

FEATURES

- Full distribution optics from a louvered fixture
- Euro style ribbed louver with architectural styling
- Typically qualifies for EPAAct tax deduction
- Integral hinges and latches on louver provide a clean finish
- Mechanical light seal
- Rolled fixture edges for safe handling during fixture handling and installation
- Corner hinging for easy insertion and removal of louver from either side
- Housing ends secured by unique corner interlock and screws

PROJECT INFORMATION

Project Name _____

Type _____

Catalog No. _____

Date _____

HOUSING

Heavy gauge steel. Die formed for extra rigidity. Grid housings are designed for installation in standard 15/16" T-Bar ceilings. Two T-Bar clips included with each fixture. Flanged housings for hard ceilings feature overlap flange trim and wing hangers.

BALLASTS

Electronic, energy efficient, thermally protected, automatic resetting, Class P, high power factor, sound rated A, unless otherwise specified.

FINISH

Housing is powder coat paint after fabrication (PAF), 90% reflectance. Reflectors painted after fabrication with high reflectivity white polyester enamel.

LOUVER

Steel frame with aluminum cross blades. Integral hinges and latches. Matte white, painted after fabrication.

CERTIFICATION

All luminaires are built to UL 1598 standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard. Emergency-equipped fixtures labeled UL 924.

ORDERING INFORMATION

EXAMPLE EMI22-214G-EPU

EMI		22		-		2		G		-		-	
MODEL	NO. OF LAMPS	SIZE	LAMP TYPE	CEILING TYPE	BALLAST	VOLTAGE	OPTIONS						
EMI EnergyMax® Intersect ¹	2 Two	22 2' x 2' ²	14 2', T5: 14 Watt 17 2', T8: 17 Watt 24 2', T5HO: 24 Watt 31U1 U-Bent, 1 5/8" Leg Spacing, T8: 31 Watt 40TT Twin Tube Compact, 2G11 Base: 40 Watt	G Grid For hard ceilings use flange kit.	E Electronic T8, 0.88 Ballast Factor, Instant Start ESD Electronic T8, 0.88 Ballast Factor, Step Dimming, Programmed Start ELW Electronic T8, 0.77 Ballast Factor, Low Wattage, Instant Start EHL Electronic T8, 1.18 Ballast Factor, High Wattage, Instant Start NEMA E104 Electronic T8, 1.04 Ballast Factor, Instant Start ¹ NEMA ESD104 Electronic T8, 1.04 Ballast Factor, Step Dimming, Programmed Start ¹ EP95 Electronic T5, 0.95 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp) ESD95 Electronic T5, 0.95 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp) EP115 Electronic T5, 1.15 Ballast Factor, Programmed Start (N/A T5HO, 1-Lamp) ESD115 Electronic T5, 1.15 Ballast Factor, Step Dimming, Programmed Start (N/A T5HO, 1-Lamp) ETT Electronic Twin Tube, Instant Start (specify voltage) EPTT Electronic Twin Tube, Programmed Start	U 120V-277V 347 347V ²	F0830 30K 82CRI T8 Lamps Installed F0835 35K 82CRI T8 Lamps Installed F0841 41K 82CRI T8 Lamps Installed F5835 35K 85CRI T5 or T5HO Lamps Installed GLR Fast Blow Fuse GMF Slow Blow Fuse EL Emergency Battery Pack ³ C388 3-Wire Flex C488 4-Wire Flex NYC NYC Compliant NYCU NYC Compliant, Union Label						
LOUVER CONFIGURATION													
Size	No. of Lamps	Lamp Type	Louver Configurations										
2' x 2'	2	14, 17, 24, 31U1, 40TT	2 x 3 (6)										
ACCESSORIES													
FK22 2' x 2' Single Flange Kit													
FKCR Flange Kit Row Adaptor													

¹ For EnergyMax® Intersect™ Plus, order "PlusXX" lamps under "Options."

² Where available.

³ DL not available for all EL ballast combinations, contact factory.

⁴ 2' x 2' models not suitable for continuous row mount applications.

