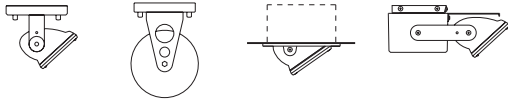


Indoor Footcandle Charts Ceramic Metal Halide

Styles:

M101/M102 M120 M203/M206 M401/M402
M115 M130/M133 M407

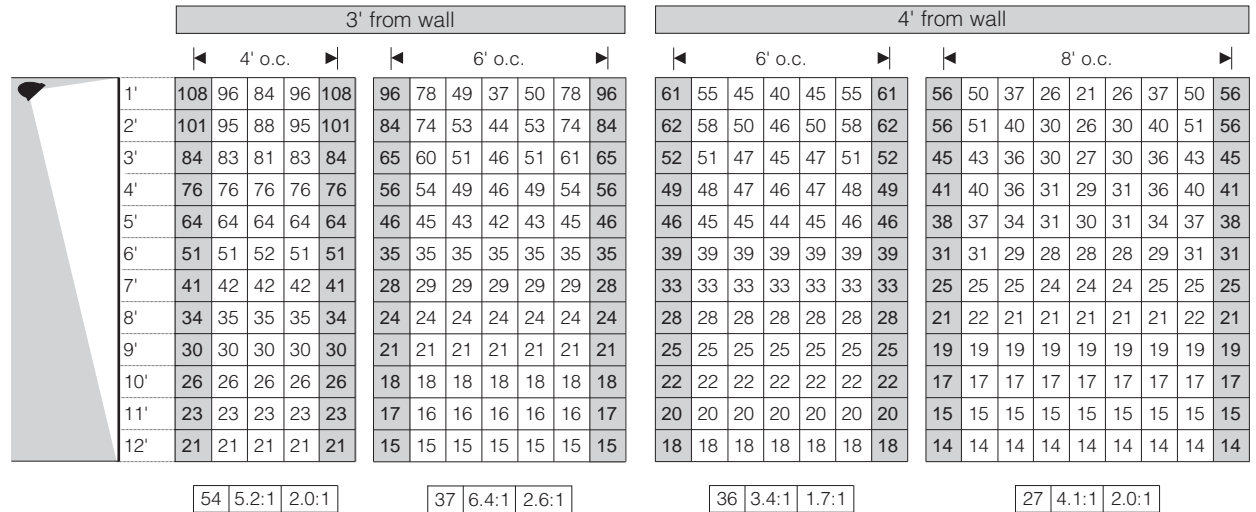
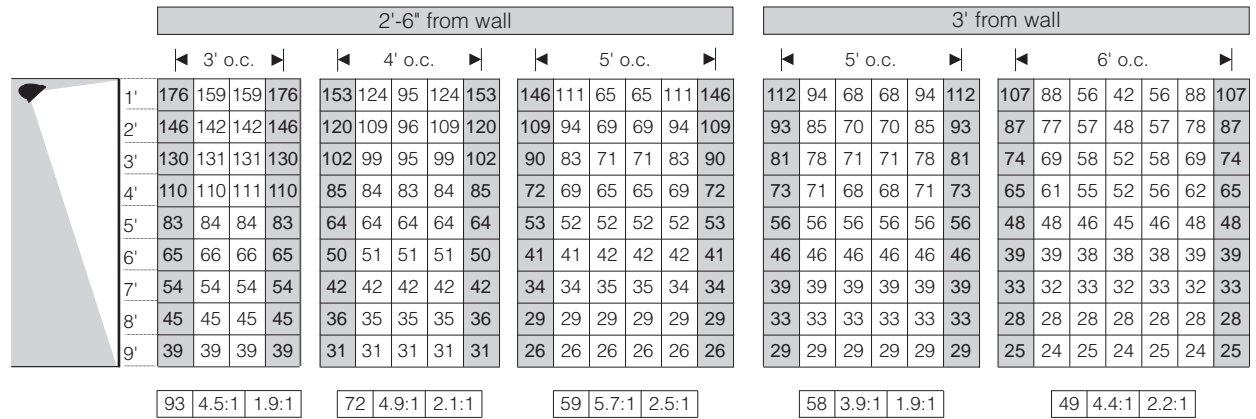


Lamp 70W ceramic single-ended metal halide rated 6200 lumens

Reflector Small cross-section, nominal 11" long Reflector aiming is adjustable

Multipliers for Other Lamps:

