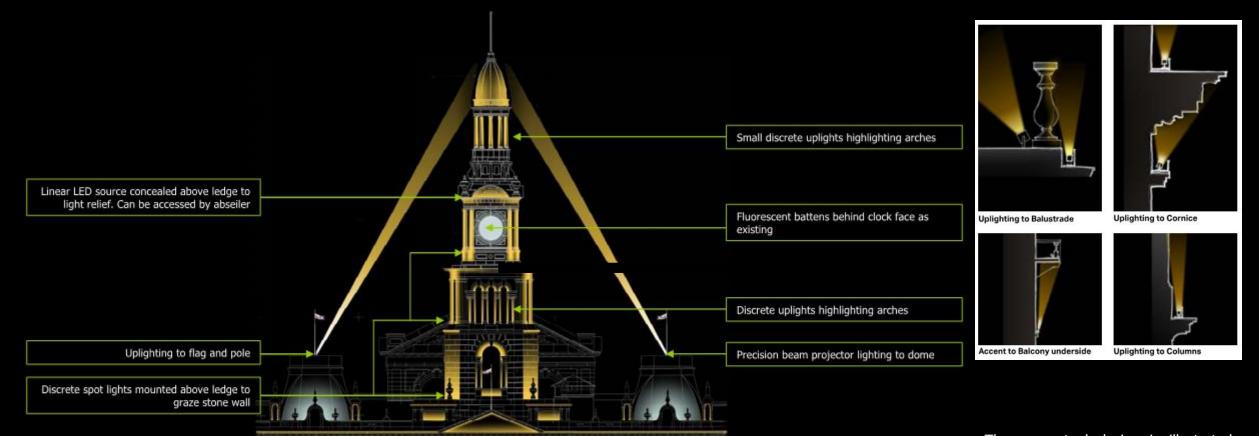
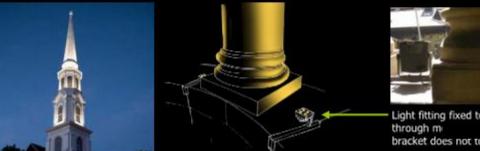
# A LIGHTING DESIGN POINTOFVIEW





THE WAY WE SEE THINGS







bracket does not touch sandstone



The conceptual design is illustrated using visual renderings, integration sketches and reference imagery. This is presented to relevant stakeholders and revised where required.

The ideas shown in the concepts will be mocked up during onsite trials to confirm the intended effect and evaluate mounting locations.



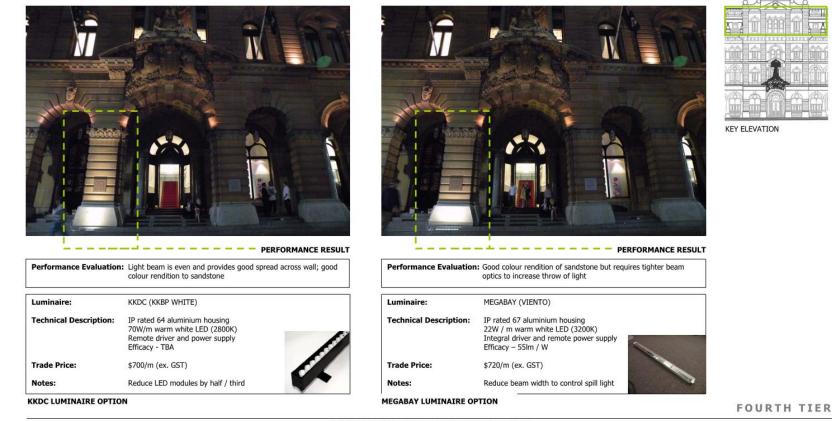




LIGHTING TEST REPORT

PROJECT NAME	WESTIN SYDNEY, FAÇADE LIGHTING	
DOCUMENT NUMBER	J2296-SL-5100-P2	DATE 10/02/2009

The images below illustrate the performance of two LED luminaires suitable for the forth tier at Westin. The luminaires were selected based on their performance, efficacy, colour temperature, luminaire size, overall luminaire quality and cost.



The purpose of the testing is to review and evaluate the design intent and proposed luminaire locations and specification.

Key stakeholders, including architect, heritage consultant, COS, client provide input during the mock up phase.

