73 MILLER STREET
COMMERCIAL LIGHTING CASE STUDY

lpa LIGHTING AND ENERGY SOLUTIONS

EMBRACING SUSTAINABILITY AND WELLBEING

in a green star office building

Located on a busy intersection in North Sydney's business district, 73 Miller Street is a 13-storey A-Grade commercial building embracing sustainability and staff well-being. The 1980's office building was completely renovated to a contemporary design with a breath-taking view of the harbour and the city. A number of priorities were identified for the new office design including its environmental performance, employee wellness, accessibility and adaptability. These factors secured the building a 5-Star Green Star and 5-Star NABERS energy rating.

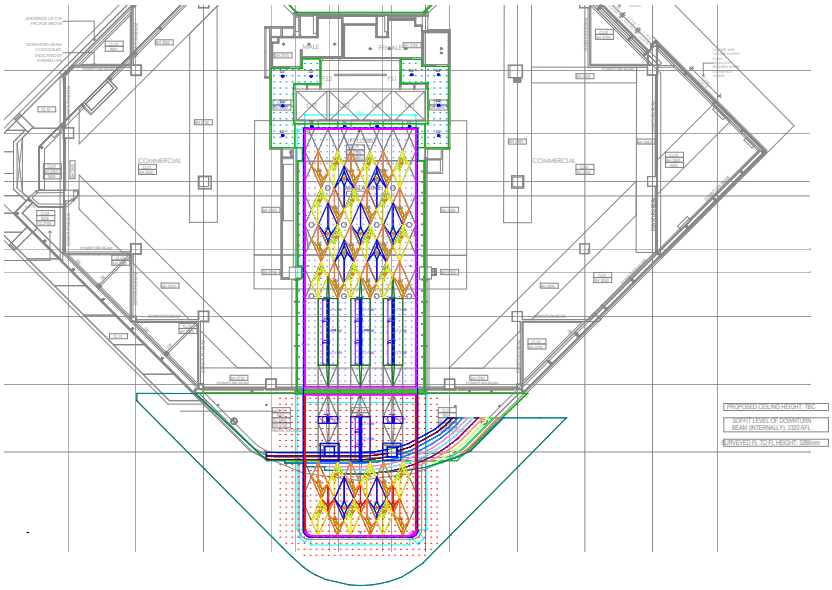
Together with the team at Buildcorp & Class Electrical we provided light fixtures and lighting calculations for all base building office levels (future and current fitout), the lobby, internal common areas, bathrooms, corridors and end-of-trip facility at 73 Miller Street.

the solution

LPA worked with Lightnet to supply 180 unique lengths of custom-specified IP65-rated conduit connection to suit a custom made IP54 Matric A3 linear profile system (made specifically for this project) for the lobby area. An extensive compliance process was conducted involving local and international testing that made up 91 completed lengths. Each one of the 180 lengths of linear had an individual label specifying whether it was a left or right cable entry, the wattage, the floor allocation, the exact location on each level and the order of assembly to make the complete length. We packed, delivered and labelled the profiles per level to ensure a smooth transition when they went to the site for installation. All drivers were then specified and supplied locally to reduce production time due to stock delays globally during the pandemic.

In the external areas, we used 100 metres of high grade IP68 neon flex around the bench areas, balustrades, planters, and cove details in the lobby. These provided modern accent lighting helping to emphasize the main architectural features of the building.

the lighting plans



1. LUX PLOT - LEVEL 1
SCALE: NTS

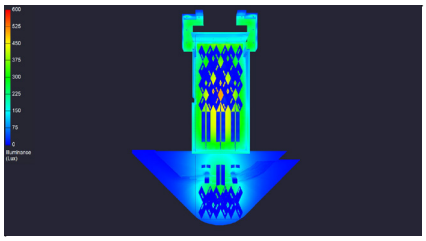
LUMINAIRE SCHEDULE

Tag	Symbol	Label	Total Lamp Lumens	LLF	Qty	Total Watts
L7-1198		L7-1198 LF3OEE-830M-L1198 MAT_1	3214	0.800	3	90
L7-1780		L7-1780 LF3OEE-830M-L1780 MAT_1	4822	0.800	9	387
L7-538		L7-538 LF3OEE-830M-LCU538 MAT_1	1530	0.800	2	26.8
L8-5600		L8-5600 2835 12WM 705LMM	3848	0.800	4	268
L8-100		L8-100 2835 12WM 705LMM_1	70	0.800	16	19.2
L8-8176		L8-8176 2835 12WM 705LMM_1	5764	0.800	1	98
L8-9200		L8-9200 2835 12WM 705LMM_1	6486	0.800	3	330
L8-7100		L8-7100 2835 12WM 705LMM_2	5005	0.800	6	511.2
D5		D5 89 15W 1280LM 60DEG	1278.9	0.800	45	660.6
D3-A		D3-A LPA HADIS DS-A127 20W WI	2230	0.800	12	259.44

