



**PHOTOMETRIC DATA**

**LUMINAIRE DATA**

Luminaire	TRA24-228G-CLO-EPU
	2 x 4 2-lamp with clear linear prism lens and opal overlay
Ballast	B228PUNV-C
Ballast Factor	1.00
Lamp	F28T5
Lumens per Lamp	2600
Watts	65
Mounting	Recessed
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.23 90° = 1.31
Luminous Opening in Feet	Length: 3.93 Width: 1.91 Height: 0.00

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixt.
0-30	1371	26.4	26.0
0-40	2258	43.4	42.9
0-60	4062	78.1	77.1
0-90	5266	101.3	100.0
0-180	5266	101.3	100.0

**ENERGY DATA**

Total Luminaire Efficiency	101.3%*
Luminaire Efficacy Rating (LER)	81
IESNA RP-1-1993 Compliant	Noncompliant
Comparative Year 1 Lighting Energy Cost	\$2.96 based on 3000 hrs. and \$0.08 per KWH

**INDOOR CANDELA PLOT**



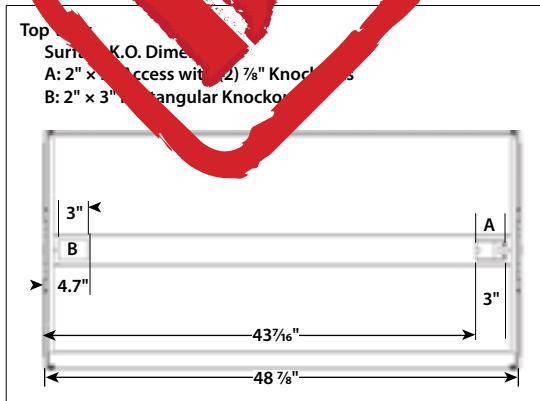
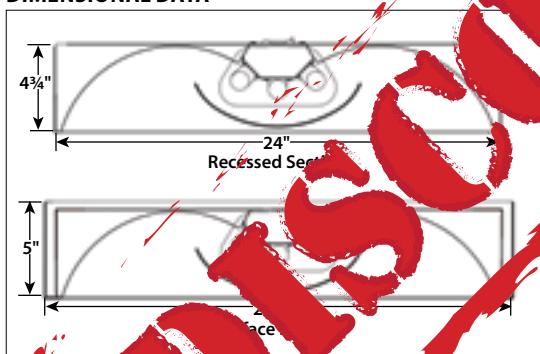
**COEFFICIENTS OF UTILIZATION (%)**

RCR	80					70					50					0				
	70	50	30	10	70	50	30	10	50	30	10	0	70	50	30	10	0	70	50	30
1	110	105	100	96	107	103	98	95	98	95	92	75								
2	100	91	84	78	97	89	82	77	85	80	75	62								
3	91	80	71	64	88	78	70	64	75	68	63	52								
4	83	70	61	54	80	69	60	54	66	59	53	44								
5	76	63	53	46	74	61	53	46	59	52	46	38								
6	70	56	47	40	68	55	47	40	53	46	40	33								
7	65	51	42	36	63	50	42	35	49	41	35	29								
8	60	46	38	32	59	46	37	32	44	37	31	26								
9	56	43	34	28	55	42	34	28	41	33	28	23								
10	53	39	31	26	52	39	31	26	38	30	26	21								

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

**DIMENSIONAL DATA**



**CEILING COMPATIBILITY**

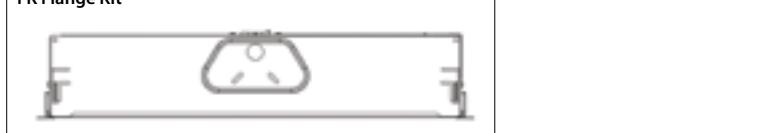
Type Grid



Type SG Ceiling



FK Flange Kit



For hard ceiling applications, fixtures must be ordered with a flange kit that wires directly into the concealed ceiling opening for a clean finished appearance. For row configurations contact your local Columbia Representative.

Flange kit cut out dimension for single FK22 only: 24 7/8" x 24 7/8"

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

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RECESSED ARCHITECTURAL / TRA24-T5

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