The findings will be summarised in a report and circulated to the team.

The tests inform the next phase of the design by identifying specific luminaires to be used and specific mounting locations.

The onsite tests will be conducted during April pending relevant approvals.

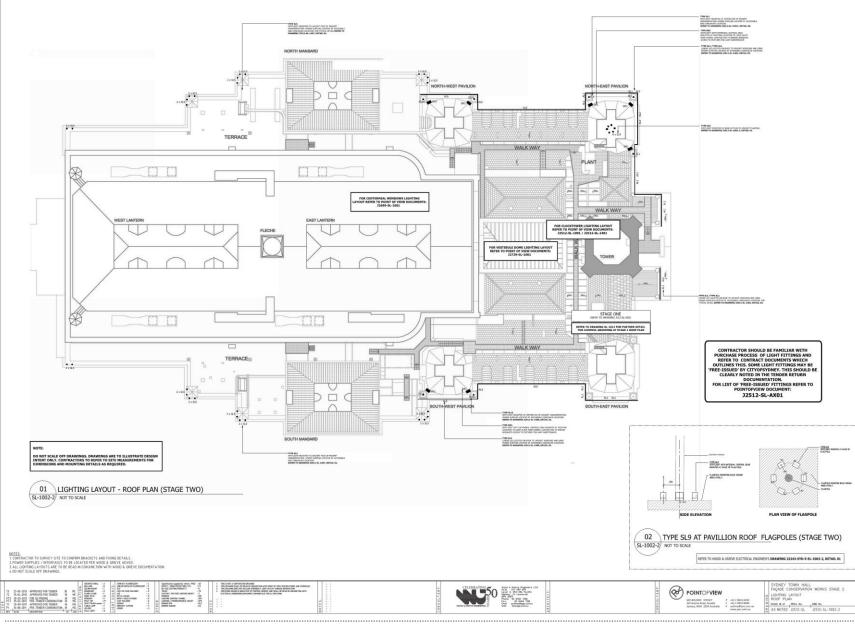
PointOfView LIGHTING, THEATRE + AUDIO VISUAL DESIGN									
		MELBOURNE	SYDNEY						
58-73	2 LTEVETEED ROAD ROZELLE NSW 2030	T+ ±612 0818	6355	E: 1612 0810 08	44 E. cv	dnau@nov.com a			







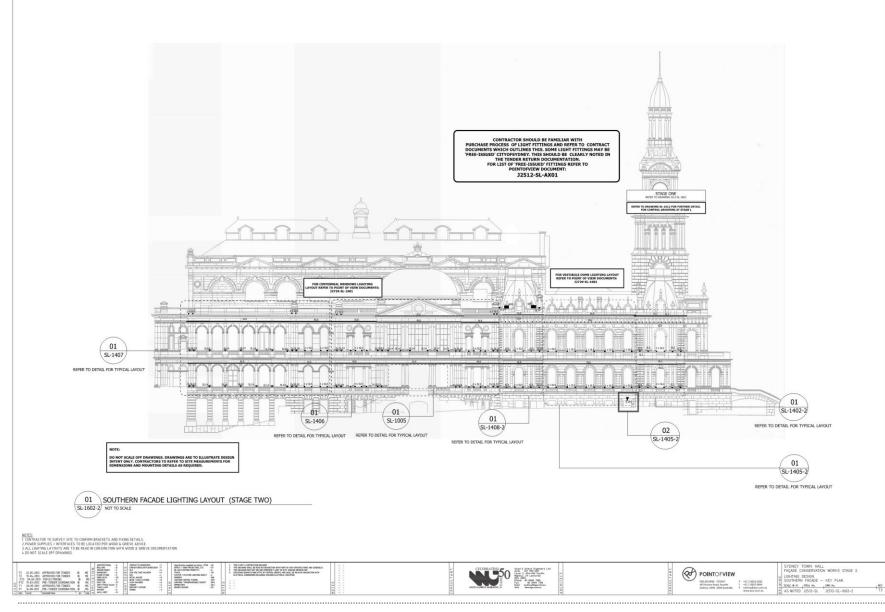
### METHODOLOGY - LIGHTING TESTS & REVIEW THE WAY WE SEE THINGS



Following the approval of the conceptual design and subsequent on site lighting tests, as well as budget estimates, we will develop the lighting design into schematic planning with indicative sketch details and specifications suitable for initial co-ordination with other design team members and review from key stakeholders.