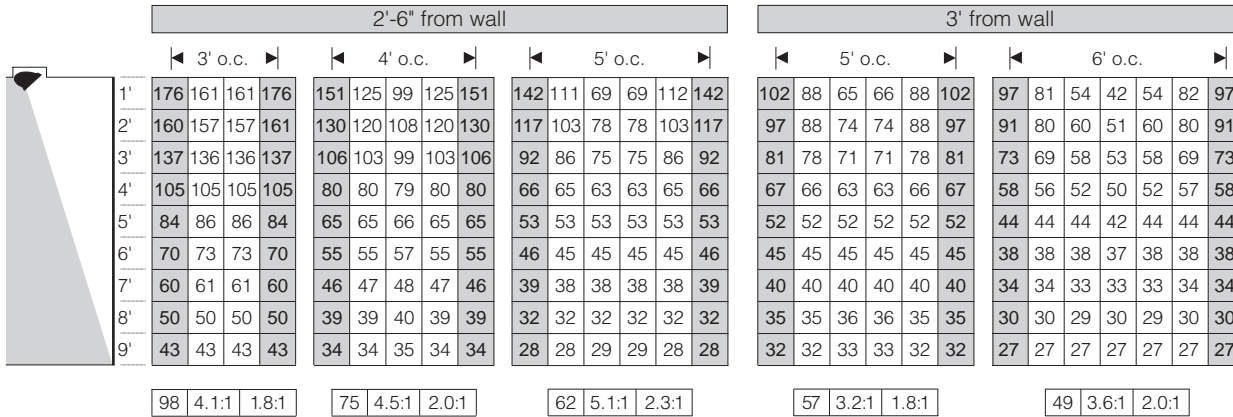
35W (MH35/T6/G12 3300 lumens) 0.53
150W (MH150/T6/G12 13,500 lumens) 2.18



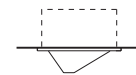
Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 | 5.0:1 | 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)
Ratio of maximum FC to minimum FC (Max:Min.)
Footcandles average initial, perpendicular to wall (FCAI)



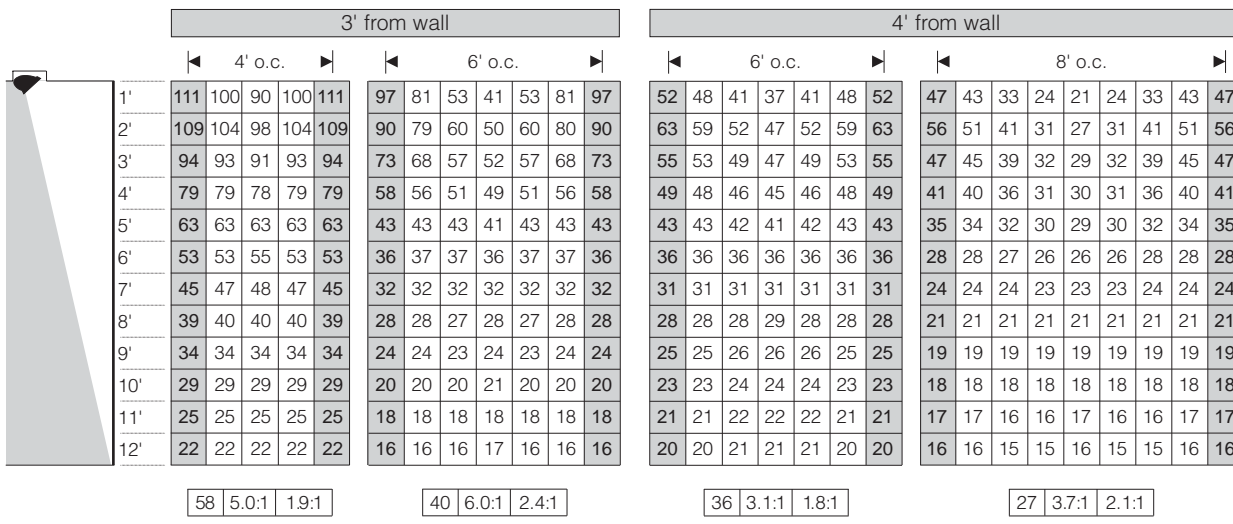
Styles:
M201/M205



Lamp 70W ceramic single-ended metal halide rated 6200 lumens

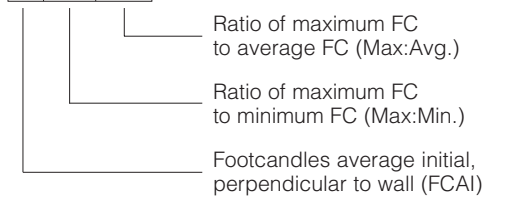
Reflector Small cross-section, nominal 11" long. Reflector aiming is non-adjustable

Multipliers for Other Lamps:
35W (MH35/T6/G12, 3300 lumens) 0.53
150W (MH150/T6/G12, 13,500 lumens) 2.18



Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

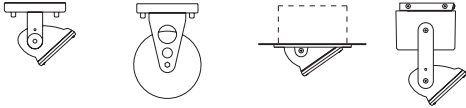
25 5.0:1 2.5:1



Indoor Footcandle Charts Ceramic Metal Halide

Styles:

M101/M102 M120 M203/M206 M401/M402
M115 M130/M133 M407



Lamp 150W ceramic single-ended metal halide rated 13,500 lumens

Reflector Small cross-section, nominal 11" long Reflector aiming is adjustable

Multipliers for Other Lamps:

