

OFFICE SPACES

PRODUCTIVE WORKPLACES



OFFICE SPACES

LIGHTING CONSIDERATIONS

Office lighting is a critical aspect of workplace design that must balance functional requirements with economic and aesthetic considerations. From illuminance levels to energy efficiency, designers must navigate a range of normative specifications, constructional conditions, and design aspects to create an effective lighting system that meets the needs of employees and the business.



Swaab Offices, Sydney, Architect: Hammond Studio

LIGHTING CONSIDERATIONS

SAFE MOVEMENT

Quality lighting is crucial within a workplace, as it allows employees to navigate the space without risk of injury. Lighting can also be used for wayfinding and sectioning of the space.



MINIMISE REFLECTIONS

Good glare control and the correct luminaire layouts prevent disturbing reflections on digital devices and paper documents which will cause visual discomfort.



TASK LIGHTING

Task lighting is crucial in offices for providing sufficient illumination for desk work such as reading and typing. Proper positioning of the light source is important to prevent glare and shadows.



RECOMMENDED PRODUCTS



centauri CENTAURI MINOR SUSPENDED



LUMINAIRE LUMINOUS FLUX	1000lm - 4000lm
MOUNTING TYPE	Suspended
MATERIAL	Low Glare diffuser Extruded aluminium profile
DIMMING	DALI
FINISH	Black, White or custom powder coat
WARRANTY	10 years



lightculture
INSPIRED LIGHT

CULTURA SOFT FLAT BEYOND VISION



LUMINAIRE LUMINOUS FLUX	2190lm - 3040lm
MOUNTING TYPE	Recessed T-bar
MATERIAL	Sheet Steel body Frosted Prismatic Diffuser
DIMMING	DALI Bluetooth
FINISH	White Powder-coated
WARRANTY	10 years



lightculture
INSPIRED LIGHT

HALEN



LUMINAIRE LUMINOUS FLUX	2067lm - 4138lm
MOUNTING TYPE	Recessed T-bar Sureface Mounted
MATERIAL	Frosted prismatic PMMA diffuser Aluminium body
DIMMING	DALI Bluetooth
FINISH	White Powder-coated
WARRANTY	5 years

TYPICAL DESIGN

**DIRECT & INDIRECT
SUSPENDED LUMINAIRES
ROOM: 10.0M X 12.0M X 3.0M**

LUMINAIRE SELECTION

CENTAURI MINOR SUSPENDED
CENTMI-SP-WH-10000MM-ID-LG-1000-940-IP20-DA-1000-940

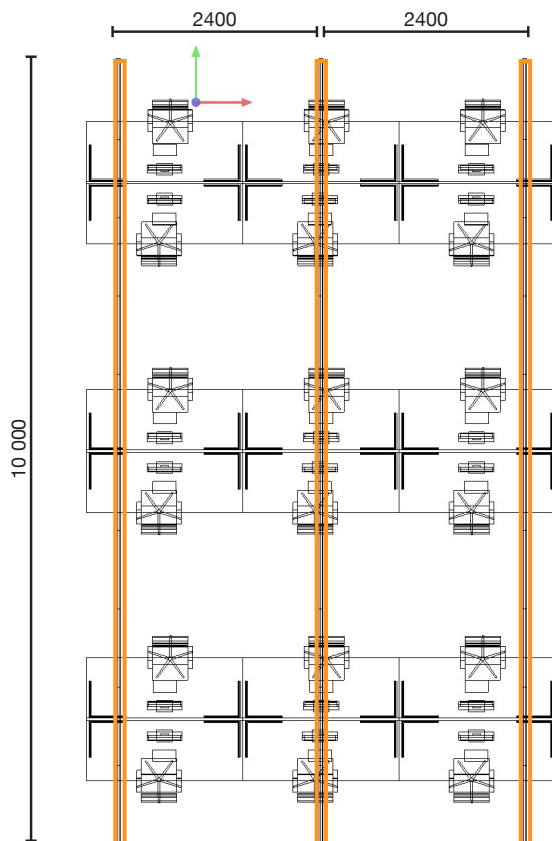


ROOM CALCULATIONS	
REFLECTANCE	Ceiling 70 Wall 50 Floor 20
MAINTENANCE FACTOR	0.8
CEILING HEIGHT	3.0m
ROOM DIMENSIONS	10m x 12m
MOUNTING HEIGHT	2.4m