PHOTOMETRIC DATA

LUMINAIRE DATA

Luminaire	EMI22-214G-EU EnergyMax® Intersect Recessed/ Architectural 2' x 2' 2-Lamp with 2 x 3 cell matte white ribbed louver
Ballast	B228PUNV-C
Ballast Factor	1.00
Lamp	F14T5
Lumens per Lamp	1350
Watts	34
Mounting	Recessed
Shielding Angle	0° = 15 90° = 20
Spacing Criterion	0° = 1.18 90° = 1.42
Luminous Opening in Feet	Length: 1.81 Width: 1.80 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

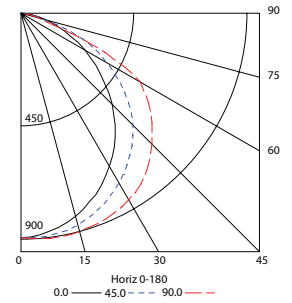
	0.0	22.5	45.0	67.5	90.0
0	2944	2944	2944	2944	2944
30	2682	2789	2968	3144	3266
40	2506	2661	2954	3226	3390
45	2388	2565	2930	3224	3430
50	2241	2452	2858	3228	3490
55	2091	2304	2753	3231	3560
60	1929	2148	2617	3192	3601
65	1720	1900	2423	2728	2877
70	1517	1594	1980	1488	1333
75	1302	1264	1238	957	894
80	1180	1123	1027	761	685
85	1061	910	910	569	493

COEFFICIENTS OF UTILIZATION (%)

RC	80					70					50					0				
	RW	70	50	30	10	70	50	30	10	50	30	10	0	70	50	30	10	0		
1	101	97	93	90	99	99	95	92	89	91	88	86	79							
2	92	85	79	74	90	83	78	73	80	76	72	66								
3	84	75	68	62	82	74	67	61	71	65	60	56								
4	77	67	59	53	75	65	58	52	63	57	52	48								
5	71	59	51	45	69	58	51	45	56	50	45	42								
6	66	54	45	40	64	53	45	39	51	44	39	36								
7	61	48	40	35	59	48	40	35	46	39	34	32								
8	57	44	36	31	55	44	36	31	42	36	31	29								
9	53	41	33	28	52	40	33	28	39	32	28	26								
10	50	37	30	25	48	37	30	25	36	30	25	23								

Test 14795 Test Date 11/10/07

INDOOR CANDELA PLOT



RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	92.4%
Luminaire Efficacy Rating (LER)	73
IESNA RP-1-2004 Compliance	Non-Compliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.29 based on 3000 hrs. and \$0.08 per KWH

ZONAL LUMEN SUMMARY

Zone	Lumens	Lamp	Fixt.
0-30	706	26.1	28.3
0-40	1166	43.2	46.7
0-60	2077	76.9	83.2
0-90	2494	92.4	100.0
0-180	2494	92.4	100.0

LUMINAIRE DATA

Luminaire	EMI22-217G-E104U EnergyMax® Intersect Recessed/ Architectural 2' x 2' 2-Lamp with 2 x 3 cell matte white louver
Ballast	B232PUNV104-A
Ballast Factor	1.07
Lamp	F17T8
Lumens per Lamp	1375
Watts	36
Mounting	Recessed
Shielding Angle	0° = 15 90° = 20
Spacing Criterion	0° = 1.16 90° = 1.46
Luminous Opening in Feet	Length: 1.81 Width: 1.80 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

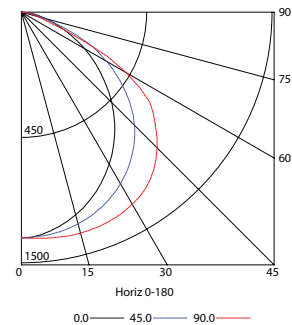
	0.0	22.5	45.0	67.5	90.0
0	2676	2676	2676	2676	2676
30	2403	2518	2712	2911	3037
40	2247	2415	2708	2997	3187
45	2145	2341	2682	2990	3219
50	2015	2241	2616	2961	3223
55	1884	2114	2506	2897	3243
60	1731	1962	2333	2630	2874
65	1540	1736	2079	1954	1970
70	1343	1420	1536	1101	1043
75	1149	1136	1034	817	753
80	1046	1008	894	666	571
85	910	872	796	493	417

