

RECESSED DIRECT/INDIRECT LENSED

DIL

T5 | T8

CATALOG #:

TYPE:

PROJECT:

NOTES:

EXAMPLE

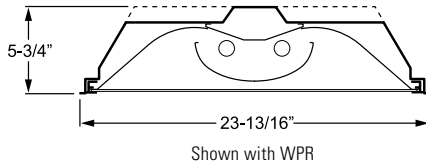
DIL G - S 2 4 - 2 32 - F AD - OPTIONS - EB2 - UNV

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



2x4 shown

CROSS SECTIONS



ORDERING INFORMATION

SERIES

DIL Recessed Direct/Indirect Lensed

CEILING TYPE

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

FIXTURE STYLE

S Full door frame, no reveal

NOMINAL WIDTH

2 2'
4 4'

NOMINAL LENGTH

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

TOTAL LAMPS

1, 2, or 3

LAMP WATTAGE/TYPE

2x2 LAMP OPTIONS

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 fixtures only)
50TT 2', 50-watt long twin tube (1- or 2-lamp fixtures only)
55TT 2', 55-watt long twin tube (1- or 2-lamp fixtures only)

1x4 or 2x4 LAMP OPTIONS

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

DOOR FRAME

F Flat aluminum

SHIELDING

See page 3 for shielding details.

WPR White perforated round
AD Acrylic
WP White perforated flat
WPR/SLT/LW White slot-perforated lengthwise round
WPR/SPLIT White perforated round with split
WPR/ACRY/CTR/CLR White perforated round with center clear acrylic (consult factory for additional colors)

OPTIONS

For generic EM ballast options (must specify voltage), see [Technical Info](#).

EQCLIPS Earthquake clips (4 per fixture)
DG Double gasket
TG Triple gasket (field installed)
AMW Anti-microbial white finish
CP Chicago Plenum (CCEA)

BALLAST TYPE

Additional ballast options available, see [Technical Info](#).

EB1 1-lamp electronic ballast
EB2 2-lamp electronic ballast
EB3 3-lamp electronic ballast

VOLTAGE

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

FEATURES

- ▶ Transparent lensed door provides a barrier between the room and the perforated diffuser to discourage vandals and minimize contaminants. Double or triple gasketing options available.
- ▶ Available with a variety of architectural diffuser options designed to complement the full DI Series, including the .125" frosted acrylic ribbed diffuser.
- ▶ Highly reflective white paint for increased efficiency.
- ▶ Fully enclosed spring-loaded cam latches allow years of hassle-free maintenance.
- ▶ T-slot steel hinge allows reversible hinging and latching and ensures positive retention when door is opened.
- ▶ 5-3/4" deep housing with raised ballast wireway.
- ▶ Deep reinforcement ribs provide added strength.
- ▶ Optional anti-microbial white finish available for use in healthcare applications.
- ▶ This fixture is proudly made in the USA.



SPECIFICATIONS

Housing – 22-gauge die-formed C.R.S.
Door Frame & Lens – Transparent acrylic lens, .118" 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.
Shielding – Die-formed C.R.S., 50% open perforation, white powder coated round diffuser with matte white acrylic overlay.
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 or 40TT) or program start (T5, 50TT, or 55TT), 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.

LUMEN SUMMARY

WPR 2x4

Zone	Lumens	% Lamp	% Fixture
0 - 30	1135.	19.2	29.6
0 - 40	1845.	31.3	48.1
0 - 60	3198.	54.2	83.3
0 - 90	3838.	65.1	100.0

Total Luminaire:			
0 - 180	3838.	65.1	100.0
Total Luminaire Optical Efficiency: 65.1% IES Spacing Criteria: End = 1.2, Diag. = 1.3, Across = 1.3			

AD 2x4

Zone	Lumens	% Lamp	% Fixture
0 - 30	1513.	25.6	29.4
0 - 40	2473.	41.9	48.1
0 - 60	4271.	72.4	83.1
0 - 90	5141.	87.1	100.0

Total Luminaire:			
0 - 180	5141.	87.1	100.0
Total Luminaire Optical Efficiency: 87.1% IES Spacing Criteria: End = 1.2, Diag. = 1.3, Across = 1.3			

WPR 2x2

Zone	Lumens	% Lamp	% Fixture
0 - 30	1047.	16.6	29.2
0 - 40	1712.	27.2	47.8
0 - 60	3011.	47.8	84.1
0 - 90	3582.	56.9	100.0

Total Luminaire:			
0 - 180	3582.	56.9	100.0
Total Luminaire Optical Efficiency: 56.9% IES Spacing Criteria: End = 1.2, Diag. = 1.3, Across = 1.3			