POWER	24.2 W/m
LUMINOUS FLUX	1000 lm/m Direct 1000 lm/m Indirect
IP RATING	IP20
CRI	90
CCT	4000K
MOUNTING TYPE	Suspended
WARRANTY	10 Years

ROOM CALCULATIONS						
	STANDARD REFERENCED	STANDARD REQUIREMENTS	WORKPLANE (0.7m)	WALLS	FLOOR	CEILING (3m)
AVG. ILLUMINANCE	AS 1680	Workplane >320 lx Floor > 40 lx	463.7lx	117.8lx	232lx	339lx
UNIFORMITY	AS 1680	Workplane > 0.7 Floor > 0.3	0.81	0.57	0.41	0.26
MAX UGR @ 1.2 M HT	AS 1680	<= 19			16.6	
LIGHT POWER DENSITY	NCC Section J6	4.5			9.25 W/sq.m	
					<i>(Compliant with adjustment factors such as motion detectors, fixed dimming)</i>	
CRI	AS 1680	80 <= Ra <= 90			90	



TYPICAL DESIGN

**DIRECT
SUSPENDED LUMINAIRES**
ROOM: 10.0M X 12.0M X 3.0M

LUMINAIRE SELECTION

CENTAURI MINOR SUSPENDED
CENTMI-SP-WH-10000MM-DT-LG-1000-940-IP20-DA

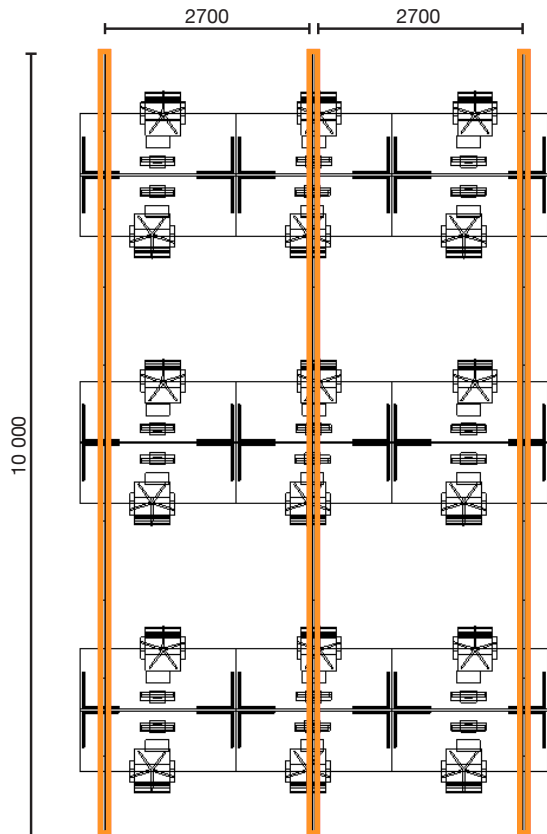


ROOM CALCULATIONS	
REFLECTANCE	Ceiling 70 Wall 50 Floor 20
MAINTENANCE FACTOR	0.8
CEILING HEIGHT	3.0m
ROOM DIMENSIONS	10m x 12m
MOUNTING HEIGHT	2.4m



POWER	24.2 W/m
LUMINOUS FLUX	1000 lm/m
IP RATING	IP20
CRI	90
CCT	4000K
MOUNTING TYPE	Suspended
WARRANTY	10 Years

ROOM CALCULATIONS						
	STANDARD REFERENCED	STANDARD REQUIREMENTS	WORKPLANE (0.7m)	WALLS	FLOOR	CEILING (3m)
AVG. ILLUMINANCE	AS 1680	Workplane >320 lx Floor > 40 lx	359.7lx	62.7lx	159lx	91.6lx
UNIFORMITY	AS 1680	Workplane > 0.7 Floor > 0.3	0.82	0.55	0.31	0.42
MAX UGR @ 1.2 M HT	AS 1680	<= 19			19.5	
LIGHT POWER DENSITY	NCC Section J6	4.5			3.6 W/sq.m	
CRI	AS 1680	80 <= Ra <= 90			90	



