

**2 or 4 Lamp  
T5, T5HO, or T8  
Recessed Direct/Indirect**

**APPLICATION**

- Economical architectural recessed direct/indirect lighting for glare free illumination.
- Suitable for grid inverted T (NEMA "G") ceilings. Flange type ceilings (NEMA "F") require independently mounted flange kits (FMA).
- Screw slot (NEMA "SS") ceiling models are designed to position the bottom of the luminaire at the ceiling plane.
- Fully recessed mounting, suitable for row mounting.

**CONSTRUCTION/FINISH**

- Three piece housing with screws to attach the end plates.
- Soft white baked enamel finish.
- Easy ballast access through lamp compartment.
- Grid clips included.

**ELECTRICAL**

- Class P, HPF ballasts comply with ©Federal Ballast Law (Public Law 100-357, 1988).
- UL listed for damp locations. C.S.A. certified optional.
- Self-contained fluorescent emergency power pack can be incorporated.

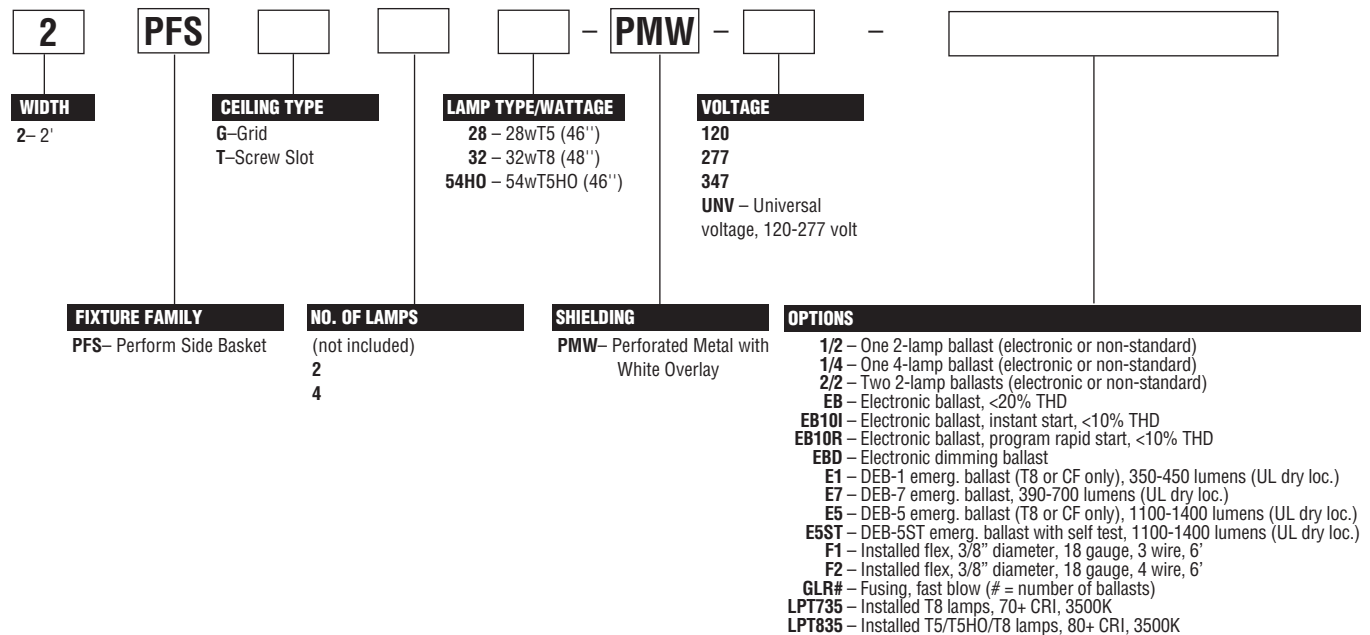
**ENCLOSURES**

- Side mounted micro-perforated mesh lamp shields provide soft awareness of light source.
- Soft white overlay on inside of micro-perforated mesh conceals lamp image and balances between reflected and direct light.
- Swing down lamp shields for easy relamping.

**ACCESSORIES**

- **FMA24** – 2' x 4' "F" mounting frame for NEMA "F" mounting.

