

# Comparison of FAMCO Viking LED W/proof and T5 Fluorescent 28W Weatherproof Luminaires for Carpark Lighting -40 lux



	<b>Comparable Weather Proof 2x28 W T5- PXXXXX</b>	<b>Famco Weather Proof VIKING LED - FL98016</b>	<b>Advantages for VIKING LED vs Fluorescent</b>
<b>QTY</b>	15	12	Less Fittings/ Wiring Points/Obstructions
<b>Total Lamp Lumens</b>	5200	4249	Better Utilisation of Lamp Lumen output-controlled directions
<b>LLF*</b>	0.75	0.8	Improved Serviceability ie Maintenance Cleaning Cycles
<b>Description</b>	Weatherproof 2x28W T5 Polycarbonate Diffuser	Famco FL98016 - 56 W LED Viking W/proof Poly Carb Lens GRP body	Stabilized body , Structurally Durable with better Impact ratings compared to Polycarbonate
<b>Luminaire Power (Watts)</b>	62	55	7 W saving over T5 twin tube fittings
<b>No. Lamps</b>	2 T5 Fluorescent	2 LED L98016	Uses LED PCB Strip and Diffuser Technology - Resistant to impact(0 Glass)
<b>Replaceable Lamps</b>	Yes	Yes	Replaceable LED Lamp Engine -Zero Mercury, Glass , Easy to replace
<b>Lum. Efficiency(%)</b>	60	100	Luminaire Efficient with LED Engineered optics to provide direct Luminance rather than scattered 2nd hand reflections.
<b>Mounting Height(M)</b>	2.5	2.5	Typical Mounting Height for Covered Carparks.
<b>Calculation AS1680.2.1 (Lux)</b>			
<b>Area 755 Sq.M</b>	41	43	Conformance to Australian Standards for Covered Carpark Spaces and Aisles.
<b>Spacing C<sub>0</sub></b>	7.5 M	10 M	Increase Spacing over carpark spaces (approx 4 spaces) compared to 3 with Fluorescent =25% LESS wiring points
<b>Spacing C<sub>90</sub></b>	7.5 M	7.5 M	No Change
<b>Glare Rating (UGR) AS1680.1-2006</b>	Average Over 25 UGR	Average Under 25 UGR	Glare is reduced with LED Option in all directions compared with Higher Glare index from 2x28W T5 Fluorescent
<b>Lighting Power Total (Watts)</b>	930	668	Total Power Consumption of LED Vs Fluorescent is 30% LESS.
<b>LPD Watts/Sq.M.</b>	1.232	0.885	Decreased lighting power density per square metre = less fittings for better Energy Ratings.
<b>Energy reduction Methods</b>	Nil	Daylight and Microwave Sensor	Increased Energy Savings upto 80% compared to Fluorescent Systems by smart dimming and switching
<b>SERVICEABILITY</b>			
<b>Lamp Life (Hrs)</b>	16000	50000	3 x Life of Fluorescent
<b>Lamp Replacements (Based on two years after completed installation and defects)</b>	30+	0	Zero Lamp replacements of LED* compared to average rated failure rate of Fluorescent.

\*Light Loss Factor Based on Lamp Replacements with Lamp Lumen Depreciation (Fluorescent compared to LED LLD)