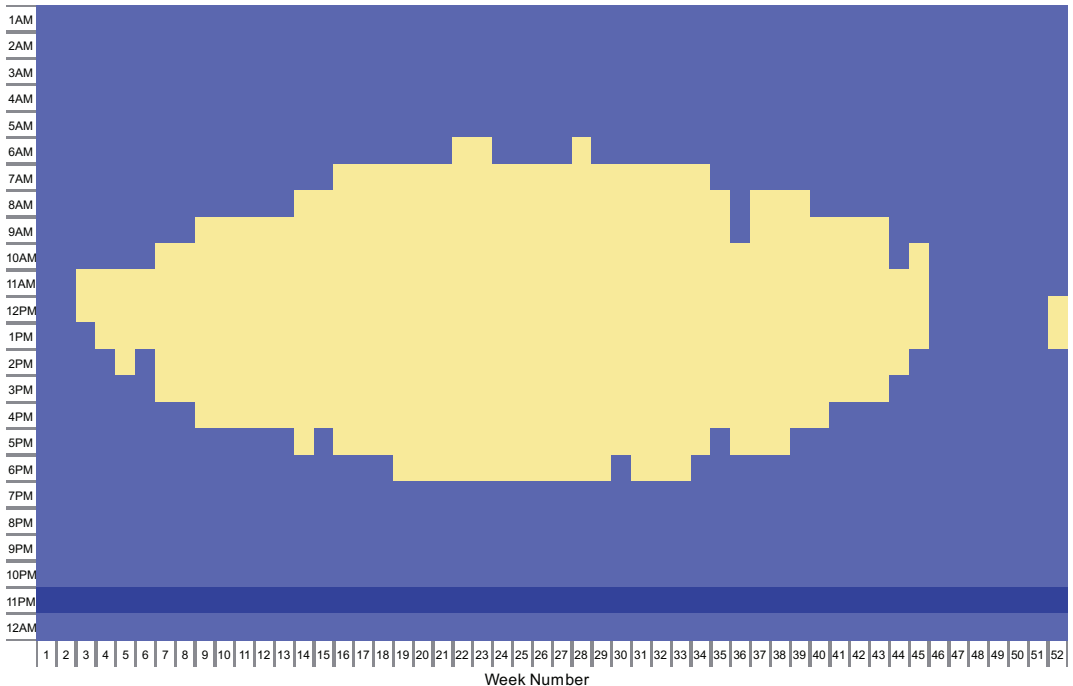
Project: VÃ½robnÃ½ hala 1CSC

Analysis Parameters

| | |
|-----------------------|---|
| Solution: | SM74DSOC DP A L2 |
| IES File Name: | SM74DSOC_DP_A_L2_CLD50.ies |
| Tube Length: | 2.0m |
| Number of Elbows: | 0 |
| Location: | Czech Republic - Ostrava |
| Occupancy Schedule: | 1CSC |
| Room Dimensions: | 140.0m W x 25.0m L x 14.0m H |
| Surface Reflectances: | Light Industrial - 50% Ceiling - 30% Walls - 10% Floors |
| Minimum Design Time: | 30 August at 12:00 |

Annual Performance

| | |
|------------------------------------|---|
| Design Time: | 30 August at 12:00 |
| Design Time Conditions: | 49° Solar Altitude, 80% cloud cover |
| Design Time Workplane Illuminance: | 594 lux |
| Unit Count: | 248 units |
| Output Lumens: | 10553 lumens |
| Annual Exceeded Hours: | 3579 hours over 75.0 lux 2929 hours over 150.0 lux 2187 hours over 300 lux 1737 hours over 450.0 lux 1435 hours over 600 lux |
| Annual Exceeded Percent: | Exceeds 300 lux for 0% of 365 occupied hours Exceeds 300 lux for 50% of 4396 daylight hours Exceeds 300 lux for 25% of all 8760 hours |



- Unoccupied, light level will exceed 300 lux
- Occupied, light level will exceed 300 lux
- Unoccupied, light level will not exceed 300 lux
- Occupied, light level will not exceed 300 lux



