

APPENDIX J - Power and Lumens to Comply with GOL

The following table provides a convenient guide for the selection of luminaires that will provide illumination that is compliant to this GOL.

The power levels are based on five mounting heights that correspond to typical applications. The power levels are further given for the two levels of average illumination (1 lx and 3 lx), which also correspond to applications typical of Preserves. Other levels may be interpolated.

To use the table,

- 1) Identify the application (mounting height and illumination).
- 2) Select the corresponding column for application and row for lamp type.
- 3) The lamp power is printed in the shaded part of the table.

Applications										
	1m x height =		bollard or pathway light							
	2.5m height =		over-door light							
	3m height =		under-eave light							
	4m height =		over-head pathway light							
	6m height =		roadway and parking lot light							
Height Lux (GOL)	1m		2.5m		3m		4m		6m	
	1	3	1	3	1	3	1	3	1	3
LED	0.1	0.2	0.4	1.2	0.6	1.7	1.0	3.1	2.3	6.9
HPS	No lamps available. Do not use.									
CFL	No lamps available. Do not use.									8.7
Incandescent	0.6	1.9	4.0	12.1	5.8	17	10	31	23	69
Lumens (ave)	6.4	19	40	120	58	174	103	309	231	694
Notes:	Pick lamp wattage closest to that in the table									
	Lumens based on average lux									
	Assumes 50% fixture efficiency and no backlight (50% of light is "lost")									
	Approx. coverage area = 1.5 x 3 mounting-heights = 4.5 x MH ²									
	Uniformity 3:1 => Max = 1.5 ave. lux and Min + 0.5 ave. lux									
Efficacy (lm/W)	LEDs - 100		HPS - 100		CFL - 80		Incandescent - 10			

These powers are only approximate and can be affected by the type of fixture, shielding, optics and degree of in-use degradation. However lamps using more than 2X these levels should not be used. Note that all lamps must only emit amber light.