Transcontinental New Oxidiser

Installation : Proposed New Lighting Scheme

Project number : QUO-408742-NTCSL3
Customer :
Processed by : Nicholas Gwilliam
Date : 04.06.2025

Project description:
All room/exterior area dimensions to be checked on-site prior to ordering.

Calculation based on standard reflectance values as 70/50/20 and Maintenance Factor 0.8.

Lighting designed to CIBSE guidelines where applicable and/or client requirements, all stated lux values are for overall averages across the room reference plane.

It is the responsibility of the customer to ensure any scheme provided by Ansell meets all requirements of the end user.

Please Note:

The sensitive lighting scheme has been designed in accordance with the specific action within Ecological Impact Assessment TG Report 15581_R05b_DP_BP_CW 20th Dec2023 with respect to minimum disturbance of commuting / foraging areas of bats by the retention of dark corridor along the boundary of site.

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

Object	:	Transcontinental New Oxidiser
Installation	:	New Lighting
Project number	:	QUO-408742-NTCSL3
Date	:	04.06.2025

1 Luminaire data

1.1 ANSELL, BULKHEADS - Wolf Mini ... (AWOLF/MINI/BLK ...)

1.1.1 Data sheet

Manufacturer: ANSELL

AWOLF/MINI/BLK (WW 8W) **Ceiling mounted luminaire** **BULKHEADS - Wolf Mini Black 3000K**
AWOLF/MINI/BLK
FLOODLIGHTING
Wolf Mini Wallpack CCT Black

• Modern, robust die-cast aluminium low glare wall pack suitable for commercial and industrial applications
• Advanced lens technology offers wide distribution for optimum spacing and uniformity; whilst ensuring minimal uplight and light pollution
• Reduced light pollution with less than 1% upward light distribution, helps with compliance with Dark Skies recommendations
• Power selectable; offering a choice of 2 outputs, in one luminaire
• High efficiency up to 125 Lm/W
• Electrostatic paint finish for enhanced corrosion resistance
• Multiple conduit, 20mm East and West side entries and rear BESA mounting
• Dimmable and Smart options available

Operating Temp -20°C to 40°C

• Suitable for external use
• 5 Year Product Warranty
• IP65

Luminaire data

Absolute Photometry		
Luminaire efficacy	:	115.88 lm/W
Classification	:	A30 ↓100.0% ↑0.0%
CIE Flux Codes	:	39 77 98 100 100
UGR 4H 8H	:	27.6 / 13.6
Control gear	:	Electronic ballast
Power	:	8 W
Luminous flux	:	926.9 lm
Dimensions	:	210 mm x 210 mm x 0.0 mm

Equipped with

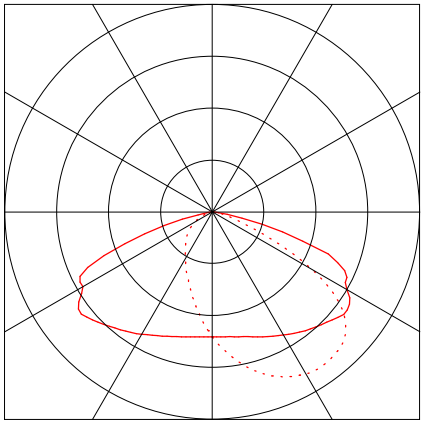
Quantity	:	1
Designation	:	LED single 830
Colour	:	3000K
Socket	:	--
Colour reproduction	:	--

Object	:	Transcontinental New Oxidiser
Installation	:	New Lighting
Project number	:	QUO-408742-NTCSL3
Date	:	04.06.2025

1 Luminaire data

1.1 ANSELL, BULKHEADS - Wolf Mini ... (AWOLF/MINI/BLK ...)

1.1.1 Data sheet







Object	:	Transcontinental New Oxidiser
Installation	:	New Lighting
Project number	:	QUO-408742-NTCSL3
Date	:	04.06.2025

1 Luminaire data

1.2 ANSELL, FLOODLIGHTS - Aztec Fl... (AAZT1/ASY/1 (40...)

1.2.1 Data sheet

Manufacturer: ANSELL

AAZT1/ASY/1 (40W 3000K) Ceiling mounted luminaire FLOODLIGHTS - Aztec Floodlight Asymetric 3000K

- High performance die-cast aluminium LED floodlight
- High output, high efficiency asymmetric lens technology for anti-light pollution
- Integral photocell with 2 x lux settings and (deleted 'on-') off options
- 10KV surge protection on 120W to 320W, 6KV surge protection on 20W to 80W
- Marine grade construction ideal for coastal and adverse weather, swimming pool and chemical plant applications
- CCT selectable between 3000K, 4000K and 5000K
- Fast fit lever terminals ensure easy and speedy loop-in, loop installation
- Pre-installed breathable gland prevents internal moisture accumulation
- LED lifespan L80 100,000 hours
- Operating Temp -30°C - 50°C
- Non-dimmable

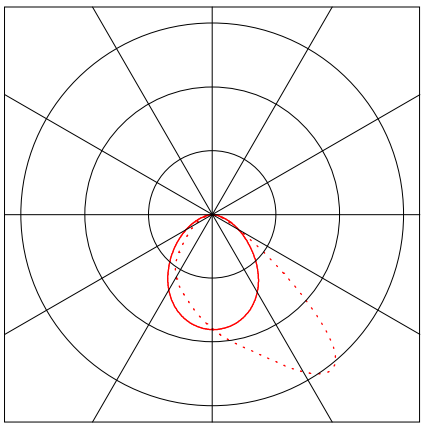
Luminaire data

Absolute Photometry		
Luminaire efficacy	:	160.14 lm/W
Classification	:	A40 ↓100.0% ↑0.0%
CIE Flux Codes	:	53 88 99 100 100
UGR 4H 8H	:	27.5 / 22.6
Control gear	:	Electronic ballast
Power	:	40 W
Luminous flux	:	6405.7 lm

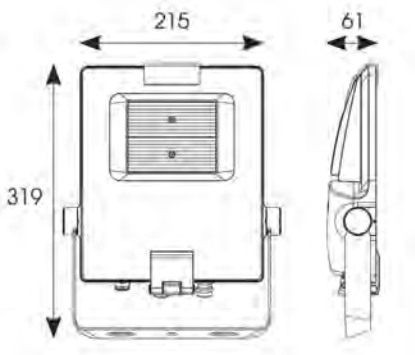
Equipped with

Quantity	:	1
Designation	:	LED
Colour	:	
Socket	:	--

Dimensions : 253 mm x 215 mm x 73 mm







Object	:	Transcontinental New Oxidiser
Installation	:	New Lighting
Project number	:	QUO-408742-NTCSL3
Date	:	04.06.2025

1 Luminaire data

1.3 ANSELL, WEATHERPROOFS & BATTEN... (ATORE2/1/SM3 (1...)

1.3.1 Data sheet

Manufacturer: ANSELL

ATORE2/1/SM3 (10W 4000K) Ceiling mounted luminaire WEATHERPROOFS & BATTENS - Tornado EVO 4000K

Supplied c/w Integral Driver

- IP65 non-corrosive batten suitable for industrial applications and ancillary areas
- High efficiency up to 160 Lm/W
- CCT selectable between 4000K, 5000K and 6500K and power selectable; offering a choice of 2 outputs, in one luminaire
- Slim sloped diffuser design creates sleek appearance and offers greater light distribution
- LED performance allows point-to-point replacement of existing fluorescent luminaires
- Lockable heavy-duty stainless steel clips supplied as standard for added safety and security
- Whole luminaire illuminates during emergency operation rather than a small area, allowing less emergency versions required on an installation

