

| Calculation Summary       |             |       |       |     |     |         |         |
|---------------------------|-------------|-------|-------|-----|-----|---------|---------|
| Label                     | CalcType    | Units | Avg   | Max | Min | Min/Avg | Min/Max |
| Lodge A Under-Canopy Area | Illuminance | Lux   | 17.83 | 30  | 5   | 0.28    | 0.17    |
| Lodge B Under-Canopy Area | Illuminance | Lux   | 15.90 | 33  | 5   | 0.31    | 0.15    |
| Lodge C Under-Canopy Area | Illuminance | Lux   | 12.00 | 16  | 8   | 0.67    | 0.50    |

| Luminaire Schedule                                                                |     |       |             |       |                                                                                      |
|-----------------------------------------------------------------------------------|-----|-------|-------------|-------|--------------------------------------------------------------------------------------|
| Symbol                                                                            | Qty | Label | Arrangement | LLF   | Description                                                                          |
|  | 6   | A     | SINGLE      | 0.900 | 4w LED 3000K Ray Short 110 recessed downlighter with 46° beam canopy ceiling mounted |

### BREEAM New Construction 2018 (UK)

D42498 - Haven Holidays Parks - Arrivals Lodge

| Qty | Range   | Light Source | Lamp Lumens | Circuit Watts | Lot/W  | LOR    | Luminaire Lumens | ULOR | Upward Lumens | RA | A RE Factor Per Day | COP Calculation for year |
|-----|---------|--------------|-------------|---------------|--------|--------|------------------|------|---------------|----|---------------------|--------------------------|
| 6   | Ray 110 | 4w LED       | 430         | 4             | 107.50 | 100.0% | 2580             | 0.0% | 0             | 60 | 12                  | COP (Power) kWh/year     |

Total Installation Lumens: 2580.00Total ULR: 0.00%

| Table 1 compliance |        |          |        |
|--------------------|--------|----------|--------|
| Environmental zone | Target | Achieved | Status |
| 03                 | 5.00%  | 0.00%    | Pass   |

| Sky Glow                  |        |          |                                                                                   |
|---------------------------|--------|----------|-----------------------------------------------------------------------------------|
| Source Intensity (mcd/sq) | Target | Achieved | Status                                                                            |
| Pre-surface               | 10,000 | Pass     | Note: we have not been able to calculate this as no backings shown on the drawing |
| Post-surface              | 1,000  | Pass     | Note: we have assessed fittings will be left on Post-surface                      |

| Light Trespass into windows (Lux) |        |          |                                                                                   |
|-----------------------------------|--------|----------|-----------------------------------------------------------------------------------|
| Pre-surface                       | Target | Achieved | Status                                                                            |
| Pre-surface                       | 2      | Pass     | Note: we have not been able to calculate this as no backings shown on the drawing |
| Post-surface                      | 2      | Pass     | Note: we have assessed fittings will be left on Post-surface                      |

| Building Luminaire (cd/m²) |        |          |                                                                                   |
|----------------------------|--------|----------|-----------------------------------------------------------------------------------|
| Pre-surface                | Target | Achieved | Status                                                                            |
| Pre-surface                | 30     | Pass     | Note: we have not been able to calculate this as no backings shown on the drawing |
| Post-surface               | 30     | Pass     | Note: we have assessed fittings will be left on Post-surface                      |

| Compliance Status |                                         |          |        |
|-------------------|-----------------------------------------|----------|--------|
| Pre-surface       | Target                                  | Achieved | Status |
| Pre-surface       | Reduction of night time light pollution | Pass     |        |
| Post-surface      | Energy efficient external lighting      | Pass     |        |
| Post-surface      | Internal and external lighting levels   | Pass     |        |

