

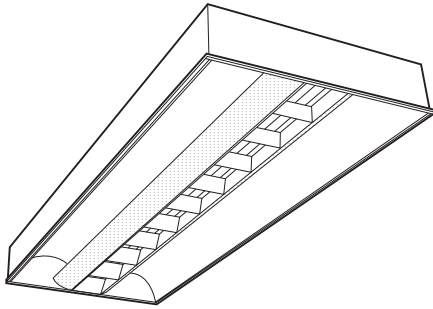


INDIRECT

Lumio CENTER LOUVER

2' x 4', LINEAR

TYPE



Project: _____

Location: _____

CONSTRUCTION

Luminaire housing and end caps are die formed code gauge cold rolled steel. The two piece aluminum reflector is profiled to a precision curve and finished with a matte white paint that provides soft, uniform, indirect illumination. Matte white perforated light side baskets are attached to the louver frame and snap securely into place. Louver can be removed for ease of lamp replacement.

SHIELDING

Two perforated metal light baskets (51% opening) with opal acrylic overlays are standard around the center louver. Louver choices include a true parabolic center louver that provides precise optical control, a high efficiency louver that delivers light to the task or steel cross baffle in either solid or perforated.

FINISH

White powder coat finish on the housing, light baskets, and reflector is applied after fabrication. Provides a soft, non-glare surface.

INSTALLATION

For fast wiring connections without the necessity of opening fixture or wireway, a flex connector adaptor plate is furnished with each luminaire.

LABELS AND ELECTRICAL

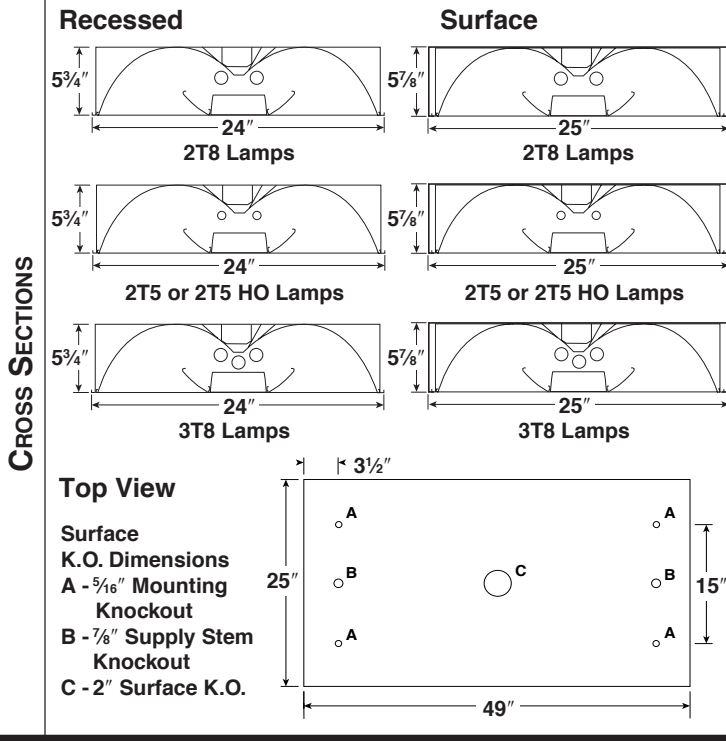
All luminaires are listed with UL and bear appropriate recessed fixture labels. Completely wired with class "P", thermally protected, resetting, HPF, CBM ballast. Sound rated A. All ballast leads extend a minimum of 6" through the access opening.

CEILING COMPATIBILITY

Luminaire is designed to fit into a lay-in grid ceiling. Flange kits are available.

SURFACE OR PENDANT MOUNT

Attractive surface mount units available to match performance and aesthetics of recessed models.



Dimensions and specifications subject to change without notice.

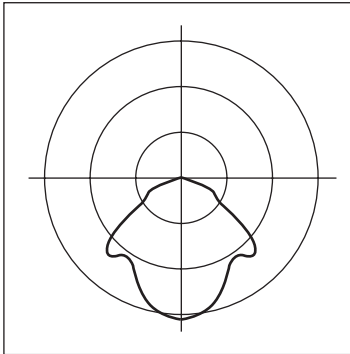
ORDERING INFORMATION	Model LUML - Lumio Center Louver	Ceiling Type G - Grid Lay-in SM - Surface Mount (For hard ceilings use flange kit)	Ballast Type E - Electronic, Instant Start (Standard for T8) ED - Electronic, Dimming, T5/T5HO, 0-10V EP - Electronic, Programmed Start (Standard for T5 & T5HO, optional for T8) Unless specified, Alera will use fewest ballasts possible.	Voltage 120 - 120V 277 - 277V 347 - 347V U - 120V-277V
	Size 24 - 2' x 4'	Louvers Type High Efficiency - Center Louver LS - Low Iridescent Specular MA - Matte Anodized Low Iridescent Semi-Specular Brightness Control - Center Louver BLS - Low Iridescent Specular BMA - Matte Anodized Low Iridescent Semi-Specular Steel Cross Baffle WCB - White Cross Baffle WPB - White Perforated Cross Baffle		Options FK24 - 2x4 Flange Kit DL - Damp Label GLR - Fast Blow Fuse GMF - Slow Blow Fuse EL - Emergency Battery Pack CSA - UL listed or CSA certified for Canada
	No. of Lamps in Cross Section 2 - Two 3 - Three			
	Lamp Type 32 - 4', 32 Watt, T8 28 - 4', 28 Watt, T5 54 - 4', 54 Watt, T5 High Output			

