

1.0 INTRODUCTION

Surface Carpark

Lighting will be provided by luminaires mounted on 4-meter columns. Columns should ideally be positioned around the perimeter and in central area of the carpark where they are least likely to be damaged by vehicles. The luminaires are directed to the internal areas of the carpark to avoid light spill to surrounding areas.

2.0 DESIGN CRITERIA

Illumination Level – per **Lighting Guide 6: The Exterior Environment**

Carpark Traffic Areas for slowly moving vehicles	10 lux (minimum)
Walkways exclusively for pedestrians	5 Lux (minimum)

3.0 LIGHTING PROPOSAL

1. Carpark
- Pole top luminaire on 4m column spaced as shown on the layout.

STARFLOOD

IMPRESSIVE VERSATILITY

124°

MOUNTING OPTIONS

COLOUR OPTIONS

High PERFORMANCE MINI LED FLOODLIGHTS

IP66 IK10 CE MIP ENEC

recessed luminaire

SPECIFICATION

- Graphite full polyester powder finish, Silver option RAL9006
- Strong die-cast LM6M aluminium body
- Highly impact resistant polycarbonate cover and acrylic high efficiency LED lenses
- Optional photocell control
- Smart External versions with intelligent lighting control for use up to 6 metres mounting height
- Wireless Smart TR versions remove the need for control cabling. Ideal for retro-fit solutions

RANGE

LED	4000K VERSION	5700K VERSION	APPROX. kg	CIRCUIT
STANDARD	20W STP 17567	STP 17410	2.3	D/TR
	140W STP 17568	STP 17411	2.3	D/TR
SMART	20W STP 17569L	STP 17413L	2.2	
	140W STP 17570L	STP 17414L	2.2	
	140W STP 17571L	STP 17415L	2.2	

CIRCUIT TYPE - suffix catalogue number with:
STANDARD D - Smart External / TR - Smart TR (Smart with wireless transmitter)
L - non-dimming LED e.g. STP 17567D etc.
SILVER OPTION - add suffix SV2 e.g. STP 17567D/SV2 etc.
NOTE - smart version not suitable for uplighting applications