Operating Temp -20°C to 40°C

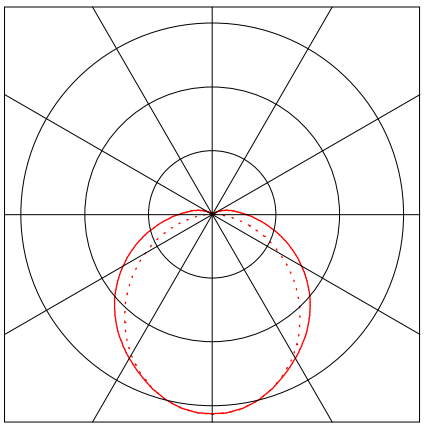
- Suitable for both internal and external use
- 5 Year Product Warranty
- IP65

Luminaire data

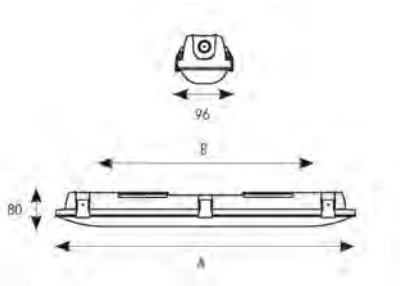
Absolute Photometry		
Luminaire efficacy	:	115.08 lm/W
Classification	:	A31 ↓94.3% ↑5.7%
CIE Flux Codes	:	44 73 91 94 100
UGR 4H 8H	:	26.2 / 22.7
Control gear	:	Electronic ballast
Power	:	12 W
Luminous flux	:	1381.1 lm
Dimensions	:	600 mm x 96 mm x 80 mm

Equipped with

Quantity	:	1
Designation	:	LED
Colour	:	
Socket	:	--







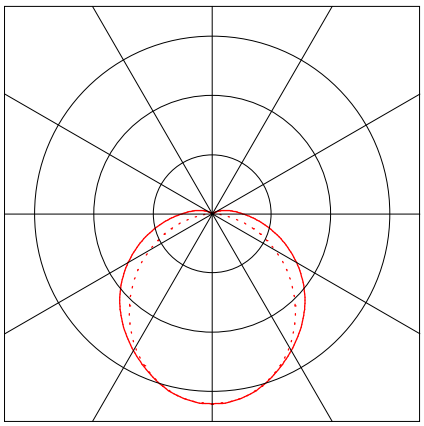
Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

1 Luminaire data

1.3 ANSELL, WEATHERPROOFS & BATTEN... (ATORE2/1/SM3 (1...)

1.3.1 Data sheet

Emergency Lighting
Emergency lighting with own light source
Absolute Photometry
Luminous flux : 141 lm



Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

1 Luminaire data

1.4 ANSELL, BULKHEADS - Wolf Mini ... (AWOLF/MINI/BLK/...)

1.4.1 Data sheet

Manufacturer: ANSELL

AWOLF/MINI/BLK/SM3 (WW 8W) **Ceiling mounted luminaire** **BULKHEADS - Wolf Mini Black 3000K**
AWOLF/MINI/BLK/M3
FLOODLIGHTING
Wolf Mini Wallpack CCT Black

• Modern, robust die-cast aluminium low glare wall pack suitable for commercial and industrial applications
• Advanced lens technology offers wide distribution for optimum spacing and uniformity; whilst ensuring minimal uplight and light pollution
• Reduced light pollution with less than 1% upward light distribution, helps with compliance with Dark Skies recommendations
• Power selectable; offering a choice of 2 outputs, in one luminaire
• High efficiency up to 125 Lm/W
• Electrostatic paint finish for enhanced corrosion resistance
• Multiple conduit, 20mm East and West side entries and rear BESA mounting
• Dimmable and Smart options available

Operating Temp -20°C to 40°C

• Suitable for external use
• 5 Year Product Warranty
• IP65

Luminaire data

Absolute Photometry		
Luminaire efficacy	:	115.88 lm/W
Classification	:	A30 ↓100.0% ↑0.0%
CIE Flux Codes	:	39 77 98 100 100
UGR 4H 8H	:	27.6 / 13.6
Control gear	:	Electronic ballast
Power	:	8 W
Luminous flux	:	926.9 lm
Dimensions	:	210 mm x 210 mm x 0.0 mm

Equipped with

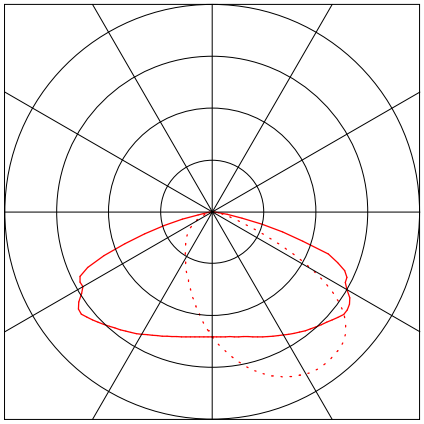
Quantity	:	1
Designation	:	LED single 830
Colour	:	3000K
Socket	:	--
Colour reproduction	:	--

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

1 Luminaire data

1.4 ANSELL, BULKHEADS - Wolf Mini ... (AWOLF/MINI/BLK/...)

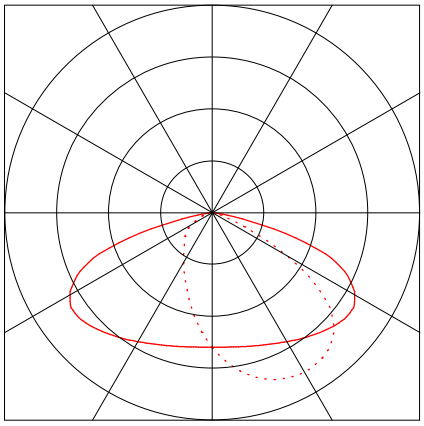
1.4.1 Data sheet







Emergency Lighting
Emergency lighting with own light source
Absolute Photometry
Luminous flux : 374 lm



Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

1 Luminaire data

1.5 ANSELL, FLOODLIGHTS - Aztec Fl... (AAZT1/ASY/1/M3 ...)

1.5.1 Data sheet

Manufacturer: ANSELL

AAZT1/ASY/1/M3 (40W 4000K) Ceiling mounted luminaire FLOODLIGHTS - Aztec Floodlight Asymetric 4000K

- High performance die-cast aluminium LED floodlight
- High output, high efficiency asymmetric lens technology for anti-light pollution
- Integral photocell with 2 x lux settings and (deleted 'on-') off options
- 10KV surge protection on 120W to 320W, 6KV surge protection on 20W to 80W
- Marine grade construction ideal for coastal and adverse weather, swimming pool and chemical plant applications
- CCT selectable between 3000K, 4000K and 5000K
- Fast fit lever terminals ensure easy and speedy loop-in, loop installation
- Pre-installed breathable gland prevents internal moisture accumulation
- LED lifespan L80 100,000 hours
- Operating Temp -30°C - 50°C
- Non-dimmable

