

NOTE 4 A 'quadrilateral symmetric' luminaire (see Figure 110) shall meet one of the following definitions:

- A Type V luminaire is one with a distribution that has circular symmetry, defined by the IESNA as being essentially the same at all lateral angles around the luminaire.
- A Type VS luminaire is one where the zonal lumens for each of the eight horizontal octants (0-45, 45-90, 90-135, 135-180, 180-225, 225-270, 270-315, 315-360) are within ± 10 percent of the average zonal lumens of all octants

'BUG' Rating example for a 250-watt MH area luminaire, Type IV forward throw optical distribution (see Figure 110):

Forward Light	Lumens	% Lamp Lumens
FL (0-30 degrees)	1618	5.9%
FM (30-60 degrees)	6093	22.2%
FH (60-80 degrees)	3748	13.6%
FVH (80-90 degrees)	27	0.1%
Back Light		
BL (0-30 degrees)	985	3.6%
BM (30-60 degrees)	930	3.4%
BH (60-80 degrees)	136	0.5%
BVH (80-90 degrees)	16	0.1%
Uplight		
UL (90-100 degrees)	0	0.0%
UH (100-180 degrees)	0	0.0%

Table 22
Example of BUG rating for sample luminaire shown in Figure 110.



Figure 113
250-watt MH area luminaire, Type IV forward throw optical distribution.