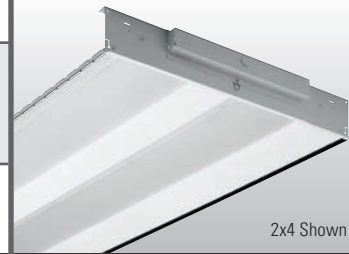


HIGH EFFICIENCY TROFFER – AIR RETURN

HET

1x4 | 2x2 | 2x4 T5



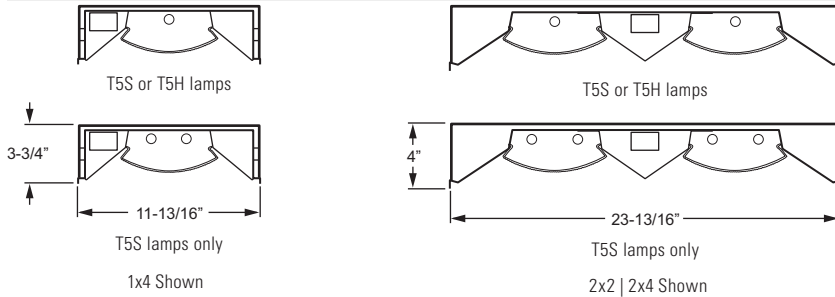
CATALOG #: _____ TYPE: _____

PROJECT: _____ NOTES: _____

EXAMPLE **HET G - AR 2 4 - 2 28T5S - A - OPTIONS - EB2 - UNV**

SERIES CEILING TYPE FIXTURE STYLE NOM. W. NOM. L. TOTAL LAMPS WATTAGE/TYPE SHIELDING OPTIONS BALLAST TYPE VOLTAGE

CROSS SECTION



FEATURES

- ▶ Black reveal minimizes appearance of dirt and dust resulting from air return function.
- ▶ Air return capability reduces number of unsightly ceiling vents for a cleaner appearance.
- ▶ Frosted acrylic diffuser combined with highly reflective matte white paint provides high optical efficiencies and visual comfort.
- ▶ One-piece diffuser eliminates the need for separate overlay.
- ▶ Attractive, energy efficient architectural fixture delivers comfortable, uniform lighting.
- ▶ Shallow fixture depth allows for use in limited plenum applications.
- ▶ Companion HET/HES products available.
- ▶ Tool-less access to electrical from room side of fixture.
- ▶ Integral T-bar clips quickly secure fixture to structure.
- ▶ This fixture is proudly made in the USA.

ORDERING INFORMATION

SERIES
HET High Efficiency Troffer–Air Return

CEILING TYPE
G NEMA Type “G”

FIXTURE STYLE
AR Air return only (through side slots)

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; 4-lamp available with T5S only)

LAMP WATTAGE/TYPE

2' LAMP OPTIONS:

14T5S	2', 14-watt T5
24T5H	2', 24-watt T5HO (2-lamp cross-section only)

4' LAMP OPTIONS:

28T5S	4', 28-watt T5
54T5H	4', 54-watt T5HO (2-lamp cross-section only)

SHIELDING
A Acrylic lens

OPTIONS
See Technical Info for [generic EM ballast options](#) (must specify voltage).
EQCLIPS Earthquake clips (4 per fixture)

BALLAST TYPE
See Technical Info for complete [ballast offering](#).

EB1	1-lamp electronic ballast
EB2	2-lamp electronic ballast
EBSD(95)1	1-lamp electronic ballast, step-dimming, .95 ballast factor (T5S only)
EBSD(115)1	1-lamp electronic ballast, step-dimming, 1.15 ballast factor (T5S only)
EBSD(95)2	2-lamp electronic ballast, step-dimming, .95 ballast factor (T5S only)
EBSD(115)2	2-lamp electronic ballast, step-dimming, 1.15 ballast factor (T5S only)
EB2/2	(2) 2-lamp electronic ballasts (T5S only)
EBSD(95)2/2	(2) 2-lamp electronic ballasts, step-dimming, .95 ballast factor, (T5S only)
EBSD(115)2/2	(2) 2-lamp electronic ballasts, step-dimming, 1.15 ballast factor (T5S only)

VOLTAGE

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

T5

PHOTOMETRY – 2x4

Catalog #: HETG-AR24-228T5S-A

SPECIFICATIONS

Housing – 22-gauge die-formed C.R.S.
Shielding – Ribbed acrylic diffuser.
Finish – Highly reflective non-glare matte 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 – NEMA Type “G”.
Labels – UL/CUL listed as recessed fluorescent luminaire suitable for dry or damp locations.