AD 2x2

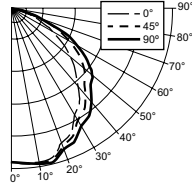
Zone	Lumens	% Lamp	% Fixture
0 - 30	921.	21.9	30.2
0 - 40	1501.	35.7	49.2
0 - 60	2583.	61.5	84.6
0 - 90	3054.	72.7	100.0

Total Luminaire:			
0 - 180	3054.	72.7	100.0
Total Luminaire Optical Efficiency: 72.7% IES Spacing Criteria: End = 1.2, Diag. = 1.2, Across = 1.3			

PHOTOMETRY – WPR 2x4

TEST REPORT INFORMATION

- ▶ Test Report #: 14039.0
- ▶ Date: 04/21/08
- ▶ Lamp Type: F32T8/835/RS
- ▶ Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1395.	1395.	1395.	
5	1404.	1406.	1406.	134.3
15	1406.	1420.	1437.	402.8
25	1254.	1291.	1331.	598.0
35	1057.	1130.	1202.	709.8
45	817.	926.	1003.	708.8
55	568.	736.	833.	644.7
65	324.	481.	535.	454.7
75	123.	152.	170.	166.2
85	16.	18.	20.	18.8
90	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

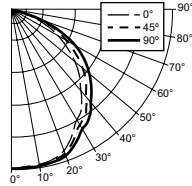
	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
Room Cavity Ratio	0	.77	.77	.77	.76	.76	.76	.72	.72	.72		
	1	.72	.69	.67	.70	.68	.66	.65	.63	.62		
	2	.66	.61	.58	.65	.60	.57	.58	.55	.52		
	3	.61	.55	.50	.59	.54	.49	.52	.48	.45		
	4	.56	.49	.44	.55	.48	.43	.46	.42	.39		
	5	.51	.43	.38	.50	.42	.37	.41	.37	.33		
	6	.47	.39	.33	.46	.38	.33	.37	.32	.29		
	7	.43	.35	.29	.42	.34	.29	.33	.29	.25		
	8	.40	.31	.26	.39	.31	.26	.30	.25	.22		
	9	.37	.28	.23	.36	.28	.23	.27	.22	.19		
10	.34	.25	.20	.33	.25	.20	.24	.20	.17			

Effective Floor Cavity Reflectance = .20

PHOTOMETRY – AD 2x4

TEST REPORT INFORMATION

- ▶ Test Report #: 14254.0
- ▶ Date: 08/12/08
- ▶ Lamp Type: F32T8/835/RS
- ▶ Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1897.	1897.	1897.	
5	1892.	1898.	1900.	181.1
15	1856.	1874.	1892.	531.1
25	1684.	1731.	1779.	801.2
35	1447.	1530.	1604.	959.7
45	1124.	1241.	1336.	958.8
55	813.	939.	1046.	839.2
65	490.	596.	692.	591.8
75	203.	240.	250.	249.5
85	22.	28.	28.	28.6
90	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

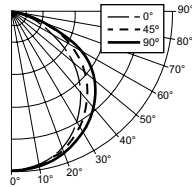
	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
Room Cavity Ratio	0	1.04	1.04	1.04	1.01	1.01	1.01	.97	.97	.97		
	1	.96	.93	.89	.94	.91	.88	.87	.85	.82		
	2	.89	.82	.77	.86	.81	.76	.78	.74	.70		
	3	.81	.73	.67	.79	.72	.66	.69	.64	.60		
	4	.75	.65	.58	.73	.64	.58	.62	.56	.52		
	5	.68	.58	.50	.67	.57	.50	.55	.49	.44		
	6	.63	.52	.44	.61	.51	.44	.49	.43	.38		
	7	.58	.47	.39	.57	.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	.46	.34	.27	.44	.34	.27	.33	.27	.22			

Effective Floor Cavity Reflectance = .20

PHOTOMETRY – WPR 2x2

TEST REPORT INFORMATION

- ▶ Test Report #: 14038.0
- ▶ Date: 04/21/08
- ▶ Lamp Type: FT40W/2G11/835
- ▶ Lamp Quantity: 2



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1346.	1346.	1346.	
5	1345.	1333.	1341.	127.8
15	1279.	1286.	1304.	365.3
25	1166.	1197.	1230.	553.6
35	996.	1060.	1127.	665.7
45	779.	888.	988.	687.6
55	535.	693.	805.	611.0
65	294.	446.	503.	422.5
75	98.	133.	152.	141.0
85	5.	7.	8.	7.2
90	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

