

# Toyota Boshoku

## Energy Efficient Lighting Project

### Power Measurement:

The Power measurements show a definite decrease in consumption from  $\pm 420$  watts to  $\pm 260$  watts. This is well within the predicted saving guarantee of 90%, with only 1-3 % allowance.

### Lux Levels:

As part of the energy proposal, Magnet looks at improving the working environment of the employees by not only increasing the Lux levels, but also improving the visual effect of their working environment. This was achieved with great success with an average increase in lux levels and overall performance of 400%. Magnet also made use of a lamp with a CRI of 85%. This means a better quality of light.

Before and After Measurements					
DB Number	C/Breaker Number	Before Measurement (W)	After Measurement (W)	Savings in Watts	Percentage saving
L3	5	1279	751	528	58.71%
L3	6	1241	759	482	61.00%
L3	7	1257	760	497	60.00%
L2	3	1271	748	523	59.00%
L2	31	1208	752	456	62.21%
L2	60	1282	753	529	59.00%
				<b>Total Average</b>	<b>60.00%</b>

The results above reflect the outcome of the project being a success with all the predictions being accurate in relation to the scope of the project.



**Before**



**After**