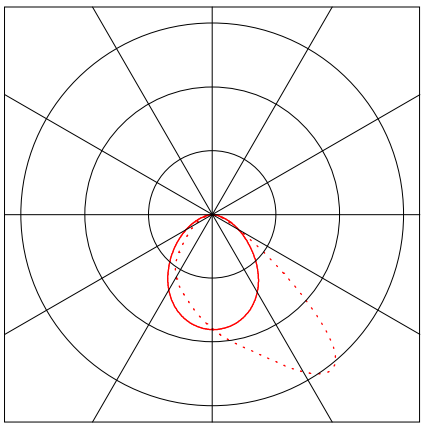
Luminaire data

Absolute Photometry		
Luminaire efficacy	:	176.64 lm/W
Classification	:	A40 ↓100.0% ↑0.0%
CIE Flux Codes	:	53 88 99 100 100
UGR 4H 8H	:	27.9 / 23.0
Control gear	:	Electronic ballast
Power	:	40 W
Luminous flux	:	7065.3 lm

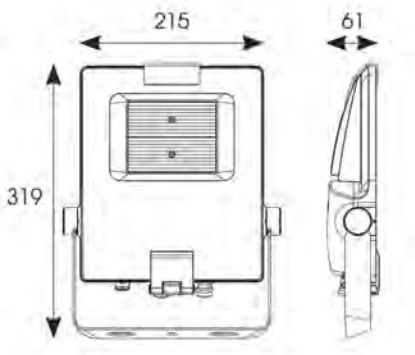
Dimensions : 253 mm x 215 mm x 73 mm

Equipped with

Quantity	:	1
Designation	:	LED
Colour	:	
Socket	:	--







Emergency Lighting

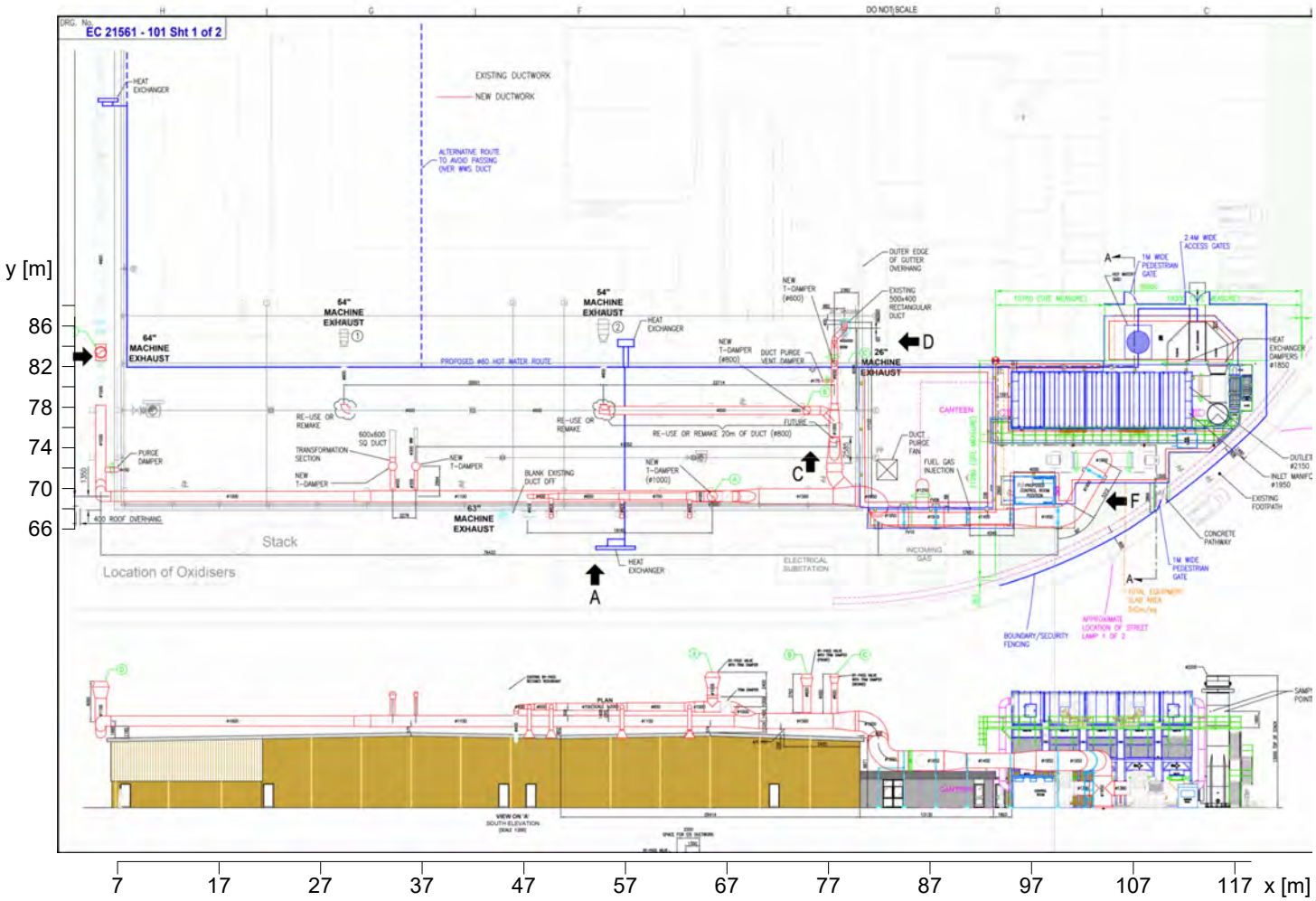
Light source from normal operation with reduced flux
Luminous flux : 1196 lm

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Floor plan

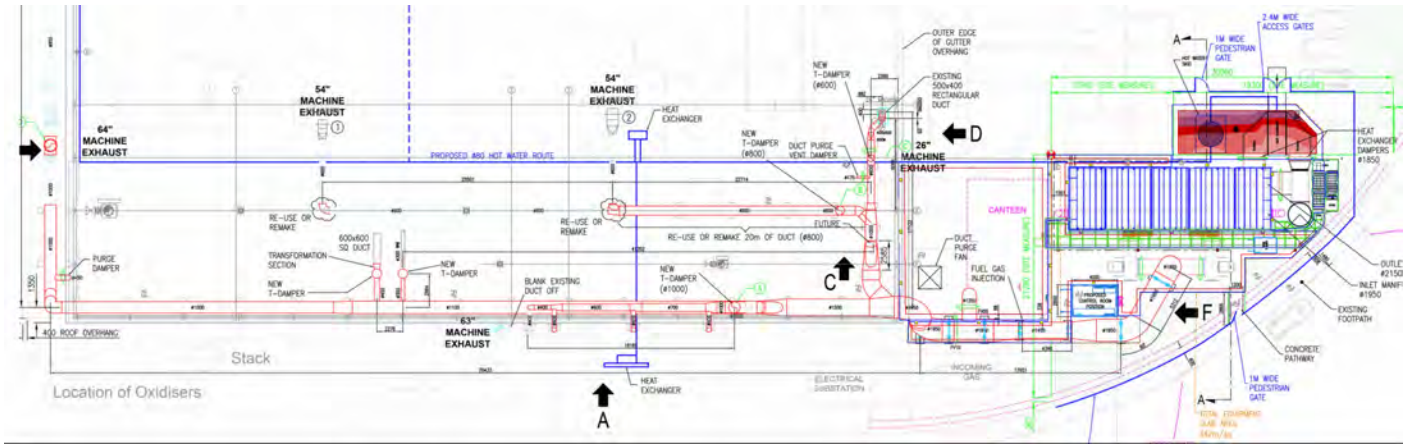


Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Walkway



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Luminaire luminous flux	1381 lm
Total power	12.0 W
Total power per area (60.31 m²)	0.20 W/m² (0.91 W/m²/100lx)

