

**DDP ELECTRICAL SERVICES PTY. LTD**

ELECTRICAL CONTRACTORS  
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14/10/2019

Frasers Property Australia  
Level 2, 1C Homebush Bay Drive  
Rhodes NSW 2138

Attn: Yvette Fenech

**Re: EASTERN CREEK QUARTER  
WOOLWORTHS LOADING DOCK ILLUMINATED SIGN**

With regards to Woolworths illuminated signage located externally at Loading Dock entry off Beggs Road, in conjunction with advice from signage contractor, we believe that the illumination levels from the proposed signage will not exceed those levels from the external lighting within the loading dock area and not cause obtrusive lighting spill to the adjacent residential property.

Loading Dock external lighting lux level calculation and spill lighting statement attached for reference.

Yours faithfully,



Milenko Bajic  
DDP Electrical Services Pty Ltd





| Calculation Summary    |          |             |     |       |      |
|------------------------|----------|-------------|-----|-------|------|
| Label                  | CalcType | Units       | Avg | Max   | Min  |
| Back areas and loading |          | Illuminance | Lux | 20.71 | 76.0 |
| Carpark                |          | Illuminance | Lux | 34.13 | 87   |
| UWLR Area Summary      |          |             |     | 1.4   | 0.07 |
| Label                  |          |             |     | 0.21  | 3.67 |
| Upward light ratio     |          |             |     | 0.000 | 2.55 |

| Luminaire Schedule |        |                       |          |
|--------------------|--------|-----------------------|----------|
| Label              | Symbol | Description           | LLF Qty  |
| S0                 |        | Nikon Zeal T3 - 80 W  | 0.800 2  |
| S1                 |        | Nikon Zeal T4 - 80 W  | 0.800 6  |
| S3                 |        | Nikon Zeal T4 - 130 W | 0.800 7  |
| S6                 |        | Nikon Zeal T3 - 230 W | 0.800 4  |
| S7                 |        | Nikon Zeal T4 - 230 W | 0.800 24 |
| Sn                 |        | Nikon Zeal FN - 50W   | 0.800 1  |

Allow 11 x wall mount brackets for wall mounted streetlights



## **Obtrusive Light - Compliance Report**

AS 4282-1997, Post-Curfew, Residential - Light Surrounds

Filename: Eastern Creek quarter - carpark - R02

26/3/2019 11:31:41 AM

### **Illuminance**

Maximum Allowable Value: 2 Lux

Calculations Tested (1):

| <u>Calculation Label</u>                   | <u>Test Results</u> | <u>Max. Illum.</u> |
|--------------------------------------------|---------------------|--------------------|
| ObtrusiveLight - Rooty Hill St Rd_III_Seg1 | <b>PASS</b>         | 1.0                |

### **Luminous Intensity (Cd) At Vertical Planes**

Maximum Allowable Value: 1000 Cd

Calculations Tested (1):

| <u>Calculation Label</u>                  | <u>Test Results</u> |
|-------------------------------------------|---------------------|
| ObtrusiveLight - Rooty Hill St Rd_Cd_Seg1 | <b>PASS</b>         |