ZONAL CAVITY COEFFICIENTS – 2x2

	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
Room Cavity Ratio	0	1.03	1.03	1.03	1.01	1.01	1.01	.96	.96	.96		
1	.96	.92	.89	.94	.90	.88	.87	.84	.82			
2	.88	.82	.77	.86	.81	.76	.78	.74	.70			
3	.81	.73	.67	.79	.72	.66	.69	.64	.60			
4	.75	.65	.58	.73	.64	.58	.62	.56	.52			
5	.68	.58	.50	.67	.57	.50	.55	.49	.44			
6	.63	.52	.44	.61	.51	.44	.49	.43	.39			
7	.58	.47	.39	.56	.46	.39	.45	.38	.34			
8	.53	.42	.34	.52	.41	.34	.40	.34	.29			
9	.49	.37	.30	.48	.37	.30	.36	.30	.25			
10	.45	.34	.27	.44	.33	.27	.33	.26	.22			

Effective Floor Cavity Reflectance = .20

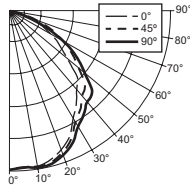
ZONAL CAVITY COEFFICIENTS – 1x4

	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
Room Cavity Ratio	0	1.02	1.02	1.02	1.0	1.0	1.0	.95	.95	.95		
1	.95	.91	.88	.93	.89	.87	.86	.83	.81			
2	.87	.81	.76	.85	.80	.75	.77	.73	.69			
3	.81	.73	.66	.79	.71	.65	.69	.64	.60			
4	.74	.65	.58	.72	.64	.57	.62	.56	.52			
5	.68	.57	.50	.66	.57	.50	.55	.49	.44			
6	.62	.52	.44	.61	.51	.44	.49	.43	.39			
7	.57	.46	.39	.56	.46	.39	.44	.38	.34			
8	.53	.42	.34	.52	.41	.34	.40	.34	.29			
9	.49	.37	.30	.47	.37	.30	.36	.30	.25			
10	.45	.34	.27	.44	.33	.27	.32	.26	.22			

Effective Floor Cavity Reflectance = .20

TEST REPORT INFORMATION

- ▶ Test Report #: 15488.0
- ▶ Date: 12/12/06
- ▶ Lamp Type: FP28T5
- ▶ Lamp Quantity: 2



ZONAL CAVITY COEFFICIENTS

	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
Room Cavity Ratio	0	1.06	1.06	1.06	1.04	1.04	1.04	.99	.99	.99		
1	.99	.95	.92	.96	.93	.90	.89	.87	.84			
2	.91	.84	.79	.89	.83	.78	.80	.76	.72			
3	.84	.75	.69	.82	.74	.68	.71	.66	.62			
4	.77	.67	.60	.75	.66	.59	.64	.58	.53			
5	.70	.60	.52	.69	.59	.52	.57	.51	.46			
6	.65	.53	.46	.63	.53	.45	.51	.45	.40			
7	.60	.48	.41	.58	.47	.40	.46	.40	.35			
8	.55	.43	.36	.54	.42	.35	.41	.35	.30			
9	.50	.39	.31	.49	.38	.31	.37	.31	.26			
10	.47	.35	.28	.46	.35	.28	.34	.27	.23			

Effective Floor Cavity Reflectance = .20

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1958	1958	1958	
5	1933	1934	1935	184.6
15	1925	1940	1957	549.9
25	1728	1769	1812	818.7
35	1431	1510	1583	947.2
45	1177	1317	1439	1016.1
55	778	951	1030	833.2
65	471	607	534	546.8
75	222	239	172	236.7
85	47	31	27	38.5
90	0	0	0	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1553	26.8	30.0
0 - 40	2500	43.1	48.3
0 - 60	4350	75.0	84.1
0 - 90	5172	89.2	100.0
Total Luminaire:			
0 - 180	5172	89.2	100.0

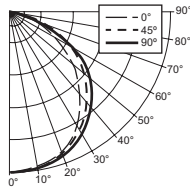
Total Luminaire Optical Efficiency: 89.2%
 Spacing Criteria: Across: 1.4
 Diagonal: 1.4
 End: 1.2

PHOTOMETRY – 2x2

Catalog #: HETG-AR22-224T5H-A

TEST REPORT INFORMATION

- ▶ Test Report #: 15489.0
- ▶ Date: 06/26/06
- ▶ Lamp Type: FP24T5H
- ▶ Lamp Quantity: 2



