



# HALCO PRODUCTS COMPANY

100 N. Gordon Street - Elk Grove Village, IL 60007-1193

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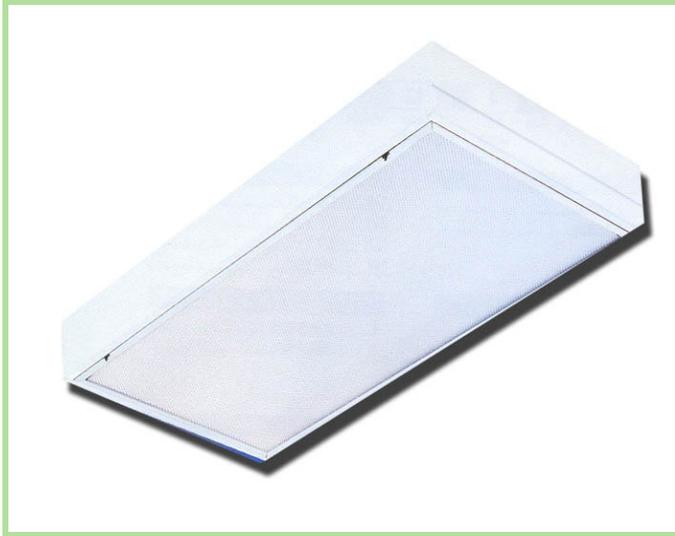
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HALCO  
PRODUCT  
INFORMATION

600.1000

## HALCO CLEAN ROOM LIGHTING FIXTURES SEALED TROFFER



- Aluminum Housing & Door Frame
- Door Finished White Powder Paint
- 80% Efficiency
- Hinge Gasketed Door
- Grid or Flange Mounting
- Fits 1" or 1½" Grid
- Many Bulb & Ballast Options
- Light Weight Aluminum 16lbs vs. 42 for Steel

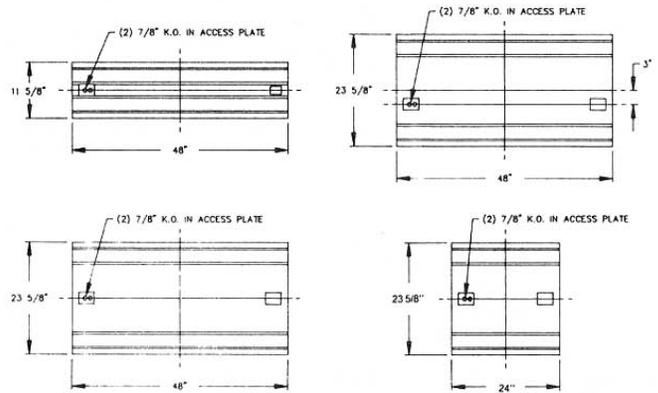
### SPECIFICATIONS:

**CONSTRUCTION** — Housing and end sections to be die formed sealed .040 aluminum. All holes are closed with silicone gasketing. Door frame to be aluminum assembled together and powder painted polyester white (optional louvers available).

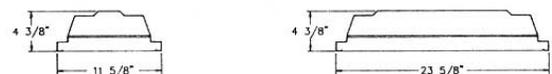
**ELECTRICAL**—All electrical components to be Underwriters Laboratories listed. Ballasts to be HPF, CBM, Class P for 120 volt operation unless otherwise specified. Ballasts and lampholders to be replaceable without removing fixture from ceiling.

**FINISH** —All metal parts to be chemically treated with a rust resistant phosphatized solution. Finish coat-rig of reflecting surfaces to be white, non-modified acrylic enamel, electrostatically applied and cured at 300°F for 30 minutes. Minimum reflectance factor to be 88%.

### PUNCHING DETAIL



### End View



### ORDERING DATA:

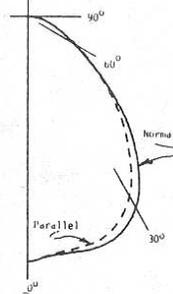
CATALOG NUMBER	SIZE	SHIELDING	LAMP DESIGNATION	WT.
K5-142	1'x4'	Pattern #12 Acrylic	2-F32	12
K5-222	2'x2'	Pattern #12 Acrylic	2-40W'U'AS	14
K5-242	2x4'	Pattern #12 Acrylic	2-F32	16
K5-243	2'x4'	Pattern #12 Acrylic	3-F32	16
K5-244	2'x4'	Pattern #12 Acrylic	4-F32	16

# SPECIFICATIONS

**K5-244-2GPAX-440-HL-CR** LAMP TYPE: F40T12/CW  
LUMENS 3200. NBR. LAMPS: 4

### CANDLEPOWER SUMMARY

DEG	PARL.	22.5	45	67.5	NORM	ZONAL FLUX
0	3980	3980	3980	3980	3980	
5	3895	3896	3900	3906	3906	371
15	3836	3846	3873	3900	3911	1096
25	3616	3645	3714	3770	3788	1717
35	2971	3062	3179	3234	3209	1973
45	2084	2114	2107	2227	2241	1666
55	1243	1141	1038	1141	1215	1020
65	666	491	420	486	642	509
75	331	307	241	300	331	312
85	107	121	124	117	107	128
90	0	0	0	0	0	



