

**DATE:** 8 February 2024  
**DESIGNER:** Karol Drapala  
**PROJECT No:** KE/RE/SGM/01  
**PROJECT NAME:** Spa Glen Mallow Rev5 - Main Road Only



Lighting to BS5489:1 - 2020  
Residential Lighting To Class P3  
Bicycle & Pedestrian Trail To Class P4  
Dimming To U14 Regime, colour temp. 3000k  
A) Cree Energy Uno TRSA 150 4L, 3.66klm, 28w CLO  
B) Cree Energy Uno TRSA 075 2L, 1.35klm, 10w CLO  
C) Phillips Lumistreet gen 2 ECO 730 DW 9.40klm  
C/W Nema 7 Pin Socket & photocell  
6m Columns - Estate, Bicycle & Pedestrian Trail  
8m Columns - Main Road

## Outdoor Lighting Report

**PREPARED BY:** Karol Drapala  
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## 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	Road	156438.66	99475.27	344.39	200.60	1.50	1.50

### Luminaires

#### Luminaire C Data

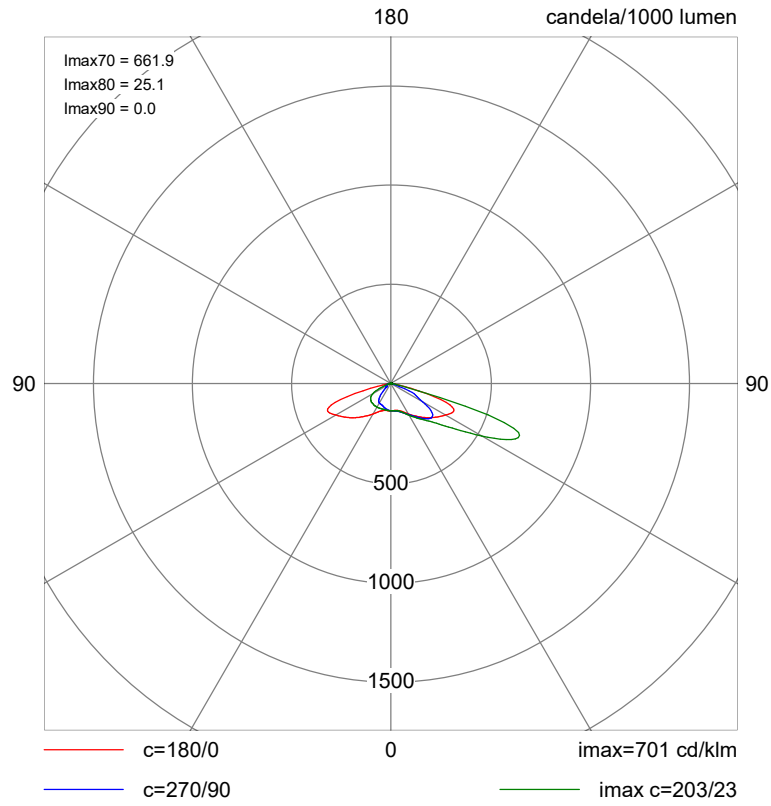
Supplier	
Type	LumiStreet gen2 Eco
Lamp(s)	LED94 L92@100kh /730 T25
Lamp Flux (klm)	9.40
File Name	BGS010 T25 FP LED94 L92@100kh-730 D W.ies
Maintenance Factor	0.84
Imax70,80,90(cd/klm)	661.9, 25.1, 0.0
No. in Project	14

### Layout

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	C	156433.89	99466.82	8.00	0.00	0.00	0.00	0.00			
2	C	156435.87	99506.93	8.00	0.00	0.00	0.00	0.00			
3	C	156439.06	99546.83	8.00	353.00	0.00	0.00	0.00			
4	C	156442.35	99586.53	8.00	356.00	0.00	0.00	0.00			
5	C	156456.01	99625.42	8.00	332.00	0.00	0.00	0.00			
6	C	156483.05	99653.42	8.00	307.00	0.00	0.00	0.00			
7	C	156518.37	99670.56	8.00	307.00	0.00	0.00	0.00			
8	C	156554.46	99688.70	8.00	297.00	0.00	0.00	0.00			
9	C	156590.41	99707.49	8.00	292.00	0.00	0.00	0.00			
10	C	156631.51	99714.99	8.00	272.00	0.00	0.00	0.00			
11	C	156665.90	99715.26	8.00	270.00	0.00	0.00	0.00			
12	C	156701.89	99715.75	8.00	272.00	0.00	0.00	0.00			
13	C	156465.69	99665.19	8.00	356.00	0.00	0.00	0.00			
14	C	156466.12	99699.17	8.00	356.00	0.00	0.00	0.00			