TYPICAL DESIGN

RECESSED LUMINAIRES

ROOM: 10.0M X 12.0M X 3.0M

LUMINAIRE SELECTION

CULTURA SOFT FLAT BEYOND VISION ENABLED
CULTURA-SOFTFLATBV-1200-300-2500-849-ETD

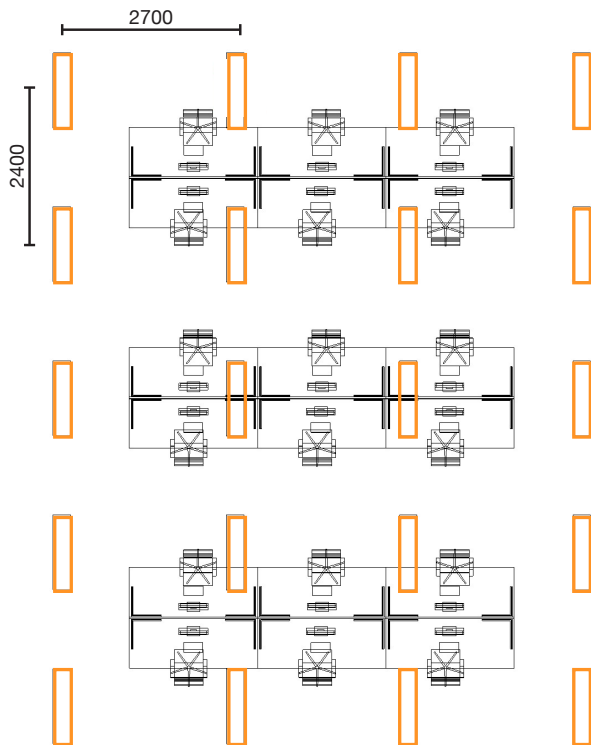


ROOM CALCULATIONS	
REFLECTANCE	Ceiling 70 Wall 50 Floor 20
MAINTENANCE FACTOR	0.8
CEILING HEIGHT	3.0m
ROOM DIMENSIONS	10m x 12m



POWER	25.3 W
LUMINOUS FLUX	2500 lm
IP RATING	IP20
CRI	80
CCT	Beyond Vision
MOUNTING TYPE	Recessed
WARRANTY	10 Years

ROOM CALCULATIONS						
	STANDARD REFERENCED	STANDARD REQUIREMENTS	WORKPLANE (0.7m)	WALLS	FLOOR	CEILING (3m)
AVG. ILLUMINANCE	AS 1680	Workplane >320 lx Floor > 40 lx	333.3lx	199.3lx	224lx	98.2lx
UNIFORMITY	AS 1680	Workplane > 0.7 Floor > 0.3	0.90	0.69	0.58	-
MAX UGR @ 1.2 M HT	AS 1680	<= 19		19		
LIGHT POWER DENSITY	NCC Section J6	4.5		4.2		
CRI	AS 1680	80 <= Ra <= 90		80		



TYPICAL DESIGN

RECESSED LUMINAIRES

ROOM: 10.0M X 12.0M X 3.0M

LUMINAIRE SELECTION



HALEN-300-1200-2503-940-ETD



POWER	25.3 W
LUMINOUS FLUX	2503 lm
IP RATING	IP20
CRI	90
CCT	4000K
MOUNTING TYPE	Recessed
WARRANTY	10 Years

ROOM CALCULATIONS	
REFLECTANCE	Ceiling 70 Wall 50 Floor 20
MAINTENANCE FACTOR	0.8
CEILING HEIGHT	3.0m
ROOM DIMENSIONS	10m x 12m

ROOM CALCULATIONS						
	STANDARD REFERENCED	STANDARD REQUIREMENTS	WORKPLANE (0.7m)	WALLS	FLOOR	CEILING (3m)
AVG. ILLUMINANCE	AS 1680	Workplane >320 lx Floor > 40 lx	342 lx	176.3 lx	224 lx	99 lx
UNIFORMITY	AS 1680	Workplane > 0.7 Floor > 0.3	0.88	0.70	0.59	-
MAX UGR @ 1.2 M HT	AS 1680	<= 19		15.6		
LIGHT POWER DENSITY	NCC Section J6	4.5		3.92		
CRI	AS 1680	80 <= Ra <= 90		90		

