Great Northern Warehouse, Manchester

INTERIOR LIGHTING STRATEGY



NOVEMBER 2022
STATUS: FOR INFORMATION

Great Northern Warehouse

Interior Lighting Strategy

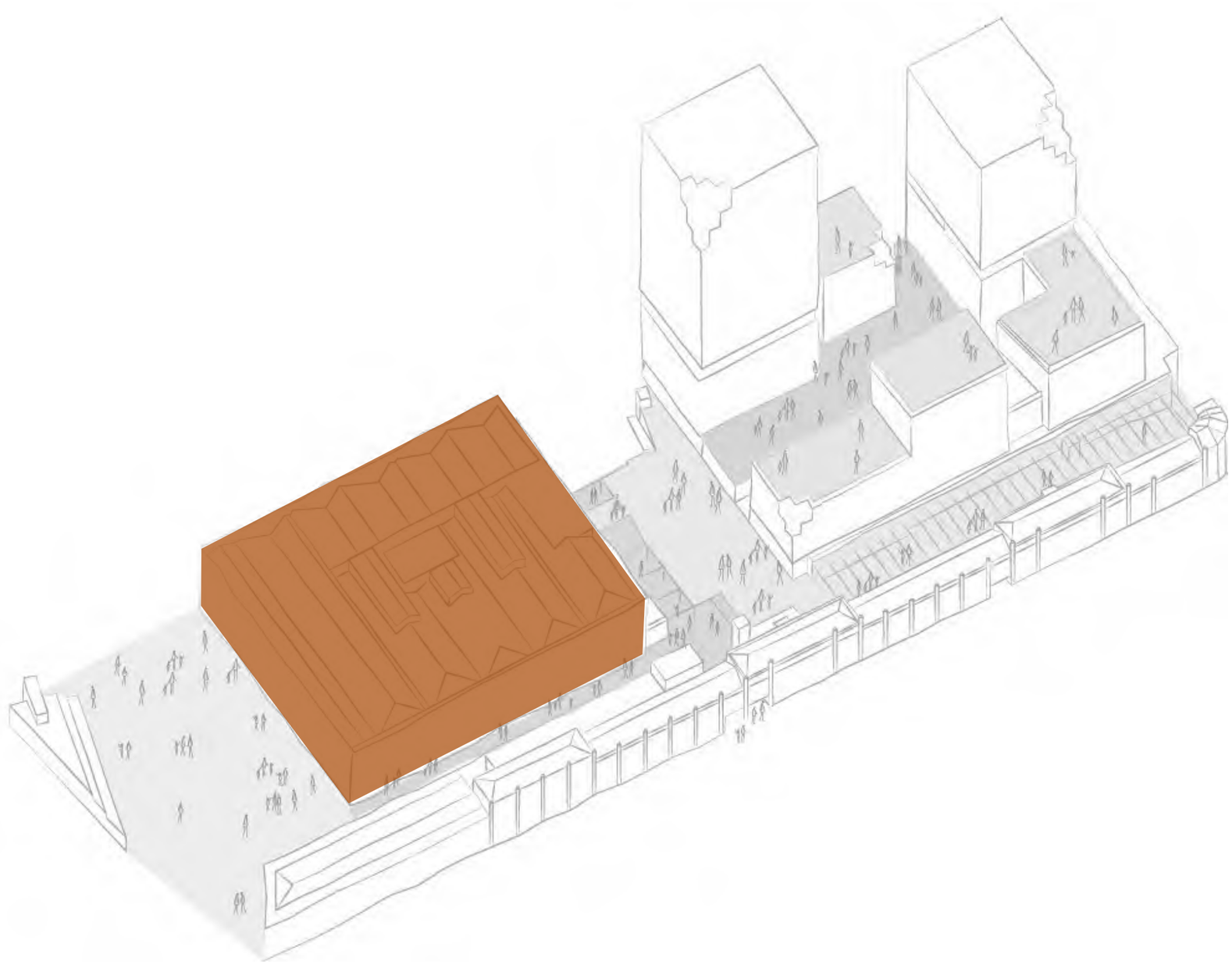


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Issue Status: For Information

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Date: 18/11/22
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LIGHT BUREAU

1. Typical Office Level 2 & 3

1.1 Lighting Objectives



Enhance Building Character & Architectural Features

Diffused side emitting linear luminaires concealed above a custom decorative housing provide soft accent uplighting to the vaulted brick structure. This helps to create a more generous, volumetric feeling despite the relatively low ceiling height.

