

Volume 3 - Appendix 10b

Lighting Layouts and Details

Prepared by Steensen Varming




SYDNEY OPERA HOUSE LOWER CONCOURSE IMPROVEMENT OPERA BAR

LIGHTING DESIGN

DRAWING LIST

L1000	COVER AND LEGEND
L1001	LIGHTING DETAILS
L3000	LIGHTING LAYOUT - LOW LEVEL
L3001	LIGHTING LAYOUT - HIGH LEVEL
L3002	LUMINAIRE DATASHEETS SHEET 1
L3003	LUMINAIRE DATASHEETS SHEET 2

LIGHTING LEGEND

	L1 SURFACE MOUNTED LINEAR DIFFUSED RGBW UPLIGHT LUMINAIRE IP68
	L2 JOINERY INTEGRATED LINEAR DIFFUSED LUMINAIRE IP68
	D1 STRUCTURE INTEGRATED DOWNLIGHT LUMINAIRE IP55

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AMENDMENTS

REV	DESCRIPTION	DATE
01	DEVELOPMENT APPLICATION	01/08/2019
02	DEVELOPMENT APPLICATION	16/08/2019

DEVELOPMENT APPLICATION

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STEENSEN VARMING

PROJECT

SYDNEY OPERA HOUSE LOWER CONCOURSE
IMPROVEMENT - OPERA BAR

DRAWING TITLE
LIGHTING DESIGN
COVER AND LEGEND

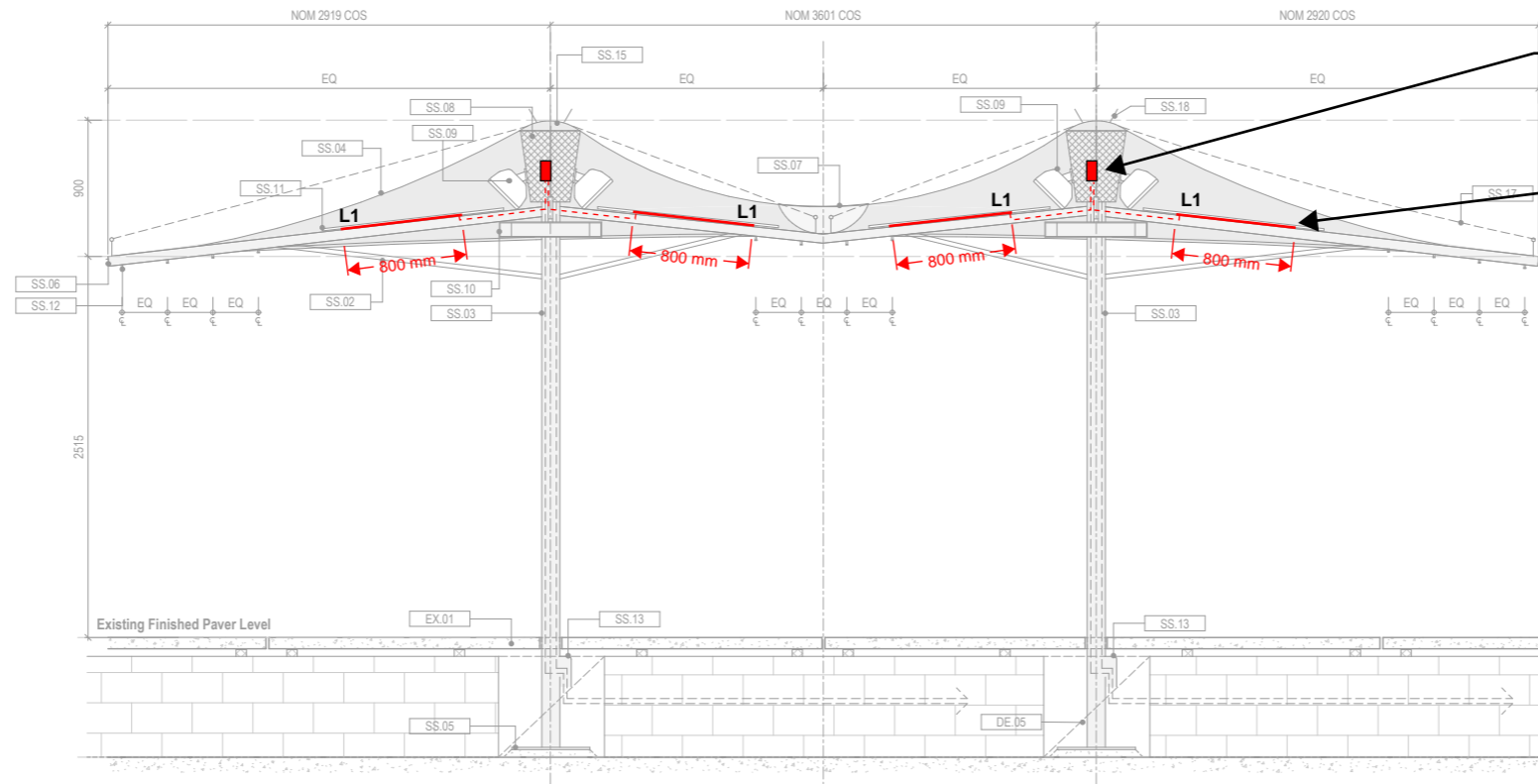
A3

CREATED DRAWN DESIGN CHECKED APPROVED SCALE

JULY'19 ND AEB EU EU NTS

PROJECT No. DRAWING No. REVISION

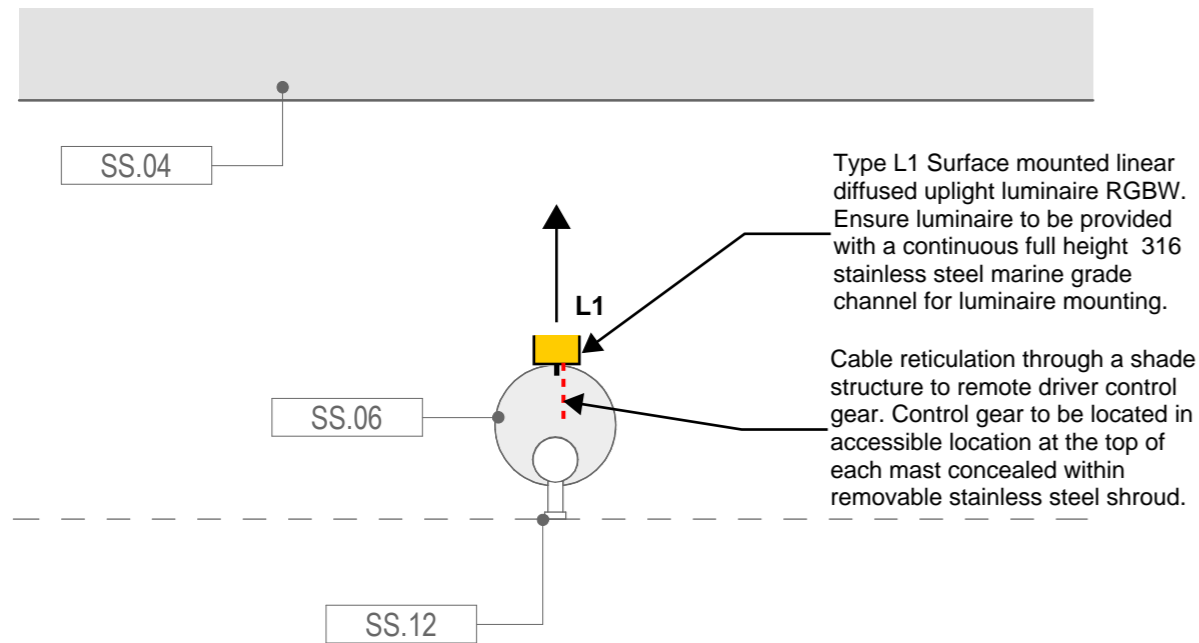
197096 L1000 02



Luminaire driver control gear to be within removable stainless steel shroud.

Type L1 Surface mounted linear diffused uplight luminaire RGBW. Ensure luminaire to be provided with a continuous full height 316 stainless steel marine grade channel for luminaire mounting.