#### METHODOLOGY - SCHEMATIC LIGHT PLANNING THE WAY WE SEE THINGS



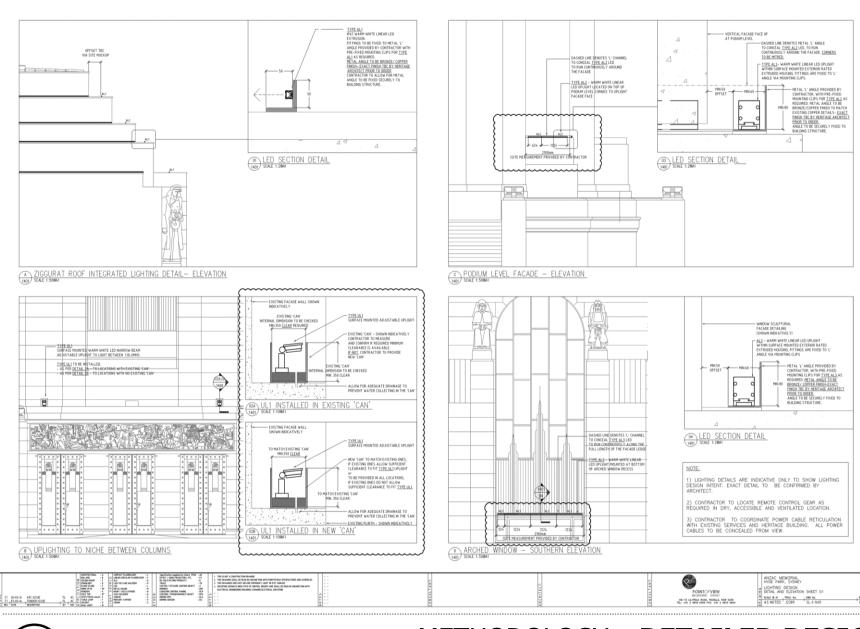


Design development of the project continues along with the interior design or and architectural design. Commercial aspects of the project are also a driving aspect of this design phase, where we respond to project budget feedback and mould the design to suit the parameters that are set, within the boundaries of the original design intent.

The design documents are finalised with details, such as elevations sufficient to present the project for tenderers.

#### METHODOLOGY – **DETAILED DESIGN LIGHT PLANNING** THE WAY WE SEE THINGS





**POINT**OFVIEW

Detailed integration and mounting drawings illustrate the mounting arrangements. These will be reviewed by relevant stakeholders and amended where required.

The design documents are finalised with details, such as elevations sufficient to present the project for tenderers.

#### METHODOLOGY – **DETAILED DESIGN LIGHT PLANNING** THE WAY WE SEE THINGS



DESIGN DEVELOPMENT ISSUE

Luminaire type

DMX

Model number

Lumen output:

-lm

STANDARD

Spotlight

Accessory 2

Trim

Snoot

Midth

Voltage/Drive Current mA:

N/A

recommendations. (delete if not applicable)

129mm

Estimated delivery 4-6 weeks from order/deposit to meet supplier's terms and conditions. TBC by Contractor.

AUSTRALIA

Nic Joynson +61 3 9701 2500 Model number:

Optics/Distribution

30 Deg

Reflector. N/A

Lumen depreciation:

Remote control gear to be in a dry, accessible location. Contractor to coordinate location onsite. Electrical contractor to ensure all cable lengths and thicknesses from remote control gear to luminaires are as per

manufacturer recommendations to eliminate issues such as voltage drop. Electrical contractor to ensure total length of linear product fed from a single feed does not exceed manufacturer

Where low voltage dimming is required, the contractor must ensure the supplied transformer is compatible with the

Accessory 3

158mm

N/A

Lead Time:

Manufacturer:

Product Code:

Description:

Accessories:

Dimensions:

Performance:

Control:

Finish: Body:

Lamp:

Lamp Wattage

Notes:

Supplier:

SPACECANNON

LIGHTMOVES

JILSPOT 12

Mounting

Surface

Accessory 1.