35W (MH35/T6/G12, 3300 lumens) 0.24
70W (MH70/T6/G12, 6200 lumens) 0.46

| Distance from ceiling | 4' from wall | | | | | | | | | | 5' from wall | | | | | | | | | | | | | | |
|-----------------------|----------------|-----|-----|-----|----------------|-----|----|----|----|-----|----------------|----|----|----|----------------|----|----|----|----|----------------|----|----|----|----|----|
| | 6' o.c. | | | | 8' o.c. | | | | | | 6' o.c. | | | | 8' o.c. | | | | | 10' o.c. | | | | | |
| | 2' | 125 | 100 | 100 | 125 | 114 | 80 | 51 | 80 | 114 | 97 | 88 | 89 | 97 | 84 | 69 | 54 | 69 | 84 | 79 | 61 | 37 | 37 | 61 | 79 |
| 4' | 90 | 85 | 86 | 90 | 76 | 66 | 54 | 66 | 76 | 80 | 78 | 78 | 80 | 65 | 60 | 53 | 60 | 65 | 58 | 51 | 39 | 39 | 51 | 58 | |
| 6' | 74 | 74 | 74 | 74 | 59 | 56 | 52 | 56 | 59 | 72 | 72 | 72 | 72 | 56 | 55 | 52 | 55 | 56 | 48 | 46 | 40 | 40 | 46 | 48 | |
| 8' | 55 | 55 | 55 | 55 | 42 | 42 | 41 | 42 | 42 | 59 | 59 | 59 | 59 | 45 | 45 | 45 | 45 | 45 | 38 | 37 | 35 | 35 | 37 | 38 | |
| 10' | 40 | 40 | 40 | 40 | 30 | 30 | 30 | 30 | 30 | 45 | 45 | 45 | 45 | 34 | 34 | 34 | 34 | 34 | 28 | 28 | 28 | 28 | 28 | 28 | |
| 12' | 31 | 31 | 31 | 31 | 24 | 24 | 24 | 24 | 24 | 35 | 36 | 36 | 35 | 27 | 27 | 27 | 27 | 27 | 22 | 22 | 22 | 22 | 22 | 22 | |
| 14' | 25 | 25 | 25 | 25 | 20 | 19 | 20 | 19 | 20 | 29 | 29 | 29 | 29 | 23 | 23 | 23 | 23 | 23 | 19 | 19 | 19 | 19 | 19 | 19 | |
| 16' | 21 | 21 | 21 | 21 | 17 | 16 | 17 | 16 | 17 | 25 | 25 | 25 | 25 | 20 | 19 | 19 | 19 | 20 | 16 | 16 | 16 | 16 | 16 | 16 | |
| 18' | 19 | 19 | 19 | 19 | 16 | 15 | 15 | 15 | 16 | 22 | 22 | 22 | 22 | 18 | 18 | 18 | 18 | 18 | 15 | 15 | 15 | 15 | 15 | 15 | |
| | 52 6.5:1 2.4:1 | | | | 40 7.5:1 2.9:1 | | | | | | 51 4.4:1 1.9:1 | | | | 39 4.8:1 2.1:1 | | | | | 32 5.4:1 2.5:1 | | | | | |



| Distance from ceiling | 5' from wall | | | | | | | | | | 6' from wall | | | | | | | | | | | | | | | | |
|-----------------------|----------------|----|----|----|----------------|----|----|----|----|----|----------------|----|----|----|----|----|----------------|----|----|----|----|----------------|----|----|----|----|----|
| | 6' o.c. | | | | 8' o.c. | | | | | | 10' o.c. | | | | | | 8' o.c. | | | | | 12' o.c. | | | | | |
| | 2' | 90 | 82 | 82 | 90 | 78 | 63 | 50 | 63 | 78 | 74 | 57 | 34 | 34 | 57 | 74 | 62 | 55 | 49 | 55 | 62 | 54 | 44 | 28 | 21 | 29 | 44 |
| 4' | 74 | 73 | 73 | 74 | 60 | 56 | 49 | 56 | 60 | 55 | 48 | 36 | 36 | 48 | 55 | 53 | 51 | 48 | 51 | 53 | 44 | 39 | 29 | 24 | 29 | 39 | 44 |
| 6' | 63 | 64 | 64 | 63 | 49 | 48 | 47 | 48 | 49 | 42 | 40 | 35 | 35 | 40 | 42 | 45 | 45 | 44 | 45 | 45 | 35 | 33 | 28 | 25 | 28 | 33 | 35 |
| 8' | 54 | 54 | 54 | 54 | 41 | 41 | 41 | 41 | 41 | 35 | 34 | 32 | 32 | 34 | 35 | 41 | 41 | 41 | 41 | 41 | 30 | 29 | 27 | 25 | 27 | 29 | 30 |
| 10' | 42 | 42 | 42 | 42 | 32 | 32 | 32 | 32 | 32 | 26 | 26 | 26 | 26 | 26 | 26 | 34 | 34 | 34 | 34 | 34 | 24 | 24 | 23 | 23 | 23 | 24 | 24 |
| 12' | 32 | 32 | 32 | 32 | 25 | 25 | 25 | 25 | 25 | 20 | 20 | 20 | 20 | 20 | 20 | 27 | 27 | 27 | 27 | 27 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| 14' | 25 | 26 | 26 | 25 | 20 | 20 | 20 | 20 | 20 | 16 | 16 | 16 | 16 | 16 | 16 | 22 | 22 | 22 | 22 | 22 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 16' | 21 | 21 | 21 | 21 | 17 | 16 | 17 | 16 | 17 | 13 | 13 | 14 | 14 | 14 | 13 | 18 | 19 | 19 | 19 | 18 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 18' | 17 | 18 | 18 | 17 | 14 | 14 | 14 | 14 | 14 | 12 | 12 | 12 | 12 | 12 | 12 | 16 | 16 | 16 | 16 | 16 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 20' | 15 | 15 | 15 | 15 | 12 | 12 | 12 | 12 | 12 | 10 | 10 | 10 | 10 | 10 | 10 | 14 | 14 | 14 | 14 | 14 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 22' | 13 | 13 | 13 | 13 | 11 | 11 | 11 | 11 | 11 | 9 | 9 | 9 | 9 | 9 | 9 | 12 | 12 | 12 | 12 | 12 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 24' | 13 | 13 | 13 | 13 | 11 | 11 | 11 | 11 | 11 | 9 | 9 | 9 | 9 | 9 | 9 | 12 | 12 | 12 | 12 | 12 | 9 | 8 | 8 | 8 | 8 | 8 | 9 |
| | 38 7.1:1 2.4:1 | | | | 29 7.3:1 2.7:1 | | | | | | 24 8.2:1 3.1:1 | | | | | | 29 5.3:1 2.1:1 | | | | | 20 6.5:1 2.7:1 | | | | | |

Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)

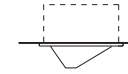
Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAl)

| | 4' from wall | | | | | | | | | | 5' from wall | | | | | | | | | | | | | | |
|-----|--------------|-----|-----|-----|---------|----|----|----|-----|----|--------------|----|----|----|---------|----|----|----|----|----------|----|----|----|----|--|
| | 6' o.c. | | | | 8' o.c. | | | | | | 6' o.c. | | | | 8' o.c. | | | | | 10' o.c. | | | | | |
| 2' | 135 | 111 | 111 | 135 | 121 | 88 | 59 | 88 | 121 | 98 | 90 | 90 | 98 | 83 | 70 | 55 | 70 | 83 | 78 | 62 | 39 | 39 | 62 | 78 | |
| 4' | 104 | 99 | 99 | 104 | 88 | 76 | 64 | 76 | 88 | 87 | 86 | 87 | 87 | 71 | 66 | 60 | 66 | 71 | 63 | 56 | 43 | 43 | 56 | 63 | |
| 6' | 77 | 76 | 76 | 77 | 60 | 58 | 55 | 58 | 60 | 75 | 74 | 74 | 75 | 58 | 56 | 54 | 56 | 58 | 50 | 47 | 41 | 41 | 47 | 50 | |
| 8' | 58 | 58 | 58 | 58 | 44 | 44 | 44 | 44 | 44 | 57 | 57 | 57 | 57 | 43 | 43 | 43 | 43 | 43 | 36 | 36 | 34 | 34 | 36 | 36 | |
| 10' | 46 | 47 | 47 | 46 | 36 | 35 | 36 | 35 | 36 | 46 | 47 | 47 | 46 | 35 | 35 | 36 | 35 | 35 | 29 | 29 | 29 | 29 | 29 | 29 | |
| 12' | 36 | 37 | 37 | 36 | 28 | 28 | 29 | 28 | 28 | 38 | 40 | 40 | 38 | 30 | 30 | 31 | 30 | 30 | 25 | 25 | 25 | 25 | 25 | 25 | |
| 14' | 29 | 29 | 29 | 29 | 22 | 22 | 23 | 22 | 22 | 33 | 33 | 33 | 33 | 25 | 25 | 26 | 25 | 25 | 21 | 21 | 21 | 21 | 21 | 21 | |
| 16' | 23 | 23 | 23 | 23 | 18 | 18 | 18 | 18 | 18 | 28 | 28 | 28 | 28 | 21 | 22 | 22 | 21 | 21 | 18 | 18 | 18 | 18 | 18 | 18 | |
| 18' | 20 | 20 | 20 | 20 | 16 | 16 | 16 | 16 | 16 | 25 | 25 | 25 | 25 | 20 | 20 | 20 | 20 | 20 | 16 | 16 | 16 | 16 | 16 | 16 | |

| | | | | | | | | | | | | | | |
|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|
| 57 | 6.8:1 | 2.4:1 | 44 | 7.8:1 | 2.8:1 | 54 | 3.9:1 | 1.8:1 | 41 | 4.3:1 | 2.0:1 | 34 | 4.8:1 | 2.3:1 |
|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|

Styles:
M201/M205



Lamp 150W ceramic single-ended metal halide rated 13,500 lumens

Reflector Small cross-section, nominal 11" long
Reflector aiming is non-adjustable