**CATALOG NUMBER**

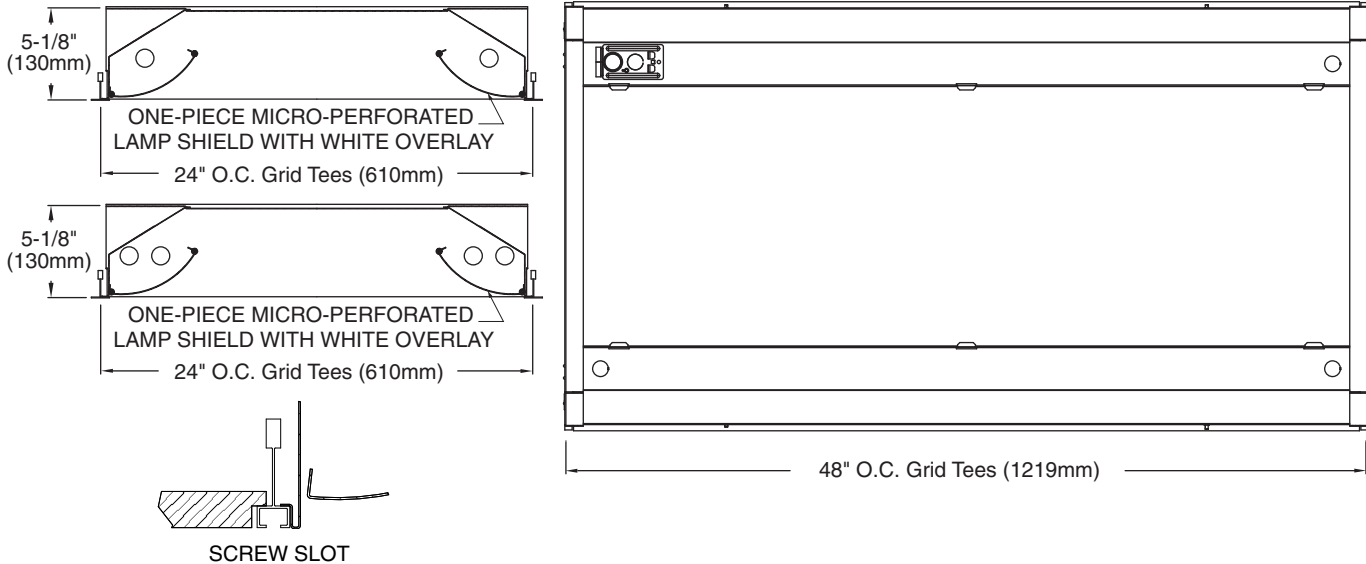


Job pack stretch wrapped w/out cartons - see sheet 1603-OA.  
See section 1600-OA for ballast, lamp, and option information.

# perform 2' x 4' SIDE BASKET



## DIMENSIONS



## PHOTOMETRIC DATA

CATALOG # 2PFSG232-PMW-1/2-EB  
TEST #26753 S/MH= 1.3

LAMPS = F32T8  
BALLAST = ELECTRONIC

INPUT WATTS = 60  
BALLAST FACTOR = .88

LER = 54

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.44 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 64.7%

CANDLEPOWER				
Angle	End	45	Cross	
0	1177	1177	1177	
5	1180	1172	1168	
10	1161	1155	1150	
15	1136	1125	1118	
20	1092	1080	1082	
25	1042	1030	1041	
30	979	972	996	
35	908	913	949	
40	830	850	903	
45	742	790	859	
50	652	718	809	
55	552	652	762	
60	458	587	720	
65	363	525	681	
70	284	464	634	
75	204	398	541	
80	129	282	324	
85	55	74	85	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*						
<ul style="list-style-type: none"> <li>80-50-20 Reflectances (Ceiling-Wall-Floor)</li> <li>LLF = 0.75 2850 Lumens/Lamp very clean</li> <li>Room width divided by room height = 5 or more, 2 or 1</li> </ul>						
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
2' X 4'	5	-	95	57	41	-
Side Basket	2	-	62	37	-	-
2 Lamp T8	1	135	45	-	-	-

\*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS				
ANGLE	END	45°	CROSS	
45	1412	1503	1635	
55	1295	1529	1787	
65	1156	1671	2168	
75	1061	2069	2812	
85	849	1142	1312	