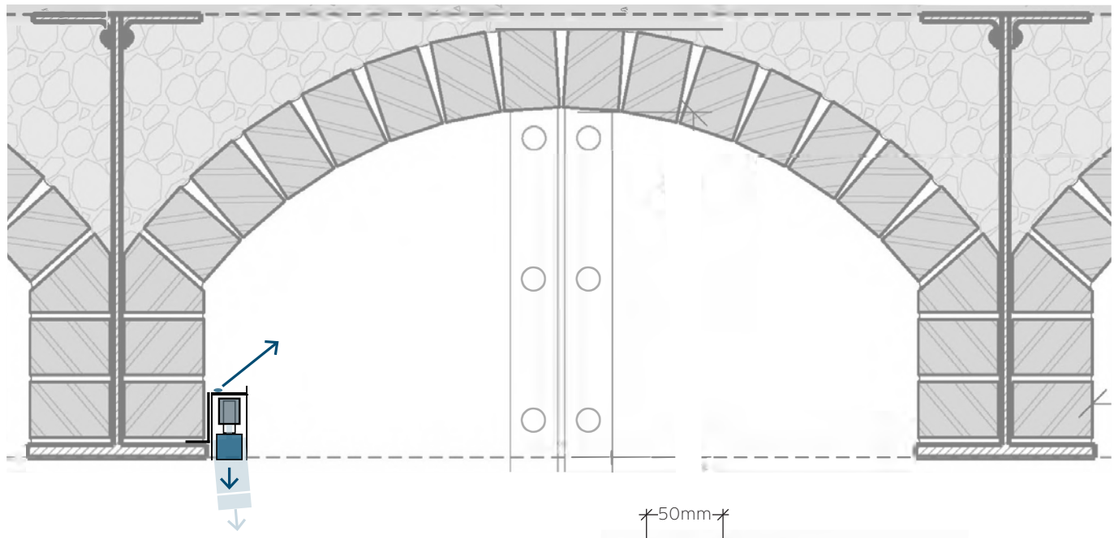
Discreet & Comfortable Office Lighting

Modular linear luminaires with lamella louvres for glare reduction mounted to every alternate beam provide even lighting to the working plane that meets BREEAM requirements.

Versatile CAT A Lighting For End Tenant

The standard 3 phase track used throughout the space is compatible with many different luminaire types and manufacturers and could, as shown here also be used to mount decorative pendants over seating areas.

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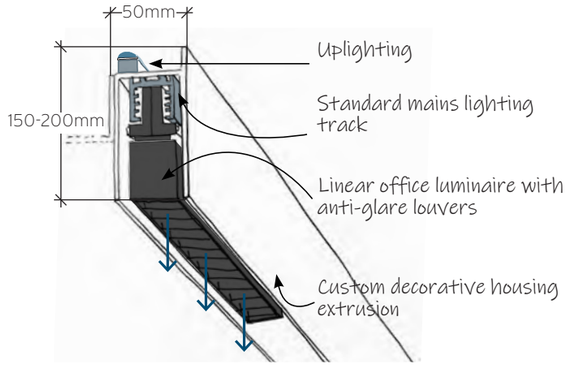
Custom Profile, Standards Mains Track and Linear Office Lighting

Standard mains track to allow for the installation of different products. Inexpensive office grade general lighting. Custom profile housing to cover the linear track, general lighting and conceal the decorative uplighting.

General Lighting

Track mounted discrete linear downlight with louvred optic for office grade glare control.
Fixture total output: 1750lm
Total power consumption (LED + DRIVER): 15.2W
Colour Temperature: 3000K
Min CRI: 90
DALI Dimmable



