

4. Lighting sources should be directed away from the normal line of sight under designed viewing conditions to minimize glare.

5. Primary display brightness should average a minimum of 10 times the surrounding ambient light level. Secondary displays should average 3 times ambient light level. Uniformity ratio (maximum to minimum brightness for a given display) should not exceed 3 to 1.

DEFINITIONS

CANDELA or CANDLEPOWER-Light sources do not project the same amount of light in every direction. The directional characteristic of a lamp is described by the candlepower in specific directions. This directional strength of light or luminous intensity is measured in candelas.

LUMEN-Light quality, irrespective of direction is measured in lumens. Lamp lumens are the quantity of light produced by a lamp. Average light level calculations use total lamp lumens as a basis and then adjust for all factors that lower the quantity. The amount of useful light in a floodlight beam is measured in beam lumens.

FOOTCANDLE-Specifications are usually based on density of light or level of illumination which is measured in footcandles. Footcandles are the ratio of quality of light in lumens divided by the surface area in square feet on which the light is falling.

FOOTLAMBERT-Footcandles of light fall on the surface. That reflected light which we see is measured in footlamberts. Footlamberts are the product of the footcandles times the reflectivity of the surface.

used on vertical spray elements. A 3' maximum spacing should be used when lighting waterfalls.

9. In general, spot lamps should be used for small single jet displays, medium flood lamps for large single or multiple jet displays (beam height to width ratio: 2 to 1), and wide flood lamps for multiple jets, waterfalls, spray rings (beam height to width ratio: 1 to 1).

10. If possible, a series of fixtures should be incorporated into the display totaling the required wattage in order to create evenly dispersed illumination.

CANDLEPOWER REQUIREMENTS LENS COLORS

HEIGHT OF WATER		AMBER &		BLUE &
EFFECT	CLEAR	TURQUOISE	RED	GREEN
5'	4,000	6,000	8,000	14,000
10'	11,000	16,000	22,000	38,000
15'	21,000	31,000	42,000	73,000
20'	34,000	51,000	68,000	119,000
25'	50,000	75,000	100,000	175,000
30'	69,000	103,000	138,000	241,000
35'	91,000	136,000	182,000	318,000
40'	115,000	174,000	230,000	406,000
45'	144,000	216,000	288,000	504,000
50'	170,000	256,000	340,000	595,000

QTY.

SPECIFICATION DATA: 120 Volt T-4 type Quartz lamp for lighting fixture. NOTE: Due to our continuing product improvement, Roman Fountains reserves the right to change the specifications without notice.

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ITEM #