Circuit #:

Lenati

20W

N/A

Mounting Clip

Single circuit

STANDARD

Manufacturer

INTEGRAL TO FITTING

Image:

SPRING STREET FACADE

REV: P1 DATE: 17/06/2016

Peak Intensity in beam:

Other:

N/A

N/A

Accessory 4.

Control Gear.

Integral

N/A

Cutout. N/A

Source.

LED

Colour Temr

4000K

Rating:

IP65

Accessory 5:

N/A

Weiahl

Lamp Base:

N/A

N/A CRI: Binning: >80 N/A

J3091-SL-2100

TYPE SL7

### POINTOFVIEW

SPRING STREET FACADE J3091-SL-2100

DESIGN DEVELOPMENT ISSUE REV: P1 DATE: 17/06/2016

											TΥ	PE	AL1
Lead Time:	Estimated delivery	4-6 wee	eks from o	rder/deposit	to mee	t sup	plier's term	s and	conditions. 1	твс			
Image:	÷						22		20	de la construcción de la constru		20	
Manufacturer:	SPACECANNO	N					AUSTR	ALIA					
Supplier:	LIGHTMOVES						Nic Joy +61 3 9						
Product Code:	Model name: SPACELINE 22	Model name: SPACELINE 22					Model number: 240105-30-CL						
Description:				minaire type: Optics/Distribu near 30 Deg, Cl Diffuser			, Cle			vm:	sity in	IP Rating: IP67	
Accessories:	Accessory 1: Mounting Clip		Accessory . N/A	ny 2: Accessory 3: N/A			y 3: Accessory 4: N/A				Accesso N/A	ny 5:	
Control:	Circuit #: Single circuit			Dimming DMX	Dimming protocol: DMX				Control G				
Finish:	Body: STANDARD		Trin ST	".' ANDARD			Reflector: N/A				Othe N/A	4	
Dimensions:	Length: TBC ON SITE		<sub>Width:</sub> 20mm		Height: 22mm				Cutout: N/A			Weight: N/A	
Lamp:	Manufacturer: INTEGRAL TO	FITT	ING	Model n		7			Source: LED			Lamp Ba N/A	ase:
Lamp Performance:					1570lm				Colour Temp: 3000K			<sup>CRI:</sup> >80	Binning:
Notes:	Remote control opear to be in a dry, accessible location. Contractor to coordinate location onsite. Luminarie linear lengths TBC by contractor via site measurements. Descrizia Contractor to ensure all cable lengths and bicknesses from remote control gear to luminaires are as per manufacturer recommendations to eliminate issues such as voltage drop. Descrizia Contractor to ensure all cable lengths and bicknesses from a single feed does not exceed manufacturer recommendations. (delete if not applicable) Where low voltage dimming is required, the contractor must ensure the supplied transformer is compable with the specified control system to enable smooth dimming from 100% to 0%. Otimensions show including colout sizes should be confirmed with the luminaire manufacturer. Where low suitable the langth manufacturer. Where a transformer / ballast / control gear is required, such equipment shall be purchased from the specified langth manufacturer.												

- 1	>	Warranty 5 years lamp and gear for LED products.

NOTE: ALL LED CHIPS ON ALL FIXTURES ACROSS ALL AREAS TO BIN AND COLOUR MATCHED
--

E: ALL LED CHIPS ON ALI	FIXTURES ACROSS ALL	AREAS TO BIN AND CO	LOUR MATCHED

	Page 32 of 40	
i7 www.pov.com	ABN 32 139 612 767	POINTOFVIEW DESIGN PTY LTD
E sydney@pov.com	<b>T</b> +61 2 9818 6355	Level 3, 207 Clarence Street, SYDNEY NSW 2000 Australia
E melbourne@pov.com	▼ +61 3 9017 4161	Unit 5, 15 Vere Street, COLLINGWOOD VIC 3066 Australia

