

HIGH EFFICIENCY TROFFER – LENSED

HETL

T8

CATALOG #:

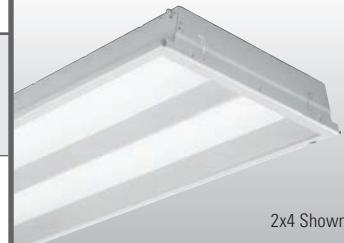
TYPE:

PROJECT:

NOTES:

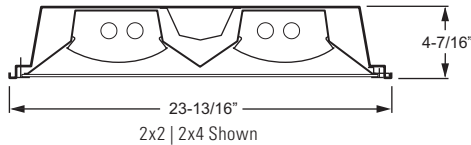
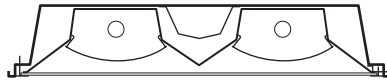
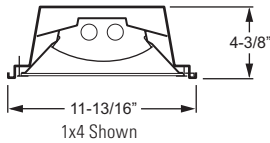
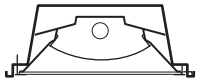
EXAMPLE
HETL G - S 2 4 - 2 32 - F A - OPTIONS - EB2 - UNV

SERIES	CEILING TYPE	FIX. NOM. STYLE	NOM. W. L.	TOTAL WATTAGE/ LAMPS	WATTAGE/ TYPE	DOOR SHIELD. FRAME	OPTIONS	BALLAST TYPE	VOLTAGE	
HETL	G	S	2 4	2	32	F	A	OPTIONS	EB2	UNV



2x4 Shown

CROSS SECTIONS



ORDERING INFORMATION

SERIES

HETL High Efficiency Troffer – Lensed

CEILING TYPE

G NEMA Type "G"
F NEMA Type "F"

FIXTURE STYLE

S Static, no air capability, full door frame, no reveal

NOMINAL WIDTH

1 1'
2 2'

NOMINAL LENGTH

2 2' (2' width only)
4 4'

TOTAL LAMPS

1 or 2 (1x4)
2 or 4 (2x2 and 2x4)

LAMP WATTAGE/TYPE

2' LAMP OPTIONS:
17 2', 17-watt T8
4' LAMP OPTIONS:
32 4', 32-watt T8

DOOR FRAME

F Flat aluminum

SHIELDING

A Clear, non-prismatic acrylic, .080" thick
P Clear, non-prismatic polycarbonate, .080" thick

OPTIONS

 See Technical Info for [generic EM ballast options](#) (must specify voltage).
EQCLIPS Earthquake clips (4 per fixture)
DG Double gasket
TG Triple gasket (field installed)
CP Chicago Plenum (CCEA)

BALLAST TYPE

 See Technical Info for complete [ballast offering](#).
EB1 1-lamp electronic ballast
EB2 2-lamp electronic ballast
EB4 4-lamp electronic ballast
EB2/2 (2) 2-lamp electronic ballasts (T5S only)

VOLTAGE

120 120V
277 277V
UNV 120-277V
347 347V

FEATURES

- ▶ Transparent lensed door provides a barrier between the room and the ribbed acrylic diffusers to discourage vandals and minimize contaminants. Double or triple gasketing options available.
- ▶ Hinged optical assembly swings down to allow easy lamp and ballast access from room side of fixture.
- ▶ Attractive and efficient architectural troffer delivers comfortable, uniform illumination.
- ▶ Frosted acrylic diffusers combined with highly reflective matte white paint provide high optical efficiencies and visual comfort.
- ▶ Integral T-bar clips quickly secure fixture to structure.
- ▶ This fixture is proudly made in the USA.



T8

SPECIFICATIONS

Housing – 22-gauge die-formed C.R.S.
Door Frame & Lens – Transparent acrylic lens, .080" thick, mounted in .050" thick extruded aluminum door frame, flat with mitered corners.

Reflector – Precision die-formed C.R.S. with highly reflective, non-glare matte white polyester powder coated finish.

Diffuser – Ribbed acrylic.

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, instant start T8, rated Class P.

Mounting – NEMA Type "G" standard. NEMA Type "F" available.

Labels –

- UL/CUL listed as recessed fluorescent luminaire suitable for dry or damp locations.
- City of Chicago Environmental Air approved when specified with CP option.

