

**DATE:** 24 April 2026  
**DESIGNER:** Designs for Lighting  
**PROJECT No:** 4428  
**PROJECT NAME:** Land Off Fieldhead Lane Birstall



Location: Land Off Fieldhead Lane Birstall

PHAR - GN01: 2.0lx Maximum Vertical Illuminance  
Lighting parameters taken from ILP Guidance document

GN01.2021 - The reduction of Obtrusive Light  
The PHAR grids start at 800mm above ground level to reflect the  
typical height of where windows start on a property.

**4428-DFL-ELG-XX-CA-EO-13001-S3-P01**

**PREPARED BY:** Alex Elliott  
Principal Engineer  
+44 (0)1962 855080  
17-18 City Business Centre,  
Winchester  
Hants,  
SO23 7TA  
e-mail: alex@dfi-uk.com  
website: www.dfi-uk.com

## Layout Report

### General Data

Dimensions in Metres Angles in Degrees

### Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1 - PHAR 001	422280.89	427004.97	10.57	5.00	0.50	0.50
2	Grid 2 - PHAR 002	422250.76	426988.34	5.31	5.00	0.48	0.50
3	Grid 3 - PHAR 003	422253.59	427038.62	9.70	5.00	0.51	0.50
4	Grid 4 - PHAR004	422307.16	426958.80	8.96	5.00	0.50	0.50

### Luminaires



### Luminaire A Data

Supplier	OrangeTek
Type	Ignis-Mini - Ignis-Mini Plus - 20LEDs,MPE,4000K,0335mA,Opt1
Lamp(s)	OSRAM SQUARE CRI70 4000K N8 V7.1
LampFlux(klm)/Colour	3.52 4000/70
File Name	Ignis-Mini - Ignis-Mini Plus 20 MPE 4.0_70_335_3520_1.LDT
Maintenance Factor	1.00
Imax70,80,90(cd/klm)	613.5, 91.3, 0.0
No. in Project	6

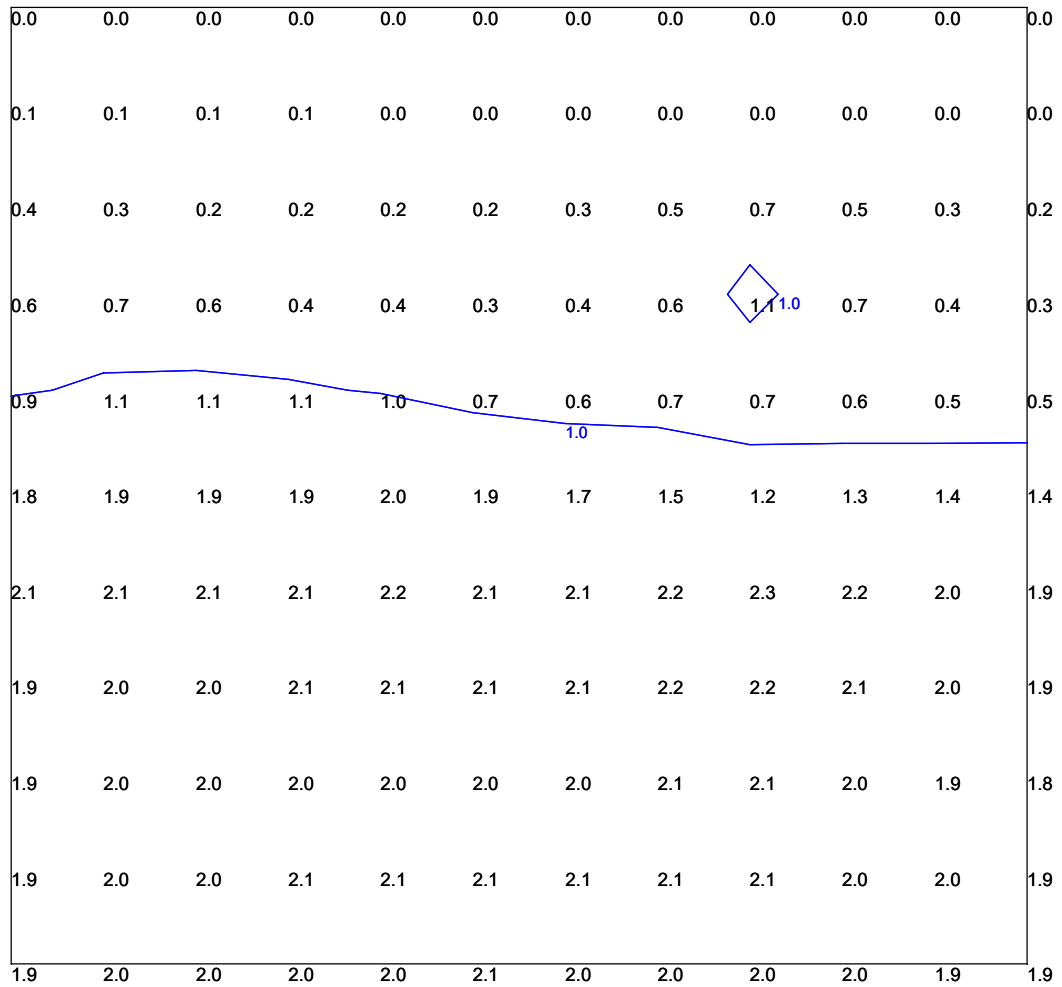
### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	422276.12	426986.78	6.00	43.00	0.00	0.00	0.40			
2	A	422285.08	426957.59	6.00	141.00	0.00	0.00	0.40			
3	A	422297.08	426968.99	6.00	69.00	0.00	0.00	0.40			
5	A	422248.46	427010.44	6.00	48.00	0.00	0.00	0.40			
6	A	422258.27	427034.04	6.00	319.00	0.00	0.00	0.40			
7	A	422258.01	426986.26	6.00	313.00	0.00	0.00	0.40			



