

# LOW-PROFILE T5 INDUSTRIAL

GL

SUBMITTAL:

5- or 6-Lamp T5

JOB:

TYPE:

VOLTAGE:

EXAMPLE

GL - 4 - 6 54T5H - OPTIONS - EB2/2/2 - UNV

SERIES

NOMINAL LENGTH

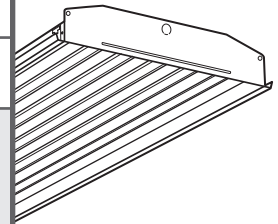
TOTAL LAMPS

WATTAGE/TYPE

OPTIONS/ACCESSORIES

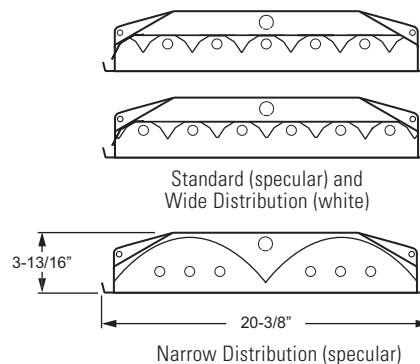
BALLAST TYPE

VOLTAGE



## FEATURES

- ▶ Up to **92.3% optical efficiency**.
- ▶ Optional energy-saving occupancy sensors available, see Fluorescent Information section.
- ▶ Aluminum housing with vented fixture back for maximum heat dissipation and extended ballast life.
- ▶ Easy access to ballast without the removal of lamps or the use of tools.
- ▶ Unlike HID, T5HO lamps maintain 95% of their original output and provide much better color rendition.
- ▶ Quick-wire access plate in back of fixture housing for easy attachment of incoming power supply.
- ▶ Shallow fixture depth of less than 4" allows fixture placement near the ceiling for maximum space utilization and reduces damage incurred from material handling equipment.
- ▶ Variety of mounting options.
- ▶ This fixture is proudly made in the USA.



## SPECIFICATIONS

**Housing** – Die-formed aluminum housing.  
**Reflector** – Precision-formed 95% reflective highly specular aluminum.  
**Finish** – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.  
**Electrical** – Electronic ballast standard, program start T5, rated Class P.  
**Mounting** – Suspended (see options in ordering information).  
**Labels** – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

## ORDERING INFORMATION

### SERIES

GL Low-Profile T5 Industrial

### NOMINAL LENGTH

4 4' 8 8'

### TOTAL LAMPS

5 or 6 4' length 10 or 12 8' length

### LAMP WATTAGE/TYPE

28T5S 4', 28-watt T5  
 54T5H 4', 54-watt T5HO

### OPTIONS/ACCESSORIES

For generic **EM ballast** and **occupancy sensor** options (must specify voltage), see Fluorescent Information section.  
 See Fluorescent Information section for accessories.

**ND** Narrow distribution (specular reflector, 6-lamp cross-section only)  
**WD** Wide distribution (white reflector)  
**UP5** Uplight apertures—5% uplight  
**WG11** 11-gauge wireguard, white powder coated  
**HA** High ambient (standard with lens option)  
**VBY** (2) Y-hangers  
**VBY-2** (2) Y-hangers and (2) 2' chains  
**GC2/Y18/5** Cable suspension kit, 5' length (1 pair)  
**GC2/Y18/10** Cable suspension kit, 10' length (1 pair)  
**3SB** 3" spacer bracket (1 pair)  
**HUB MT 3/4"** Cast iron hub and junction box for single 3/4" pendant mount (shipped not attached, 4' unit only)

### OPTIONS/ACCESSORIES (Continued)

**HUB/HOOK MT** Cast iron hub with mounting hook (shipped not attached, 4' unit only)  
**HOOK/CABLE S7238/B** Hook and cable mounting kit, 10' 72" cord, 3-conductor, No. 18 AWG, black  
**6CPI/L5-15P/TWLK** 6' cord and NEMA twistlock 15 AMP plug, 120V  
**6CPI/L7-15P/TWLK** 6' cord and NEMA twistlock 15 AMP plug, 277V  
**PHSCHA118** Piano hinge steel door frame, clear, high-temperature, non-prismatic acrylic, .118" thick  
**SCHA118** Steel door frame, clear, high-temperature, non-prismatic acrylic, .118" thick  
**FP54/41 ENC** Shatterproof lamps

