

T5 FREEZER LIGHT

FZL

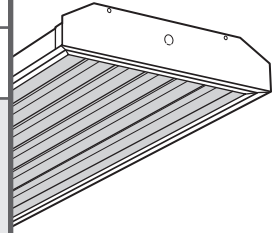
SUBMITTAL:

T5

JOB:

TYPE:

VOLTAGE:



EXAMPLE

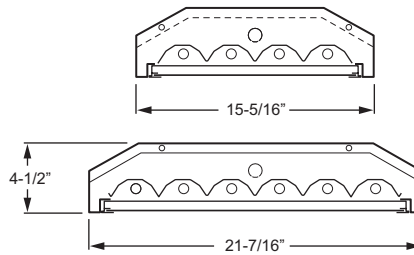
FZL - 4 - 4 54T5H - MD - F CHA118 - OPTIONS - EB2/2 - UNV

SERIES NOMINAL LENGTH TOTAL LAMPS WATTAGE/TYPE DISTRIBUTION DOOR FRAME SHIELDING OPTIONS/ACCESSORIES BALLAST TYPE VOLTAGE



FEATURES

- ▶ Steel fixture housing is designed to maximize heat retention and operate in extremely cold conditions as low as -29°C (-20°F).
- ▶ Up to **88.9% optical efficiency**.
- ▶ Optional energy saving occupancy sensors available.
- ▶ Unlike HID, T5HO lamps maintain 95% of their original output and provide much better color rendition.
- ▶ Fully enclosed spring-loaded cam latches provide years of hassle-free maintenance.
- ▶ Quick-wire access plate in back of fixture housing allows easy attachment of incoming power supply.
- ▶ Double-gasketed lens retains heat.
- ▶ This fixture is proudly made in the USA.



SPECIFICATIONS

Housing – 20-gauge die-formed C.R.S.
Door Frame – Extruded aluminum, double-gasketed door frame. T-slot steel hinge allows reversible hinging and latching.
Shielding – Clear, high-temperature, non-prismatic, acrylic, .118" thick.
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. Rated -29°C (-20°F) minimum starting temperature.
Mounting – Suspended (see options in ordering information).
Labels – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

ORDERING INFORMATION

SERIES

FZL T5 Freezer Light

NOMINAL LENGTH

4 4'

TOTAL LAMPS

4 or 6

LAMP WATTAGE/TYPE

54T5H 4', 54-watt T5HO

DISTRIBUTION

MD Medium distribution, highly specular reflector (standard)
WD Wide distribution, white reflector

DOOR FRAME

F White flat aluminum

SHIELDING

CHA118 Clear, high-temperature, non-prismatic acrylic, .118" thick

OPTIONS/ACCESSORIES

For generic **EM ballast** and options (must specify voltage), see Fluorescent Information section.

See Fluorescent Information section for accessories.

OCCSS CMRB-6 Occupancy sensor (15°F and above, must specify voltage)
OCCSS CMRB-6-LT Low temperature occupancy sensor (-20°F and above, must specify voltage)

OPTIONS/ACCESSORIES (Continued)

OCCSS CMRB-6-LT-AO Low temperature/alternating occupancy sensor (-20°F and above) (Only available in 120, 277, or 347 voltages, must specify; 4-lamps, using EB2/2 ballast configuration only.)
S7238/B 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
VBY (2) Y-hangers
VBY-3 (2) Y-hangers and (2) 3' chains
HUB MT 3/4" Cast iron hub and junction box for single 3/4" pendant mount

BALLAST TYPE

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

VOLTAGE

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

120 120V
208 208V
240 240V
277 277V
UNV 120-277V
347 347V
480 480V
HRV 347-480V

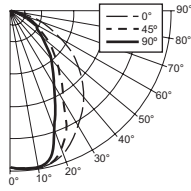
T5

PHOTOMETRY – 4 LAMPS

Catalog #: FZL-4-454T5H-MD-FCHA118-EB2/2

TEST REPORT INFORMATION

- ▶ Test Report #: 14332.0
- ▶ Date: 10/27/08
- ▶ Lamp Type: FP54T5H0/835/C
- ▶ Lamp Quantity: 4



Note: Test performed using amalgam lamps in a still air environment at an ambient temperature of 25°C.