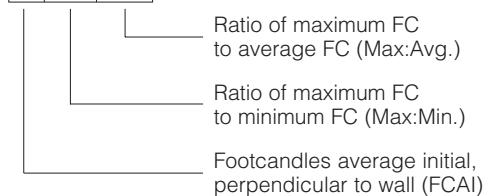
Multipliers for Other Lamps:
35W (MH35/T6/G12, 3300 lumens) 0.24
70W (MH70/T6/G12, 6200 lumens) 0.46

| | 5' from wall | | | | | | | | | | | | | | | 6' from wall | | | | | | | | | | | |
|-----|--------------|----|----|----|---------|----|----|----|----|----------|----|----|----|----|----|--------------|----|----|----|----------|----|----|----|----|----|----|----|
| | 6' o.c. | | | | 8' o.c. | | | | | 10' o.c. | | | | | | 8' o.c. | | | | 12' o.c. | | | | | | | |
| 2' | 97 | 89 | 89 | 97 | 83 | 69 | 55 | 69 | 83 | 77 | 61 | 38 | 38 | 61 | 77 | 61 | 56 | 50 | 56 | 61 | 53 | 45 | 29 | 23 | 30 | 45 | 53 |
| 4' | 86 | 86 | 86 | 86 | 70 | 65 | 59 | 65 | 70 | 63 | 56 | 43 | 43 | 56 | 63 | 59 | 56 | 54 | 56 | 59 | 48 | 43 | 33 | 27 | 33 | 43 | 48 |
| 6' | 74 | 73 | 73 | 74 | 57 | 56 | 53 | 56 | 57 | 49 | 46 | 41 | 41 | 46 | 49 | 51 | 51 | 50 | 51 | 51 | 39 | 37 | 31 | 29 | 31 | 37 | 39 |
| 8' | 56 | 56 | 56 | 56 | 43 | 43 | 42 | 43 | 43 | 35 | 35 | 34 | 34 | 35 | 35 | 43 | 43 | 43 | 43 | 43 | 31 | 30 | 28 | 27 | 28 | 30 | 31 |
| 10' | 45 | 46 | 46 | 45 | 35 | 34 | 35 | 35 | 35 | 28 | 28 | 28 | 28 | 28 | 28 | 34 | 34 | 34 | 34 | 34 | 23 | 23 | 23 | 22 | 23 | 23 | 23 |
| 12' | 37 | 39 | 39 | 37 | 29 | 29 | 30 | 29 | 29 | 24 | 24 | 24 | 24 | 24 | 24 | 29 | 29 | 30 | 29 | 29 | 20 | 20 | 20 | 19 | 20 | 20 | 20 |
| 14' | 31 | 32 | 32 | 31 | 24 | 24 | 25 | 24 | 24 | 20 | 20 | 20 | 20 | 20 | 20 | 24 | 25 | 26 | 25 | 24 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 16' | 25 | 25 | 25 | 25 | 19 | 20 | 20 | 20 | 19 | 16 | 16 | 16 | 16 | 16 | 16 | 21 | 22 | 22 | 22 | 21 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 18' | 20 | 20 | 20 | 20 | 16 | 16 | 16 | 16 | 16 | 13 | 13 | 13 | 13 | 13 | 13 | 18 | 19 | 18 | 19 | 18 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 20' | 17 | 17 | 17 | 17 | 13 | 13 | 14 | 13 | 13 | 11 | 11 | 11 | 11 | 11 | 11 | 16 | 16 | 16 | 16 | 16 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 22' | 14 | 14 | 14 | 14 | 11 | 11 | 11 | 11 | 11 | 9 | 10 | 10 | 10 | 10 | 9 | 14 | 14 | 14 | 14 | 14 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 24' | 13 | 13 | 13 | 13 | 11 | 11 | 11 | 11 | 11 | 9 | 9 | 9 | 9 | 9 | 9 | 13 | 13 | 13 | 13 | 13 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |

| | | | | | | | | | | | | | | |
|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|
| 43 | 7.7:1 | 2.3:1 | 33 | 7.9:1 | 2.5:1 | 27 | 8.8:1 | 2.9:1 | 31 | 4.8:1 | 2.0:1 | 22 | 6.0:1 | 2.5:1 |
|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|----|-------|-------|

Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

| | | |
|----|-------|-------|
| 25 | 5.0:1 | 2.5:1 |
|----|-------|-------|



Indoor Footcandle Charts Metal Halide

Styles:

M103/M104 M107/M108 M204 M408/M409
M116 M412



Lamp 250W horizontal position oriented metal halide rated 22,000 lumens

Reflector Large cross-section, nominal 17" long
Reflector aiming is adjustable

Multipliers for Other Lamps:

| | |
|---|------|
| 175W (MH175/U/MED, 13,300 lumens) | 0.60 |
| 250W (MH250/T15, 19,600 lumens) | 0.89 |
| 400W (MH400/T15, 34,000 lumens) | 1.55 |
| 400W Horizontal Position Oriented (MS400/HOR/T15, 40,000 lumens) | 1.82 |

| Distance | 4' from wall | | | | | | | | | | 5' from wall | | | | | | | | | | | | | |
|----------|----------------|-----|-----|-----|---------------|-----|-----|-----|----------------|-----|--------------|-----|----------------|-----|-----|-----|----------------|-----|-----|-----|-----|----|-----|-----|
| | 6' o.c. | | | | 8' o.c. | | | | 6' o.c. | | | | 8' o.c. | | | | 10' o.c. | | | | | | | |
| | 2' | 247 | 206 | 206 | 247 | 225 | 164 | 107 | 164 | 225 | 198 | 186 | 186 | 198 | 170 | 143 | 115 | 143 | 170 | 159 | 127 | 80 | 80 | 128 |
| 4' | 174 | 166 | 166 | 174 | 145 | 127 | 107 | 127 | 145 | 158 | 154 | 154 | 158 | 126 | 117 | 107 | 117 | 126 | 114 | 100 | 78 | 78 | 100 | 114 |
| 6' | 127 | 125 | 125 | 127 | 98 | 95 | 91 | 95 | 98 | 127 | 125 | 125 | 127 | 96 | 96 | 93 | 96 | 96 | 83 | 78 | 71 | 71 | 78 | 83 |
| 8' | 95 | 95 | 95 | 95 | 71 | 72 | 73 | 72 | 71 | 101 | 100 | 100 | 101 | 76 | 76 | 77 | 76 | 76 | 62 | 61 | 61 | 61 | 62 | 62 |
| 10' | 73 | 70 | 70 | 73 | 53 | 54 | 54 | 55 | 53 | 81 | 79 | 79 | 81 | 60 | 61 | 61 | 61 | 60 | 48 | 49 | 50 | 50 | 49 | 48 |
| 12' | 55 | 54 | 54 | 55 | 42 | 41 | 40 | 41 | 42 | 63 | 63 | 63 | 63 | 49 | 48 | 47 | 48 | 49 | 38 | 39 | 39 | 39 | 39 | 38 |
| 14' | 42 | 42 | 42 | 42 | 33 | 32 | 31 | 32 | 33 | 49 | 50 | 50 | 49 | 39 | 38 | 37 | 38 | 39 | 32 | 31 | 30 | 30 | 31 | 32 |
| 16' | 33 | 33 | 33 | 33 | 27 | 25 | 25 | 25 | 27 | 40 | 39 | 39 | 40 | 32 | 30 | 29 | 30 | 32 | 27 | 25 | 24 | 24 | 25 | 27 |
| 18' | 29 | 29 | 29 | 29 | 24 | 22 | 22 | 22 | 24 | 34 | 33 | 33 | 34 | 27 | 26 | 26 | 26 | 27 | 23 | 22 | 21 | 21 | 22 | 23 |
| | 94 8.5:1 2.6:1 | | | | 72 10:1 3.1:1 | | | | 93 5.9:1 2.1:1 | | | | 71 6.6:1 2.4:1 | | | | 58 7.6:1 2.7:1 | | | | | | | |