# Polar Diagram

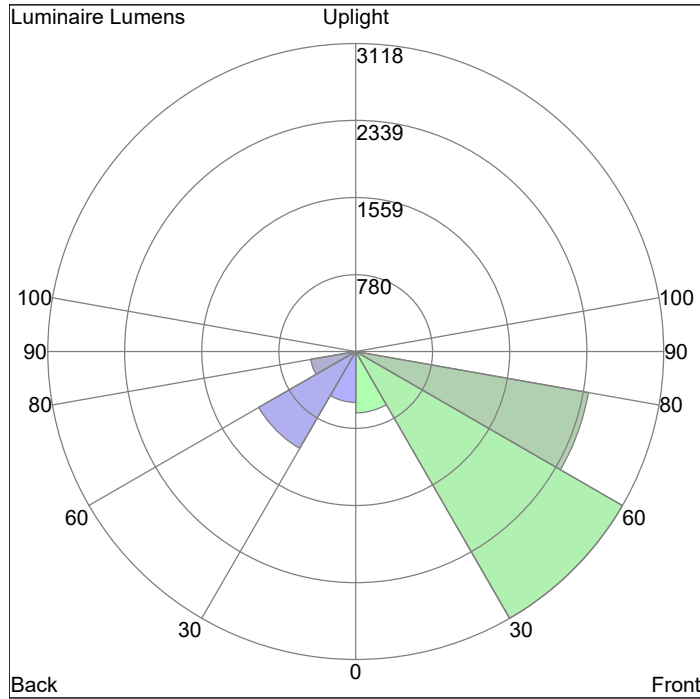
## Luminaire C LumiStreet gen2 Eco





## Luminaire Classification System (LCS) Graph

### Luminaire C LumiStreet gen2 Eco

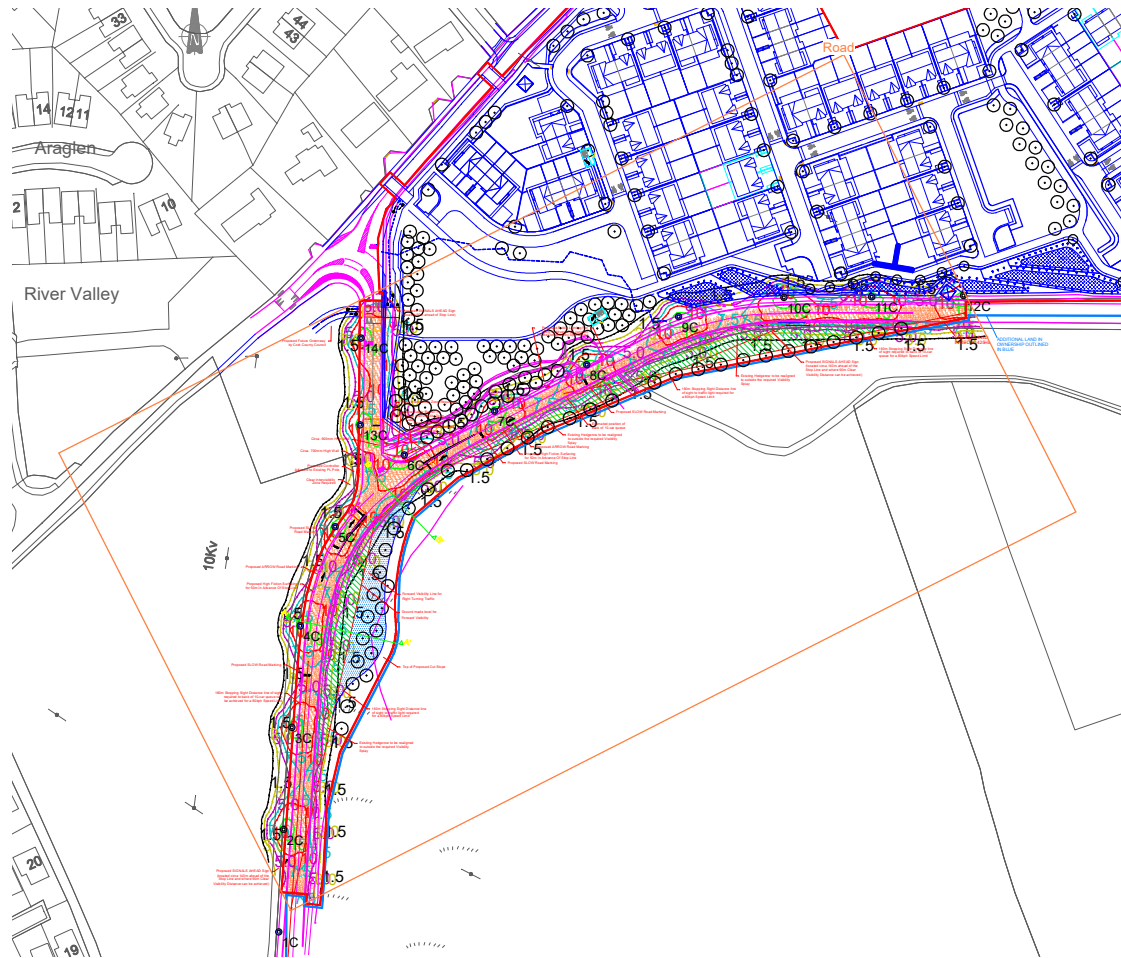


LCS	Lumens	%Lamp	%Lum
FL	622.3	6.6	7.5
FM	3118.2	33.2	37.6
FH	2393.4	25.5	28.9
FVH	28.7	0.3	0.3
BL	516.0	5.5	6.2
BM	1132.5	12.0	13.7
BH	461.6	4.9	5.6
BVH	19.5	0.2	0.2
UL	0.0	0.0	0.0
UH	0.0	0.0	0.0
<b>Total</b>	<b>8292.3</b>	<b>88.2</b>	<b>100.0</b>

BUG rating=B3-U0-G2

# Horizontal Illuminance (lux)

Road



## Results

Eav	10.32
Emin	4.56
Emax	17.70
Emin/Emax	0.26
Emin/Eav	0.44