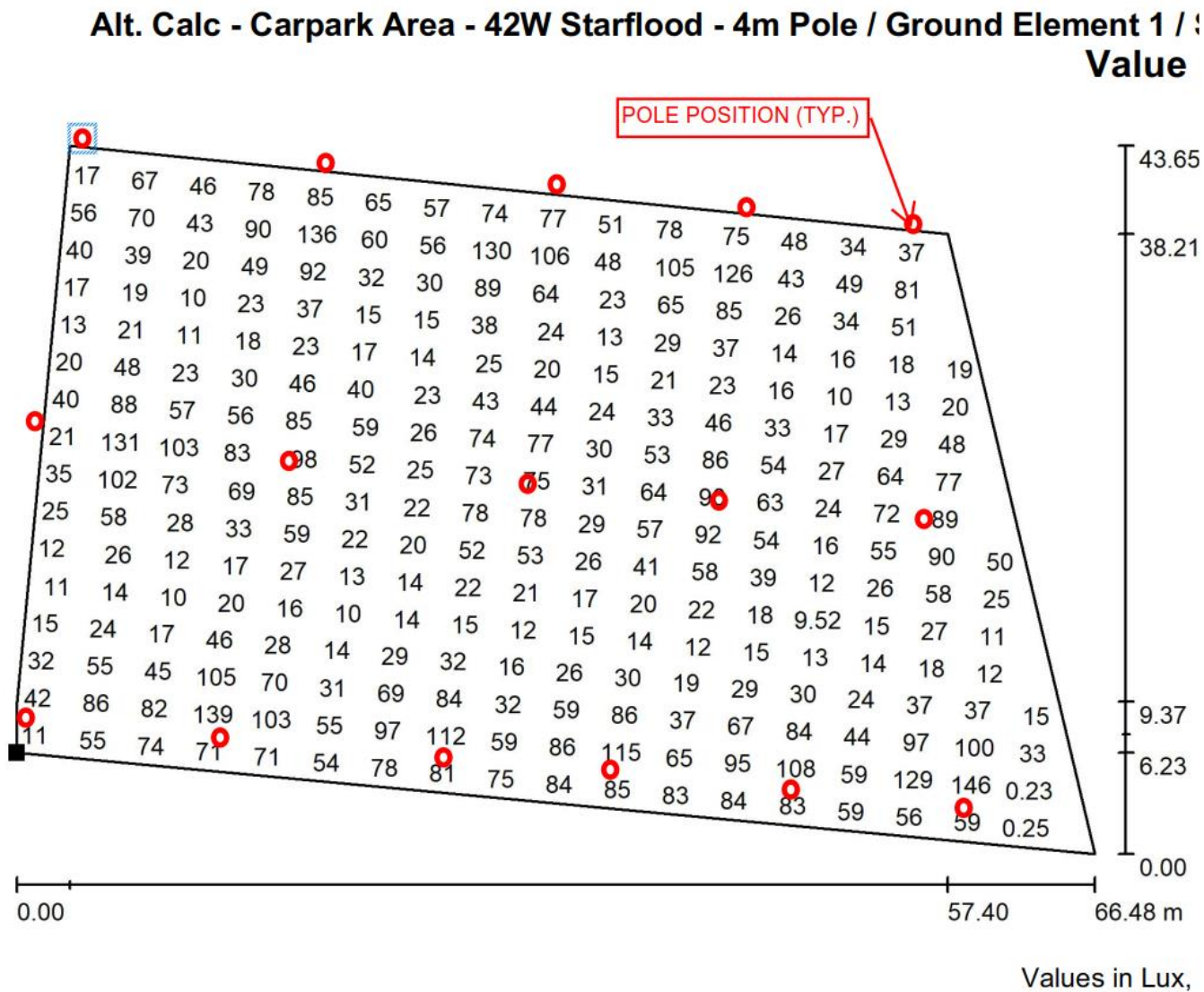
OPTIONS

DESCRIPTION CURIES EXAMPLE



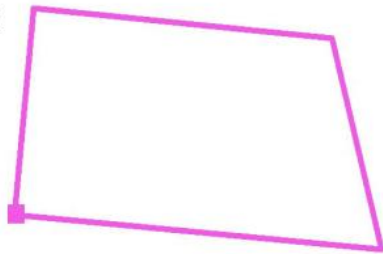
4.0 CALCULATION RESULTS

The results below indicate the illumination levels of the whole site.



Not all calculated values could be displayed.

Position of surface in external scene:
Marked point:
(519.471 m, 545.709 m, 0.000 m)



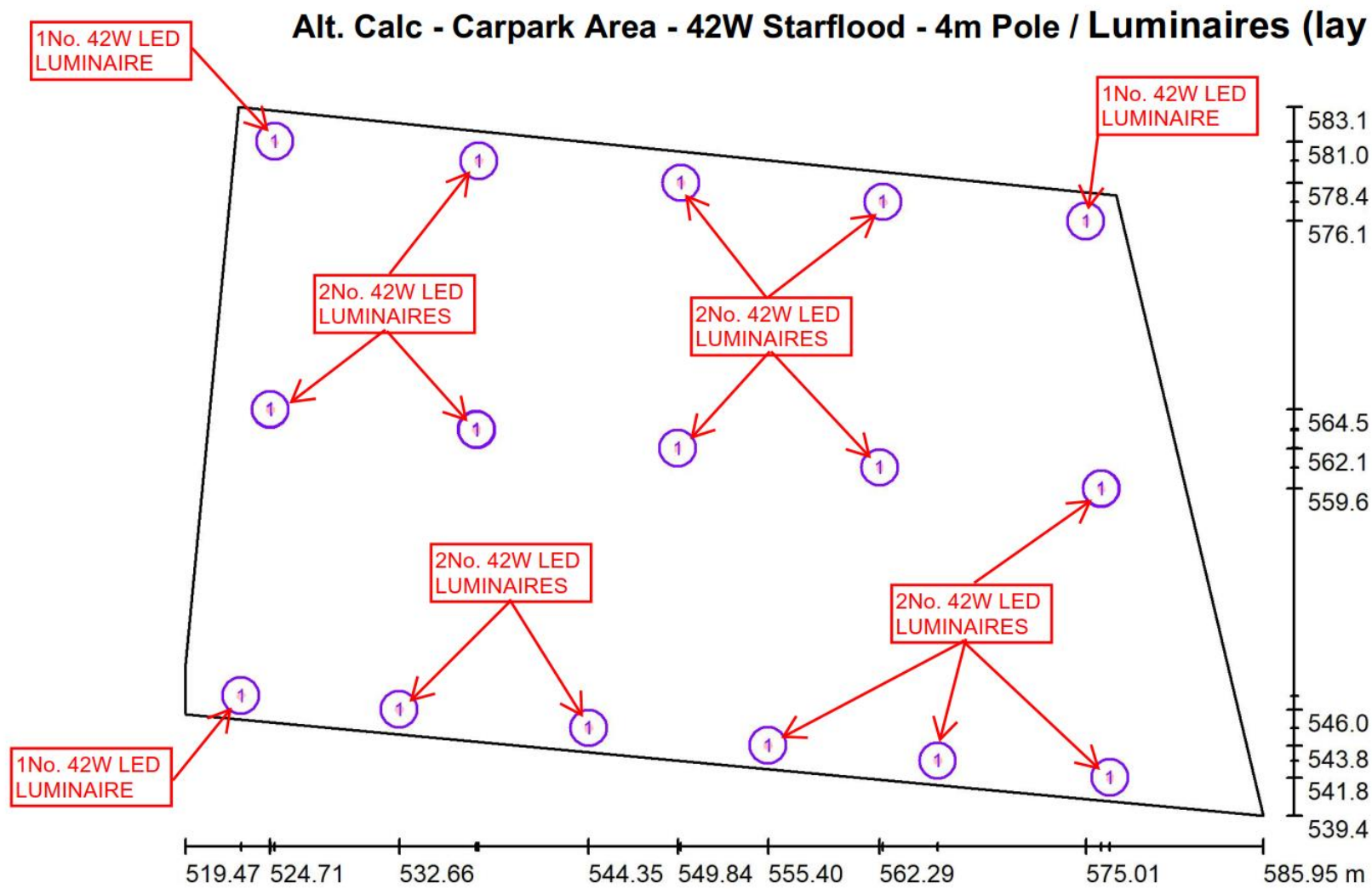
Grid: 130 x 130 Points

E_{av} [lx]	E_{min} [lx]	E_{max} [lx]	$u0$
47	0.07	161	0.001

REQUIREMENT:
10 LUX (MINIMUM) FOR TRAFFIC
AREAS FOR SLOWLY MOVING
VEHICLES.

5.0 LIGHTING LAYOUT PLAN

The result below indicates the lighting layout of the carpark.



Luminaire Parts List

No.	Pieces	Designation
1	29	Thorlux STF17415 Starflood LED

6.0 COLUMN LAYOUT

The layout below indicates the lighting column positions in relation to the carpark layout.

