

**Ordering Information**

| Catalog No. | Finishes    | Mountings       | Lamps                |
|-------------|-------------|-----------------|----------------------|
| 8650T WH    | Matte White | All Power Jacks | MR16 TAL<br>50W Max. |
| 8650T BK    | Matte Black |                 |                      |

**Features**

1. **Socket:** turn and lock base ceramic socket wire with 18 ga.stranded Teflon leads with fiberglass outer sleeve.
2. **Male Jack Connector:** mounted in 3/8" dia. stainless steel stem. Plugs into any 8600 Power Jack or Extender Stem. Allows for 360° horizontal rotation.
3. **Tension Pivot Mount:** die-cast aluminum. Allows for 90° vertical rotation.
4. **Aiming Lever:** aluminum rod with plastic knob.
5. **Lamp Housing:** aluminum tube.

**Finish**

All painted finishes are powder coated baked enamel.

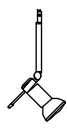
**Electrical/Dimming**

For dimming information refer to Power Jack specification sheets.

**Labels**

UL

| Job Information  | Type: |
|------------------|-------|
| <b>Job Name:</b> |       |
| <b>Cat. No.:</b> |       |
| <b>Lamp(s):</b>  |       |
| <b>Notes:</b>    |       |

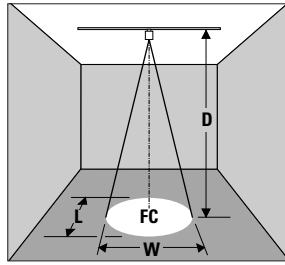


**Lighting Data**

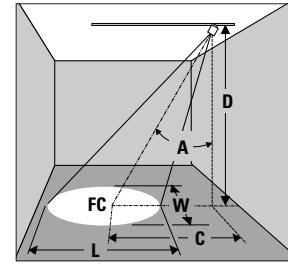
**Aiming Angle:**

**L** Beam length  
**W** Beam width  
**C** Distance to center of beam  
**D** Distance  
**A** Aiming angle  
**FC** Footcandles  
**L** and **W** are the outer points where the candlepower drops to 50% of the maximum. **FC** are the initial footcandles at the center of the beam.