Walkway	**Walkway**
	Horizontal
$\bar{E}_m$	21.8 lx
E_{min}	8.3 lx
$E_{min}/\bar{E}_m$ (U_o)	0.38
E_{min}/E_{max} (U_d)	0.18
Position	0.00 m

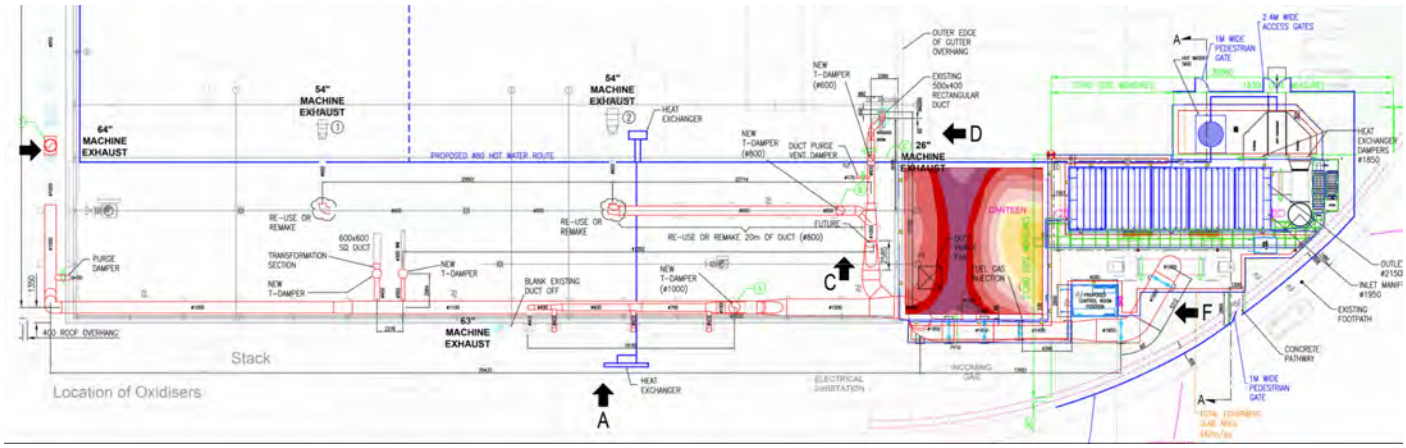
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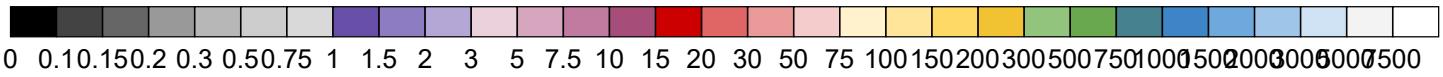
		ANSELL	
3	1E x	Order No.	: ATORE2/1/SM3 (10W 4000K) -- Emergency Lighting --
		Luminaire name	: WEATHERPROOFS & BATTENS - Tornado EVO 4000K
		Equipment	: 1 x LED 12 W / 1381 lm
		Emergency	: 141 lm (10.2 %)

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.2 Summary, Exterior 1

2.2.2 Result overview, Canteen Mezz





General

Calculation algorithm used	Average indirect fraction
Position	3.61 m
Maintenance factor	0.80
Total lamp luminous flux	11228 lm
Luminaire luminous flux	11227 lm
Total power	76.0 W
Total power per area (180.53 m²)	0.42 W/m² (0.91 W/m²/100lx)

Canteen Mezz	**Canteen Mezz**
	Horizontal
$\bar{E}_m$	46.1 lx
E_{min}	9 lx
$E_{min}/\bar{E}_m$ (U_o)	0.20
E_{min}/E_{max} (U_d)	0.05
Position	0.00 m

Type No.\Make

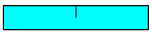
		ANSELL	
1	3 x	Order No.	: AWOLF/MINI/BLK (WW 8W)
		Luminaire name	: BULKHEADS - Wolf Mini Black 3000K
		Equipment	: 1 x LED single 830 8 W / 927 lm

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.2 Summary, Exterior 1

2.2.2 Result overview, Canteen Mezz

3 1 x



Order No. : ATORE2/1/SM3 (10W 4000K)
Luminaire name : WEATHERPROOFS & BATTENS - Tornado EVO 4000K
Equipment : 1 x LED 12 W / 1381 lm
Emergency : 141 lm (10.2 %)

5 1E x

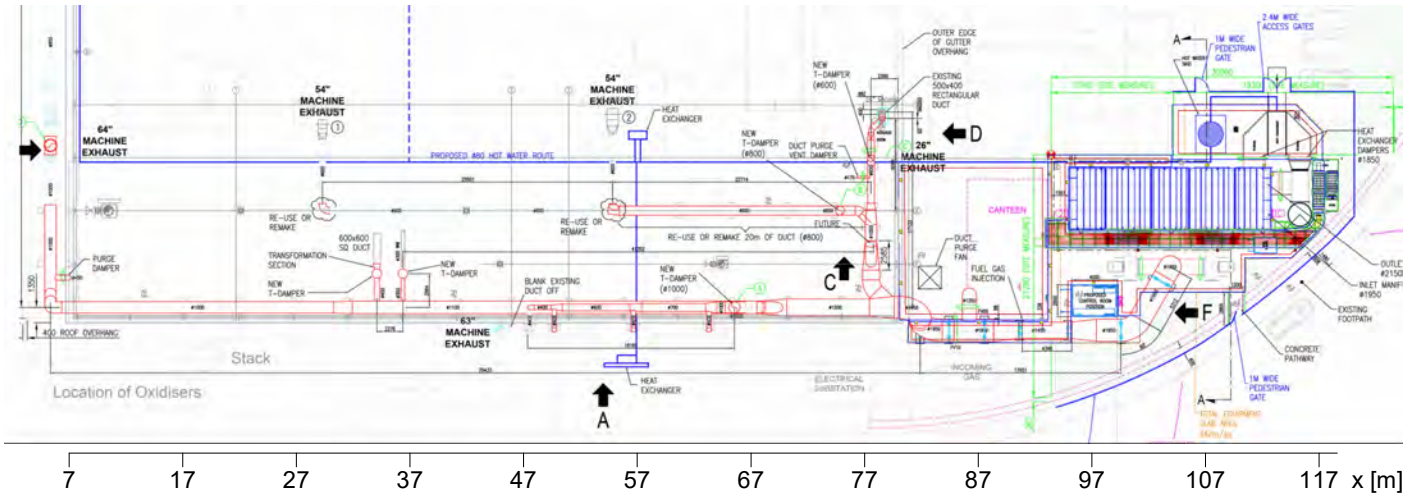


Order No. : AAZT1/ASY/1/M3 (40W 4000K) -- Emergency Lighting --
Luminaire name : FLOODLIGHTS - Aztec Floodlight Asymetric 4000K
Equipment : 1 x LED 40 W / 7065.4 lm
Emergency : 1196 lm (16.9 %)

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.2 Summary, Exterior 1

2.2.3 Result overview, Platform



General

Calculation algorithm used	Average indirect fraction
Position	7.92 m
Maintenance factor	0.80
Total lamp luminous flux	5089 lm
Luminaire luminous flux	5089 lm
Total power	44.0 W
Total power per area (36.33 m²)	1.21 W/m² (4.14 W/m²/100lx)