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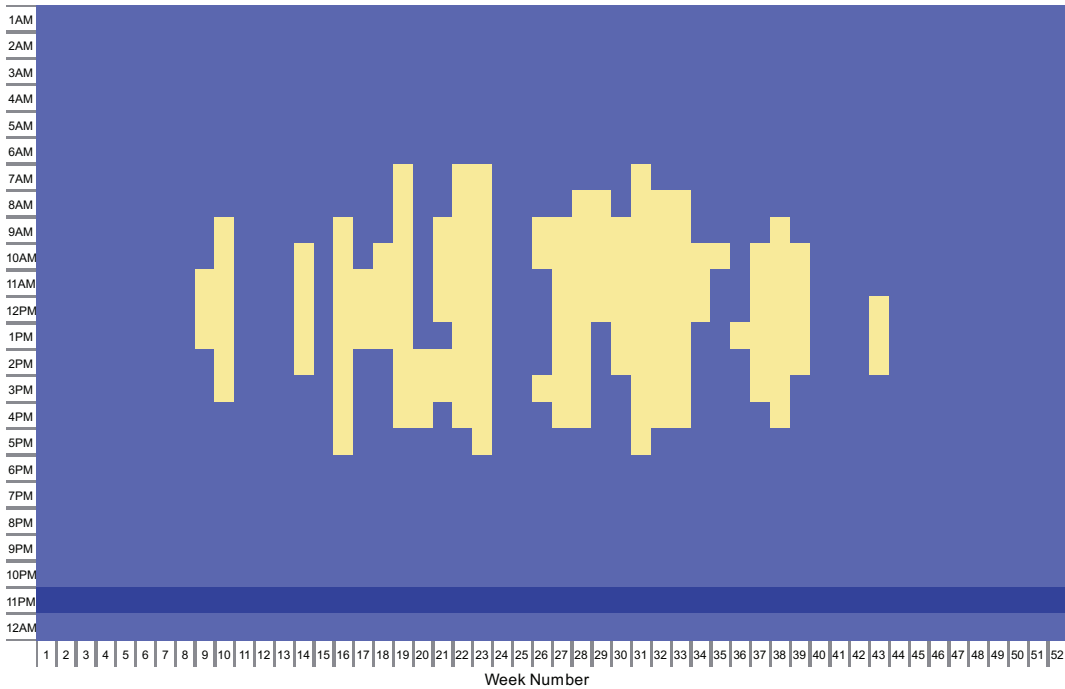
Project: VÃ½robnÃ½ hala 1CSC - skladovÃ½ haly B+C+D

Analysis Parameters

| | |
|-----------------------|---|
| Solution: | SM74DSOC DP A L2 |
| IES File Name: | SM74DSOC_DP_A_L2_CLR20.ies |
| Tube Length: | 2.0m |
| Number of Elbows: | 0 |
| Location: | Czech Republic - Ostrava |
| Occupancy Schedule: | 1CSC |
| Room Dimensions: | 145.0m W x 55.0m L x 13.5m H |
| Surface Reflectances: | Light Industrial - 50% Ceiling - 30% Walls - 10% Floors |
| Minimum Design Time: | 3 March at 10:00 |

Annual Performance

| | |
|------------------------------------|---|
| Design Time: | 3 March at 10:00 |
| Design Time Conditions: | 25° Solar Altitude, 40% cloud cover |
| Design Time Workplane Illuminance: | 210 lux |
| Unit Count: | 126 units |
| Output Lumens: | 14141 lumens |
| Annual Exceeded Hours: | 2742 hours over 50.0 lux 2026 hours over 100.0 lux 1198 hours over 200 lux 640 hours over 300.0 lux 297 hours over 400 lux |
| Annual Exceeded Percent: | Exceeds 200 lux for 0% of 365 occupied hours Exceeds 200 lux for 27% of 4396 daylight hours Exceeds 200 lux for 14% of all 8760 hours |



- Unoccupied, light level will exceed 200 lux
- Occupied, light level will exceed 200 lux
- Unoccupied, light level will not exceed 200 lux
- Occupied, light level will not exceed 200 lux