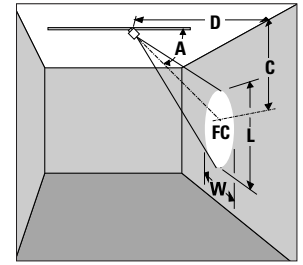
**0°**



**30° 45° or 60° Horizontal**



**30° 45° or 60° Vertical**



**Lamp**

**0° Aiming Angle    A = 30° Aiming Angle    A = 45° Aiming Angle    A = 60° Aiming Angle**

| Lamp                | Beam Spread<br>50% Max CP | Beam Center<br>C.P. Candelas | Rat<br>Life- | 0° Aiming Angle |     |      |      | A = 30° Aiming Angle |      |       |       | A = 45° Aiming Angle |      |       |       | A = 60° Aiming Angle |      |      |       |       |       |      |
|---------------------|---------------------------|------------------------------|--------------|-----------------|-----|------|------|----------------------|------|-------|-------|----------------------|------|-------|-------|----------------------|------|------|-------|-------|-------|------|
|                     |                           |                              |              | D               | FC  | L    | V    | D                    | C    | FC    | W     | D                    | C    | FC    | W     | D                    | C    | FC   | L     | W     |       |      |
| 20W MR16 TL<br>NSP  | 11°                       | 4500                         | 3500         | 6'              | 125 | 1.2' | 1.2' | 5'                   | 2.9' | 117   | 1.3'  | 1.1'                 | 3'   | 3.0'  | 177   | 1.2'                 | 0.8' | 2'   | 3.5'  | 141   | 1.6'  | 0.8' |
|                     |                           |                              |              | 8'              | 70  | 1.5' | 1.5' | 7'                   | 4.0' | 60    | 1.8'  | 1.6'                 | 5'   | 5.0'  | 64    | 1.9'                 | 1.4' | 3'   | 5.2'  | 63    | 2.4'  | 1.2' |
|                     |                           |                              |              | 10'             | 45  | 1.9' | 1.9' | 9'                   | 5.2' | 36    | 2.3'  | 2.0'                 | 7'   | 7.0'  | 32    | 2.7'                 | 1.9' | 4'   | 6.9'  | 35    | 3.2'  | 1.5' |
|                     |                           |                              |              | 12'             | 31  | 2.3' | 2.3' | 11'                  | 6.4' | 24    | 2.8'  | 2.4'                 | 9'   | 9.0'  | 20    | 3.5'                 | 2.5' | 5'   | 8.7'  | 23    | 4.0'  | 1.9' |
| 20W MR16 TL<br>NFL  | 24°                       | 900                          | 3500         | 3'              | 100 | 1.3' | 1.3' | 3'                   | 1.7' | 65    | 1.7'  | 1.5'                 | 2'   | 2.0'  | 80    | 1.8'                 | 1.2' | 1'   | 1.7'  | 113   | 2.0'  | 0.9' |
|                     |                           |                              |              | 5'              | 36  | 2.1' | 2.1' | 5'                   | 2.9' | 23    | 2.9'  | 2.5'                 | 3'   | 3.0'  | 35    | 2.7'                 | 1.8' | 2'   | 3.6'  | 28    | 3.0'  | 1.7' |
|                     |                           |                              |              | 7'              | 18  | 3.0' | 3.0' | 7'                   | 4.0' | 12    | 4.0'  | 3.4'                 | 4'   | 4.0'  | 20    | 3.6'                 | 2.4' | 3'   | 5.2'  | 13    | 5.9'  | 2.6' |
|                     |                           |                              |              | 9'              | 11  | 3.8' | 3.8' | 9'                   | 5.2' | 7     | 5.2'  | 4.4'                 | 5'   | 5.0'  | 13    | 4.5'                 | 3.0' | 4'   | 6.9'  | 7     | 7.9'  | 3.4' |
| 20W MR16 TL<br>FL   | 36°                       | 450                          | 3500         | 2'              | 113 | 1.3' | 1.3' | 2'                   | 1.2' | 73    | 1.8'  | 1.5'                 | 2'   | 2.0'  | 40    | 2.9'                 | 1.8' | 1'   | 1.7'  | 56    | 3.8'  | 1.3' |
|                     |                           |                              |              | 3'              | 50  | 1.9' | 1.9' | 3'                   | 1.7' | 32    | 2.7'  | 2.3'                 | 3'   | 3.0'  | 18    | 4.4'                 | 2.8' | 2'   | 3.5   | 14    | 7.6'  | 2.6' |
|                     |                           |                              |              | 4'              | 28  | 2.6' | 2.6' | 4'                   | 2.3' | 18    | 3.6'  | 3.0'                 | 4'   | 4.0'  | 10    | 5.8'                 | 3.7' | 3'   | 5.2'  | 6     | 11.4' | 3.9' |
