

# FINANCIAL & ENVIRONMENTAL ANALYSIS

Using Andromeda-C-Linear 40W luminaires fitted with microwave motion sensor technology at St Andrews War Memorial Hospital car park and Andromeda-C-Flood-140W for all entrance/exit areas. All prices include installation.

## Cost Savings Andromeda™ C Series

Technology	Power	# of Lamps	Lifespan per lamp in hours	Energy savings p.a. (kWh)	Energy savings p.a. <sup>2</sup>	Maintenance savings p.a. <sup>3</sup>
<b>General Carpark – Aisles</b>						
Twin Fluorescent	80W*	92	10,000	-	-	-
Andromeda™ C Linear Motion	40W	92	60,000	49,604.76 (72.5% savings)	\$9,475.07	\$720.72
<b>General Carpark – Bays</b>						
Single Fluorescent	40W*	136	10,000	-	-	-
Andromeda™ C Linear Motion	40W	136	60,000	28,549.95 (67.5% savings)	\$5,453.36	\$680.21
<b>General Carpark – Lifts</b>						
Single Fluorescent	40W*	18	10,000	-	-	-
Andromeda™ C Linear Motion	40W	18	60,000	-	-	-
<b>Entrance/Exit Areas</b>						
Metal Halide	455W <sup>1</sup>	11	15,000	-	-	-
Andromeda™ C Flood	140W	11	60,000	26,512.89 (68% savings)	\$5,064.26	\$120.12

\*Lamp circuit power – 36W tubes (72W total) + ballasts

<sup>1</sup>Lamp circuit power – 400W MH + ballasts

<sup>2</sup>Electricity calculated at █████ per kWh, runtime 8,736 hours for all luminaires. 10% output for 50% twin fluorescent units and 100% for 50% of fluorescent units. 10% output for 75% single fluorescent units and 100% output for 25% of twin fluorescent units.

<sup>3</sup>Maintenance figured based on ad hoc replacement of twin fluorescent at \$30.00 per unit and replacement of metal halide at \$200 per unit (includes replacement lamp/electrician charge/equipment rental).

## Cost of Ownership

Product Code	# of Lamps	Cost Ex. GST <sup>1</sup>	Total Savings p.a. <sup>2</sup>	Payback Years	Savings over Lifespan of LED solution <sup>3</sup>
<b>General Carpark + Additional Units Required</b>					
Andromeda-C-LinearMotion-40W	228	\$ █████	\$14,660.95	3.73	\$135,267.44
Andromeda-C-Linear-40W	18	\$ █████			
<b>Flood Lights for Entrance Areas</b>					
Andromeda-C-Flood-140W	11	\$ █████	\$5,184.38	1.2	\$29,172.00

<sup>1</sup>At unit price listed in costing section: █████

<sup>2</sup>Does not factor in increased in electricity. CPI.

<sup>3</sup>Calculated total savings over lifespan of LED solution minus original capital outlay.