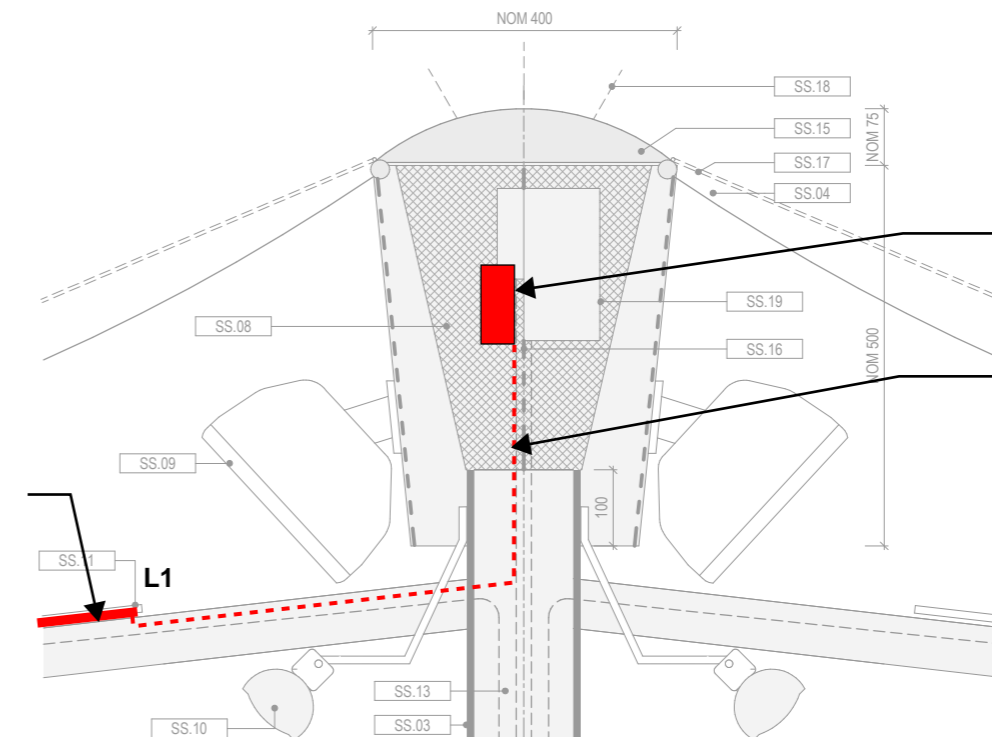
1 LIGHTING LAYOUT - SECTION DETAIL 1
SCALE 1:50



Type L1 Surface mounted linear diffused uplight luminaire RGBW. Ensure luminaire to be provided with a continuous full height 316 stainless steel marine grade channel for luminaire mounting.

Cable reticulation through a shade structure to remote driver control gear. Control gear to be located in accessible location at the top of each mast concealed within removable stainless steel shroud.

Type L1 Surface mounted linear diffused uplight luminaire RGBW.



Luminaire driver control gear to be within removable stainless steel shroud.

Cable reticulation through a shade structure to remote driver control gear. Control gear to be located in accessible location at the top of each mast concealed within removable stainless steel shroud.