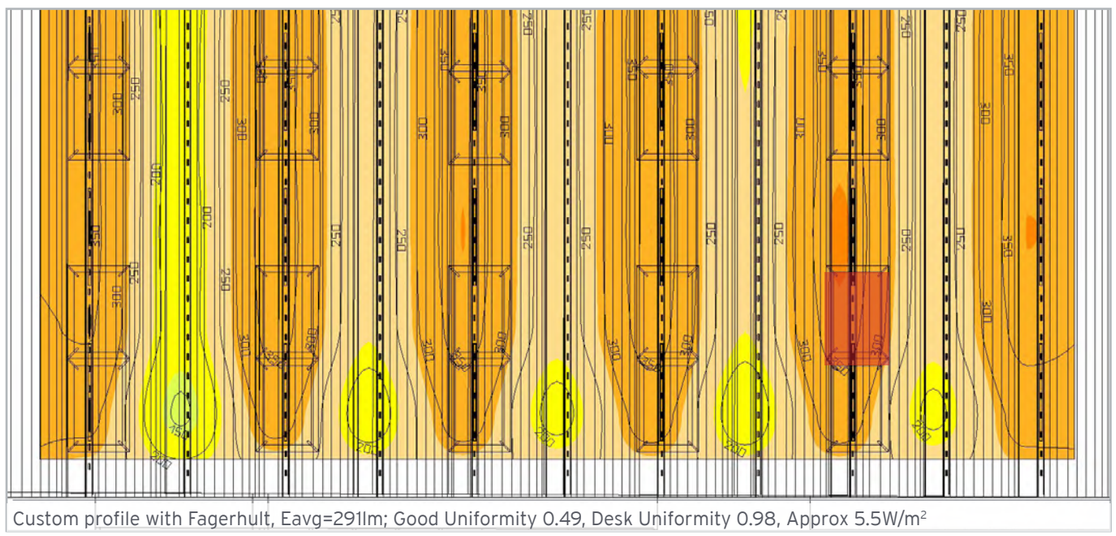


Decorative Uplighting

Linear LED tape in aluminium profile with diffuse cover
Fixture total output: 420 lm/m
Power consumption: 4W/m
Colour Temperature: 3000K
Min CRI: 90
DALI Dimmable







Custom profile with Fagerhult, Eavg=291lm; Good Uniformity 0.49, Desk Uniformity 0.98, Approx 5.5W/m²

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2. Typical Office Level 4

2.1 Lighting Objectives



Enhance Pitched Roof

Diffused linear luminaires concealed on top of the beams provide accent lighting to the timber structure and prevent the ceiling from feeling dark within the space.