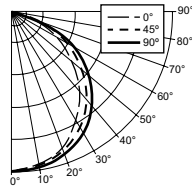
	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
Room Cavity Ratio	0	.68	.68	.68	.66	.66	.66	.63	.63	.63		
	1	.63	.61	.59	.61	.59	.57	.57	.55	.54		
	2	.58	.54	.51	.57	.53	.50	.51	.48	.46		
	3	.53	.48	.44	.52	.47	.43	.46	.42	.40		
	4	.49	.43	.38	.48	.42	.38	.41	.37	.34		
	5	.45	.38	.33	.44	.37	.33	.36	.32	.29		
	6	.41	.34	.29	.40	.33	.29	.32	.28	.25		
	7	.38	.30	.26	.37	.30	.25	.29	.25	.22		
	8	.35	.27	.22	.34	.27	.22	.26	.22	.19		
	9	.32	.24	.20	.31	.24	.20	.23	.19	.16		
10	.30	.22	.18	.29	.22	.18	.21	.17	.15			

Effective Floor Cavity Reflectance = .20

PHOTOMETRY – AD 2x2

TEST REPORT INFORMATION

- ▶ Test Report #: 14230.0
- ▶ Date: 08/06/08
- ▶ Lamp Type: F17WT8/835/RS
- ▶ Lamp Quantity: 3



CANDLEPOWER DISTRIBUTION

Vertical Angle	Horizontal Angle			Zonal Lumens
	0°	45°	90°	
0	1185.	1185.	1185.	
5	1180.	1178.	1179.	112.5
15	1124.	1137.	1148.	322.2
25	1015.	1052.	1086.	486.6
35	857.	926.	978.	579.9
45	670.	760.	825.	583.6
55	465.	562.	633.	498.1
65	265.	344.	404.	338.4
75	90.	120.	133.	125.0
85	6.	7.	8.	7.6
90	0.	0.	0.	

ZONAL CAVITY COEFFICIENTS

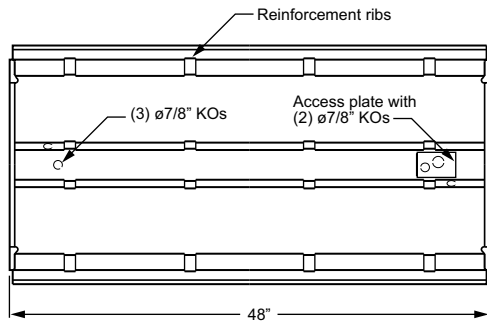
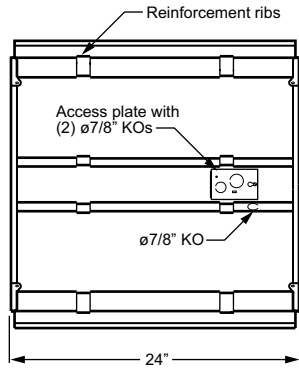
	Ceiling			.80			.70			.50		
	Wall	.70	.50	.30	.70	.50	.30	.50	.30	.10		
Room Cavity Ratio	0	.87	.87	.87	.85	.85	.85	.81	.81	.81		
	1	.81	.78	.75	.79	.76	.74	.73	.71	.69		
	2	.74	.69	.65	.72	.68	.64	.65	.62	.59		
	3	.68	.62	.56	.67	.61	.56	.58	.54	.51		
	4	.63	.55	.49	.61	.54	.49	.52	.48	.44		
	5	.58	.49	.43	.56	.48	.42	.46	.41	.38		
	6	.53	.44	.38	.52	.43	.37	.42	.37	.33		
	7	.49	.39	.33	.48	.39	.33	.38	.32	.29		
	8	.45	.35	.29	.44	.35	.29	.34	.29	.25		
	9	.41	.32	.26	.40	.31	.26	.30	.25	.22		
10	.38	.29	.23	.37	.28	.23	.28	.23	.19			

Effective Floor Cavity Reflectance = .20



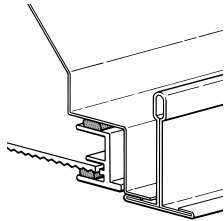
FIXTURE DETAILS

BACKVIEW



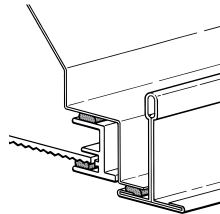
GASKETING DETAILS

DOUBLE GASKETING (DG)



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

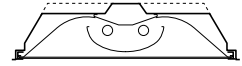
TRIPLE GASKETING (TG)



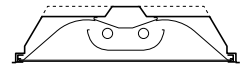
Gasketing is factory-installed continuously between door frame and luminaire housing; and between door frame and lens. Gasketing between bottom perimeter of unit (adjacent to T-bar or hardpan ceiling) is provided by factory and field installed.

SHIELDING OPTIONS

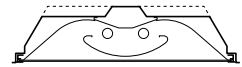
WPR or WRP/SLT/LW



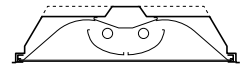
WP



AD



WPR/SPLIT



WPR/ACRY/CTR/CLR