2 LIGHTING LAYOUT - SECTION DETAIL 2
SCALE 1:5

3 LIGHTING LAYOUT - SECTION DETAIL 3
SCALE 1:10

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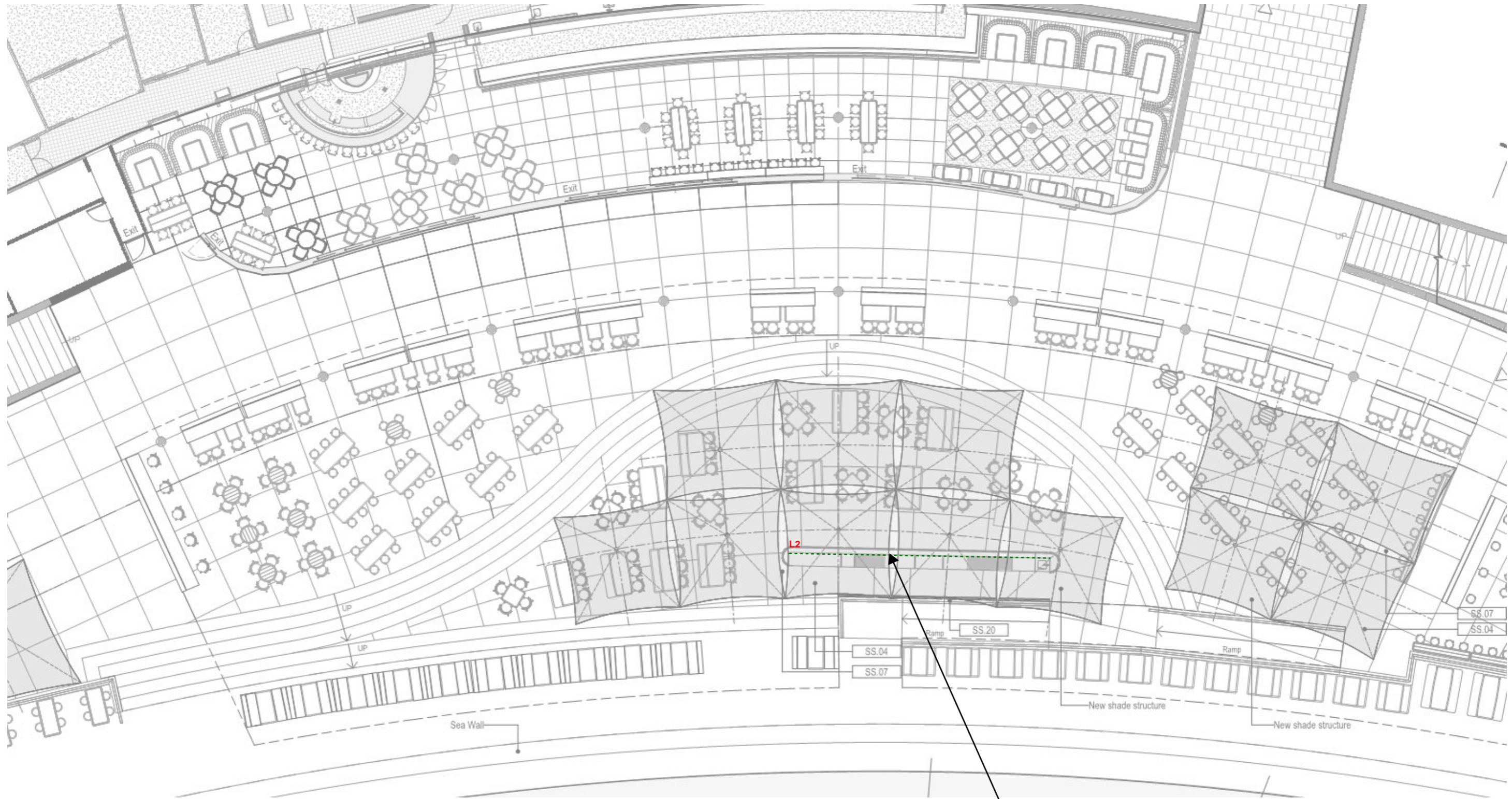
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STEENSEN VARMING

PROJECT
SYDNEY OPERA HOUSE LOWER CONCOURSE IMPROVEMENT - OPERA BAR

DRAWING TITLE
**LIGHTING DESIGN
LIGHTING LAYOUT - LIGHTING DETAILS**

A3					
CREATED	DRAWN	DESIGN	CHECKED	APPROVED	SCALE
JULY'19	ND	AEB	EU	EU	1:200
PROJECT No.		DRAWING No.		REVISION	
197096		L1001		02	



