

LOW-PROFILE T5 INDUSTRIAL

GL

SUBMITTAL:

3- or 4-Lamp T5

JOB:

TYPE:

VOLTAGE:

EXAMPLE

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

SERIES

NOMINAL LENGTH

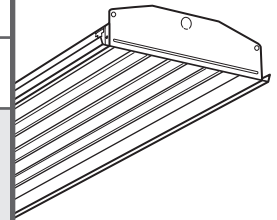
TOTAL LAMPS

WATTAGE/TYPE

OPTIONS/ACCESSORIES

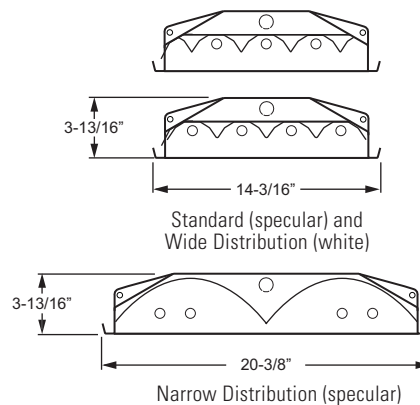
BALLAST TYPE

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% 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 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)



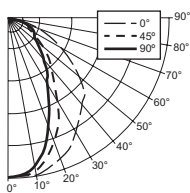
3- or 4-Lamp T5

PHOTOMETRY – STANDARD DISTRIBUTION

Catalog #: GL-4-454T5H-EB2/2

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

	Ceiling			Wall			Floor		
	.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

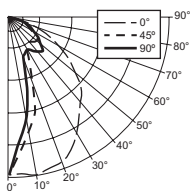
¹ Luminaire efficiency is dependent upon both optical and thermal factors. Under certain circumstances, lamp lumen output can be increased in the luminaire versus lumen output in 25°C air due to increased lamp temperature when operating in the luminaire. As luminaire efficiency is derived from luminaire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

PHOTOMETRY – NARROW DISTRIBUTION

Catalog #: GL-4-454T5H-ND-EB2/2

TEST REPORT INFORMATION

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

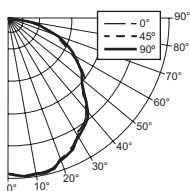
Total Luminaire Optical Efficiency: **98.5%**
IES Spacing Criteria: End = 1.3
Diagonal = 0.6
Across = 0.4

PHOTOMETRY – WIDE DISTRIBUTION

Catalog #: GL-4-454T5H-WD-EB2/2

TEST REPORT INFORMATION

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



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	5292.	5292.	5292.	
5	5389.	5389.	5389.	514.5
15	5307.	5347.	5367.	1514.6
25	4890.	4944.	4951.	2281.7
35	4345.	4365.	4444.	2757.3
45	3474.	3500.	3474.	2696.6
55	2921.	2847.	2821.	2545.2
65	2076.	1929.	2083.	1985.1
75	1178.	1157.	891.	1100.4
85	166.	172.	186.	196.4
90	0.	0.	0.	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	4311.	21.6	27.6
0 - 40	7068.	35.3	45.3
0 - 60	12310.	61.5	79.0
0 - 90	15592.	78.0	100.0
Total Luminaire:			
0 - 180	15592.	78.0	100.0

Total Luminaire Optical Efficiency: **78.0%**
IES Spacing Criteria: End = 1.3
Diagonal = 1.3
Across = 1.3

FIXTURE DETAILS

BACK VIEW

