

LOW-PROFILE T5 INDUSTRIAL

GL

3- or 4-Lamp T5

SUBMITTAL:

JOB:

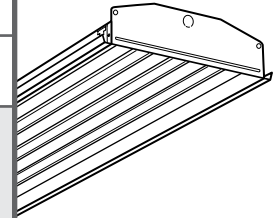
TYPE:

VOLTAGE:

EXAMPLE

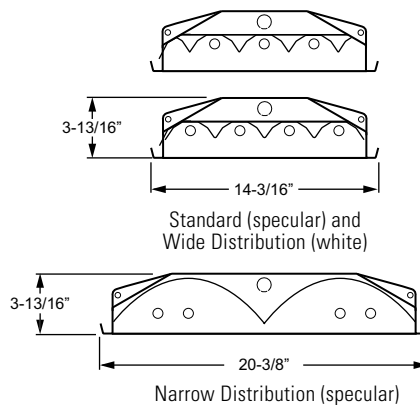
GL - 4 - 4 54T5H - OPTIONS - EB2/2 - UNV

SERIES NOMINAL LENGTH TOTAL LAMPS WATTAGE/TYPE OPTIONS/ACCESSORIES BALLAST TYPE VOLTAGE



FEATURES

- ▶ Up to **98.5% optical efficiency**.
- ▶ Optional energy-saving occupancy sensors available, see Fluorescent Information section.
- ▶ Aluminum housing 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

3 or 4 4' length **6 or 8** 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, 4-lamp cross-section only, uses 6-lamp fixture housing)
- WD** Wide distribution (white reflector)
- UP5** Uplight apertures–5% upright
- WG11** 11-gauge wireguard, white powder coated
- HA** High ambient (standard with lens option)
- VBV** (2) Y-hangers
- VBV-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** 3-lamp electronic ballast
- EB4** 4-lamp electronic ballast
- EB3/3** (2) 3-lamp electronic ballasts
- EB4/4** (2) 4-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) |

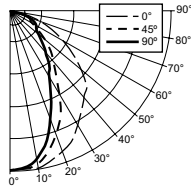
3- or 4-Lamp T5

PHOTOMETRY – STANDARD DISTRIBUTION

Catalog #: **GL-4-454T5H-EB/2**

TEST REPORT INFORMATION

- ▶ Test Report #: 11759.0
- ▶ Date: 11/22/02
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lumens: 5000
- ▶ Lamp Quantity: 4



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	8055.	40.3	37.5
0 - 40	12035.	60.2	56.1
0 - 60	18341.	91.7	85.5
0 - 90	21455.	107.3	100.0
Total Luminaire:			
0 - 180	21455.	107.3	100.0

Total Luminaire Optical Efficiency: **100.0%**¹
IES Spacing Criteria: End = 1.2, Diagonal = 1.0, Across = 0.9

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	11505.	11505.	11505.	
5	11448.	11435.	11376.	1090.5
15	11198.	10548.	9840.	2990.9
25	10345.	8520.	6872.	3973.6
35	8822.	5678.	4811.	3979.7
45	7621.	4056.	3255.	3637.6
55	5527.	2474.	2212.	2668.3
65	3400.	1522.	1877.	1947.6
75	1483.	1004.	748.	989.3
85	164.	144.	170.	177.6
90	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

Room Cavity Ratio	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
0	1.28	1.28	1.28	1.25	1.25	1.25	1.19	1.19	1.19			
1	1.19	1.15	1.11	1.16	1.12	1.09	1.08	1.05	1.03			
2	1.10	1.03	.97	1.08	1.01	.95	.97	.93	.88			
3	1.02	.93	.85	1.0	.91	.84	.88	.82	.77			
4	.95	.83	.75	.92	.82	.75	.80	.73	.68			
5	.87	.75	.66	.85	.74	.66	.72	.65	.59			
6	.81	.68	.60	.79	.67	.59	.65	.58	.53			
7	.75	.62	.53	.73	.61	.53	.60	.52	.47			
8	.70	.56	.48	.68	.56	.47	.54	.47	.42			
9	.65	.51	.43	.63	.50	.42	.49	.42	.37			
10	.60	.47	.39	.59	.46	.38	.45	.38	.33			

Effective Floor Cavity Reflectance = .20

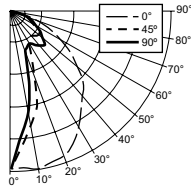
¹ Luminaire efficiency is dependent upon both optical and thermal factors. Under certain circumstances, lamp lumen output can be increased in the luminaire versus lumen output in 25°C air due to increased lamp temperature when operating in the luminaire. As luminaire efficiency is derived from luminaire output versus lamp output in open air, this can result in an efficiency greater than 100%.

PHOTOMETRY – NARROW DISTRIBUTION

Catalog #: **GL-4-454T5H-ND-EB/2**

TEST REPORT INFORMATION

- ▶ Test Report #: 13473.0
- ▶ Date: 02/22/07
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lumens: 5000
- ▶ Lamp Quantity: 4



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	6900.	34.5	35.0
0 - 40	9911.	49.6	50.3
0 - 60	16267.	81.3	82.6
0 - 90	19693.	98.5	100.0
Total Luminaire:			
0 - 180	19693.	98.5	100.0

Total Luminaire Optical Efficiency: **98.5%**
IES Spacing Criteria: End = 1.3
Diagonal = 0.6
Across = 0.4

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	14775.	14775.	14775.	
5	14769.	12523.	11610.	1227.2
15	14596.	9229.	6305.	2709.6
25	13621.	4367.	3714.	2963.1
35	11338.	3195.	3862.	3011.0
45	9488.	3232.	4441.	3340.5
55	6625.	3294.	3319.	3015.9
65	3935.	2196.	1850.	2168.8
75	1591.	1122.	900.	1157.9
85	136.	61.	49.	98.9
90	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	6900.	34.5	35.0
0 - 40	9911.	49.6	50.3
0 - 60	16267.	81.3	82.6
0 - 90	19693.	98.5	100.0
Total Luminaire:			
0 - 180	19693.	98.5	100.0

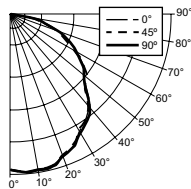
Total Luminaire Optical Efficiency: **98.5%**
IES Spacing Criteria: End = 1.3
Diagonal = 0.6
Across = 0.4

PHOTOMETRY – WIDE DISTRIBUTION

Catalog #: **GL-4-454T5H-WD-EB/2**

TEST REPORT INFORMATION

- ▶ Test Report #: 14803.0
- ▶ Date: 08/03/09
- ▶ Lamp Type: FP54T5H0/835
- ▶ Lumens: 5000
- ▶ Lamp Quantity: 4



FIXTURE DETAILS

BACK VIEW