1 LIGHTING LAYOUT - LOW LEVEL
SCALE 1:200

Type L2 joinery integrated linear diffused luminaire

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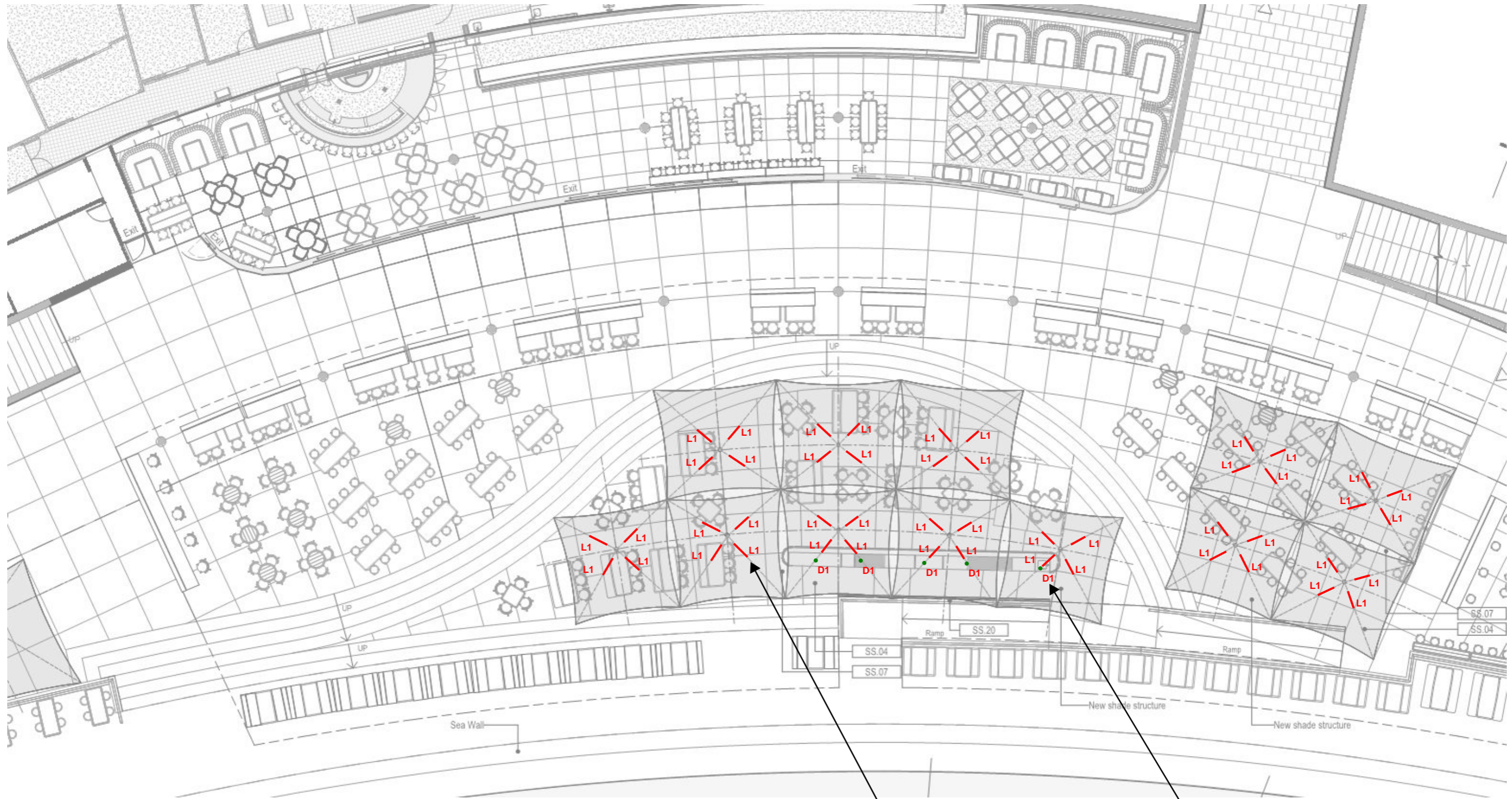
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PROJECT
SYDNEY OPERA HOUSE LOWER CONCOURSE IMPROVEMENT - OPERA BAR

DRAWING TITLE
**LIGHTING DESIGN
LIGHTING LAYOUT - LOW LEVEL**

A3					
CREATED	DRAWN	DESIGN	CHECKED	APPROVED	SCALE
JULY'19	ND	AEB	EU	EU	1:200
PROJECT No.		DRAWING No.		REVISION	
197096		L3000		02	



Type L1 Surface mounted linear diffused uplight luminaire RGBW IP68.

Type D1 Structure mounted downlight luminaire IP55.