ZONAL CAVITY COEFFICIENTS – 2x2

Ceiling		.80			.70			.50		
Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10	
0	.93	.93	.93	.91	.91	.91	.87	.87	.87	
1	.87	.84	.81	.85	.82	.80	.79	.77	.75	
2	.80	.75	.70	.78	.73	.69	.71	.67	.64	
3	.74	.67	.61	.72	.66	.61	.64	.59	.56	
4	.68	.60	.54	.67	.59	.53	.57	.52	.48	
5	.63	.53	.47	.61	.52	.46	.51	.46	.41	
6	.58	.48	.41	.56	.47	.41	.46	.40	.36	
7	.53	.43	.37	.52	.43	.36	.41	.36	.32	
8	.49	.39	.32	.48	.38	.32	.37	.32	.28	
9	.45	.35	.28	.44	.34	.28	.33	.28	.24	
10	.42	.32	.25	.41	.31	.25	.30	.25	.21	

Effective Floor Cavity Reflectance = .20

ZONAL CAVITY COEFFICIENTS – 1x4

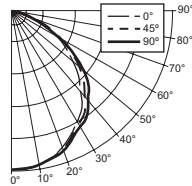
Ceiling		.80			.70			.50		
Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10	
0	.91	.91	.91	.89	.89	.89	.85	.85	.85	
1	.85	.82	.79	.83	.80	.78	.77	.75	.73	
2	.78	.73	.69	.77	.72	.68	.69	.66	.63	
3	.73	.66	.60	.71	.65	.60	.62	.58	.55	
4	.67	.59	.53	.65	.58	.53	.56	.51	.48	
5	.61	.53	.46	.60	.52	.46	.50	.45	.41	
6	.57	.47	.41	.55	.47	.41	.45	.40	.36	
7	.52	.43	.37	.51	.42	.36	.41	.36	.32	
8	.48	.38	.32	.47	.38	.32	.37	.32	.28	
9	.44	.35	.28	.43	.34	.28	.33	.28	.24	
10	.41	.31	.25	.40	.31	.25	.30	.25	.21	

Effective Floor Cavity Reflectance = .20

PHOTOMETRY – 2x4

TEST REPORT INFORMATION

- Test Report #: 16716.0
- Date: 06/12/12
- Lamp Type: F32T8/835
- Lamp Quantity: 2



ZONAL CAVITY COEFFICIENTS

Ceiling		.80			.70			.50		
Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10	
0	.95	.95	.95	.93	.93	.93	.89	.89	.89	
1	.89	.85	.83	.86	.84	.81	.80	.78	.76	
2	.82	.76	.72	.80	.75	.70	.72	.68	.65	
3	.75	.68	.62	.74	.67	.62	.65	.60	.56	
4	.69	.61	.55	.68	.60	.54	.58	.53	.49	
5	.64	.54	.48	.62	.53	.47	.52	.46	.42	
6	.59	.49	.42	.57	.48	.42	.47	.41	.37	
7	.54	.44	.37	.53	.43	.37	.42	.36	.32	
8	.50	.39	.33	.49	.39	.32	.38	.32	.28	
9	.46	.35	.29	.45	.35	.29	.34	.28	.24	
10	.42	.32	.26	.41	.32	.26	.31	.25	.21	

Effective Floor Cavity Reflectance = .20

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1883.	1883.	1883.	
5	1878.	1876.	1876.	179.1
15	1789.	1798.	1807.	509.7
25	1626.	1652.	1677.	764.5
35	1430.	1482.	1532.	930.5
45	1107.	1187.	1265.	918.7
55	760.	851.	879.	749.5
65	451.	501.	440.	468.6
75	177.	165.	135.	172.7
85	21.	17.	17.	19.6
90	0.	0.	0.	

Catalog #: HETLG-S24-232

LUMEN SUMMARY

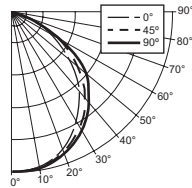
Zone	Lumens	% Lamp	% Fixture
0 - 30	1453.	24.6	30.8
0 - 40	2384.	40.4	50.6
0 - 60	4052.	68.7	86.0
0 - 90	4713.	79.9	100.0
Total Luminaire:			
0 - 180	4713.	79.9	100.0

Total Luminaire Optical Efficiency: 79.9%
 Spacing Criteria: Across: 1.3
 Diagonal: 1.2
 End: 1.2

PHOTOMETRY – 2x2

TEST REPORT INFORMATION

- Test Report #: 16718.0
- Date: 06/13/12
- Lamp Type: F17/835
- Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	877.	877.	877.	
5	879.	877.	880.	83.9
15	839.	848.	851.	239.8
25	760.	785.	802.	362.5
35	648.	691.	715.	430.6
45	499.	553.	602.	427.8
55	342.	400.	438.	352.5
65	198.	231.	221.	213.5
75	76.	72.	65.	75.2
85	8.	4.	8.	6.6
90	0.	0.	0.	

