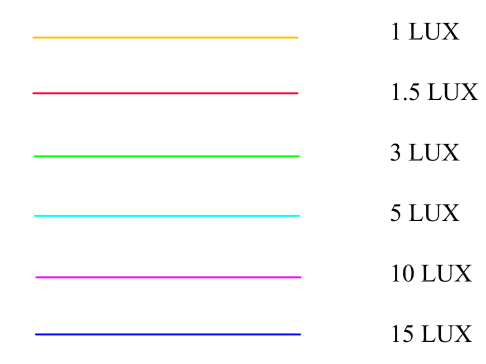


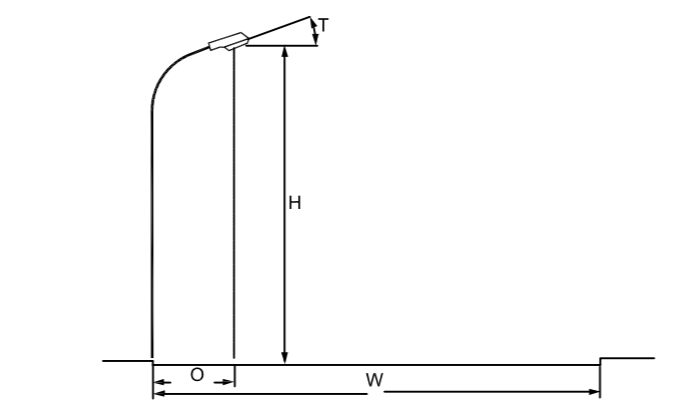
**HORIZONTAL ILLUMINANCE LEVELS
(ISO CONTOUR VALUES)**



All calculations performed by this version of AutoLUX are as specified as in B.S. 5499-1:2020

SINGLE SIDED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
Lamp Type OSRAM DURIS S8 CR70
Lamp Flux 2900 lumen
Tilt 0.0 deg
Calculation Grid BS5499-1:2020 ILLUMINANCE Class P4
Mixt. Factor (MF) 0.87



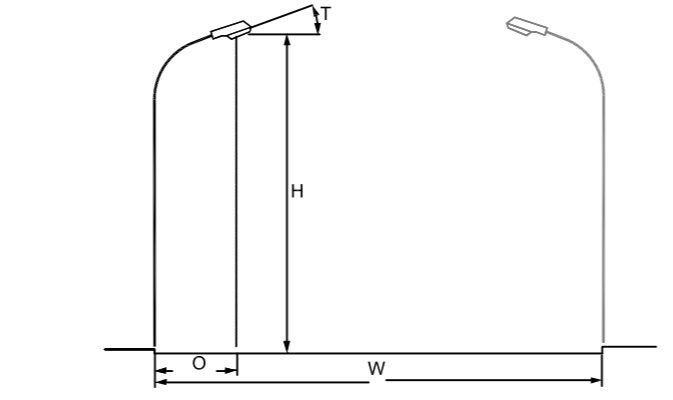
Cartway Width (W)	6.00 m
Number of Lanes	2
Installation Height (H)	6.00 m
Spacing (S)	38.00 m / 28.00 m
Left Footpath	2.00 m
Setback (O)	0.00 m
Outreach	0.00 m
Overhang	0.50 m

Horizontal Illuminance	
Average	5.02 lux / 7.39 lux
Minimum	1.87 lux / 4.75 lux
Emm/Ave (lx)	0.33 / 0.64

AS VERIFIED BY LIGHTING REALITY

STAGGERED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
Lamp Type OSRAM DURIS S8 CR70
Lamp Flux 2900 lumen
Tilt 0.0 deg
Calculation Grid BS5499-1:2020 ILLUMINANCE Class P4
Mixt. Factor (MF) 0.87



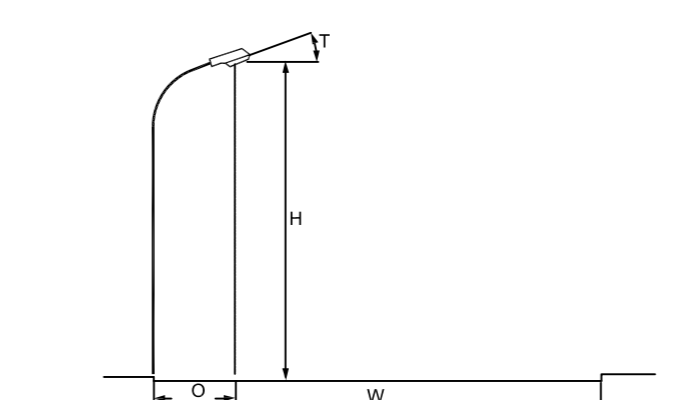
Cartway Width (W)	9.50 m
Number of Lanes	2
Installation Height (H)	6.00 m
Spacing (S)	34.50 m / 23.50 m
Left Footpath	2.00 m
Setback (O)	2.00 m
Outreach	-1.50 m
Overhang	2.00 m
Right Outreach	0.50 m
Right Overhang	-1.50 m