Platform	**Platform**
	Horizontal
$\bar{E}_m$	29.3 lx
E_{min}	11.6 lx
$E_{min}/\bar{E}_m$ (U_o)	0.39
E_{min}/E_{max} (U_d)	0.06
Position	0.00 m

Type No.\Make

3 1E x **ANSELL**
Order No. : ATORE2/1/SM3 (10W 4000K) -- Emergency Lighting --
Luminaire name : WEATHERPROOFS & BATTENS - Tornado EVO 4000K
Equipment : 1 x LED 12 W / 1381 lm
Emergency : 141 lm (10.2 %)

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.2 Summary, Exterior 1

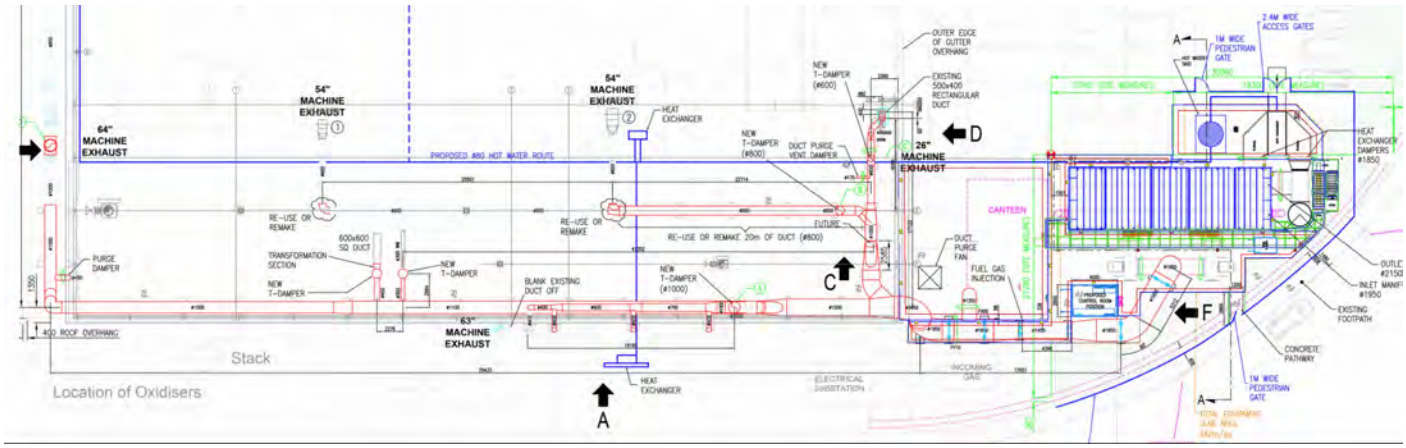
2.2.3 Result overview, Platform

4	4E x	Order No.	: AWOLF/MINI/BLK/SM3 (WW 8W)	-- Emergency Lighting --
		Luminaire name	: BULKHEADS - Wolf Mini Black 3000K	
		Equipment	: 1 x LED single 830 8 W / 927 lm	
		Emergency	: 374 lm (40.3 %)	

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.2 Summary, Exterior 1

2.2.4 Result overview, Stairs



General

Calculation algorithm used	Average indirect fraction
Position	7.74 m
Maintenance factor	0.80
Luminaire luminous flux	2762 lm
Total power	24.0 W
Total power per area (3.69 m²)	6.50 W/m²

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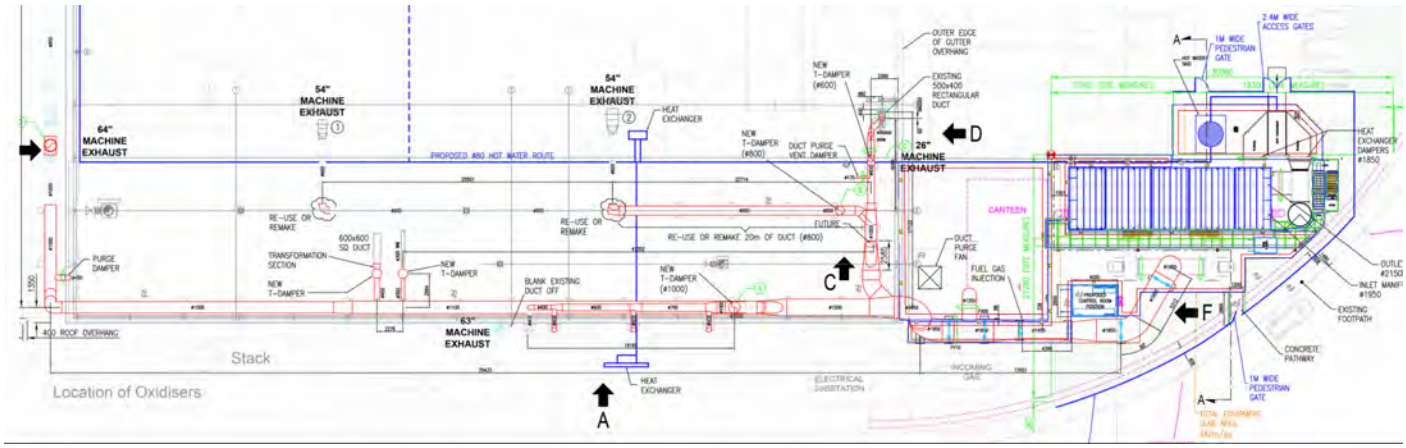
3 2E x **ANSELL**

Order No.	: ATORE2/1/SM3 (10W 4000K) -- Emergency Lighting --
Luminaire name	: WEATHERPROOFS & BATTENS - Tornado EVO 4000K
Equipment	: 1 x LED 12 W / 1381 lm
Emergency	: 141 lm (10.2 %)

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.2 Summary, Exterior 1

2.2.5 Result overview, Stairs





General

Calculation algorithm used	Average indirect fraction
Position	5.48 m
Maintenance factor	0.80
Luminaire luminous flux	2762 lm
Total power	24.0 W
Total power per area (3.38 m²)	7.09 W/m²

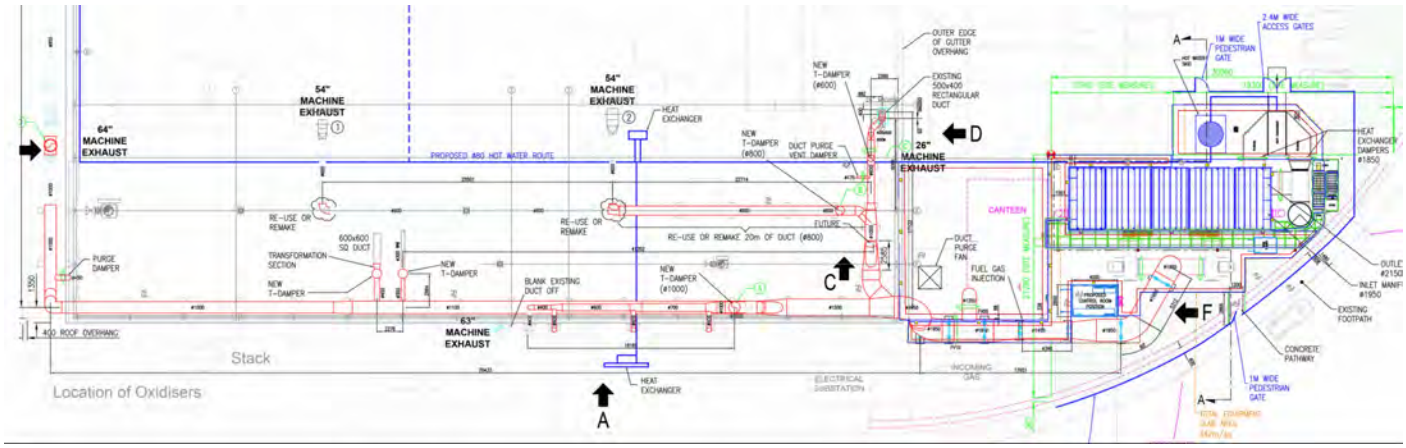
Type No.\Make

3 2E x **ANSELL**
Order No. : ATORE2/1/SM3 (10W 4000K) -- Emergency Lighting --
Luminaire name : WEATHERPROOFS & BATTENS - Tornado EVO 4000K
Equipment : 1 x LED 12 W / 1381 lm
Emergency : 141 lm (10.2 %)