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	6746.	34.4	38.7
0 - 40	10133.	51.7	58.1
0 - 60	15320.	78.2	87.9
0 - 90	17432.	88.9	100.0
Total Luminaire:			
0 - 180	17432.	88.9	100.0

Total Luminaire Optical Efficiency: **88.9%**
IES Spacing Criteria: End = 1.3, Diagonal = 1.1, Across = 0.9

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	9014.	9014.	9014.	
5	9118.	9133.	9115.	871.8
15	9046.	9029.	8651.	2535.9
25	8261.	7371.	5823.	3337.9
35	7086.	4921.	4025.	3387.6
45	5790.	3459.	2735.	2992.2
55	4258.	2170.	1745.	2194.3
65	2519.	1122.	1326.	1441.2
75	925.	564.	471.	601.2
85	63.	63.	58.	70.0
90	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.80	.70	.50	.80	.70	.50	.80	.70	.50	
Room Cavity Ratio	0	1.06	1.06	1.06	1.03	1.03	1.03	.99	.99	.99
	1	.99	.96	.93	.97	.94	.91	.90	.88	.86
	2	.92	.86	.81	.90	.85	.80	.82	.78	.75
	3	.85	.78	.72	.83	.76	.71	.74	.69	.65
	4	.79	.70	.64	.77	.69	.63	.67	.62	.58
	5	.73	.63	.56	.71	.62	.56	.60	.55	.50
	6	.68	.57	.50	.66	.57	.50	.55	.49	.45
	7	.63	.52	.45	.62	.52	.45	.50	.44	.40
	8	.58	.47	.41	.57	.47	.40	.46	.40	.35
	9	.54	.43	.36	.53	.42	.36	.41	.35	.31
	10	.50	.39	.33	.49	.39	.33	.38	.32	.28

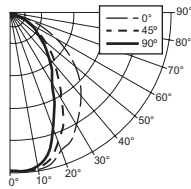
Effective Floor Cavity Reflectance = .20

PHOTOMETRY – 6 LAMPS

Catalog #: FZL-4-654T5H-MD-FCHA118-EB4/2

TEST REPORT INFORMATION

- ▶ Test Report #: 14279.0
- ▶ Date: 09/08/08
- ▶ Lamp Type: FP54T5H0/835/C
- ▶ Lamp Quantity: 6



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	9296.	31.6	39.1
0 - 40	13915.	47.3	58.6
0 - 60	20972.	71.3	88.3
0 - 90	23756.	80.8	100.0
Total Luminaire:			
0 - 180	23756.	80.8	100.0

Total Luminaire Optical Efficiency: **80.8%**
IES Spacing Criteria: End = 1.2, Diagonal = 1.0, Across = 0.9

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	12788.	12788.	12788.	
5	12864.	12902.	12877.	1229.9
15	12596.	12272.	11723.	3463.6
25	11399.	9977.	8381.	4602.1
35	9653.	6784.	5799.	4619.3
45	7783.	4740.	4016.	4073.9
55	5624.	2868.	2594.	2983.1
65	3267.	2308.	1746.	1937.0
75	1172.	685.	661.	776.4
85	62.	62.	62.	70.9
90	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor			
	.80	.70	.50	.80	.70	.50	.80	.70	.50	
Room Cavity Ratio	0	.94	.94	.94	.91	.91	.91	.86	.86	.86
	1	.85	.81	.78	.83	.79	.76	.75	.73	.70
	2	.77	.71	.65	.75	.69	.64	.66	.62	.58
	3	.71	.62	.56	.69	.61	.55	.58	.53	.49
	4	.65	.55	.48	.63	.54	.47	.52	.46	.41
	5	.59	.48	.41	.57	.47	.41	.45	.39	.35
	6	.54	.43	.36	.52	.42	.35	.41	.35	.30
	7	.50	.39	.32	.48	.38	.31	.36	.30	.26
	8	.46	.35	.28	.44	.34	.27	.33	.27	.22
	9	.42	.31	.24	.41	.30	.24	.29	.23	.19
	10	.39	.28	.22	.38	.28	.21	.26	.21	.17

Effective Floor Cavity Reflectance = .20

FIXTURE DETAILS

BACK VIEW