Horizontal Illuminance	
Average	5.08 lux / 7.45 lux
Minimum	2.85 lux / 3.85 lux
Emm/Ave (lx)	0.56 / 0.52

AS VERIFIED BY LIGHTING REALITY

SINGLE SIDED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
Lamp Type OSRAM DURIS S8 CR70
Lamp Flux 2900 lumen
Tilt 0.0 deg
Calculation Grid BS5499-1:2020 ILLUMINANCE Class P4
Mixt. Factor (MF) 0.87



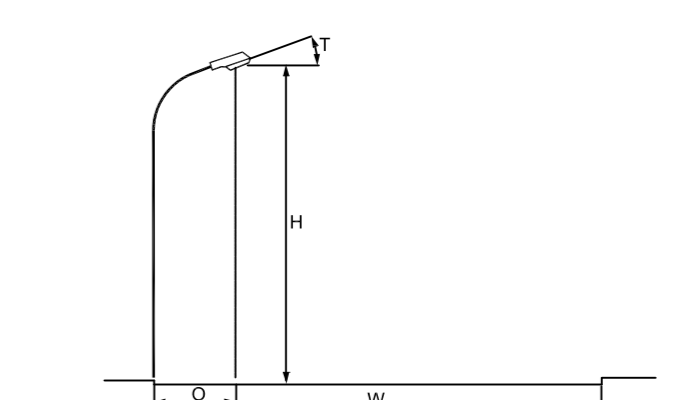
Cartway Width (W)	5.50 m
Number of Lanes	2
Installation Height (H)	6.00 m
Spacing (S)	37.50 m / 25.50 m
Left Footpath	0.00 m
Setback (O)	0.00 m
Outreach	0.50 m
Overhang	0.50 m

Horizontal Illuminance	
Average	5.05 lux / 7.48 lux
Minimum	1.76 lux / 4.64 lux
Emm/Ave (lx)	0.35 / 0.62

AS VERIFIED BY LIGHTING REALITY

SINGLE SIDED-FOOTPATH

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
Lamp Type OSRAM DURIS S8 CR70
Lamp Flux 2900 lumen
Tilt 0.0 deg
Calculation Grid BS5499-1:2020 ILLUMINANCE Class P4
Mixt. Factor (MF) 0.87



Cartway Width (W)	2.00 m
Number of Lanes	2
Installation Height (H)	6.00 m
Spacing (S)	34.00 m / 23.00 m
Left Footpath	0.00 m
Setback (O)	0.00 m
Outreach	0.50 m
Overhang	0.50 m

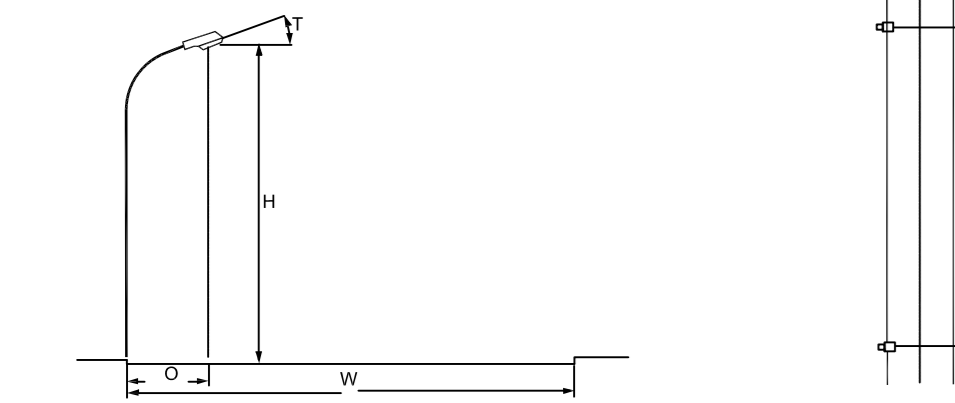
Horizontal Illuminance	
Average	5.82 lux / 7.48 lux
Minimum	3.15 lux / 4.75 lux
Emm/Ave (lx)	0.63 / 0.64

