

**DATE:** 11 February 2025  
**DESIGNER:** DKPI  
**PROJECT No:** O65  
**PROJECT NAME:** Millview

**LIGHTING  
REALITY**

Estate phase 1 road section designed to comply with cat P3 and dimming to U14.  
Lighting units are Philips Luma Gen2 Micro 5.8klm (38W) post top mount on 6 mtr octagonal tapered columns.  
1A and 3A are new proposed units where 2A is an existing unit included here for calculation purposes.

## **Estate to cat P3**

**Public Lighting design for the above mentioned project: Public lighting for estateroads and pedestrian pathways for this development has been designed to comply with EN13201-2015 and also according to the Public Lighting standards and current Local Authority Guidelines. A MF of 0.8 is used for all calculations. Photocells shall be of 7 pin and have a 35/18 lux switching ratio.**

**PREPARED BY:** Ben van Deventer  
DKP International  
CBG House  
Kenmare  
Co Kerry

## Layout Report

### General Data

Dimensions in Metres Angles in Degrees  
Grid Origin 55.7m x 4.8m  
Area 63.9m x 85.7m  
Sample Spacing 1.00m x 1.00m

### Luminaires



### Luminaire A Data

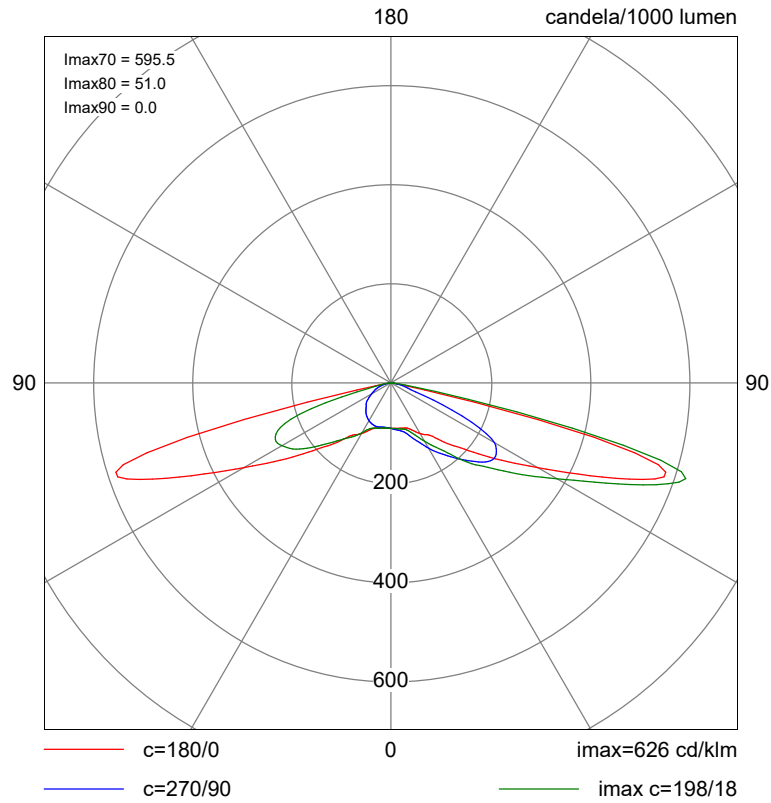
Supplier	Philips
Type	BGP702 DW50
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	5.80
File Name	Luma Gen2 Micro_BGP702_DW50_5800_20LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	595.5, 51.0, 0.0
No. in Project	3

### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	92.41	64.25	6.00	345.00	5.00	0.00	0.40			
2	A	108.14	87.43	6.00	168.00	0.00	0.00	1.00			
3	A	91.09	30.05	6.00	159.00	0.00	0.00	0.40			