Room Size	TYPICAL V.C.P.'s Mounting Height		
	Lengthwise	Crosswise	
	8.5	10	10
30x30	57	64	46
40x40	54	58	45
60x30	58	62	51
60x60	54	55	46
100x100	56	56	50

COEFFICIENT OF UTILIZATION							
pfc	pcc	20			50		
		70	50	30	70	50	
pw	RCR	0	77	77	77	75	75
		1	69	66	63	68	65
2	63	56	52	60	56	51	
3	56	50	44	55	47	42	
4	52	44	38	50	42	36	
5	47	39	33	46	38	32	
6	44	34	28	42	34	28	
7	40	32	26	39	30	25	
8	38	28	23	36	28	23	
9	34	26	20	34	26	20	
10	33	23	19	32	23	19	

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	906	15.9	24.6
0-40	1482	26.0	40.2
0-60	2676	47.0	72.6
0-90	3687	64.7	100.0

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90  
LLD = 0.91 @ 40% RATED LAMP LIFE BF = .88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

## PHOTOMETRIC DATA

CATALOG # 2PFSG432-PMW-1/4-EB  
TEST #26758 S/MH= 1.2

LAMPS = F32T8  
BALLAST = ELECTRONIC

INPUT WATTS = 108  
BALLAST FACTOR = .88

LER = 53

COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$4.53 BASED ON 3000 HRS. AND \$.08 PER KWH.

FIXTURE EFFICIENCY= 56.6%

CANDLEPOWER				
Angle	End	45	Cross	
0	2090	2090	2090	
5	2094	2076	2073	
10	2060	2045	2037	
15	2003	1987	1980	
20	1934	1908	1906	
25	1844	1811	1831	
30	1734	1713	1751	
35	1610	1601	1666	
40	1468	1492	1580	
45	1313	1378	1500	
50	1147	1253	1414	
55	978	1137	1330	
60	805	1024	1254	
65	640	915	1182	
70	497	806	1091	
75	354	686	917	
80	219	483	538	
85	92	124	156	

MAINTAINED ILLUMINATION TABLE- Square Feet/Fixture*						
<ul style="list-style-type: none"> <li>80-50-20 Reflectances (Ceiling-Wall-Floor)</li> <li>LLF = 0.75 2850 Lumens/Lamp very clean</li> <li>Room width divided by room height = 5 or more, 2 or 1</li> </ul>						
Fixture Size & # of Lamps	Room Width Room Height =	Approx. Area (sq. ft.) per Fixture				
		10 ft-c	30 ft-c	50 ft-c	70 ft-c	100 ft-c
2' X 4'	5	-	-	99	71	50
Side Basket	2	-	109	66	47	33
4 Lamp T8	1	-	79	48	34	-

\*Observe Fixture S/MH Requirements for Specific Applications

AVERAGE LUMINANCE CD/SQ.M WITH 2850 LUMEN LAMPS				
ANGLE	END	45°	CROSS	
45	2498	2622	2854	
55	2294	2667	3120	
65	2038	2913	3763	
75	1840	3566	4767	
85	1420	1914	2408	

Room Size	TYPICAL V.C.P.'s Mounting Height		
	Lengthwise	Crosswise	
	8.5	10	10
30x30	45	51	35
40x40	42	45	33
60x30	45	50	39
60x60	41	42	34
100x100	44	43	37

COEFFICIENT OF UTILIZATION						
pfc	pcc	20			50	
		70	50	30	70	50
pw	RCR	0	67	67	66	66
		1	60	57	55	58
2	55	50	46	53	48	
3	50	42	38	47	41	
4	45	38	33	44	36	
5	41	34	28	40	33	
6	38	30	25	36	29	
7	35	28	23	34	27	
8	33	25	20	32	25	
9	30	23	17	29	22	
10	28	20	17	28	20	

LIGHT DISTRIBUTION			
DEGREES	LUMENS	% LAMP	% FIXTURE
0-30	1600	14.0	24.8
0-40	2614	22.9	40.5
0-60	4703	41.3	72.9
0-90	6448	56.6	100.0

LLF = .75 LLF = LIGHT LOSS FACTOR LLF = LDD X LLD X BF LDD = VERY CLEAN 0.94 CLEAN 0.90  
LLD = 0.91 @ 40% RATED LAMP LIFE BF = .88 ELECTRONIC BALLAST & T8 LAMP (RELAMP AT 70% LAMP LIFE)

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