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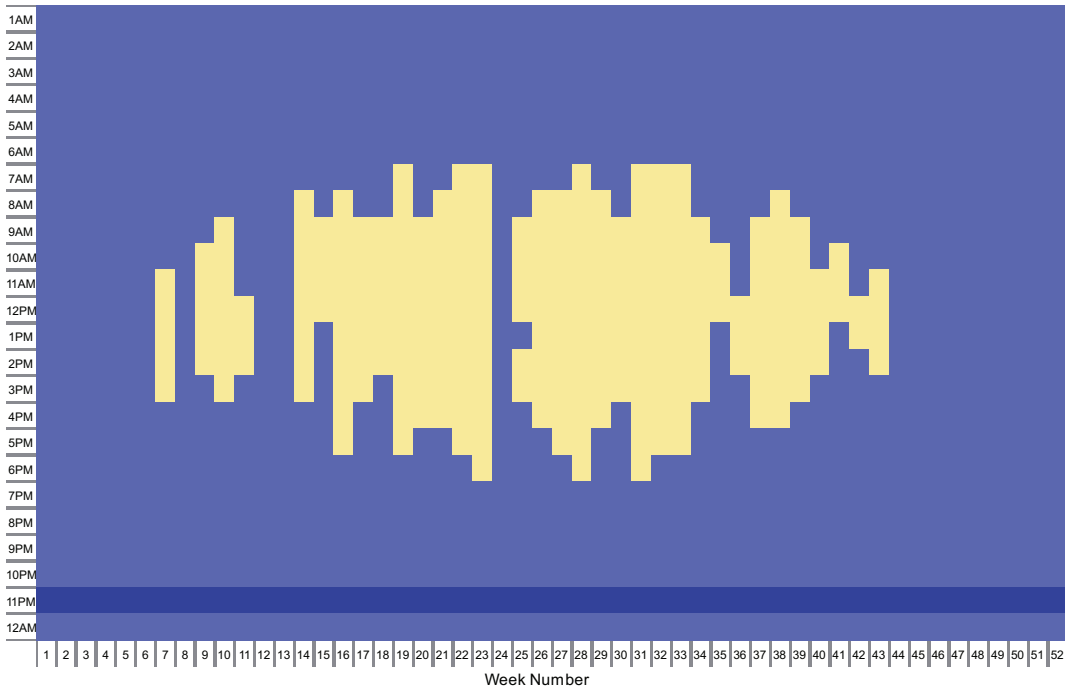
Project: VÃ½robnÃ½ hala 1CSC - skladovÃ½ haly B+C+D

Analysis Parameters

| | |
|-----------------------|---|
| Solution: | SM74DSOC DP A L2 |
| IES File Name: | SM74DSOC_DP_A_L2_CLD50.ies |
| Tube Length: | 2.0m |
| Number of Elbows: | 0 |
| Location: | Czech Republic - Ostrava |
| Occupancy Schedule: | 1CSC |
| Room Dimensions: | 145.0m W x 55.0m L x 13.5m H |
| Surface Reflectances: | Light Industrial - 50% Ceiling - 30% Walls - 10% Floors |
| Minimum Design Time: | 25 April at 12:00 |

Annual Performance

| | |
|------------------------------------|---|
| Design Time: | 25 April at 12:00 |
| Design Time Conditions: | 53° Solar Altitude, 80% cloud cover |
| Design Time Workplane Illuminance: | 206 lux |
| Unit Count: | 160 units |
| Output Lumens: | 10680 lumens |
| Annual Exceeded Hours: | 2962 hours over 50.0 lux 2232 hours over 100.0 lux 1508 hours over 200 lux 939 hours over 300.0 lux 548 hours over 400 lux |
| Annual Exceeded Percent: | Exceeds 200 lux for 0% of 365 occupied hours Exceeds 200 lux for 34% of 4396 daylight hours Exceeds 200 lux for 17% of all 8760 hours |



- Unoccupied, light level will exceed 200 lux
- Occupied, light level will exceed 200 lux
- Unoccupied, light level will not exceed 200 lux
- Occupied, light level will not exceed 200 lux