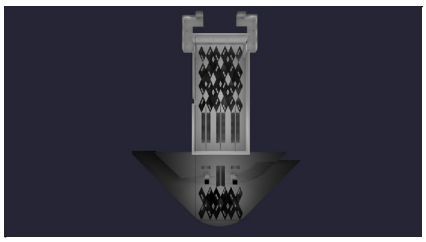
CALCULATION SUMMARY

Label	CalcType	Units	Avg	Max	Min	Grid Z	Uniformity
ENTRY EXTERIOR PAVEMENT	Illuminance	Lux	184.07	362.0	50.2	0	0.27
ENTRY EXTERIOR TOP	Illuminance	Lux	138.44	245.9	60.3	0	0.44
LEVEL 1 CORRIDOR TO WC_Floor	Illuminance	Lux	232.43	304.2	149.0	0	0.64
LEVEL 1 LOBBY_Floor	Illuminance	Lux	343.77	508.2	156.1	0	0.45

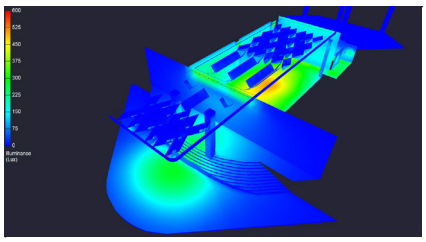
REFLECTANCES:
FLOOR = 0.2
WALLS = 0.5
CEILING = 0.5



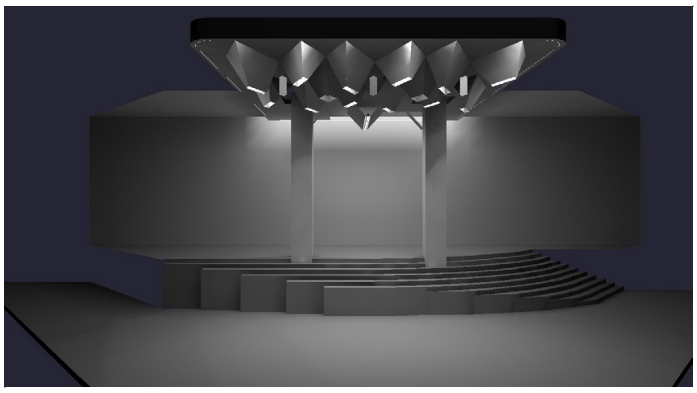
2. PSEUDO COLOUR RENDER
SCALE: NTS



3. RENDER
SCALE: NTS



4. ISOMETRIC RENDER
SCALE: NTS



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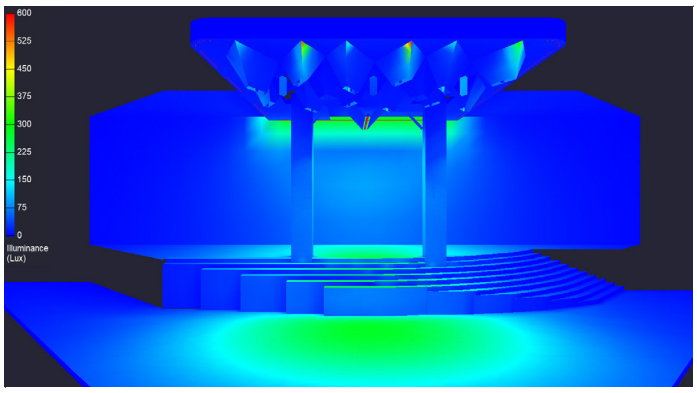