### BALLAST TYPE

**EB3/2** (1) 3-lamp and (1) 2-lamp electronic ballast  
**EB3/3** (2) 3-lamp electronic ballasts  
**EB4/2** (1) 4-lamp and (1) 2-lamp electronic ballast  
**EB2/2/2** (3) 2-lamp electronic ballasts

### VOLTAGE

Must specify voltage (not UNV or HRV) if using modular wiring, cord and plug, or occupancy sensor.

| 120 | 120V | UNV | 120-277V             |
|-----|------|-----|----------------------|
| 208 | 208V | 347 | 347V                 |
| 240 | 240V | 480 | 480V (T5HO only)     |
| 277 | 277V | HRV | 347-480V (T5HO only) |



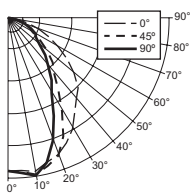
## 5- or 6-Lamp T5

## PHOTOMETRY – STANDARD DISTRIBUTION

Catalog #: GL-4-654T5H-EB2/2/2

## TEST REPORT INFORMATION

- ▶ Test Report #: 11837.0
- ▶ Date: 02/27/03
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lumens: 5000
- ▶ Lamp Quantity: 6



## LUMEN SUMMARY

| Zone                    | Lumens | % Lamp | % Fixture |
|-------------------------|--------|--------|-----------|
| 0 - 30                  | 997.2  | 33.2   | 37.2      |
| 0 - 40                  | 1503.5 | 50.1   | 56.2      |
| 0 - 60                  | 2307.6 | 76.9   | 86.2      |
| 0 - 90                  | 2677.4 | 89.2   | 100.0     |
| <b>Total Luminaire:</b> |        |        |           |
| 0 - 180                 | 2677.4 | 89.2   | 100.0     |

Total Luminaire Optical Efficiency: **89.2%**  
IES Spacing Criteria: End = 1.2, Diagonal = 1.1, Across = 1.0

## CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle 0° | 45°    | 90°    | Zonal Lumens |
|----------------|---------------------|--------|--------|--------------|
| 0              | 13095.              | 13095. | 13095. |              |
| 5              | 13101.              | 13220. | 13312. | 1261.3       |
| 15             | 12797.              | 13114. | 12810. | 3672.9       |
| 25             | 11807.              | 11186. | 9258.  | 5037.8       |
| 35             | 9931.               | 7488.  | 6497.  | 5062.6       |
| 45             | 8478.               | 5401.  | 4503.  | 4644.2       |
| 55             | 6194.               | 3354.  | 2918.  | 3397.1       |
| 65             | 3869.               | 1994.  | 2179.  | 2395.2       |
| 75             | 1769.               | 1082.  | 818.   | 1137.9       |
| 85             | 198.                | 132.   | 145.   | 165.4        |
| 90             | 0.                  | 0.     | 0.     |              |

## ZONAL CAVITY COEFFICIENTS

|                   | Ceiling | .80  |      |      | .70  |      |     | .50 |     |     |
|-------------------|---------|------|------|------|------|------|-----|-----|-----|-----|
| Room Cavity Ratio | Wall    | .70  | .50  | .30  | .70  | .50  | .30 | .50 | .30 | .10 |
| 0                 | 1.06    | 1.06 | 1.06 | 1.04 | 1.04 | 1.04 | .99 | .99 | .99 |     |
| 1                 | .99     | .96  | .93  | .97  | .94  | .91  | .90 | .86 | .86 |     |
| 2                 | .92     | .86  | .81  | .90  | .84  | .80  | .81 | .77 | .74 |     |
| 3                 | .85     | .77  | .71  | .83  | .76  | .70  | .73 | .69 | .65 |     |
| 4                 | .79     | .70  | .63  | .77  | .68  | .62  | .66 | .61 | .57 |     |
| 5                 | .73     | .62  | .55  | .71  | .62  | .55  | .60 | .54 | .49 |     |
| 6                 | .67     | .57  | .50  | .66  | .56  | .49  | .54 | .48 | .44 |     |
| 7                 | .63     | .52  | .44  | .61  | .51  | .44  | .50 | .43 | .39 |     |
| 8                 | .58     | .47  | .40  | .57  | .46  | .39  | .45 | .39 | .34 |     |
| 9                 | .54     | .42  | .35  | .52  | .42  | .35  | .41 | .35 | .30 |     |
| 10                | .50     | .39  | .32  | .49  | .38  | .32  | .37 | .31 | .27 |     |

