

**FEATURES**

- t Unique aesthetic combines dedicated louvers with seamless perforated face
- t Excellent glare control for spaces where computers are in use; RP-1 compliant
- t 2½" deep, ultra-shallow housing frees up plenum space, fits into tight areas, and is easy to handle and install
- t Precise batwing distribution is ideal for 8' x 8' or 8' x 10' spacings
- t Wall wash (1WW) option lights walls to eliminate cave effect
- t Double wall wash (2WW) option for corridors, small offices, or conference rooms
- t T5 or T5HO technology offers an exceptional lumen package
- t Dedicated louvers create an optical envelope to provide maximum contribution from each lamp

**PROJECT INFORMATION**

Project Name \_\_\_\_\_

Type \_\_\_\_\_

Catalog No. \_\_\_\_\_

Date \_\_\_\_\_

**CONSTRUCTION**

Luminaire face plate, housing and end caps are die formed code gauge cold rolled steel. Anodized aluminum louvers provide excellent glare control. Louvers snap securely into position without tools. Louver safety tethers secure louvers for easy maintenance.

**CEILING COMPATIBILITY**

Luminaire is available to fit most standard ceiling types. NEC-compliant T-bar clips supplied with all grid trim fixtures. See ceiling details on reverse. For hard ceilings order G trim and FK flange accessory. Contact your Columbia representative for compatibility information for specific ceiling types.

**FINISH**

Painted parts are treated with a three stage phosphate bonding process and finished with a high reflectance baked white enamel.

**SURFACE OR PENDANT MOUNT**

Companion surface/pendant mount units match performance and aesthetics of recessed models.

**INSTALLATION**

An access plate is furnished with each luminaire for fast wiring access from the plenum. No need to open fixture. Product ships standard with mylar dust cover to eliminate job site contamination.

**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.

**ELECTRICAL**

Standard class P, thermally protected, auto-resetting HPF ballast, sound rated A. All ballast leads extend a minimum of 6" through access location. NEC/CEC-compliant ballast disconnect is standard.

**ORDERING INFORMATION**

EXAMPLE BR24-228G-MAMPO-EPU-F5835

MODEL	NO. OF LAMPS	CEILING TYPE	PERFORATED FACE	VOLTAGE	OPTIONS
BR Brio® T5 Low Glare	2 Two	G Grid SG Slot Grid SM Surface Mount	MPO Metal Perf w/Overlay ST Solid (No Perf)	U 120V-277V 347 347V	F5830 30K 85CRI T5 or T5HO Lamps Installed F5835 35K 85CRI T5 or T5HO Lamps Installed F5841 41K 85CRI T5 or T5HO Lamps Installed
SIZE	LAMP TYPE	LOUVER FINISH	BALLAST		1WW Asymmetric Wall Wash 2WW Double Wall Wash C388 3-Wire Flex C488 4-Wire Flex EL5 Emergency Battery Pack GLR Fast Blow Fuse GMF Slow Blow Fuse PAF Paint After Fabrication NYC NYC Compliant NYCU NYC Compliant, Union Label
24 2' x 4'	28 4', T5: 28 Watt 54 4', T5HO: 54 or 51 Watt	LS Low Iridescent Specular MA Matte Anodized Low Iridescent Semi-Specular Aluminum M4R 95% Reflective Specular Aluminum MW Matte White	EP Electronic, Programmed Start		
<b>ACCESSORIES (ORDER SEPARATELY)</b>					
FK24 2' x 4' Single Flange Kit					

## PHOTOMETRIC DATA

Test 12839 Test Date 6/10/03

### LUMINAIRE DATA

Luminaire	BR24-254G-LSMPO-EPU-PAF BRIO Parabolic 2' x 4' 2-Lamp with (2) 24 Cell Specular Louvers
Ballast	QT2X54/120PHO
Ballast Factor	1.00
Lamp	F54T5
Lumens per Lamp	4400
Watts	120
Shielding Angle	N/A
Spacing Criterion	0° = 1.19 90° = 1.54
Luminous Opening in Feet	Length: 3.82 Width: 1.61 Height: 0.00

### ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	2480	28.2	39.1
0-40	4255	48.4	67.1
0-60	6282	71.4	99.0
0-90	6343	72.1	100.0
0-180	6343	72.1	100.0

### ENERGY DATA

Total Luminaire Efficiency	72.1%
Luminaire Efficacy Rating (LER)	53
IESNA RP-1-1993 Compliance	Yes - Maximum
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$4.53 based on 3000 hrs. and \$0.08 per KWH