2. PSEUDO COLOUR RENDER
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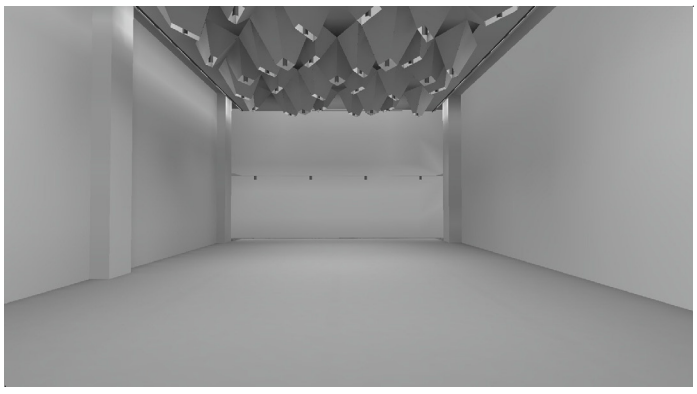

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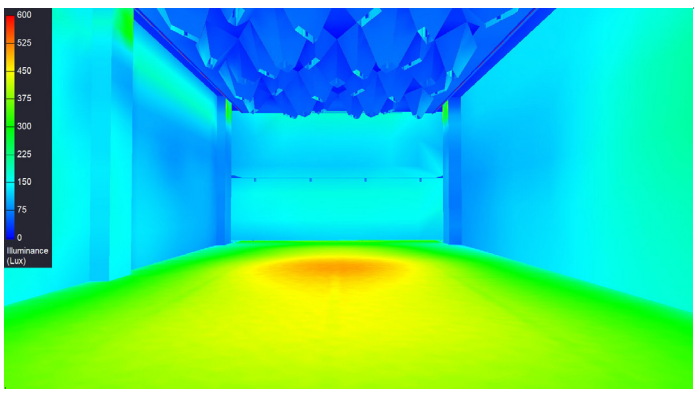

4. PSEUDO COLOUR RENDER
SCALE: NTS

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the solution

Another custom solution for this project was the custom-designed external spotlight arms to suit Landa's Lyras fittings. These were designed by LPA and manufactured by DynaBuilt to illuminate the external green wall from above (avoiding the green wall foliage).

LPA is proud to be involved with delivering an office building that puts sustainability and its people at the forefront. The result delivers a visually striking lighting concept matching the client's vision.

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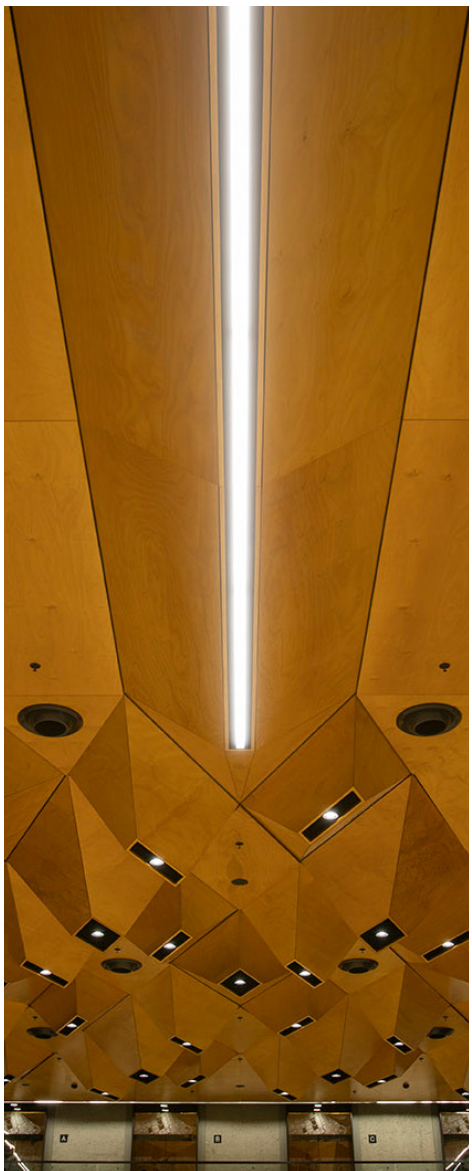
featured products

- Matric A3 Surface Mounted Luminaire IP54 (w/ IP65 custom gasket connection)
- Matric F3 Recessed Luminaire
- Lyras 65 Spike Light
- Custom spotlight arm to suit the Lyras lights
- Periscope Bollard
- Hadis DS-A127 Surface Mounted Downlight
- Neon Flex TA
- Neon Flex TC
- Eva Recessed Linear
- 901QX Recessed Wall Linear
- LED Strip in High Profile (SM1715)
- R6195 Downlight
- 71-89-95-15 Surface Mounted Can Light



project overview

BUILDING OWNER: ESR

LOCATION: 14 Shepherd Court. North Geelong, VIC, 3215

LIGHTING: LPA

ARCHITECT: Fitzpatrick + Partners

ELECTRICIAN: Class Electrical

BUILDERS: Buildcorp

ENGINEERING CONSULTANTS: Taylor Thomson Whitting (TTW), Aurecon & LCI

PROJECT MANAGER: Colliers International

PHOTOGRAPHER: Daniel Offwood

info@lpalighting.com
+61 3 8416 1500
www.lpalighting.com

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