

HIGH EFFICIENCY SURFACE MOUNT

HES

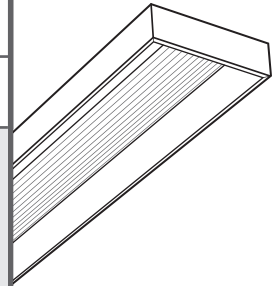
SUBMITTAL:

1x4

JOB:

TYPE:

VOLTAGE:



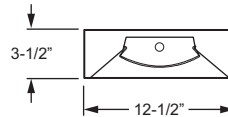
EXAMPLE

HES - 1 4 - 1 28T5S - A - OPTIONS - EB1 - UNV

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

FEATURES

- ▶ Up to **87.7% optical efficiency**.
- ▶ Attractive, energy-efficient architectural fixture that delivers comfortable, uniform lighting.
- ▶ Frosted acrylic diffusers combined with highly reflective matte white paint provide high optical efficiencies and visual comfort.
- ▶ Tool-less access to electrical from room side of fixture.
- ▶ Companion HET products available in Recessed Architectural and Williams Downlighting Recessed Fluorescent sections.
- ▶ This fixture is proudly made in the USA.



SPECIFICATIONS

Housing – 22-gauge die-formed C.R.S.
Shielding – Frosted, ribbed acrylic diffuser.
Finish – Textured matte white polyester TGIC 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, program start T5, rated Class P.
Mounting – Surface.
Labels – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.

ORDERING INFORMATION

SERIES

HES High-Efficiency Surface Mount

NOMINAL WIDTH

1 1'

NOMINAL LENGTH

4 4'

TOTAL LAMPS

1

LAMP WATTAGE/TYPE

28T5S 4', 28-watt T5
32 4', 32-watt T8
54T5H 4', 54-watt T5HO

SHIELDING

A Frosted, ribbed acrylic diffuser

OPTIONS

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

BALLAST TYPE

EB1 1-lamp electronic ballast
EBHW1 1-lamp high-wattage electronic ballast

VOLTAGE

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

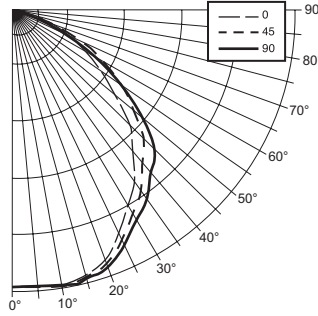
1x4

PHOTOMETRY INFORMATION

Catalog #: HES-14-128T5S-A

TEST REPORT INFORMATION

- ▶ Test Report #: 13151.1
- ▶ Date: 06/22/06
- ▶ Lamp Type: F28T5/835
- ▶ Lamp Quantity: 1



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0°	961.	961.	961.	
5°	966.	967.	969.	92.3
15°	957.	964.	971.	273.2
25°	871.	892.	911.	412.3
35°	740.	780.	816.	489.1
45°	583.	652.	706.	501.4
55°	390.	474.	477.	405.9
65°	236.	283.	224.	253.6
75°	108.	101.	67.	102.7
85°	22.	9.	6.	13.1
90°	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

	Ceiling			Wall			Floor		
	.80	.70	.50	.70	.50	.30	.70	.50	.30
0	1.04	1.04	1.04	1.02	1.02	1.02	.97	.97	.97
1	.97	.94	.90	.95	.92	.89	.88	.86	.83
2	.90	.83	.78	.87	.82	.77	.79	.75	.71
3	.83	.75	.68	.81	.73	.67	.71	.66	.62
4	.76	.67	.60	.74	.66	.59	.63	.58	.53
5	.70	.59	.52	.68	.58	.51	.56	.50	.46
6	.64	.53	.46	.63	.52	.45	.51	.45	.40
7	.59	.48	.40	.58	.47	.40	.46	.40	.35
8	.54	.43	.36	.53	.42	.35	.41	.35	.30
9	.50	.38	.31	.49	.38	.31	.37	.31	.26
10	.46	.35	.28	.45	.34	.28	.34	.27	.23

Effective Floor Cavity Reflectance = .20

LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	778.	26.8	30.6
0 - 40	1267.	43.7	49.8
0 - 60	2174.	75.0	85.5
0 - 90	2544.	87.7	100.0
Total Luminaire:			
0 - 180	2544.	87.7	100.0

Total Luminaire Optical Efficiency: **87.7%**
 IES Spacing Criteria: End = 1.2
 Diagonal = 1.3
 Across = 1.3

FIXTURE DETAILS

BACK VIEW