	Page 20 of 40	
POINTOFVIEW DESIGN PTY LTD	ABN 32 139 612 767	www.pov.com.au
Level 3, 207 Clarence Street, SYDNEY NSW 2000 Australia	▼ +61 2 9818 6355	E sydney@pov.com.au
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<ul> <li>Dimensions shown in</li> <li>Where a transforme manufacturer or con</li> </ul>	tem to enable smooth dimming from 100% to 0%. cluding cutout sizes should be confirmed with the luminar () ballast / control gear is required, such equipment sh firmed as suitable by the lamp manufacturer. np and gear for LED products.	
NOTE: ALL LED CHIPS ON ALL F	IXTURES ACROSS ALL AREAS TO BI	N AND COLOUR MATCHED
	Page 32 of 40	
POINTOFVIEW DESIGN PTY LTD	ABN 32 139 612 767	www.pov.com.au

Luminaires and mounting equipment are selected based on the following criteria:

- 1. Fit for purpose
- 2. Size and Appearance
- 3. Concealment
- Colour 4.
- 5. **Fixing locations**
- 6. Materials

METHODOLOGY - SPECIFICATION THE WAY WE SEE THINGS



LOAD SCHEDULE

PROJECT NAME	Etihad Tower - Japanese Restaurant	DATE.	02/11/2010
DOCUMENT NUMBER	J2441 SL-3000	REVISION NO.	T2

	Control						Luminair	e			
		Dimmer									
Control	Dimmer	Channel									Total Channel
Channel	Rack No.	No.	Area	Code	Quantity	Wattage	per Meter	Voltage	Lamp	Control type	Load
KITCHEN BACK OF HOUSE - REFLECTED CEILING PLAN											
BC01			BOH kitchen	DF1	15	70		220	F	SW	1050
BC02			BOH kitchen	DC1	7	26		220	С	SW	182
BC03			BOH kitchen	DC1	6	26		220	С	SW	156
BC04			BOH kitchen	DC1	2	26		220	С	MS	52
BC05			BOH kitchen	DF1	5	70		220	С	MS	350
BC06			BOH kitchen	DC1	1	26		220	С	MS	26
BC07			BOH kitchen	DC1	2	26		220	С	MS	52
BC08			Coolroom	om Allow channel for coolroom lamp - Refer to coolroom spec. MS						0	
BC09			Coolroom	Allow channel for coolroom lamp - Refer to coolroom spec. MS						0	
BC10			Kitchen hood	Allow chann	el for kitchen	hood lamp -	Refer to kitch	en consultan	t spec.	SW	0
								тот/	AL BACK OF	HOUSE LOAD	1868

NOTES:				
Lamp Types		Control T	Control Types	
С	Compact Fluorescent	LSW	Locally Switched	
F	Linear/Circular Fluorescent	SW	Switched via Dimmer rack	
G	GLS/Incandescent	DIM	Dimmed via Dimmer rack	
Н	Low Voltage Halogen	LD	Locally Dimmed	
L	Light Emitting Diode	D-L	Leading edge dimming via Dimmer rack	
М	Metal Halide	D-T	Trailing edge dimming via Dimmer rack	
N	Neon / Cold Cathode	D-LED	Dimming via LED controller	
Q	240V Halogen	0-10	0-10V Fluorescent Dimming	
S	Sodium	DSI	DSI Fluorescent Dimming	
v	Mercury Vapour	DALI	DALI Dimming	
Х	Xenon	DMX	DMX Dimming	
		DS	Daylight Sensor	
		MS	Motion / Microphonic Sensor	
		PSW	Proximity Switch	
		DeintOfView LICUTING TURATOR 1 AV	DECICN	

#### PointOfView LIGHTING, THEATRE + AV DESIGN

SYDNEY | 68-72 LILYFIELD RD ROZELLE NSW 2039. T: +612 9818 6355. F: +612 9810 0844 MELBOURNE | 1/184 BRUNSWICK ST FITZROY VIC 3065. T: +613 9017 4161 PAGE 4 of 4



NOTEC

#### METHODOLOGY - LIGHTING CONTROL THE WAY WE SEE THINGS

Luminaires are controlled in groups and can set to varying levels of intensity at night and late night, factoring in the following considerations:

- 1. Balancing the architectural features and elements of the building
- 2. Balancing the brightness of the buildings within the streetscape and broader city scape
- 3. The amenity of hotel guests and staff
- 4. The safety and amenity of the general public in surrounding areas
- 5. Minimize light pollution

## A LIGHTING DESIGN POINTOFVIEW