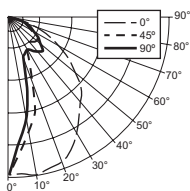
Effective Floor Cavity Reflectance = .20

## PHOTOMETRY – NARROW DISTRIBUTION

Catalog #: GL-4-654T5H-ND-EB2/2/2

## TEST REPORT INFORMATION

- ▶ Test Report #: W00032
- ▶ Date: 04/24/07
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lumens: 5000
- ▶ Lamp Quantity: 6



## CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle 0° | 45°    | 90°    | Zonal Lumens |
|----------------|---------------------|--------|--------|--------------|
| 0              | 15051.              | 15051. | 15051. |              |
| 5              | 14992.              | 14419. | 13648. | 686.2        |
| 15             | 14242.              | 10726. | 9048.  | 1595.1       |
| 25             | 13116.              | 7228.  | 5626.  | 1896.9       |
| 35             | 11188.              | 5189.  | 5747.  | 2114.1       |
| 45             | 8947.               | 5053.  | 5926.  | 2284.3       |
| 55             | 6372.               | 4698.  | 5020.  | 2160.0       |
| 65             | 3759.               | 3652.  | 3845.  | 1772.0       |
| 75             | 1757.               | 2366.  | 2295.  | 1153.8       |
| 85             | 477.                | 325.   | 328.   | 207.2        |
| 90             | 53.                 | 36.    | 57.    |              |

## LUMEN SUMMARY

| Zone                    | Lumens | % Lamp | % Fixture |
|-------------------------|--------|--------|-----------|
| 0 - 30                  | 8256.  | 27.5   | 29.8      |
| 0 - 40                  | 12503. | 41.7   | 45.1      |
| 0 - 60                  | 21352. | 71.2   | 77.1      |
| 0 - 90                  | 27686. | 92.3   | 100.0     |
| <b>Total Luminaire:</b> |        |        |           |
| 0 - 180                 | 27698. | 92.3   | 100.0     |

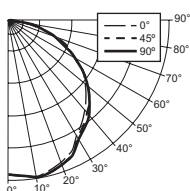
Total Luminaire Optical Efficiency: **92.3%**  
IES Spacing Criteria: End = 1.2  
Across = 0.6

## PHOTOMETRY – WIDE DISTRIBUTION

Catalog #: GL-4-654T5H-WD-EB4/2

## TEST REPORT INFORMATION

- ▶ Test Report #: 14126.0
- ▶ Date: 05/29/08
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lumens: 5000
- ▶ Lamp Quantity: 6



## CANDLEPOWER DISTRIBUTION

| Vertical Angle | Horizontal Angle 0° | 45°   | 90°   | Zonal Lumens |
|----------------|---------------------|-------|-------|--------------|
| 0              | 8168.               | 8168. | 8168. |              |
| 5              | 8238.               | 8238. | 8238. | 786.2        |
| 15             | 8206.               | 8278. | 8298. | 2342.8       |
| 25             | 7679.               | 7798. | 7850. | 3604.7       |
| 35             | 6639.               | 6791. | 6949. | 4271.6       |
| 45             | 5686.               | 5956. | 5943. | 4554.6       |
| 55             | 4685.               | 4770. | 4692. | 4221.5       |
| 65             | 3356.               | 3237. | 3237. | 3239.3       |
| 75             | 1816.               | 1697. | 1526. | 1746.9       |
| 85             | 269.                | 296.  | 276.  | 325.3        |
| 90             | 0.                  | 0.    | 0.    |              |

## LUMEN SUMMARY

| Zone                    | Lumens | % Lamp | % Fixture |
|-------------------------|--------|--------|-----------|
| 0 - 30                  | 6734.  | 22.4   | 26.8      |
| 0 - 40                  | 11005. | 36.7   | 43.9      |
| 0 - 60                  | 19781. | 65.9   | 78.8      |
| 0 - 90                  | 25093. | 83.6   | 100.0     |
| <b>Total Luminaire:</b> |        |        |           |
| 0 - 180                 | 25093. | 83.6   | 100.0     |

Total Luminaire Optical Efficiency: **83.6%**  
IES Spacing Criteria: End = 1.3  
Diagonal = 1.3  
Across = 1.3

## FIXTURE DETAILS

## BACK VIEW