|                     |                           |                              |              | 5'              | 18  | 3.2' | 3.2' | 5'                   | 2.9' | 12    | 4.5'  | 3.8'                 | 5'   | 5.0'  | 6     | 7.3'                 | 4.6' | 4'   | 6.9'  | 4     | 15.2' | 5.2' |
| 35W MR16 TL<br>VNSP | 8°                        | 8100                         | 3500         | 7'              | 165 | 1.0' | 1.0' | 6'                   | 3.5' | 146   | 1.1'  | 1.0'                 | 4'   | 4.0'  | 179   | 1.1'                 | 0.8' | 2'   | 3.5'  | 253   | 1.1'  | 0.6' |
|                     |                           |                              |              | 10'             | 81  | 1.4' | 1.4' | 9'                   | 5.2' | 65    | 1.7'  | 1.5'                 | 6'   | 6.0'  | 80    | 1.7'                 | 1.2' | 3'   | 5.2'  | 113   | 1.7'  | 0.8' |
|                     |                           |                              |              | 13'             | 48  | 1.8' | 1.8' | 12'                  | 6.9' | 37    | 2.2'  | 1.9'                 | 8'   | 8.0'  | 45    | 2.2'                 | 1.6' | 4'   | 6.9'  | 63    | 2.3'  | 1.1' |
|                     |                           |                              |              | 16'             | 32  | 2.2' | 2.2' | 15'                  | 8.7' | 23    | 2.8'  | 2.4'                 | 10'  | 12.0' | 29    | 2.8'                 | 2.0' | 5'   | 8.7'  | 41    | 2.8   | 1.4' |
| 35W MR16 TL<br>SP   | 18°                       | 3240                         | 3500         | 6'              | 90  | 1.9' | 1.9' | 5'                   | 2.9' | 84    | 2.1'  | 1.8'                 | 3'   | 3.0'  | 127   | 1.9'                 | 1.3' | 2'   | 3.5'  | 101   | 2.7'  | 1.3' |
|                     |                           |                              |              | 8'              | 51  | 2.5' | 2.5' | 7'                   | 4.0' | 43    | 3.0'  | 2.6'                 | 5'   | 5.0'  | 46    | 3.2'                 | 2.2' | 3'   | 5.2'  | 45    | 4.1'  | 1.9' |
|                     |                           |                              |              | 10'             | 32  | 3.2' | 3.2' | 9'                   | 5.2' | 26    | 3.8'  | 3.3'                 | 7'   | 7.0'  | 23    | 4.5'                 | 3.1' | 4'   | 6.9'  | 25    | 5.5'  | 2.5' |
|                     |                           |                              |              | 12'             | 23  | 3.8' | 3.8' | 11'                  | 6.4' | 17    | 4.7'  | 4.0'                 | 9'   | 9.0'  | 14    | 5.8'                 | 4.0' | 5'   | 8.7'  | 15    | 6.9'  | 3.2' |
| 35W MR16 TL<br>FL   | 38°                       | 870                          | 3500         | 3'              | 97  | 2.1' | 2.1' | 3'                   | 1.7' | 63    | 2.9'  | 2.4'                 | 2'   | 2.0'  | 77    | 3.1'                 | 1.9' | 5'   | 5.0'  | 12    | 7.8'  | 4.9' |
|                     |                           |                              |              | 5'              | 35  | 3.4' | 3.4' | 5'                   | 2.9' | 23    | 4.8'  | 4.0'                 | 3'   | 3.0'  | 34    | 4.7'                 | 2.9' | 1'   | 1.7'  | 109   | 4.3'  | 1.4' |
|                     |                           |                              |              | 7'              | 18  | 4.8' | 4.8' | 7'                   | 4.0' | 12    | 6.7'  | 5.6'                 | 4'   | 4.0'  | 19    | 6.3'                 | 3.9' | 2'   | 3.5   | 27    | 8.6'  | 2.8' |
|                     |                           |                              |              |                 |     |      |      | 20'                  | 27   | 3.5'  | 3.5'  | 16'                  | 9.2' | 27    | 3.7'  | 3.2'                 | 3'   | 5.2' | 12    | 12.8' | 4.1'  |      |
| 50W MR16 TL<br>NSP  | 10°                       | 10800                        | 3500         | 8'              | 189 | 1.4' | 1.4' | 7'                   | 4.0' | 143   | 1.6'  | 1.4'                 | 5'   | 5.0'  | 153   | 1.8'                 | 1.2' | 11'  | 11.0' | 32    | 3.9'  | 2.7' |
|                     |                           |                              |              | 12'             | 75  | 2.1' | 2.1' | 10'                  | 5.8' | 70    | 2.3'  | 2.0'                 | 7'   | 7.0'  | 78    | 2.5'                 | 1.7' | 3'   | 5.2'  | 150   | 2.1'  | 1.0' |
