



UNDERWATER LIGHTING APPLICATION GUIDE

SWIMMING POOLS

Recommended Lighting Design

The following information will be useful in determining the lighting requirements for swimming pools.

1. Establish the lamp wattage and number of fixtures per square feet required based on the size of the pool and spacing as shown on the chart below.

2. Establish the approximate fixture wattage using the following formula:

$$\frac{\text{Pool Area} \times \text{Watts per Sq. Ft.}}{\text{Number of Fixtures}} = \text{Watts per Fixture}$$

3. Select the fixture that comes closest to meeting wattage requirements

For in-between wattages, use next highest wattage or increase the number of fixtures.

Using low wattage lamps will produce a more even light distribution. Increase lighting requirements when pool walls are other than white.

The recommendations are for standard type pools.

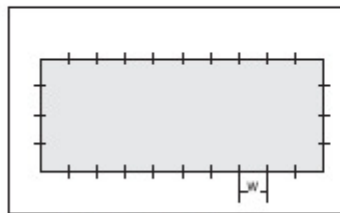
For special applications, consult your Hydrel representative.

OUTDOOR* POOL	LAMP WATTS PER SQ. FT.	"W" = MAX. FEET		"D" = DEPTH BELOW WATER
		POOL DEPTH OVER 5 FT.	POOL DEPTH UNDER 5 FT.	
RESIDENTIAL	0.5 TO 1	--	--	18"
COMMERCIAL	1 TO 1.5	16'	18'	18"
COMPETITION	1.5 TO 2**	14'	16'	18"
DIVING POOL	2 TO 3	14'	--	36"

* For indoor pools increase lighting by 25% (x1.25)

** Never center lights in racing lanes

FOR WHITE BOTTOM POOLS LAMP WATTS PER SQ. FT.	
12 VOLTS - 75 WATTS	120 VOLTS - 250 WATTS
0.15 WATTS / SQ. FT.	0.25 WATTS / SQ. FT.
0.25 WATTS / SQ. FT.	0.50 WATTS / SQ. FT.
0.50 WATTS / SQ. FT.	0.75 WATTS / SQ. FT.



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