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.2 Summary, Exterior 1

2.2.6 Result overview, Stairs



7 17 27 37 47 57 67 77 87 97 107 117 x [m]

0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500 750 1000 1500 2000 3000 5000 7500
Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Position	2.84 m
Maintenance factor	0.80
Luminaire luminous flux	2762 lm
Total power	24.0 W
Total power per area (3.69 m²)	6.50 W/m²

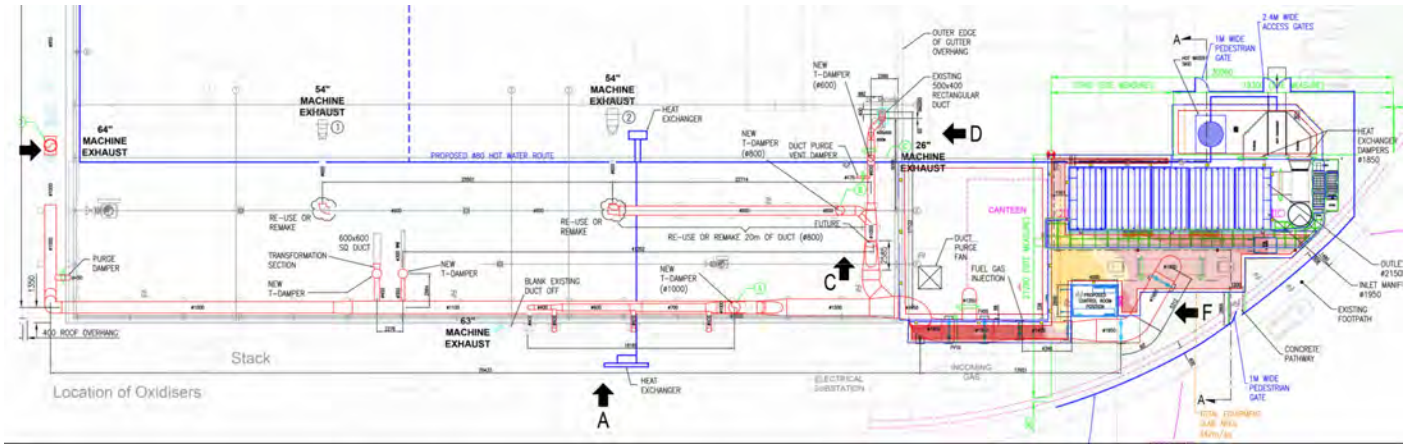
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		ANSELL	
3	2E x	Order No.	: ATORE2/1/SM3 (10W 4000K) -- Emergency Lighting --
		Luminaire name	: WEATHERPROOFS & BATTENS - Tornado EVO 4000K
		Equipment	: 1 x LED 12 W / 1381 lm
		Emergency	: 141 lm (10.2 %)

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.2 Summary, Exterior 1

2.2.7 Result overview, Evaluation area 8



General

Calculation algorithm used	Average indirect fraction
Maintenance factor	0.80
Total lamp luminous flux	40188 lm
Luminaire luminous flux	40186 lm
Total power	280.0 W
Total power per area (158.89 m²)	1.76 W/m² (2.75 W/m²/100lx)

Evaluation area 8	**Reference plane 8.1**
	Horizontal
$\bar{E}_m$	64.2 lx
E_{min}	22.8 lx
$E_{min}/\bar{E}_m$ (U_o)	0.36
E_{min}/E_{max} (U_d)	0.17
Position	0.00 m

Type No.\Make

		ANSELL	
1	11 x	Order No.	: AWOLF/MINI/BLK (WW 8W)
		Luminaire name	: BULKHEADS - Wolf Mini Black 3000K
		Equipment	: 1 x LED single 830 8 W / 927 lm

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.2 Summary, Exterior 1

2.2.7 Result overview, Evaluation area 8

2 3 x 
Order No. : AAZT1/ASY/1 (40W 3000K)
Luminaire name : FLOODLIGHTS - Aztec Floodlight Asymetric 3000K
Equipment : 1 x LED 40 W / 6405.8 lm

4 4E x 
Order No. : AWOLF/MINI/BLK/SM3 (WW 8W) -- Emergency Lighting --
Luminaire name : BULKHEADS - Wolf Mini Black 3000K
Equipment : 1 x LED single 830 8 W / 927 lm
Emergency : 374 lm (40.3 %)

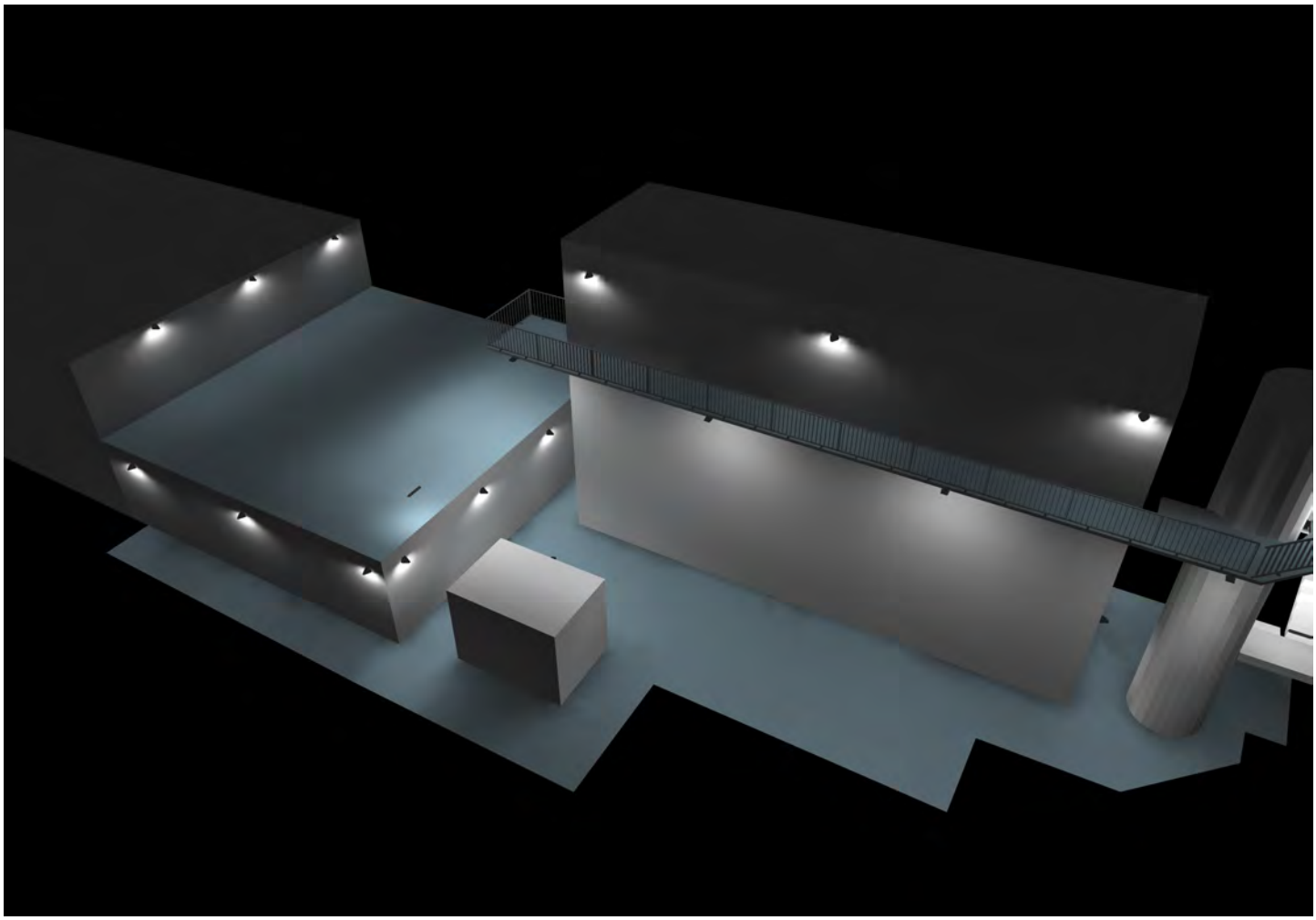
5 1E x 
Order No. : AAZT1/ASY/1/M3 (40W 4000K) -- Emergency Lighting --
Luminaire name : FLOODLIGHTS - Aztec Floodlight Asymetric 4000K
Equipment : 1 x LED 40 W / 7065.4 lm
Emergency : 1196 lm (16.9 %)