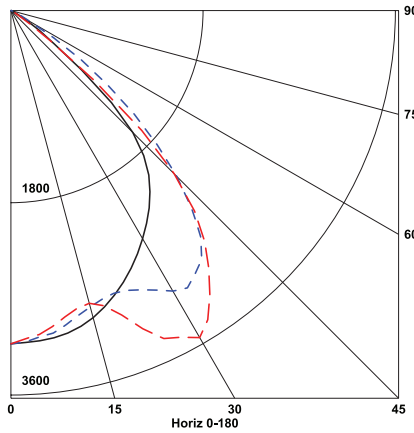
### COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80			70			50			0	
		70	50	30	70	50	30	10	50	30	10	0
1	81	78	76	74	79	77	75	73	74	72	71	65
2	75	71	67	64	74	70	67	64	67	65	62	58
3	70	64	60	56	69	63	59	56	61	58	55	52
4	65	59	53	50	64	58	53	49	56	52	49	46
5	61	53	48	44	59	52	47	44	51	47	43	41
6	57	49	43	39	55	48	43	39	47	42	39	37
7	53	44	39	35	52	44	39	35	43	38	35	33
8	49	41	35	32	48	40	35	32	39	35	31	30
9	46	38	32	29	45	37	32	29	36	32	29	27
10	43	35	30	26	42	34	29	26	34	29	26	25

RCR = Room Cavity Ratio

RC = Effective Ceiling Reflectance RW = Wall Reflectance

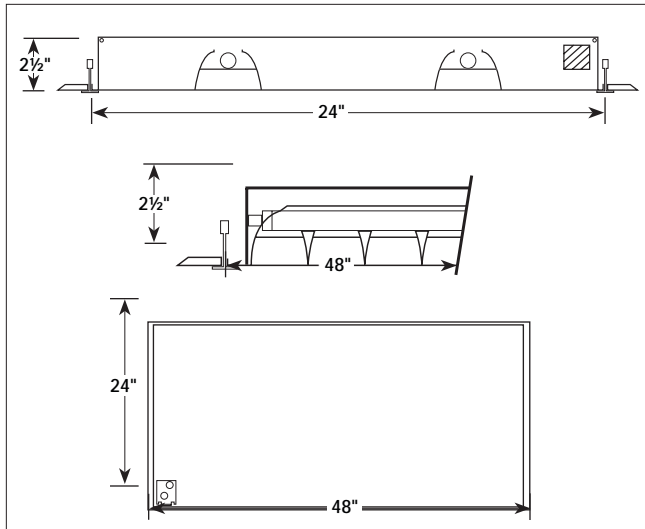
### INDOOR CANDELA PLOT



### AVG. LUMINANCE (Candela/Sq. M.)

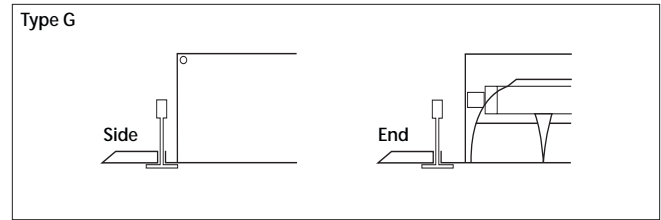
Average Luminance Angle	0.0	22.5	45.0	67.5	90.0
0	5459	5459	5459	5459	5459
30	4984	5093	6127	7015	7140
40	4588	5040	6308	6415	6445
45	3992	4633	5430	5406	5349
50	2350	3542	4098	3529	2775
55	998	1547	2462	1083	684
60	277	585	732	277	151
65	120	108	207	166	116
70	87	87	87	87	82
75	68	68	68	61	61
80	50	50	50	50	50
85	40	40	40	40	40

### DIMENSIONAL DATA



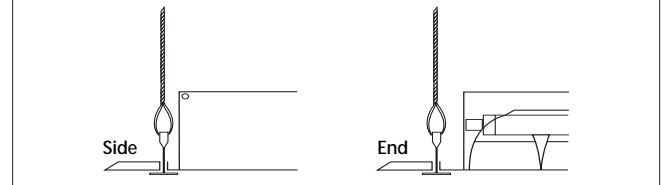
**NOTE:** All dimensions are in inches; dimensions and specifications are subject to change without notice. Please consult factory or check sample for verification.

### CEILING COMPATIBILITY



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

### Type G with Flange Kit



For fixtures in row configurations, the FKCR adapter bracket kit is required in addition to the FK24 kit. Order one less FKCR than the total number of fixtures in row. (Example: Row of two, order (2) FK24 & (1) FKCR)

Flange kit rough in dimensions for single unit only: 2438" x 4838"