1 LIGHTING LAYOUT - HIGH LEVEL
SCALE 1:200

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PROJECT
SYDNEY OPERA HOUSE LOWER CONCOURSE IMPROVEMENT - OPERA BAR

DRAWING TITLE
**LIGHTING DESIGN
LIGHTING LAYOUT - HIGH LEVEL**

CREATED	DRAWN	DESIGN	CHECKED	APPROVED	SCALE
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PROJECT No.	DRAWING No.			REVISION	
197096	L3001			02	

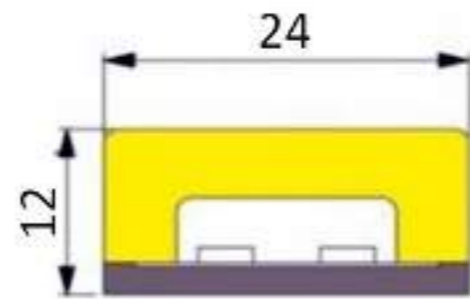
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L1

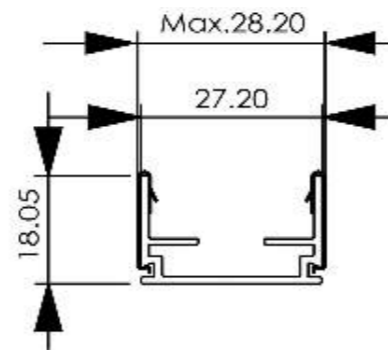
Description	Surface mounted linear diffused RGBW LED uplight luminaire IP68
Model	NEON MAXI
Catalogue No.	NEON MAXI - RGBW - BTM - DALI
Manufacturer	Vuelite
Supplier	Litesource and controls
Light Source	LED 24W/m, RGBW (W- warm white), IP68
Finish	316 stainless steel continuous channel
Dimensions	27.2 mm (W) x 18.05 mm (H) x 2 length of 400 mm (L) (total length = 800mm)
Accessories	<ul style="list-style-type: none"> - Remote DALI driver control gear. Control gear to be located within stainless steel shroud. Location to be concealed and accessible. - Continuous 316 stainless steel marine grade channel for luminaire mounting
Location	Shade Structure
Notes	- Final lengths of the luminaire sections to be confirmed in the luminaire shop drawing review.



PROFILE



TRU



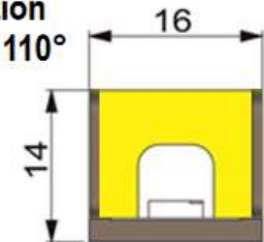
L2

Description	Joinery integrated linear diffused LED luminaire IP68
Model	NEON -110
Catalogue No.	NEON-110-12 - 27K - END - DALI
Manufacturer	Vuelite
Supplier	Litesource and controls
Light Source	LED 12W/m, 2700K, 900lm/m, IP68
Finish	316 Stainless steel for u-chip channel
Dimensions	19 mm (W) x 18 mm (H) x (L) to suit joinery
Accessories	<ul style="list-style-type: none"> - Remote DALI driver control gear. Control gear to be located adjacent joinery. Location to be concealed and accessible. - Powder-coated aluminium u-clip for luminaire mounting. Provide u-clip min. every 300 mm
Location	Bar
Notes	-