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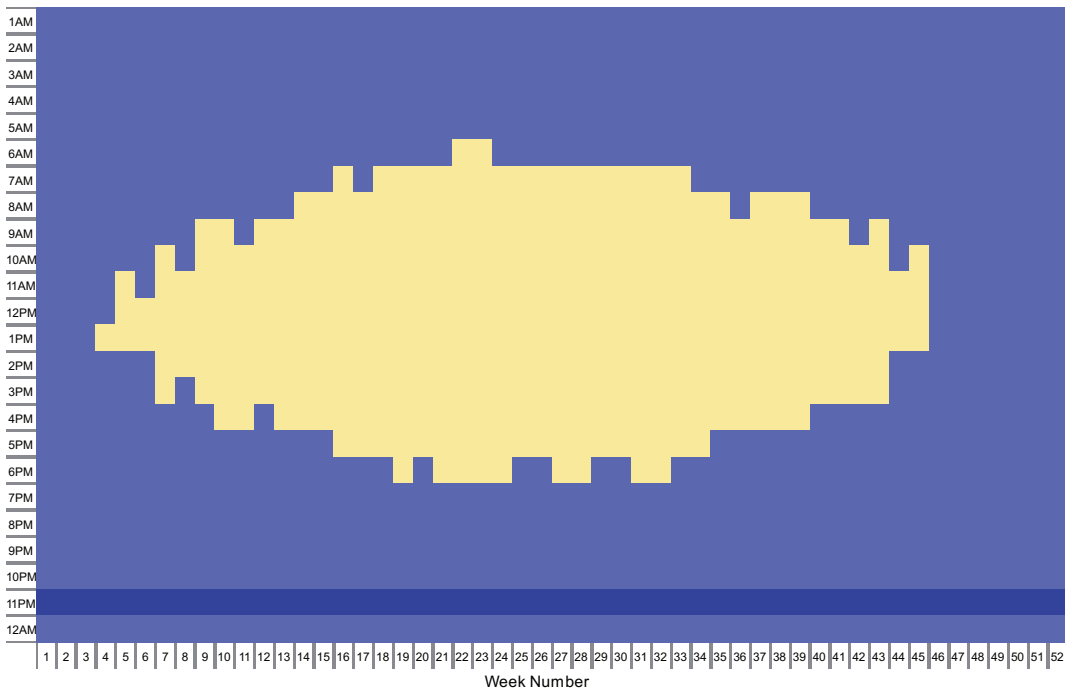
Project: VÃ½robnÃ½ hala 1CSC - skladovÃ½ haly B+C+D

Analysis Parameters

| | |
|-----------------------|---|
| Solution: | SM74DSOC DP B L2 |
| IES File Name: | SM74DSOC_DP_B_L2_CLD50.ies |
| Tube Length: | 2.5m |
| Number of Elbows: | 0 |
| Location: | Czech Republic - Ostrava |
| Occupancy Schedule: | 1CSC |
| Room Dimensions: | 145.0m W x 55.0m L x 13.5m H |
| Surface Reflectances: | Light Industrial - 50% Ceiling - 30% Walls - 10% Floors |
| Minimum Design Time: | 16 May at 11:00 |

Annual Performance

| | |
|------------------------------------|---|
| Design Time: | 16 May at 11:00 |
| Design Time Conditions: | 56° Solar Altitude, 100% cloud cover |
| Design Time Workplane Illuminance: | 195 lux |
| Unit Count: | 441 units |
| Output Lumens: | 3814 lumens |
| Annual Exceeded Hours: | 3628 hours over 50.0 lux 2972 hours over 100.0 lux 2165 hours over 200 lux 1787 hours over 300.0 lux 1411 hours over 400 lux |
| Annual Exceeded Percent: | Exceeds 200 lux for 0% of 365 occupied hours Exceeds 200 lux for 49% of 4396 daylight hours Exceeds 200 lux for 25% of all 8760 hours |



- Unoccupied, light level will exceed 200 lux
- Occupied, light level will exceed 200 lux
- Unoccupied, light level will not exceed 200 lux
- Occupied, light level will not exceed 200 lux