|                     |                           |                              |              | 16'             | 42  | 2.8' | 2.8' | 13'                  | 7.5' | 42    | 3.0'  | 2.5'                 | 9'   | 9.0'  | 47    | 3.2'                 | 2.2' | 4'   | 6.9   | 84    | 2.9'  | 1.4' |
|                     |                           |                              |              |                 |     |      |      | 12'                  | 23   | 4.4'  | 4.4'  | 11'                  | 6.4' | 18    | 5.5'  | 4.7'                 | 5'   | 8.7' | 54    | 3.6'  | 1.7'  |      |
| 50W MR16 TL<br>NFL  | 21°                       | 3330                         | 3500         | 6'              | 93  | 2.2' | 2.2' | 5'                   | 2.9' | 87    | 2.5'  | 2.1'                 | 3'   | 3.0'  | 131   | 2.3'                 | 1.6' | 6'   | 10.4' | 38    | 4.3'  | 2.1' |
|                     |                           |                              |              | 8'              | 52  | 3.0' | 3.0' | 7'                   | 4.0' | 44    | 3.5'  | 3.0'                 | 5'   | 5.0'  | 47    | 3.8'                 | 2.6' | 9'   | 9.0'  | 15    | 6.9'  | 4.7' |
|                     |                           |                              |              | 10'             | 33  | 3.7' | 3.7' | 9'                   | 5.2' | 27    | 4.5'  | 3.9'                 | 7'   | 7.0'  | 24    | 5.4'                 | 3.7' | 2'   | 3.5'  | 104   | 3.3'  | 1.5' |
|                     |                           |                              |              |                 |     |      |      | 9'                   | 17   | 6.2'  | 6.2'  | 9'                   | 5.2' | 11    | 8.6'  | 7.2'                 | 3'   | 5.2' | 46    | 5.0'  | 2.2'  |      |
| 50W MR16 TL<br>FL   | 38°                       | 1395                         | 3500         | 3'              | 155 | 2.1' | 2.1' | 3'                   | 1.7' | 101   | 2.9'  | 2.4'                 | 2'   | 2.0'  | 123   | 3.1'                 | 1.9' | 4'   | 6.9'  | 26    | 6.6'  | 3.0' |
|                     |                           |                              |              | 5'              | 56  | 3.4' | 3.4' | 5'                   | 2.9' | 36    | 4.8'  | 4.0'                 | 3'   | 3.0'  | 56    | 4.7'                 | 2.9' | 5'   | 5.0'  | 20    | 7.8'  | 4.9' |
|                     |                           |                              |              | 7'              | 28  | 4.8' | 4.8' | 7'                   | 4.0' | 18    | 6.7'  | 5.6'                 | 4'   | 4.0'  | 31    | 6.3'                 | 3.9' | 1'   | 1.7'  | 174   | 4.3'  | 1.4' |
|                     |                           |                              |              |                 |     |      |      | 9'                   | 8    | 10.4' | 10.4' | 9'                   | 5.2' | 5     | 15.6' | 12.0'                | 2'   | 3.5' | 44    | 8.6'  | 2.8'  |      |
| 50W MR16 TL<br>WFL  | 60°                       | 630                          | 3500         | 3'              | 70  | 3.5' | 3.5' | 3'                   | 1.7' | 45    | 5.2'  | 4.0'                 | 2'   | 2.0'  | 56    | 6.9'                 | 3.3' | 3'   | 5.2'  | 19    | 12.8' | 4.1' |
|                     |                           |                              |              | 5'              | 25  | 5.8' | 5.8' | 5'                   | 2.9' | 15    | 8.7'  | 6.7'                 | 3'   | 3.0'  | 25    | 10.4'                | 4.9' | 4'   | 6.9'  | 11    | 17.1' | 5.5' |
|                     |                           |                              |              | 7'              | 13  | 8.1' | 8.1' | 7'                   | 4.0' | 8     | 12.1' | 9.3'                 | 4'   | 4.0'  | 14    | 13.9'                | 6.5' | 5'   | 5.0'  | 9     | 17.3' | 8.2' |
|                     |                           |                              |              |                 |     |      |      |                      |      |       |       |                      |      |       |       |                      |      | 1'   | 1.7'  | 79    | †     | 2.3' |

† Exceeds usable limits

**LIGHTOLIER®**

**Job Information    Type:**

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