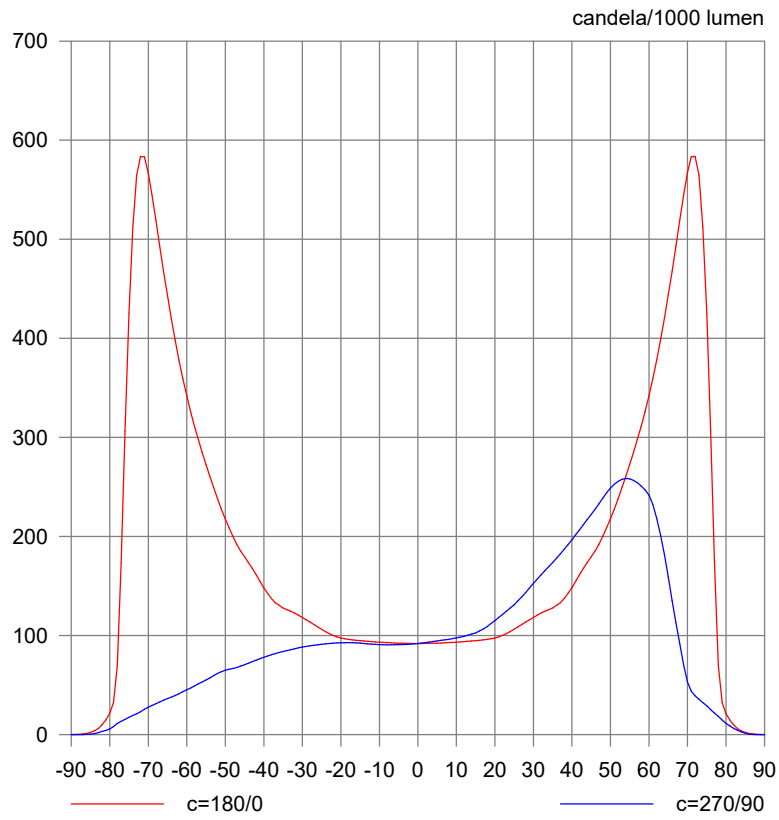
## Polar Diagram

### Luminaire A BGP702 DW50



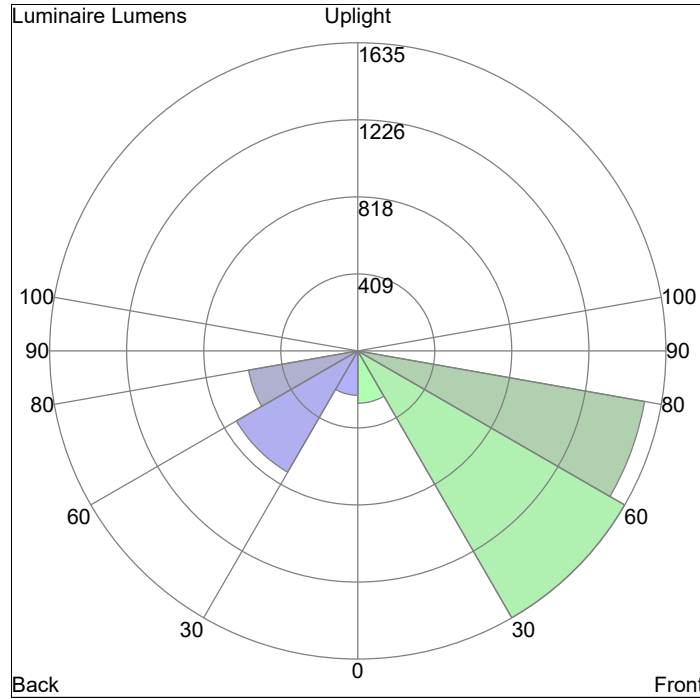
## Cartesian Diagram

### Luminaire A BGP702 DW50



## Luminaire Classification System (LCS) Graph

### Luminaire A BGP702 DW50



LCS	Lumens	%Lamp	%Lum
FL	278.1	4.8	5.5
FM	1635.3	28.2	32.4
FH	1545.8	26.7	30.6
FVH	16.0	0.3	0.3
BL	236.2	4.1	4.7
BM	743.2	12.8	14.7
BH	588.2	10.1	11.6
BVH	8.9	0.2	0.2
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
<b>Total</b>	<b>5052.0</b>	<b>87.1</b>	<b>100.0</b>