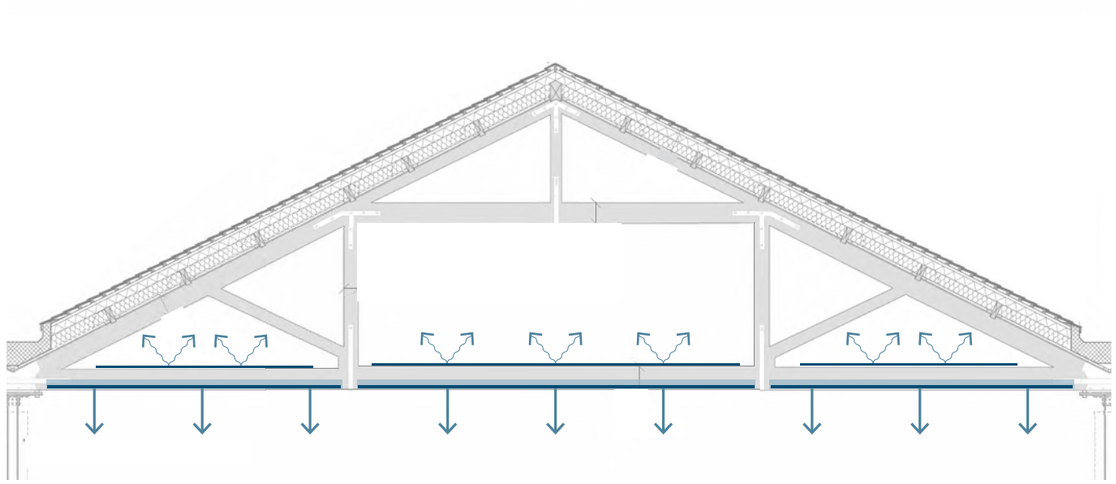
Comfortable & Low Glare Office

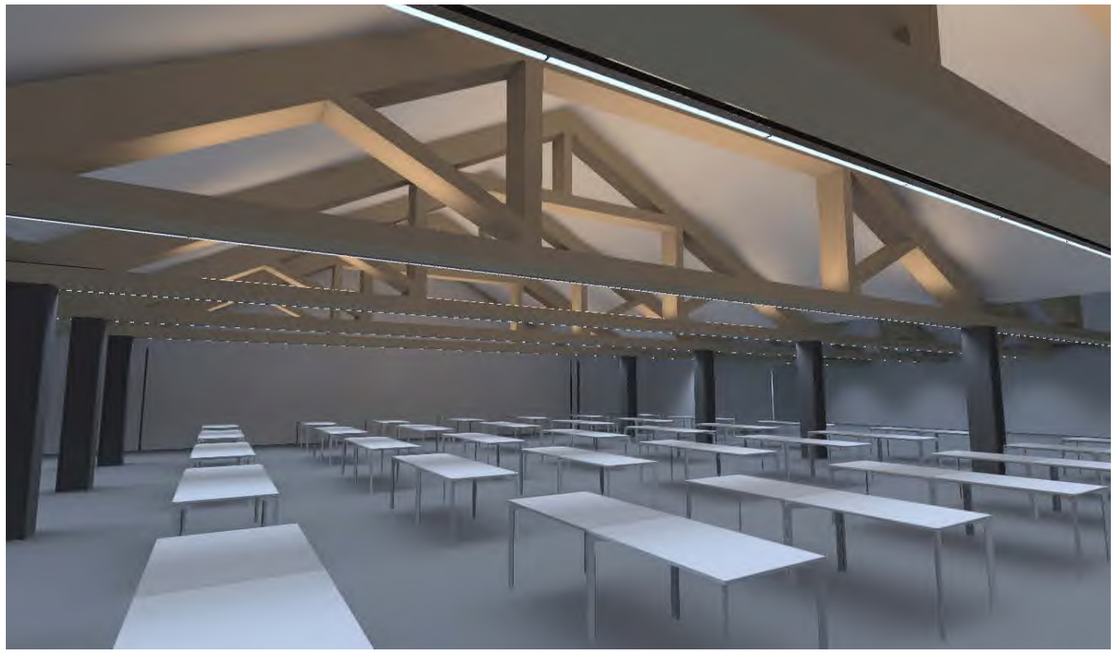
Continuous linear luminaires with lamella louvres for glare reduction provide even lighting to the working plane that meets BREEAM requirements.

Versatile CAT A Lighting For End Tenant

The standard 230V track used throughout the space provides a versatile mounting for plenty of other products including those from different manufacturers. This will give clients flexibility to customise the space by, for example adding accent lighting over key work surfaces.

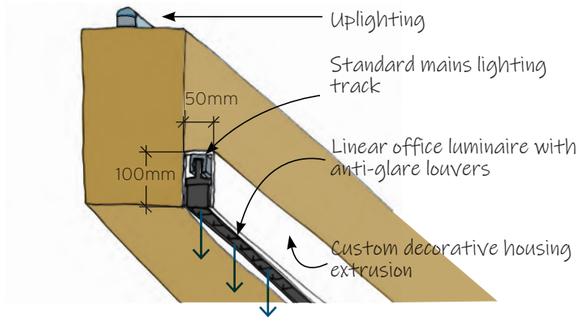
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Custom Profile, Standards Mains Track and Linear Office Lighting

Standard mains track to allow for the installation of different products. Inexpensive office grade general lighting. Custom profile housing to cover the linear track, general lighting and conceal the decorative uplighting.