### COEFFICIENTS OF UTILIZATION—ZONAL CAVITY METHOD EFFECTIVE FLOOR CAVITY REFLECTANCE 0.20

RC	.80		.70		.50		.30		.10		.0							
	.70	.50	.30	.10	.50	.30	.10	.50	.30	.10								
1	.76	.74	.71	.69	.74	.72	.70	.68	.69	.67	.66	.67	.65	.64	.64	.63	.62	.61
2	.71	.66	.62	.59	.69	.65	.62	.59	.63	.60	.57	.61	.58	.56	.59	.57	.55	.53
3	.66	.60	.55	.52	.64	.59	.55	.51	.57	.53	.50	.55	.52	.49	.53	.51	.49	.47
4	.61	.54	.49	.45	.60	.53	.49	.45	.52	.48	.44	.50	.47	.44	.49	.46	.43	.42
5	.56	.49	.43	.39	.55	.48	.43	.39	.47	.42	.39	.45	.42	.38	.44	.41	.38	.37
6	.52	.44	.39	.35	.51	.44	.39	.35	.43	.38	.35	.41	.37	.34	.40	.37	.34	.33
7	.49	.40	.35	.31	.47	.40	.34	.31	.39	.34	.31	.38	.34	.30	.37	.33	.30	.29
8	.45	.36	.31	.27	.44	.36	.31	.27	.35	.30	.27	.34	.30	.27	.33	.29	.27	.25
9	.41	.33	.27	.24	.40	.32	.27	.24	.32	.27	.24	.31	.27	.23	.30	.26	.23	.22
10	.38	.30	.25	.21	.38	.29	.24	.21	.29	.24	.21	.28	.24	.21	.28	.24	.21	.20

### LUMEN SUMMARY

ZONE	ZONAL SUMMARY				AVG FL		MAX FL		FL RATIO	
	LUMENS	LAMP	FIXT	DEG	PARL	NORM	PARL	NORM	PARL	NORM
0-30	3183	24.9	36.2	0	1872	1872	8291	8291	4.4	4.4
0-40	5156	40.3	58.7	45	1386	1490	5568	6718	4.0	4.5
0-60	7842	61.3	89.2	55	1019	996	4054	4285	4.0	4.3
0-90	8791	68.7	100.0	65	741	714	2726	2904	3.7	4.1
90-180	0	.0	.0	75	601	601	2272	2361	3.8	3.9
0-180	8791	68.7	100.0	85	575	575	2120	2236	3.7	3.9

### IES VISUAL COMFORT PROBABILITY

100. FC. ROOM	REFLECTANCES 80/50/20									
	LUMINAIRES LENGTHWISE				LUMINAIRES CROSSWISE					
	W	L	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
20 20	66	70	75	78	67	70	75	77		
20 30	59	62	66	71	60	62	67	70		
20 40	55	58	61	64	56	58	62	64		
20 60	52	54	57	60	52	55	57	60		
30 20	68	71	76	78	68	71	75	77		
30 30	60	63	67	70	60	63	67	70		
30 40	55	58	61	63	56	58	61	63		
30 60	51	54	56	58	52	54	56	58		
30 80	50	52	53	55	50	52	53	55		
40 20	69	73	77	79	69	73	77	78		
40 30	61	64	68	71	61	65	68	71		
40 40	56	59	61	64	56	59	62	64		
40 60	52	54	56	58	52	54	56	58		
40 80	50	52	52	55	50	52	53	55		
40 100	50	51	51	53	50	51	51	53		
60 30	62	65	69	72	62	66	69	72		
60 40	57	59	62	65	57	60	62	65		
60 60	52	54	56	58	52	55	56	58		
60 80	50	51	52	54	50	52	52	55		
60 100	49	50	50	52	50	50	50	52		
100 40	59	62	64	67	59	62	64	67		
100 60	54	56	57	60	54	56	58	60		
100 80	52	53	53	56	52	53	53	56		
100 100	51	51	50	53	51	51	51	53		

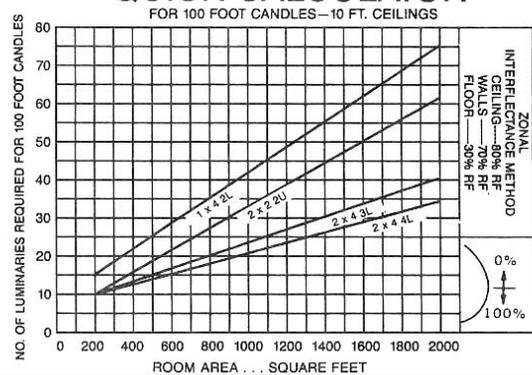
This report is based on IES published procedures. Significance is limited to the degree that the tested sample is representative. Voltage and maintenance, as well as lamp and ballast characteristics, affect field performance.

## OPTIONS

- 277 - Voltage
- ESB - Energy Savings Ballast
- CW - 0° Temperature Operation
- D - Dimming Ballast
- RIF-1 - Radio Interference Suppressor
- F - GLR Fusing
- SBF - GLF Fusing
- .125 - Pattern 12 .125 Nominal Thick Lens
- .156 - Pattern 19 .156 Nominal Thick Lens
- 2EB - Two Electric Ballasts
- BOE - Battery Operated Emergency
- CR - Clean Room Design

Example: K5-244CR-ESB

## QUICK CALCULATOR



## HALCO PRODUCTS COMPANY

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In line with our policy of continual product improvement, HALCO reserves the right to incorporate and use equipment and material to conform with the latest design of its products, and in keeping with the specifications of this equipment.