BUG rating=B2-U0-G2

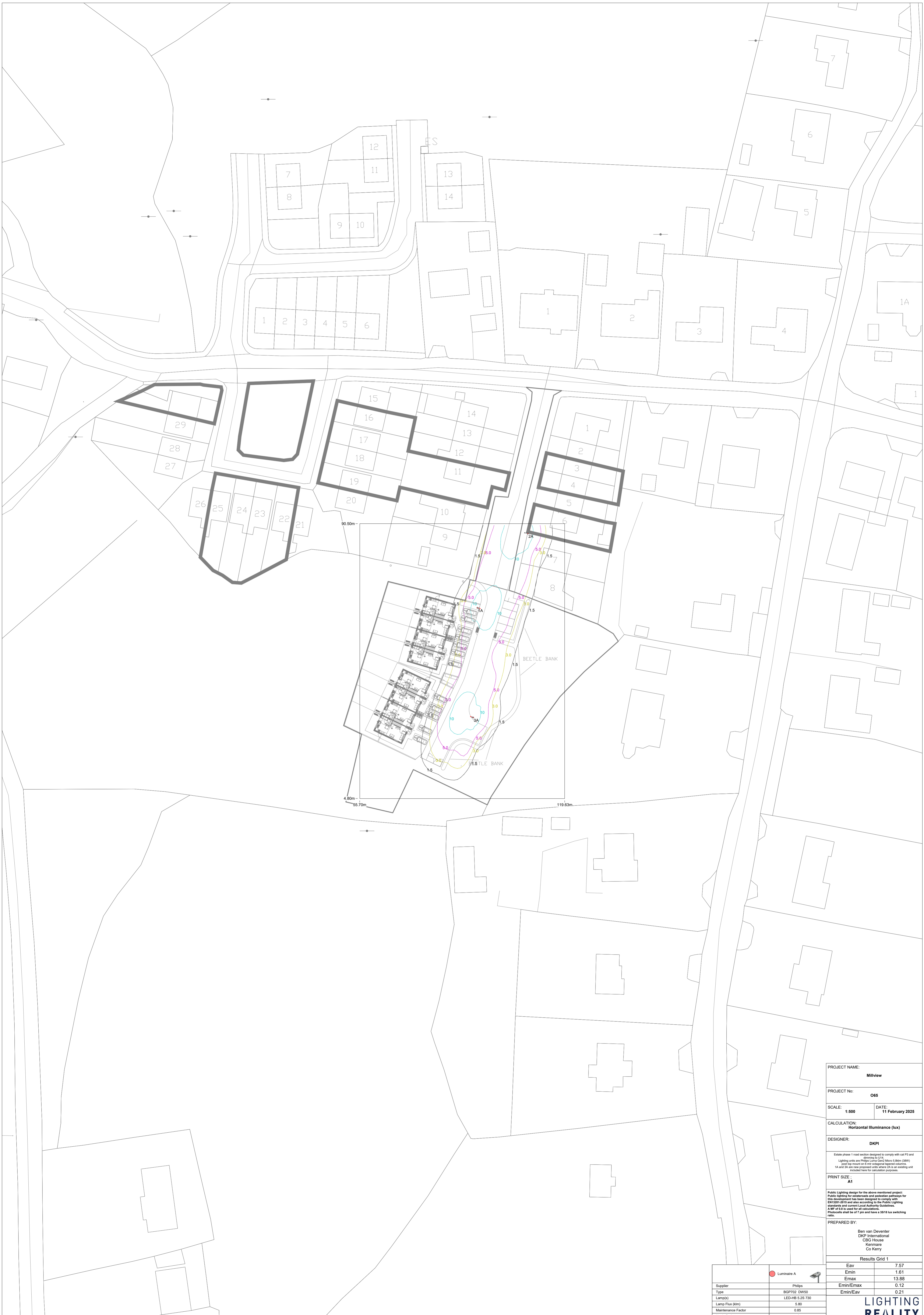
## Horizontal Illuminance (lux)