AS VERIFIED BY LIGHTING REALITY



SINGLE SIDED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
Lamp Type OSRAM DURIS S8 CR70
Lamp Flux 2900 lumen
Tilt 0.0 deg
Calculation Grid BS5499-1:2020 ILLUMINANCE Class P4
Mixt. Factor (MF) 0.87



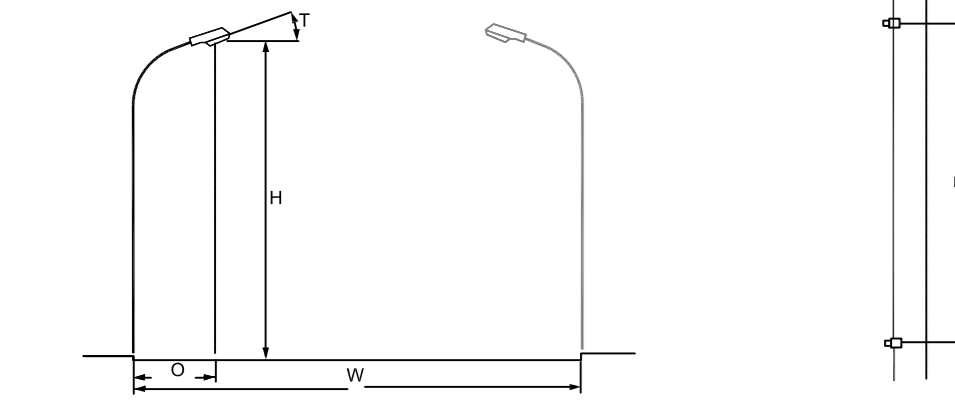
Cartway Width (W)	9.50 m
Number of Lanes	2
Installation Height (H)	6.00 m
Spacing (S)	34.50 m / 23.50 m
Left Footpath	2.00 m
Setback (O)	2.00 m
Outreach	-1.50 m
Overhang	2.00 m
Right Footpath	2.00 m

Horizontal Illuminance	
Average	5.06 lux / 7.47 lux
Minimum	3.04 lux / 1.25 lux
Emm/Ave (lx)	0.80 / 0.57

AS VERIFIED BY LIGHTING REALITY

STAGGERED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2
Lamp Type OSRAM DURIS S8 CR70
Lamp Flux 2900 lumen
Tilt 0.0 deg
Calculation Grid BS5499-1:2020 ILLUMINANCE Class P4
Mixt. Factor (MF) 0.87



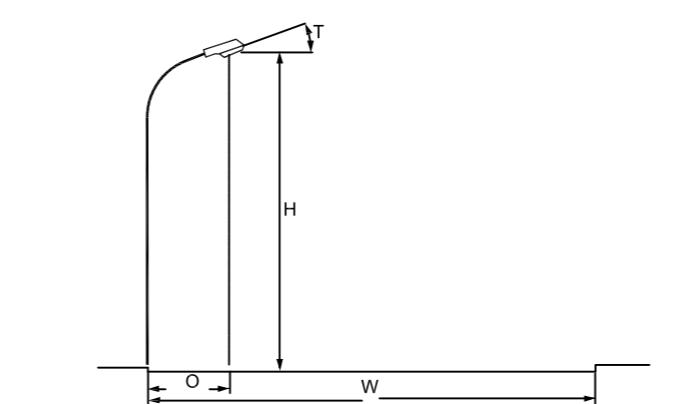
Cartway Width (W)	9.50 m
Number of Lanes	2
Installation Height (H)	6.00 m
Spacing (S)	34.50 m / 23.50 m
Left Footpath	2.00 m
Setback (O)	2.00 m
Outreach	-1.50 m
Overhang	2.00 m
Right Footpath	2.00 m
Right Outreach	0.50 m
Right Overhang	-1.50 m

Horizontal Illuminance	
Average	5.06 lux / 7.45 lux
Minimum	2.85 lux / 3.85 lux
Emm/Ave (lx)	0.56 / 0.52

AS VERIFIED BY LIGHTING REALITY

SINGLE SIDED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0175mA, Op2
Lamp Type OSRAM DURIS S8 CR70
Lamp Flux 4630 lumen
Tilt 0.0 deg
Calculation Grid BS5499-1:2020 ILLUMINANCE Class P3
Mixt. Factor (MF) 0.87