| Distance | 5' from wall | | | | | | | | | | | | 6' from wall | | | | | | | | | | | | | | |
|----------|----------------|-----|-----|-----|---------------|-----|-----|-----|---------------|-----|-----|-----|----------------|----|-----|-----|----------------|-----|-----|-----|-----|-----|----|----|----|----|----|
| | 6' o.c. | | | | 8' o.c. | | | | 10' o.c. | | | | 8' o.c. | | | | 12' o.c. | | | | | | | | | | |
| | 2' | 187 | 173 | 173 | 187 | 161 | 134 | 105 | 134 | 161 | 150 | 119 | 73 | 73 | 120 | 150 | 128 | 115 | 104 | 116 | 128 | 110 | 92 | 61 | 47 | 61 | 92 |
| 4' | 150 | 146 | 146 | 150 | 120 | 111 | 102 | 111 | 120 | 109 | 95 | 74 | 74 | 95 | 109 | 108 | 103 | 99 | 103 | 108 | 87 | 77 | 60 | 52 | 60 | 77 | 87 |
| 6' | 117 | 116 | 116 | 117 | 89 | 88 | 86 | 88 | 89 | 77 | 72 | 66 | 66 | 73 | 77 | 86 | 85 | 85 | 85 | 86 | 64 | 61 | 54 | 49 | 54 | 61 | 64 |
| 8' | 91 | 91 | 91 | 91 | 69 | 69 | 69 | 69 | 69 | 57 | 56 | 55 | 55 | 56 | 57 | 71 | 71 | 70 | 71 | 71 | 50 | 49 | 46 | 45 | 46 | 49 | 50 |
| 10' | 73 | 73 | 73 | 73 | 55 | 55 | 55 | 55 | 55 | 44 | 45 | 45 | 45 | 45 | 44 | 58 | 58 | 58 | 58 | 58 | 40 | 39 | 39 | 39 | 39 | 39 | 40 |
| 12' | 57 | 58 | 58 | 57 | 45 | 44 | 43 | 44 | 45 | 35 | 36 | 36 | 36 | 36 | 35 | 49 | 48 | 47 | 48 | 49 | 32 | 32 | 33 | 34 | 33 | 32 | 32 |
| 14' | 46 | 46 | 46 | 46 | 36 | 35 | 35 | 35 | 36 | 29 | 29 | 29 | 29 | 29 | 29 | 40 | 40 | 39 | 40 | 40 | 26 | 27 | 27 | 27 | 27 | 27 | 26 |
| 16' | 37 | 37 | 37 | 37 | 28 | 28 | 28 | 28 | 28 | 24 | 23 | 23 | 23 | 23 | 24 | 33 | 32 | 32 | 33 | 33 | 22 | 23 | 22 | 22 | 22 | 23 | 22 |
| 18' | 30 | 30 | 30 | 30 | 23 | 23 | 23 | 23 | 23 | 20 | 19 | 19 | 19 | 19 | 20 | 27 | 27 | 27 | 27 | 27 | 19 | 19 | 18 | 18 | 18 | 19 | 19 |
| 20' | 25 | 25 | 25 | 25 | 19 | 19 | 20 | 19 | 19 | 17 | 16 | 16 | 16 | 16 | 17 | 23 | 22 | 22 | 22 | 23 | 16 | 16 | 15 | 15 | 15 | 16 | 16 |
| 22' | 21 | 21 | 21 | 21 | 17 | 17 | 17 | 17 | 17 | 15 | 14 | 14 | 14 | 14 | 15 | 19 | 19 | 19 | 19 | 19 | 14 | 14 | 13 | 13 | 13 | 14 | 14 |
| 24' | 20 | 20 | 20 | 20 | 16 | 16 | 16 | 16 | 16 | 14 | 13 | 13 | 13 | 13 | 14 | 18 | 18 | 18 | 18 | 18 | 13 | 12 | 12 | 12 | 12 | 12 | 13 |
| | 70 9.6:1 2.7:1 | | | | 54 10:1 3.0:1 | | | | 44 12:1 3.4:1 | | | | 54 7.2:1 2.4:1 | | | | 37 9.2:1 3.0:1 | | | | | | | | | | |

Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)

Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAI)

| | | 6' from wall | | | | | | | | | | | | | | | | | |
|-----|--|----------------|-----|-----|-----|-----|----------------|-----|-----|-----|-----|----------------|-----|-----|-----|----|-----|-----|-----|
| | | 8' o.c. | | | | | 10' o.c. | | | | | 12' o.c. | | | | | | | |
| 2' | | 232 | 210 | 189 | 210 | 232 | 210 | 181 | 135 | 135 | 181 | 210 | 199 | 167 | 111 | 85 | 111 | 168 | 199 |
| 4' | | 196 | 187 | 180 | 187 | 196 | 170 | 156 | 135 | 135 | 156 | 170 | 157 | 140 | 110 | 94 | 110 | 141 | 157 |
| 6' | | 155 | 155 | 154 | 155 | 155 | 131 | 127 | 119 | 119 | 127 | 131 | 117 | 111 | 97 | 90 | 97 | 111 | 117 |
| 8' | | 129 | 128 | 128 | 128 | 129 | 105 | 104 | 102 | 102 | 104 | 105 | 91 | 89 | 84 | 81 | 84 | 89 | 91 |
| 10' | | 106 | 105 | 104 | 105 | 106 | 85 | 85 | 86 | 86 | 85 | 85 | 72 | 72 | 71 | 71 | 71 | 72 | 72 |
| 12' | | 88 | 88 | 86 | 88 | 88 | 70 | 71 | 71 | 71 | 71 | 70 | 58 | 59 | 60 | 61 | 60 | 59 | 58 |
| 14' | | 72 | 72 | 71 | 72 | 72 | 59 | 59 | 58 | 58 | 59 | 59 | 48 | 49 | 50 | 50 | 49 | 48 | |
| 16' | | 60 | 59 | 59 | 59 | 60 | 50 | 49 | 47 | 47 | 49 | 50 | 41 | 41 | 41 | 40 | 41 | 41 | 41 |
| 18' | | 49 | 49 | 48 | 49 | 49 | 42 | 41 | 39 | 39 | 41 | 42 | 35 | 34 | 33 | 32 | 33 | 34 | 35 |
| 20' | | 41 | 41 | 41 | 41 | 41 | 35 | 34 | 33 | 33 | 34 | 35 | 30 | 29 | 28 | 27 | 28 | 29 | 30 |
| 22' | | 35 | 35 | 35 | 35 | 35 | 30 | 30 | 29 | 29 | 30 | 30 | 26 | 25 | 24 | 24 | 24 | 25 | 26 |
| 24' | | 33 | 32 | 32 | 32 | 33 | 28 | 27 | 27 | 27 | 27 | 28 | 24 | 22 | 22 | 22 | 22 | 24 | |
| | | 97 7.2:1 2.4:1 | | | | | 79 7.8:1 2.6:1 | | | | | 67 9.2:1 3.0:1 | | | | | | | |