Grid 1



### Results

Eav	7.57
Emin	1.61
Emax	13.88
Emin/Emax	0.12
Emin/Eav	0.21

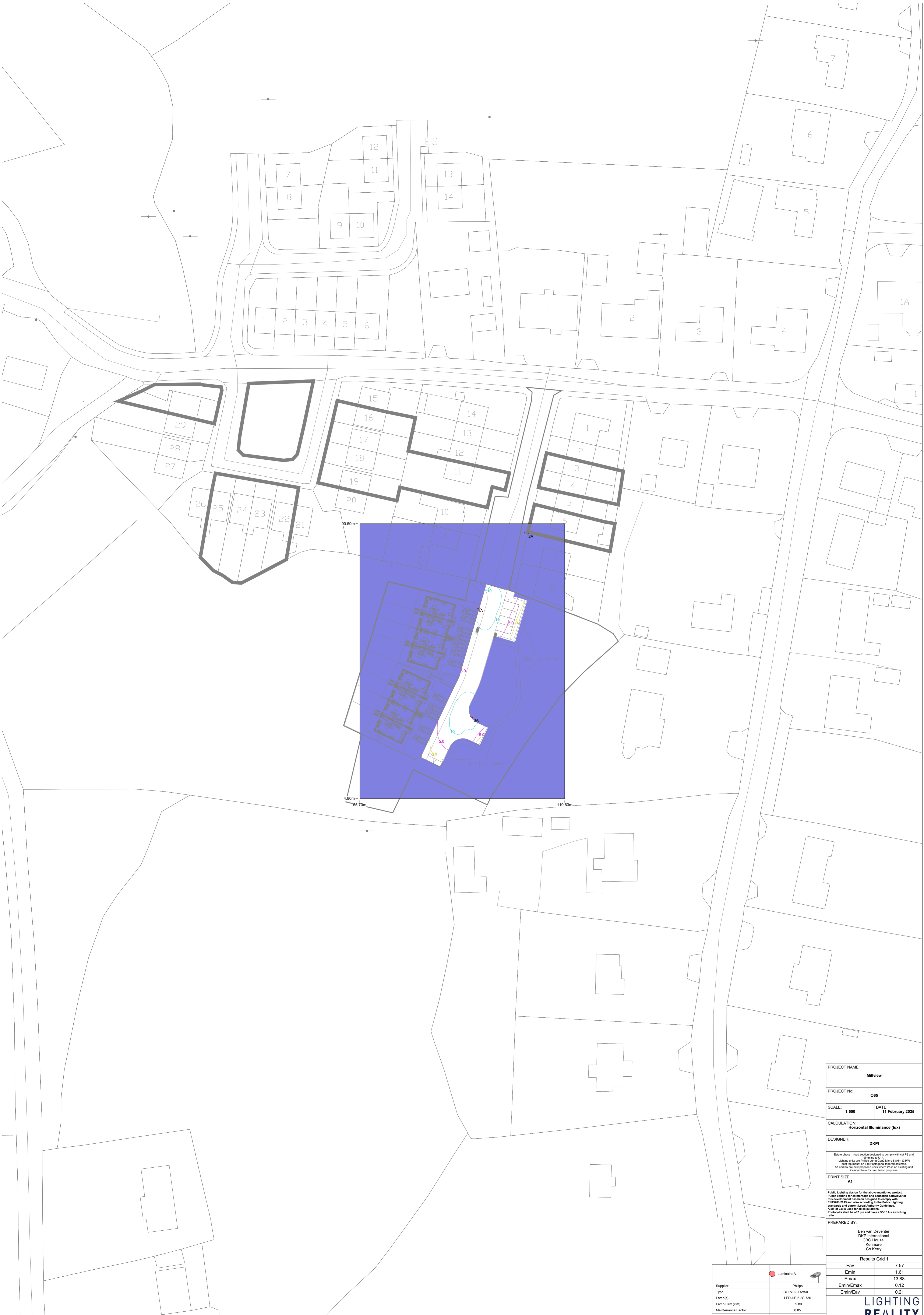


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 PROJECT No: O65  
 SCALE: 1:500 DATE: 11 February 2025  
 CALCULATION: Horizontal Illuminance (lux)  
 DESIGNER: DKPI  
 Details phase 1 road section designed to comply with all P3 and Public Lighting for streets and pedestrian pathways for this development has been designed to comply with EN12225:2018 and also according to the Public Lighting standards and current Local Authority guidelines. A MF of 0.8 is used for all calculations. Photocells shall be of 7 pin and have a 20/18 lux switching ratio.  
 PRINT SIZE: A1  
 PREPARED BY: Ben van Deventer  
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Supplier	Philips
Type	BCP702 DW160
Lamp(s)	LED-HB 525 730
Lamp Flux (lm)	5.80
Maintenance Factor	0.85
No. in Project	3





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