Note: \*0.00% in this report only applies to external lighting

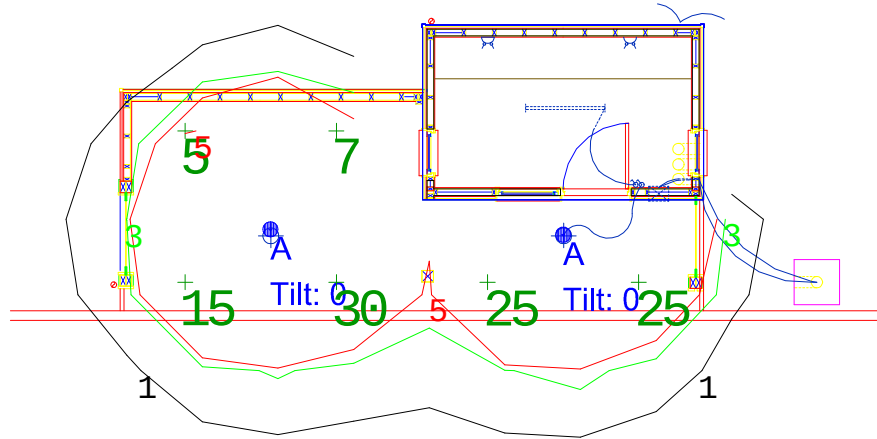
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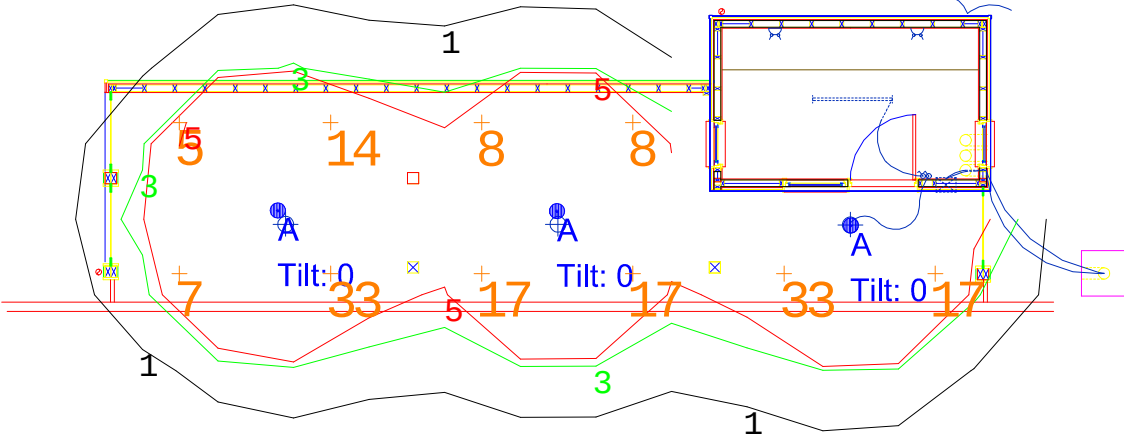


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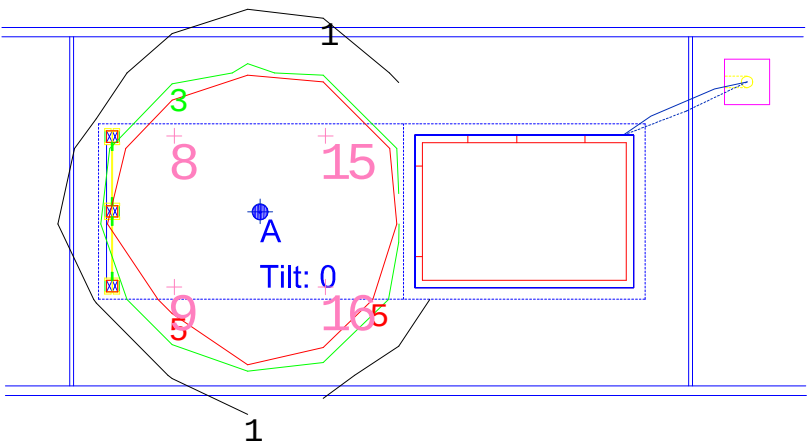
## Lodge Type A



## Lodge Type B



## Lodge Type C



|                                                                                                                                                                                                                                                                                                                                                         |                       |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------|
| Haven Holiday Parks - Arrivals Lodge                                                                                                                                                                                                                                                                                                                    | Scale<br>1:100 at A2  | Project Number<br>D42498   |
|     | Date<br>15 March 2021 | Drawing No.<br>D42498/LC/A |
| Lighting Designer : L. Clarke                                                                                                                                                                                                                                                                                                                           |                       |                            |

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