ZONAL CAVITY COEFFICIENTS

	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
Room Cavity Ratio	0	1.03	1.03	1.03	1.01	1.01	1.01	.96	.96	.96		
1	.96	.92	.89	.94	.90	.88	.87	.84	.82			
2	.88	.82	.77	.86	.81	.76	.78	.74	.70			
3	.81	.73	.67	.79	.72	.66	.69	.64	.60			
4	.75	.65	.58	.73	.64	.58	.62	.56	.52			
5	.68	.58	.50	.67	.57	.50	.55	.49	.44			
6	.63	.52	.44	.61	.51	.44	.49	.43	.39			
7	.58	.47	.39	.56	.46	.39	.45	.38	.34			
8	.53	.42	.34	.52	.41	.34	.40	.34	.29			
9	.49	.37	.30	.48	.37	.30	.36	.30	.25			
10	.45	.34	.27	.44	.33	.27	.33	.26	.22			

Effective Floor Cavity Reflectance = .20

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1238	1238	1238	
5	1240	1228	1236	117.7
15	1189	1190	1203	338.2
25	1091	1115	1139	515.7
35	931	990	1028	619.2
45	728	817	886	629.8
55	498	627	698	550.9
65	297	411	365	364.0
75	130	154	112	147.6
85	16	11	6	12.5
90	0	0	0	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	972	25.6	29.5
0 - 40	1591	41.9	48.3
0 - 60	2772	72.9	84.1
0 - 90	3296	86.7	100.0
Total Luminaire:			
0 - 180	3296	86.7	100.0

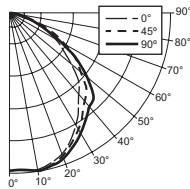
Total Luminaire Optical Efficiency: 86.7%
 Spacing Criteria: Across: 1.1
 Diagonal: 1.2
 End: 1.2

PHOTOMETRY – 1x4

Catalog #: HETG-AR14-154T5H-A

TEST REPORT INFORMATION

- ▶ Test Report #: 15486.0
- ▶ Date: 06/22/06
- ▶ Lamp Type: FP24T5H0
- ▶ Lamp Quantity: 1



ZONAL CAVITY COEFFICIENTS

	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
Room Cavity Ratio	0	1.02	1.02	1.02	1.0	1.0	1.0	.95	.95	.95		
1	.95	.91	.88	.93	.89	.87	.86	.83	.81			
2	.87	.81	.76	.85	.80	.75	.77	.73	.69			
3	.81	.73	.66	.79	.71	.65	.69	.64	.60			
4	.74	.65	.58	.72	.64	.57	.62	.56	.52			
5	.68	.57	.50	.66	.57	.50	.55	.49	.44			
6	.62	.52	.44	.61	.51	.44	.49	.43	.39			
7	.57	.46	.39	.56	.46	.39	.44	.38	.34			
8	.53	.42	.34	.52	.41	.34	.40	.34	.29			
9	.49	.37	.30	.47	.37	.30	.36	.30	.25			
10	.45	.34	.27	.44	.33	.27	.32	.26	.22			

Effective Floor Cavity Reflectance = .20

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1606	1606	1606	
5	1601	1601	1601	152.8
15	1583	1596	1608	452.2
25	1438	1472	1507	681.3
35	1211	1279	1341	802.1
45	987	1102	1200	849.5
55	668	805	831	695.9
65	405	489	398	440.1
75	189	182	126	183.4
85	40	20	16	27.3
90	0	0	0	

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1286	25.7	30.0
0 - 40	2088	41.8	48.7
0 - 60	3634	72.7	84.8
0 - 90	4285	85.7	100.0
Total Luminaire:			
0 - 180	4285	85.7	100.0

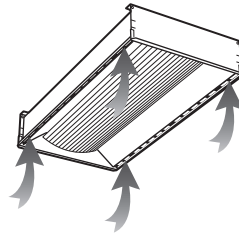
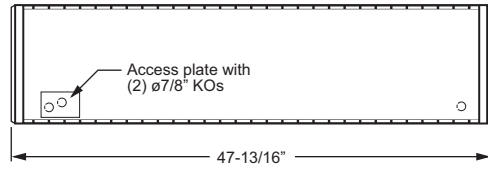
Total Luminaire Optical Efficiency: 85.7%
 Spacing Criteria: Across: 1.3
 Diagonal: 1.3
 End: 1.2

FIXTURE DETAIL

BACK VIEW

AIR RETURN

1x4



2x2 | 2x4