Catalog #: HETLG-S22-217

LUMEN SUMMARY

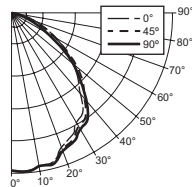
Zone	Lumens	% Lamp	% Fixture
0 - 30	686.	24.5	31.3
0 - 40	1117.	39.9	50.9
0 - 60	1897.	67.8	86.5
0 - 90	2192.	78.3	100.0
Total Luminaire:			
0 - 180	2192.	78.3	100.0

Total Luminaire Optical Efficiency: 78.3%
 Spacing Criteria: Across: 1.3
 Diagonal: 1.3
 End: 1.2

PHOTOMETRY – 1x4

TEST REPORT INFORMATION

- Test Report #: 16715.0
- Date: 06/12/12
- Lamp Type: F54T5H/841
- Lamp Quantity: 1



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	927.	927.	927.	
5	935.	935.	933.	89.2
15	909.	915.	921.	259.2
25	811.	826.	838.	381.9
35	719.	748.	769.	468.5
45	538.	573.	573.	436.6
55	369.	390.	347.	334.0
65	219.	202.	165.	198.0
75	85.	67.	53.	72.2
85	10.	9.	9.	9.6
90	0.	0.	0.	

Catalog #: HETLG-S14-154T5H

LUMEN SUMMARY

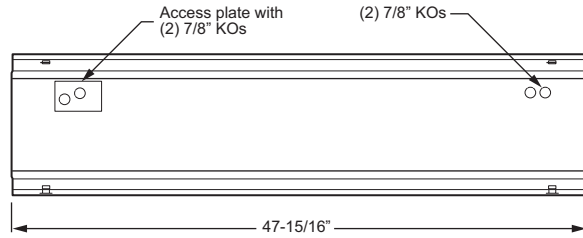
Zone	Lumens	% Lamp	% Fixture
0 - 30	730.	24.8	32.5
0 - 40	1199.	40.6	53.3
0 - 60	1969.	66.8	87.6
0 - 90	2249.	76.2	100.0
Total Luminaire:			
0 - 180	2249.	76.2	100.0

Total Luminaire Optical Efficiency: 76.2%
 Spacing Criteria: Across: 1.3
 Diagonal: 1.3
 End: 1.2

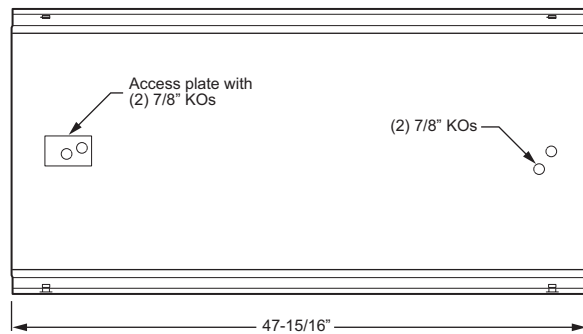
FIXTURE DETAIL

BACK VIEW

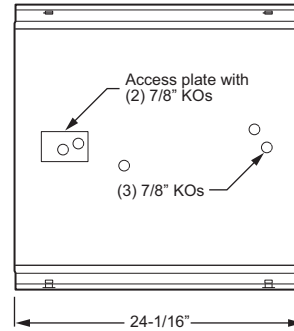
1x4



2x4

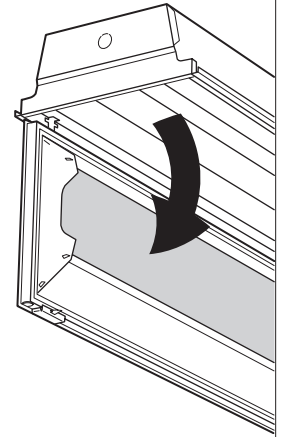


2x2

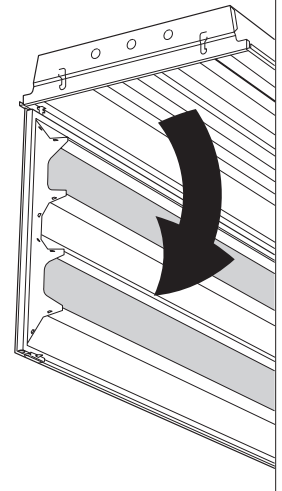


DOOR ASSEMBLY DETAILS

1x4

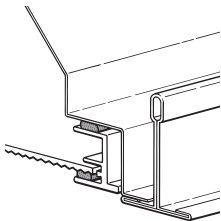


2x2 | 2x4



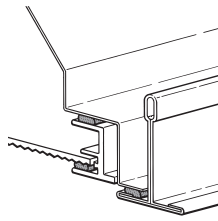
GASKETING DETAILS

DOUBLE GASKETING (DG)



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens.

TRIPLE GASKETING (TG)



Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens. Gasketing between bottom perimeter of unit (adjacent to T-bar or hardpan ceiling) is provided by factory and field installed.