Styles:

M103/M104 M107/M108 M204 M408/M409 M116 M412



Lamp 400W horizontal position oriented metal halide rated 40,000 lumens

Reflector Large cross-section, nominal 17" long Reflector aiming is adjustable

Multipliers for Other Lamps:

175W (MH175/U/MED, 13,300 lumens) 0.33
 250W (MH250/T15, 19,600 lumens) 0.49
 250W Horizontal Position Oriented (MS250/HOR/ED18, 22,000 lumens) 0.55
 400W (MH400/T15, 34,000 lumens) 0.85

| | | 9' from wall | | | | | | | | | | | | | | | | | | | | | |
|-----|--|----------------|-----|-----|-----|-----|----------------|----|----|----|----|----------------|----|----|----|----|----|----|----|----|----|----|----|
| | | 8' o.c. | | | | | 12' o.c. | | | | | 18' o.c. | | | | | | | | | | | |
| 2' | | 124 | 123 | 123 | 123 | 124 | 94 | 88 | 78 | 72 | 78 | 88 | 94 | 82 | 74 | 59 | 43 | 34 | 34 | 43 | 59 | 74 | 82 |
| 4' | | 135 | 136 | 137 | 136 | 135 | 98 | 94 | 88 | 85 | 88 | 94 | 98 | 82 | 77 | 64 | 51 | 42 | 42 | 51 | 65 | 77 | 82 |
| 6' | | 121 | 121 | 122 | 121 | 121 | 86 | 84 | 80 | 79 | 80 | 84 | 86 | 68 | 65 | 57 | 48 | 43 | 43 | 48 | 57 | 65 | 68 |
| 8' | | 107 | 107 | 108 | 107 | 107 | 74 | 73 | 72 | 72 | 72 | 73 | 74 | 56 | 55 | 50 | 45 | 41 | 41 | 45 | 50 | 55 | 56 |
| 10' | | 93 | 94 | 94 | 94 | 93 | 64 | 64 | 64 | 63 | 64 | 64 | 64 | 47 | 46 | 43 | 41 | 39 | 39 | 41 | 43 | 46 | 47 |
| 12' | | 81 | 82 | 83 | 82 | 81 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 39 | 39 | 38 | 37 | 36 | 36 | 37 | 38 | 39 | 39 |
| 14' | | 71 | 72 | 72 | 72 | 71 | 50 | 49 | 49 | 49 | 49 | 49 | 50 | 34 | 34 | 33 | 33 | 33 | 33 | 33 | 33 | 34 | 34 |
| 16' | | 63 | 63 | 63 | 63 | 63 | 44 | 44 | 43 | 43 | 43 | 44 | 44 | 29 | 29 | 29 | 29 | 30 | 30 | 29 | 29 | 29 | 29 |
| 18' | | 55 | 55 | 55 | 55 | 55 | 39 | 39 | 38 | 38 | 38 | 39 | 39 | 25 | 26 | 26 | 26 | 27 | 27 | 26 | 26 | 26 | 25 |
| 20' | | 48 | 48 | 48 | 48 | 48 | 34 | 34 | 34 | 33 | 34 | 34 | 34 | 22 | 22 | 23 | 23 | 23 | 23 | 23 | 23 | 22 | 22 |
| 22' | | 41 | 42 | 42 | 42 | 41 | 30 | 30 | 29 | 29 | 29 | 30 | 30 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 24' | | 36 | 37 | 37 | 37 | 36 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 18 | 18 | 18 | 18 | 17 | 17 | 18 | 18 | 18 | 18 |
| 26' | | 32 | 32 | 32 | 32 | 32 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 16 | 16 | 16 | 15 | 15 | 15 | 15 | 16 | 16 | 16 |
| 28' | | 28 | 28 | 28 | 28 | 28 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 15 | 14 | 14 | 14 | 13 | 13 | 14 | 14 | 14 | 15 |
| 30' | | 24 | 24 | 24 | 24 | 24 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 | 13 | 13 |
| 32' | | 22 | 22 | 22 | 22 | 22 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 12 | 12 | 11 | 11 | 11 | 11 | 11 | 11 | 12 | 12 |
| 34' | | 20 | 20 | 20 | 20 | 20 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 11 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 11 | 11 |
| 36' | | 19 | 19 | 19 | 19 | 19 | 15 | 14 | 14 | 14 | 14 | 14 | 15 | 11 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 11 |
| | | 62 7.2:1 2.2:1 | | | | | 43 6.9:1 2.3:1 | | | | | 30 8.5:1 2.8:1 | | | | | | | | | | | |

Charts illustrate the center section of a wall lighted by 6 or more luminaires. Values based on ceiling, wall and floor reflective factors of 0.80/0.50/0.20

25 5.0:1 2.5:1

Ratio of maximum FC to average FC (Max:Avg.)

Ratio of maximum FC to minimum FC (Max:Min.)

Footcandles average initial, perpendicular to wall (FCAI)