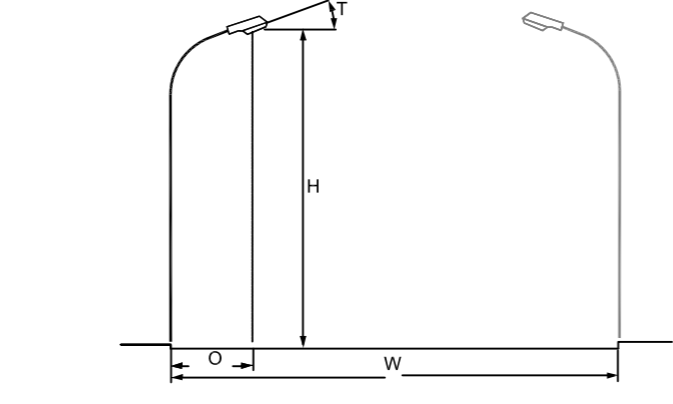
Cartway Width (W)	10.50 m
Number of Lanes	2
Installation Height (H)	6.00 m
Spacing (S)	34.00 m / 23.00 m
Left Footpath	2.00 m
Setback (O)	2.00 m
Outreach	-1.50 m
Overhang	2.00 m
Right Footpath	2.00 m

Horizontal Illuminance	
Average	7.59 lux / 11.24 lux
Minimum	4.00 lux / 5.57 lux
Emm/Ave (lx)	0.53 / 0.50

AS VERIFIED BY LIGHTING REALITY

STAGGERED-STREET

Luminaire Cat. No. IGNS mini Plus - 24 LEDs, V20, 4000K, 0175mA, Op2
Lamp Type OSRAM DURIS S8 CR70
Lamp Flux 4630 lumen
Tilt 0.0 deg
Calculation Grid BS5499-1:2020 ILLUMINANCE Class P3
Mixt. Factor (MF) 0.87



Cartway Width (W)	10.50 m
Number of Lanes	2
Installation Height (H)	6.00 m
Spacing (S)	34.00 m / 23.50 m
Left Footpath	2.00 m
Setback (O)	0.50 m
Outreach	-1.50 m
Overhang	2.00 m
Right Footpath	2.00 m
Right Outreach	0.50 m
Right Overhang	-1.50 m

Horizontal Illuminance	
Average	7.58 lux / 11.05 lux
Minimum	3.87 lux / 4.89 lux
Emm/Ave (lx)	0.51 / 0.42

AS VERIFIED BY LIGHTING REALITY

NOTES :

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REV	DESCRIPTION	DRWN	CHKD	DATE

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E-mail: technical@aspectlightingdesign.co.uk



Bellway
Unit 6 Alderstone Business Park
Lingstone EH54 7DF
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www.bellway.co.uk

**PRD ROTHES MILL
GLENNROTHES**

**PHOTOMETRY DRAWING
(ILLUMINANCE LEVELS)
for ALD.38.74 Sheet-2**

DRAWN BY: A.L.D.	CHECKED BY: JDR	DATE: 24/02/21
SCALE: 1 : 500 @ A0		REVISION:

EXISTING AXIA 2.1 5178 - 24 Nichia NVSL219CT 750mA NW Z30V Without protector 383422 LANTERN
lamp(s): 24 Nichia NVSL219CT
candela file AXIA 2.1 5178 24 Nichia NVSL219CT 750mA NW 383422 Without protector - 230V TF Jdr
1 lamp(s) per luminaire, 2210 initial lumens per lamp,
Maintenance Factor = 0.87, watts per luminaire = 54
Outreach (from mounting axis to photometric center) 2000 mm
tilt angle= 5 deg
mounting height= 8 m
number locations= 4, number luminaires= 4

PREVIOUSLY PROPOSED ORANGETEK IGNS mini Plus - 24 LEDs, V20, 4000K, 0175mA, Op2 LANTERN
lamp(s): OSRAM DURIS S8 CR70
candela file IGNS mini Plus 24 V20 4.0_70_175_4631_2.lux
1 lamp(s) per luminaire, photometry is absolute
Maintenance Factor = 0.87, watts per luminaire = 26
Outreach (from mounting axis to photometric center) 500 mm
mounting height= 6 m
number locations= 30, number luminaires= 30

ORANGETEK IGNS mini Plus - 24 LEDs, V20, 4000K, 0108mA, Op2 LANTERN
lamp(s): OSRAM DURIS S8 CR70
candela file IGNS mini Plus 24 V20 4.0_70_108_2987_2.lux
1 lamp(s) per luminaire, photometry is absolute
Maintenance Factor = 0.87, watts per luminaire = 16
Outreach (from mounting axis to photometric center) 500 mm
mounting height= 6 m
number locations= 32, number luminaires= 32