

RECESSED DIRECT/INDIRECT

DI

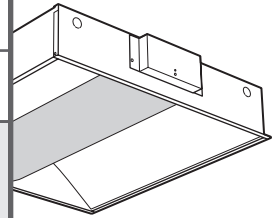
SUBMITTAL:

2x2

JOB:

TYPE:

VOLTAGE:



Shown with WPR

EXAMPLE

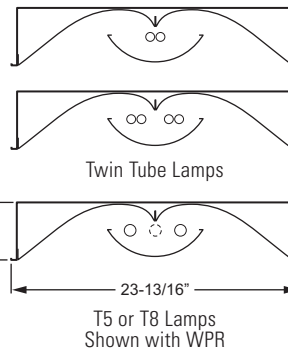
DI G - S 2 2 - 2 40TT - AD - OPTIONS - EB2 - UNV

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



FEATURES

- ▶ Acrylic diffuser option provides up to 81% fixture efficiency.
- ▶ Matte white overlay and highly reflective non-glare white powder coated reflectors and end plates provide soft, uniform illumination and increased efficiency.
- ▶ Lamps shielded from direct view by diffuser.
- ▶ Shallow housing depth.
- ▶ Steel lamp retaining clips standard—no plastic clip breakage.
- ▶ Ballast accessible from room side of fixture.
- ▶ Aesthetically pleasing slot grid option available.
- ▶ Ballast secured by two captive bolts and nuts to ensure a tight, reliable fit for maximum heat dissipation.
- ▶ Optional anti-microbial powder coating available to prevent the spread of dangerous micro-organisms and suppress the growth of mold and bacteria.
- ▶ This fixture is proudly made in the USA.



SPECIFICATIONS

Housing – 20-gauge die-formed C.R.S.
Reflector – Precision die-formed C.R.S. with highly reflective non-glare matte white polyester powder coated finish.
Shielding – Die-formed C.R.S., 50% open perforation, white polyester powder coated diffuser with matte white acrylic overlay.
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, rated Class P.

Lamp	Instant Start	Program Start
T5		•
T8	•	
40TT	•	
50TT		•
55TT		•

Mounting – NEMA Type “G” standard. NEMA Type “SS” available (earthquake clips included). For flange installations use the Drywall Kit (DFK), ordered separately, see Fluorescent Information section.
Labels – UL/CUL listed as recessed fluorescent luminaire suitable for dry or damp locations.

ORDERING INFORMATION

SERIES

DI Recessed Direct/Indirect

CEILING TYPE

G NEMA Type “G”
SG Screw slot NEMA Type “SS” (earthquake clips included)
 For flange installations use the Drywall Kit (DFK), ordered separately, see Fluorescent Information section.

FIXTURE STYLE

S Static, no air capability

NOMINAL WIDTH

2 2'

NOMINAL LENGTH

2 2'

TOTAL LAMPS

1, 2, or 3 (3 lamps in T5 or T8 only)

LAMP WATTAGE/TYPE

14T5S 2', 14-watt T5
17 2', 17-watt T8
24T5H 2', 24-watt T5HO
40TT 2', 40-watt long twin tube (1- or 2-lamp only)
50TT 2', 50-watt long twin tube (1- or 2-lamp only)
55TT 2', 55-watt long twin tube (1- or 2-lamp only)

SHIELDING

See back for shielding details.
WPR White perforated round
WP White perforated flat
AD Acrylic
WPRL White perforated with round louver
WPASL White perforated with aluminum solid louver
WPR/SLT/LW White slot-perforated lengthwise round
WPR/SPLIT White perforated round with split
WPR/ACRYL/CTR/CLR White perforated round with center clear acrylic (consult factory for additional colors)

OPTIONS

For generic EM ballast options (must specify voltage), see Fluorescent Information section.
AMW Anti-microbial white finish
DUSTCOVER Dust and debris cover (WPR only)
EQCLIPS Earthquake clips (4 per fixture)

BALLAST TYPE

EB1 1-lamp electronic ballast
EB2 2-lamp electronic ballast
EB3 3-lamp electronic ballast
EB2/1 (1) 2-lamp and (1) 1-lamp electronic ballast

VOLTAGE

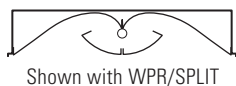
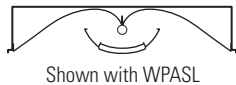
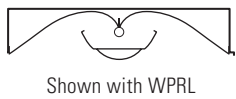
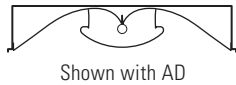
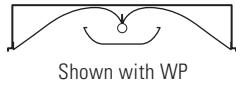
120 120V
277 277V
UNV 120-277V
347 347V

2x2

PHOTOMETRY – DI WITH WPR OPTION

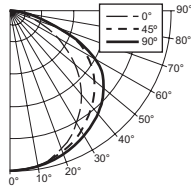
Catalog #: **DIG-S22-240TT-WPR**

SHIELDING OPTIONS



TEST REPORT INFORMATION

- ▶ Test Report #: 13831.0
- ▶ Date: 12/12/07
- ▶ Lamp Type: F40TT/2G11
- ▶ Lamp Quantity: 2