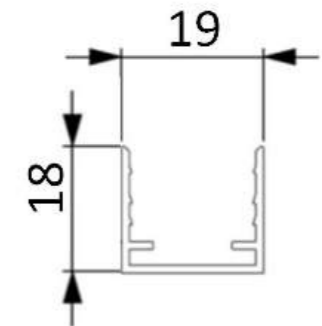


PROFILE: NEON-110

- 1 Side Illumination
- Viewing Angle: 110°



ALC
TRU



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SYDNEY OPERA HOUSE LOWER CONCOURSE
IMPROVEMENT - OPERA BAR

DRAWING TITLE
LIGHTING DESIGN
LIGHTING LAYOUT - LUMINAIRE DATASHEETS SHEET 1

A3

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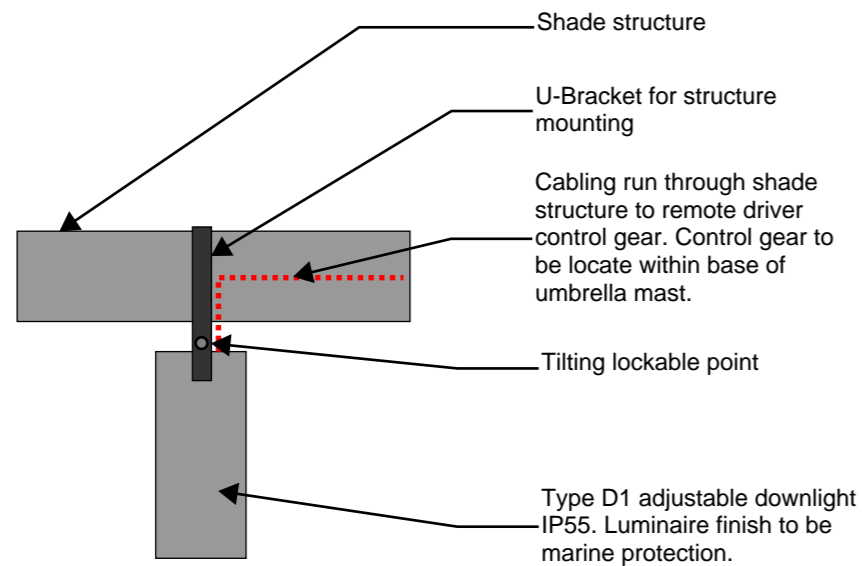
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PROJECT No. DRAWING No. REVISION

197096 L3002 02

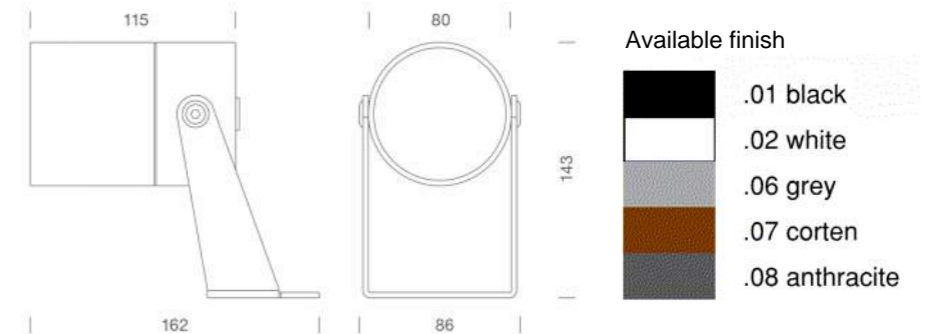
D1 (OPTION 1)

Description	Custom surface mounted downlight IP55
Model	111000.579
Catalogue No.	111000.579
Manufacturer	3S Lighting
Supplier	3S Lighting
Light Source	LED Xicato XIM Gen4, 7 W, 800 lm, 2700 K, CRI83, 40° reflector
Finish	Powder coat with marine protection, colour to match umbrella structure
Dimensions	Approx. 60 mm (Dia) x 150 mm (H)
Accessories	- Custom mounting bracket for integration with umbrella structure. Umbrella manufacturer to co-ordinate with luminaire supplier. - Remote LED dali dimmable control gear. Control gear to be located within base of umbrella mast. Umbrella mast to have flush access panel to access LED control gear, fuse link/ RCD protection and terminal block. IP68 connectors. All cabling and connectors to be within umbrella structure and reticulation within mast.
Location	Shade Structure
Notes	- No exposed cabling - Luminaire is 48V



D1 (OPTION 2)

Description	Surface mounted downlight IP66
Model	NANO XXL Floodlight - COB
Catalogue No.	9405213
Manufacturer	Platek
Supplier	inlite
Light Source	LED, 15 W, 970 lm, 3000 K, CRI80, 32°
Finish	Powder coat with marine protection, Final finish (TBC)
Dimensions	Approx. 80 mm (Dia) x 115 mm (H)
Accessories	- Custom mounting bracket for integration with umbrella structure. Umbrella manufacturer to co-ordinate with luminaire supplier. - Remote LED DALI dimmable control gear. Control gear to be located within base of umbrella mast. Umbrella mast to have flush access panel to access LED control gear, fuse link/ RCD protection and terminal block. IP68 connectors. All cabling and connectors to be within umbrella structure and reticulation within mast.
Location	Shade Structure
Notes	- No exposed cabling - Luminaire is 48V



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**SYDNEY OPERA HOUSE LOWER CONCOURSE
IMPROVEMENT - OPERA BAR**

DRAWING TITLE
**LIGHTING DESIGN
LIGHTING LAYOUT - LUMINAIRE DATASHEETS SHEET 2**

A3

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JULY'19 ND AEB EU EU NTS

PROJECT No. DRAWING No. REVISION

197096 L3003 02