TWO LAMP

Cat. No.: LUML24-232G-LSMPO-E

Lamps: Two F32T8
Ballasts: REL2P32SC
Test No.: 13158
Efficiency: 78.9%

Candela Curve (90° Plane)



CANDLEPOWER

Deg.	Parl.	45°	Norm.
0	1895	1895	1895
5	1893	1898	1866
10	1871	1859	1806
15	1828	1789	1715
20	1765	1692	1574
25	1686	1563	1428
30	1592	1418	1309
35	1480	1284	1268
40	1346	1158	1354
45	1187	1063	1405
50	1004	1023	1210
55	802	930	820
60	585	696	557
65	382	438	485
70	220	312	335
75	155	223	168
80	94	97	99
85	40	38	37
90	0	0	0

COEFFICIENTS OF UTILIZATION

Effective Floor Cavity Reflectance = 0.20

RC RW	80				70				50			0
	70	50	30	10	70	50	30	10	50	30	10	0
1	87	83	80	77	85	81	79	76	78	76	74	68
2	79	73	68	64	77	72	67	63	69	65	62	58
3	73	65	59	54	71	64	58	53	61	56	53	49
4	67	58	51	46	65	57	51	46	55	49	45	42
5	62	52	45	40	60	51	45	40	49	44	39	37
6	57	47	40	35	55	46	40	35	45	39	35	32
7	53	43	36	31	52	42	36	31	41	35	31	29
8	49	39	32	28	48	38	32	28	37	32	28	26
9	46	36	29	25	45	35	29	25	34	29	25	23
10	43	33	27	23	42	33	27	23	32	26	23	21

ZONAL SUMMARY

Zone	Lumens	Lamp	Fixture
0-30	1400	24.1	30.6
0-40	2238	38.6	48.9
0-60	3894	67.1	85.1
0-90	4577	78.9	100.0
0-180	4577	78.9	100.0

ENERGY DATA

Energy Cost: \$3.48* LER: 69
Input Watts: 58 BF: 0.87

*Comparative annual lighting energy cost per 1000 lumens based on 3000 hours and \$0.08 per KWH.

ENERGY DATA

VCP

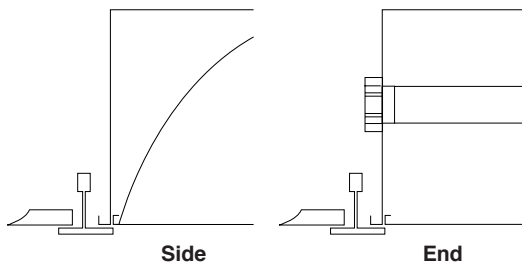
Reflectance - 80, 50, 20
Work Plane Illumination - 100 FC@ 2.5 ft.

Room	Room	W	L	Ht.	Luminaires Lengthwise				Ht.	Luminaires Crosswise			
					8.5	10.0	13.0	16.0		8.5	10.0	13.0	16.0
20	20				72	75	81	89		69	72	79	86
20	40				68	70	73	76		67	68	69	72
30	30				70	71	73	78		69	70	70	76
30	60				67	68	68	70		68	67	66	67
40	40				70	70	70	73		70	69	68	69
40	60				69	68	67	69		69	68	67	67
60	30				73	74	74	77		73	73	72	76
60	40				71	71	70	72		71	71	69	70
60	60				70	69	67	69		70	69	67	67

Spacing Criterion: Along = 1.26, Across = 1.07

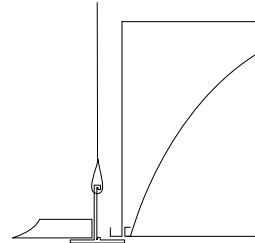
CEILING COMPATIBILITY & FLANGE DETAIL

Type G



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

Flange Kit Trim, FK24



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 Alera Representative.

Flange kit cut out dimension for single FK24 only: 24 3/8" x 48 3/8"