General Lighting

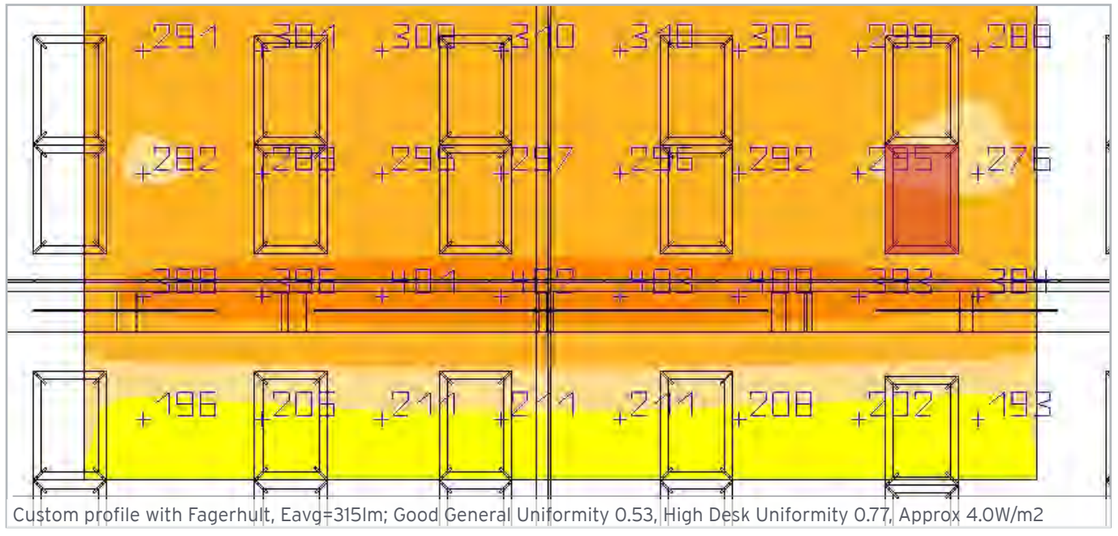
Track mounted discrete linear downlight with louvred optic for office grade glare control.
Fixture total output: 1750lm
Total power consumption (LED + DRIVER): 15.2W
Colour Temperature: 3000K
Min CRI: 90
DALI Dimmable



Decorative Uplighting

Linear LED tape in aluminium profile with diffuse cover
Fixture total output: 420 lm/m
Power consumption: 4W/m
Colour Temperature: 3000K
Min CRI: 90
DALI Dimmable





Custom profile with Fagerhult, Eavg=315lm; Good General Uniformity 0.53, High Desk Uniformity 0.77, Approx 4.0W/m2

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3. Atrium

3.1 Lighting Objectives



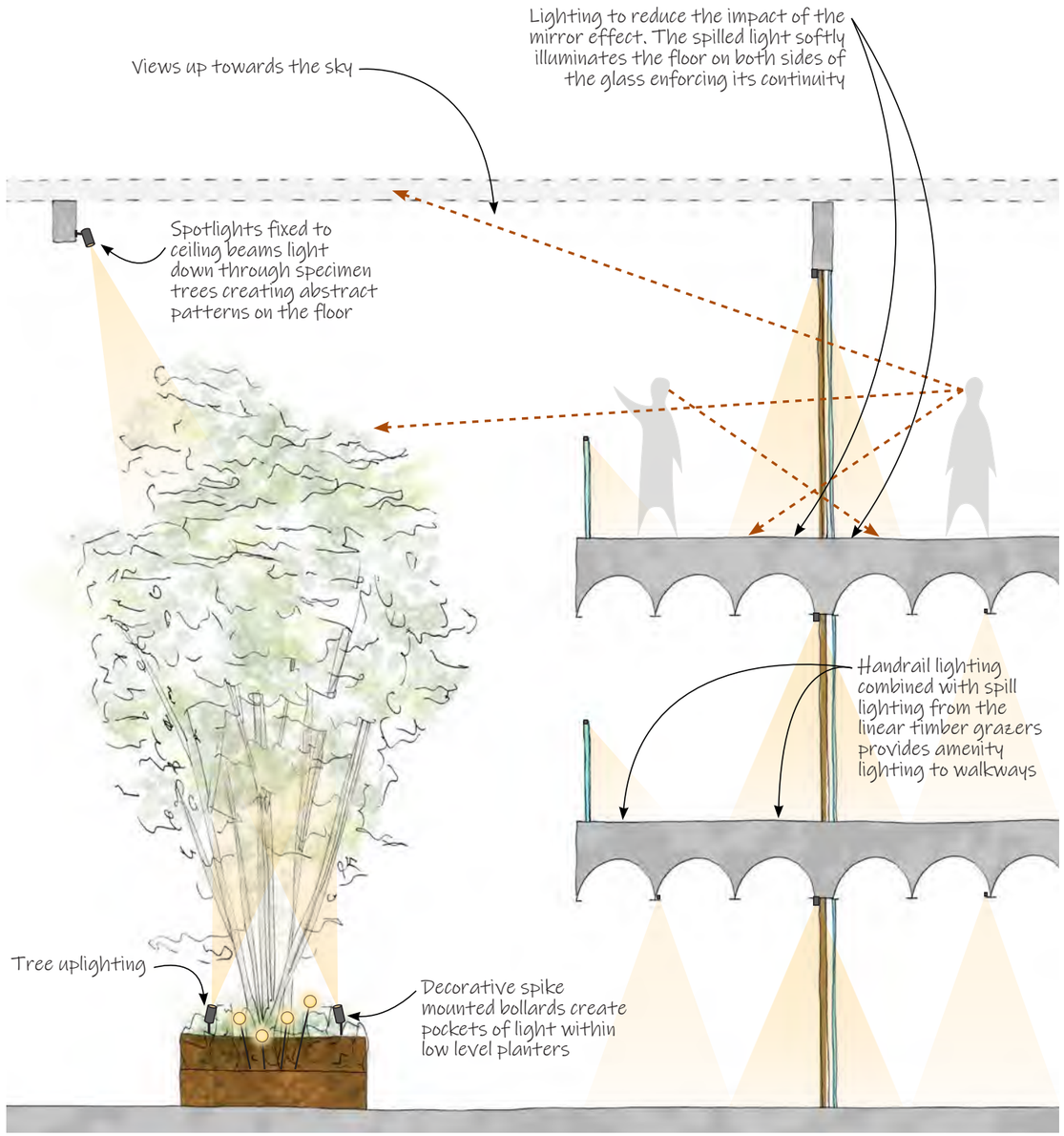
Proposed horizontal linear grazers illuminate the timber feature slats and provide vertical brightness. This reduces the contrast between natural light in the atrium and electric lighting in office spaces.