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2 Exterior 1

2.3 Calculation results, Exterior 1

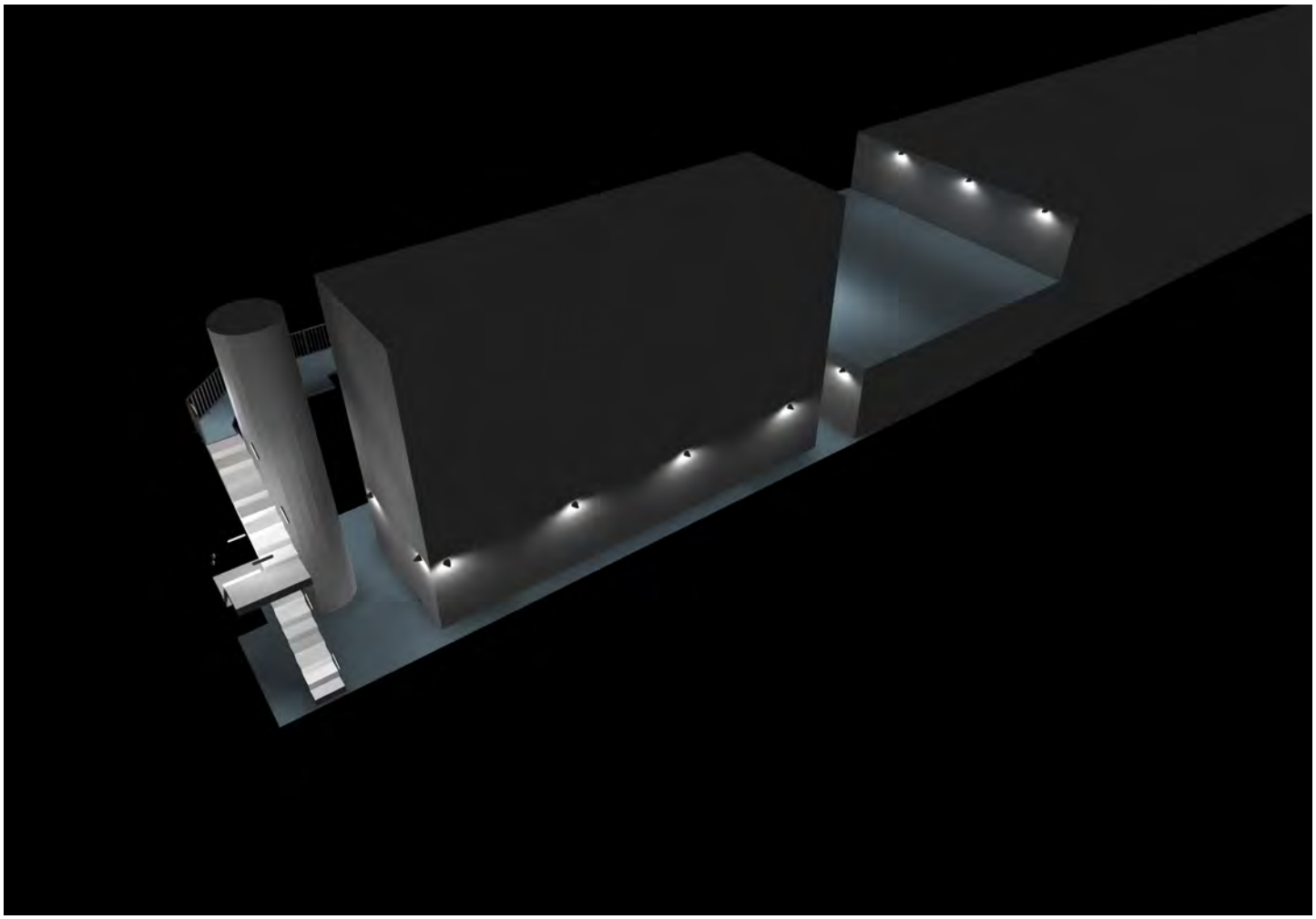
2.3.1 3D luminance, View 1



Luminance in the scene
Minimum: : 0 cd/m²
Maximum: : 175 cd/m²

2.3 Calculation results, Exterior 1

2.3.2 3D luminance, View 2

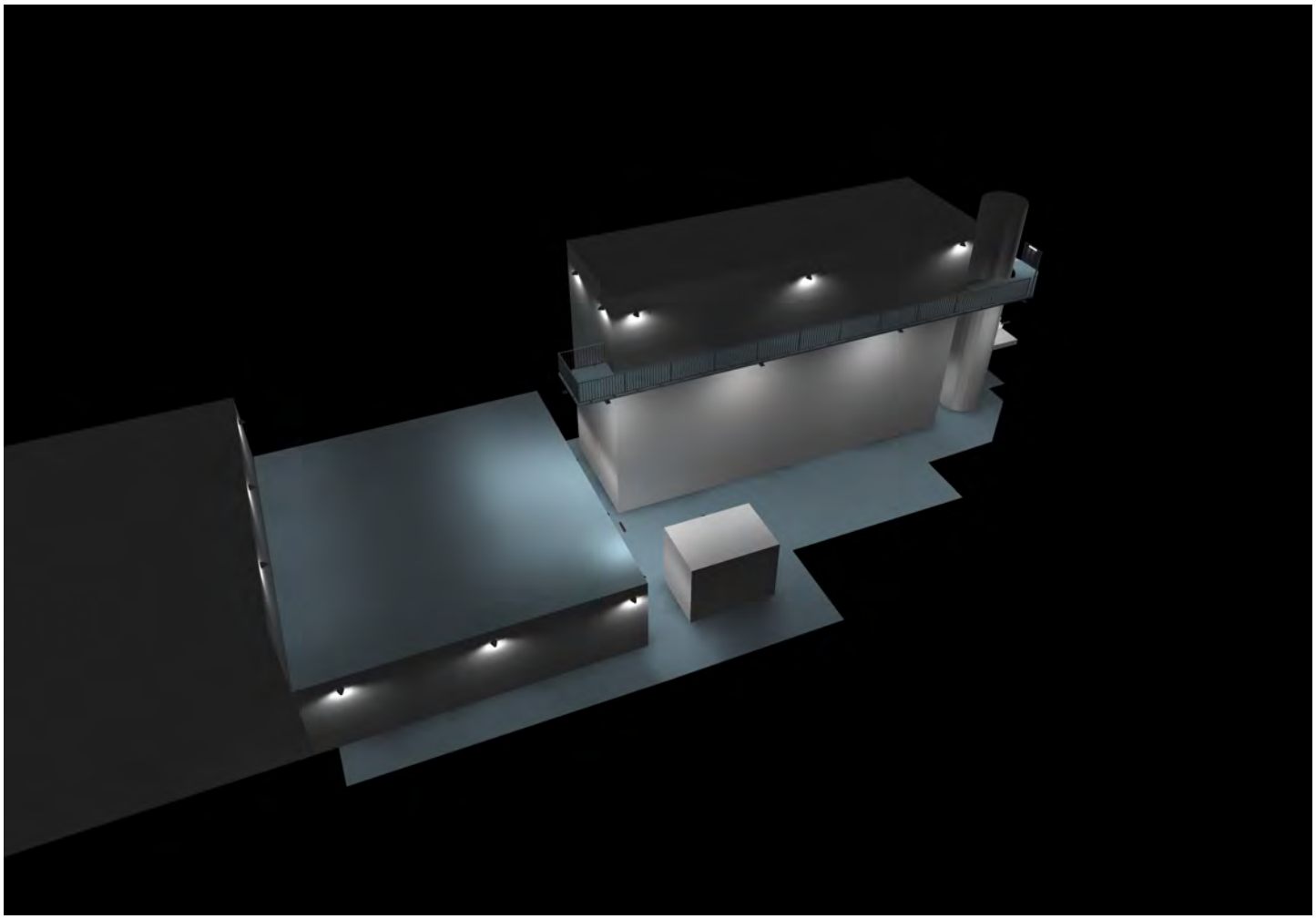


Luminance in the scene
Minimum: : 0 cd/m²
Maximum: : 175 cd/m²

Object : Transcontinental New Oxidiser :
Installation New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2.3 Calculation results, Exterior 1

2.3.3 3D luminance, View 3



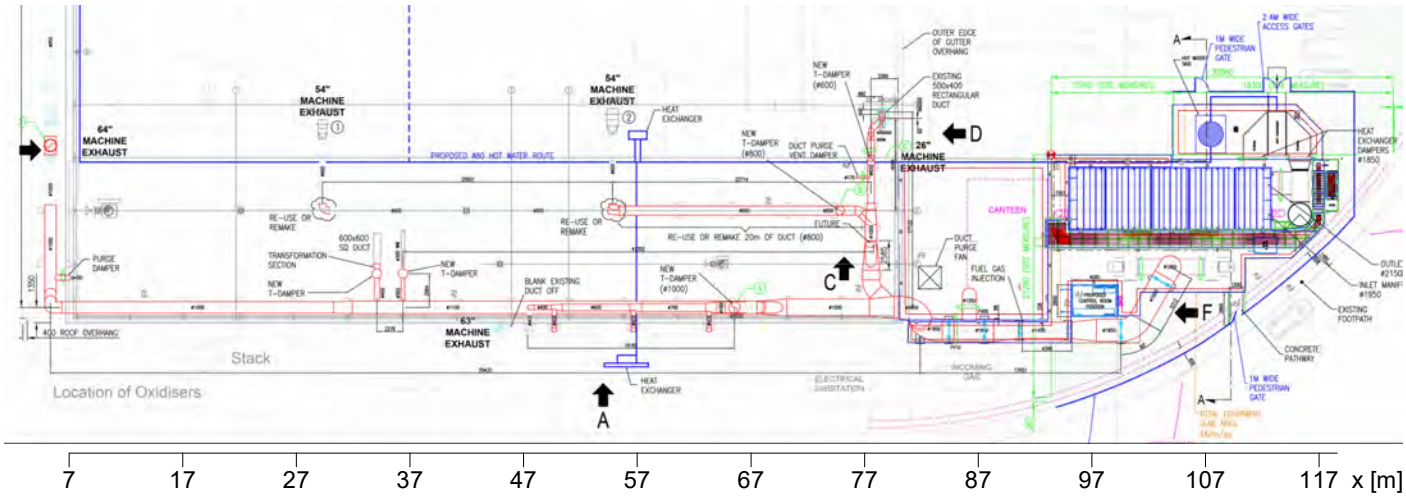
Luminance in the scene
Minimum: : 0 cd/m²
Maximum: : 175 cd/m²

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2 Exterior 1

2.4 Summary, Exterior 1

2.4.1.1 Result overview (emergency lighting)



General

Calculation algorithm used	: Direct component
Maintenance factor	: 0.8
Height (phot.centre)	-variable-
Maximum I	: 730 cd

Anti panic area:

No.	Emin [lx]	Surface Emax [lx]	Ud
1 Stairs			
Calculation field: 3.23m x 0.36m (33 x 4 pts), Height = 7.57m			
1	7.10 lx	20.42 lx	1: 2.88
	>= 1 lx		>= 1 : 40
2 Stairs			