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1060.	16.8	26.3
0 - 40	1756.	27.9	43.5
0 - 60	3218.	51.1	79.8
0 - 90	4035.	64.1	100.0
Total Luminaire:			
0 - 180	4035.	64.1	100.0

Total Luminaire Optical Efficiency: **64.1%**
IES Spacing Criteria: End = 1.2, Diagonal = 1.3, Across = 1.4

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1344.	1344.	1344.	
5	1344.	1337.	1338.	127.7
15	1287.	1298.	1312.	367.9
25	1175.	1224.	1258.	564.2
35	1012.	1118.	1181.	696.0
45	808.	987.	1085.	749.8
55	574.	826.	936.	712.8
65	334.	613.	636.	548.7
75	141.	235.	253.	236.4
85	24.	29.	37.	31.8
90	0	0	0	

ZONAL CAVITY COEFFICIENTS

Room Cavity Ratio	Ceiling			Wall			Floor		
	.80	.70	.50	.80	.70	.50	.80	.70	.50
0	.76	.76	.76	.74	.74	.74	.71	.71	.71
1	.70	.68	.65	.69	.66	.64	.64	.62	.60
2	.64	.60	.55	.63	.58	.55	.56	.53	.50
3	.59	.53	.48	.58	.52	.47	.50	.46	.43
4	.54	.47	.41	.53	.46	.41	.44	.40	.36
5	.49	.41	.35	.48	.40	.35	.39	.34	.31
6	.45	.37	.31	.44	.36	.31	.35	.30	.26
7	.41	.33	.27	.40	.32	.27	.31	.26	.23
8	.38	.29	.24	.37	.29	.24	.28	.23	.20
9	.35	.26	.21	.34	.26	.21	.25	.20	.17
10	.32	.24	.19	.32	.23	.18	.23	.18	.15

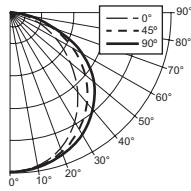
Effective Floor Cavity Reflectance = .20

PHOTOMETRY – DI WITH AD OPTION

Catalog #: **DIG-S22-240TT-AD**

TEST REPORT INFORMATION

- ▶ Test Report #: 14229.0
- ▶ Date: 08/05/08
- ▶ Lamp Type: F40TT/2G11
- ▶ Lamp Quantity: 2



LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixture
0 - 30	1422.	22.6	27.6
0 - 40	2333.	37.0	45.4
0 - 60	4128.	65.5	80.3
0 - 90	5143.	81.6	100.0
Total Luminaire:			
0 - 180	5143.	81.6	100.0

Total Luminaire Optical Efficiency: **81.6%**
IES Spacing Criteria: End = 1.2, Diagonal = 1.3, Across = 1.3

CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1813.	1813.	1813.	
5	1809.	1804.	1803.	172.3
15	1727.	1746.	1761.	494.9
25	1567.	1635.	1682.	754.5
35	1333.	1463.	1548.	911.8
45	1040.	1237.	1355.	944.1
55	733.	968.	1102.	850.2
65	466.	660.	757.	634.7
75	218.	327.	360.	327.4
85	35.	52.	55.	52.9
90	0.	0.	0.	

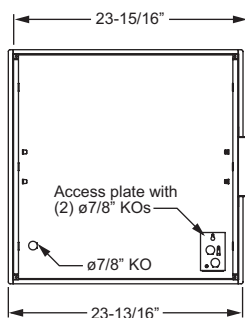
ZONAL CAVITY COEFFICIENTS

Room Cavity Ratio	Ceiling			Wall			Floor		
	.80	.70	.50	.80	.70	.50	.80	.70	.50
0	.97	.97	.97	.95	.95	.95	.91	.91	.91
1	.90	.86	.83	.88	.84	.81	.81	.79	.76
2	.82	.76	.71	.80	.74	.70	.72	.68	.64
3	.75	.67	.61	.73	.66	.60	.64	.59	.55
4	.69	.60	.53	.67	.59	.52	.57	.51	.47
5	.63	.53	.46	.61	.52	.45	.50	.44	.40
6	.58	.47	.40	.56	.47	.40	.45	.39	.35
7	.53	.42	.35	.52	.42	.35	.41	.34	.30
8	.49	.38	.31	.48	.37	.31	.36	.30	.26
9	.45	.34	.27	.44	.34	.27	.33	.27	.22
10	.42	.31	.24	.41	.30	.24	.30	.24	.20

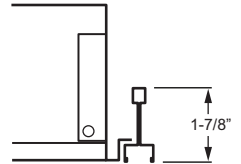
Effective Floor Cavity Reflectance = .20

FIXTURE DETAILS

BACKVIEW

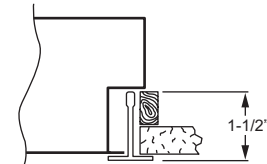


SLOT GRID (Williams' SG)



Screw Slot NEMA Type "SS"

DRYWALL KIT (DFK)



When using the DFK with Williams DI fixture, the structure surrounding the DFK at each end of fixture is to extend no more than 1-1/2" from the bottom of the "T" as shown.

DUSTCOVER OPTION