Lighting both the horizontal surfaces either side of the glazing will help to reduce the mirroring effect during the evening

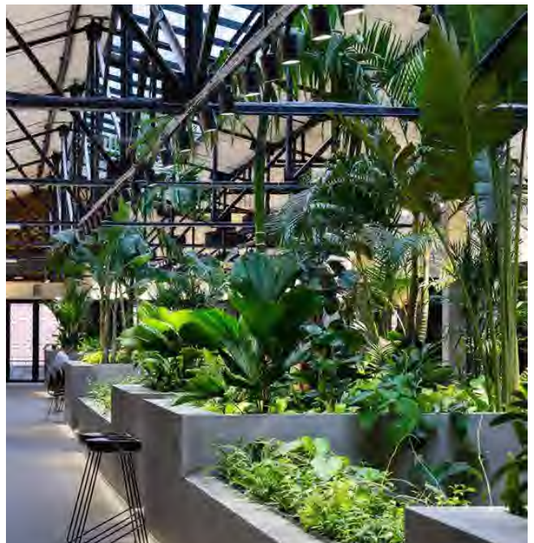
Illuminated trees draw views out from the offices to an attractive focal point.

General lighting to horizontal surfaces is provided through spotlights installed in the ceiling structure.

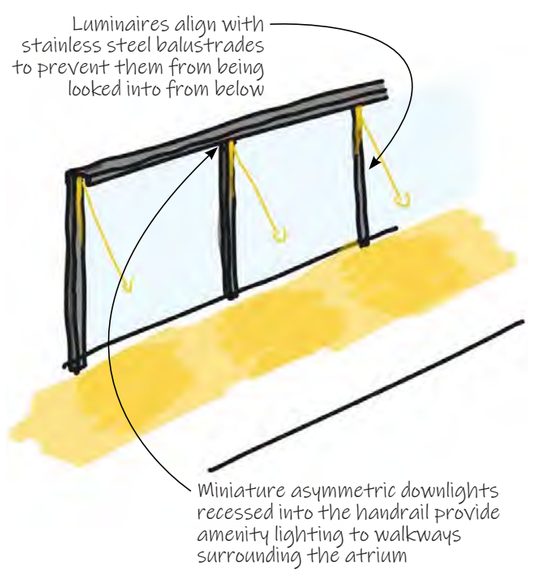
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Illuminating verticals to balance natural light and support the perception of brightness.


Lighting to the planters and trees.


Reducing the mirror effect by lighting both sides of the glazing.



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Inspiring Light

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PART OF AFRY

London Unit 7F, 5 Hewlett House, Havelock Terrace, London SW8 4A

Oslo Lilleakerveien 8 Lysaker

Malmö Hallenborgs gata 4

Copenhagen Lyskær 3EF Herlev

Stockholm Frösundaleden 2A Solna

Trondheim Bassengbakken 1

Gothenburg Grafiska vägen 2

Bergen Conrad Mohrs veg 23 B