Calculation field: 2.79m x 0.66m (19 x 4 pts), Height = 5.29m			
2	8.73 lx	22.41 lx	1: 2.57
	>= 1 lx		>= 1 : 40
3 Stairs			
Calculation field: 3.23m x 0.36m (33 x 4 pts), Height = 2.63m			
3	5.94 lx	15.88 lx	1: 2.67
	>= 1 lx		>= 1 : 40

Object : Transcontinental New Oxidiser
Installation : New Lighting
Project number : QUO-408742-NTCSL3
Date : 04.06.2025

2 Exterior 1

2.4 Summary, Exterior 1

2.4.1.1 Result overview (emergency lighting)

1 Platform

Calculation field: 2.57m x 23.99m (13 x 118 pts), Height = 7.92m

4	3.93 lx	20.25 lx	1: 5.15
	>= 1 lx		>= 1 : 40

Type No.\Make

ANSELL

3 9E x
Order No. : ATORE2/1/SM3 (10W 4000K) -- Emergency Lighting --
Luminaire name : WEATHERPROOFS & BATTENS - Tornado EVO 4000K
Equipment : 1 x LED 12 W / 1381 lm
Emergency : 141 lm (10.2 %)

4 4E x
Order No. : AWOLF/MINI/BLK/SM3 (WW 8W) -- Emergency Lighting --
Luminaire name : BULKHEADS - Wolf Mini Black 3000K
Equipment : 1 x LED single 830 8 W / 927 lm
Emergency : 374 lm (40.3 %)

5 2E x
Order No. : AAZT1/ASY/1/M3 (40W 4000K) -- Emergency Lighting --
Luminaire name : FLOODLIGHTS - Aztec Floodlight Asymetric 4000K
Equipment : 1 x LED 40 W / 7065.4 lm
Emergency : 1196 lm (16.9 %)