

Lighting Energy Saving Solution

Evaluation and comparison of different lighting systems

	Original T8 Luminaire	Nanoflex™ Solution
Florescent Tube		
Quantity of Tubes per Luminaire ⁽¹⁾	2.0	1.0
Rated Power (W) ⁽¹⁾	33.0	32.8
Life Span (hours)	8,000 - 10,000	15,000 - 18,000
Light Output (lumen)	2500	3250
Lamp Efficacy (lumen/watt)	75.8	99.1
Total Installed Power (W per luminaire) ^{(1),(2)}	67.2	34
Technicality		
Installation	-	Easy and Quick

(1) The average of 4 types of luminaires.

(2) Total installed power (per luminaire) excludes ballast losses to simplify the calculation.

Cost benefit analysis (per luminaire)

	Original T8 Luminaire	Nanoflex™ Solution
Total Installed Power (W) ⁽¹⁾	67.2	34
Annual Operation Hours	3,025	3,025
Electricity Tariff (HK\$/kWh)	0.96	0.96
Annual Electricity Cost (HK\$)	195.15	98.74
Annual Cost Saving (HK\$)	-	96.41
Payback Period (Year)	-	< 2
Reduction in Lamp Replacement Cost (%)	-	50.0
Reduction in A/C Energy Cost	-	Yes

(1) The average of 4 types of luminaires.



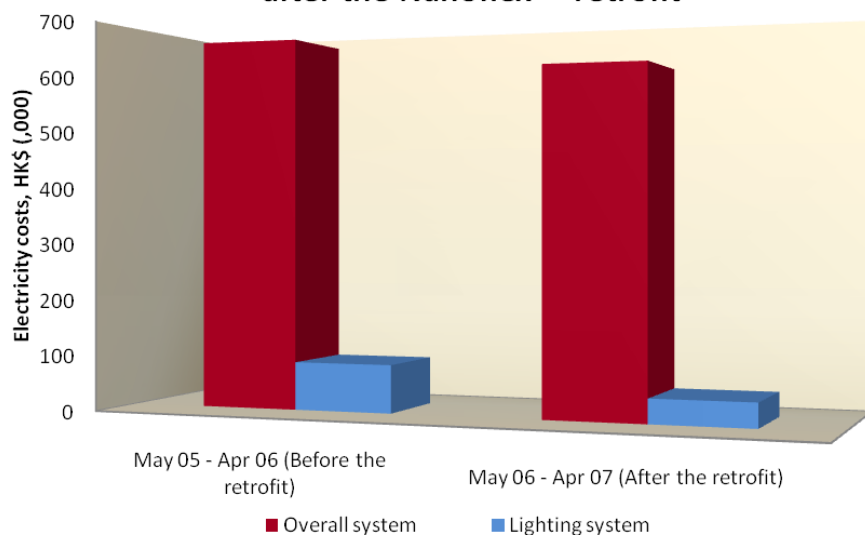
Before the installation of Nanoflex™



After the installation of Nanoflex™

Lighting system	Overall system
Electricity cost saving, %	8.6

Comparison on the electricity costs before and after the Nanoflex™ retrofit



* Based on the data indicated in the tables above