COEFFICIENTS OF UTILIZATION (%)

RC	80					70					50					0				
	RW	70	50	30	10	70	50	30	10	50	30	10	0	70	50	30	10	0		
1	89	86	83	80	87	84	81	78	81	78	76	70								
2	82	75	70	66	80	74	69	65	71	67	64	59								
3	75	67	60	55	73	65	59	55	63	58	54	50								
4	68	59	52	47	67	58	52	47	56	50	46	43								
5	63	53	46	40	61	52	45	40	50	44	40	37								
6	58	48	40	35	57	47	40	35	45	39	35	33								
7	54	43	36	31	53	42	36	31	41	35	31	29								
8	50	39	32	28	49	39	32	28	38	32	27	26								
9	47	36	29	25	46	36	29	25	35	29	25	23								
10	44	33	27	23	43	33	27	23	32	26	22	21								

Test 14787 Test Date 10/25/07

INDOOR CANDELA PLOT



RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

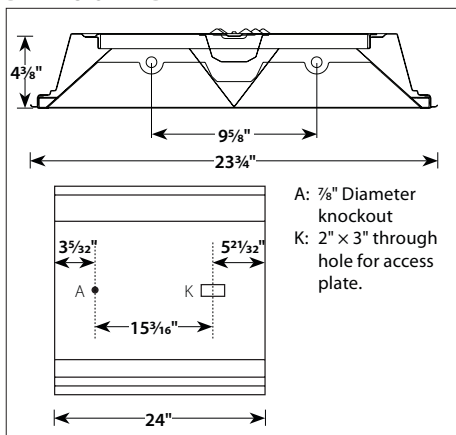
ENERGY DATA

Total Luminaire Efficiency	81.4%
Luminaire Efficacy Rating (LER)	67
IESNA RP-1-2004 Compliance	Yes-VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.58 based on 3000 hrs. and \$0.08 per KWH

ZONAL LUMEN SUMMARY

Zone	Lumens	Lamp	Fixt.
0-30	642	23.4	28.7
0-40	1064	38.7	47.5
0-60	1893	68.8	84.5
0-90	2240	81.4	100.0
0-180	2240	81.4	100.0

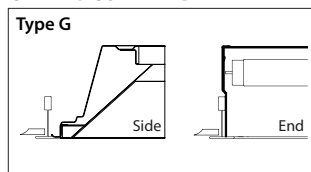
DIMENSIONAL DATA



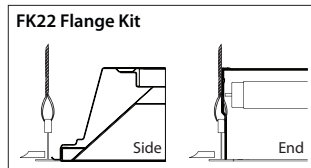
A: 3/8" Diameter knockout
K: 2" x 3" through hole for access plate.

NOTE: All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

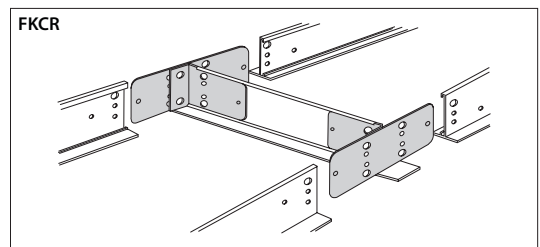
CEILING COMPATIBILITY



For lay-in installation in exposed grid ceilings. Maximum tee widths of 1" and maximum tee heights of 2" allowed.



For hard ceiling applications, order FK22 flange kit. Flange kit wires directly into concealed ceiling opening for a clean, finished appearance.



For flanged fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK22 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK22 & (1) FKCR)

Row cut out dimensions using FK22s & FKCR adapters: Width 24 3/8", Length [24" x (# in row)] + 3/8". Example: (24" x 2) + 3/8" = 48 3/8"

Flange kit cut out dimension for single unit only: 24" x 24 7/8"
2' x 2' models not suitable for continuous row mount applications.