## Illuminance (lux)

Grid 2 - PHAR 002

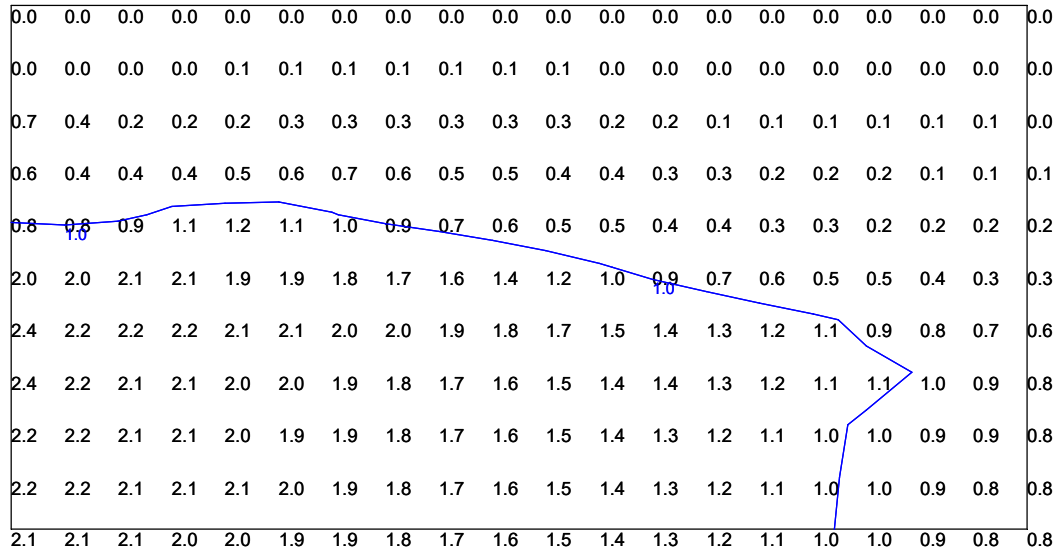


### Results

Eav	1.23
Emin	0.00
Emax	2.35
Emin/Emax	0.00
Emin/Eav	0.00

## Illuminance (lux)

Grid 3 - PHAR 003

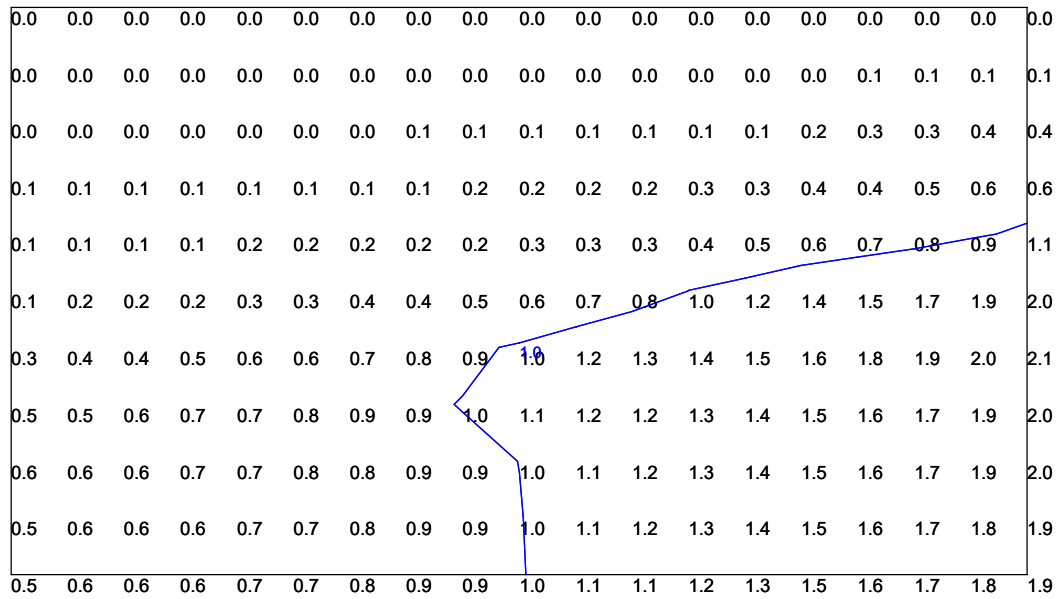


### Results

Eav	0.93
Emin	0.00
Emax	2.37
Emin/Emax	0.00
Emin/Eav	0.00

## Illuminance (lux)

Grid 4 - PHAR004



### Results

Eav	0.65
Emin	0.00
Emax	2.07
Emin/Emax	0.00
Emin/Eav	0.00