

FEATURES

- Blades and baffles add visual interest
- Direct/Indirect Luminaire
- T8 or T5HO lamps
- Heavy 20-gauge steel construction with perforated sides and metal cross blades
- Controls compatible
- Wall companion to suspended Paleta
- 3/4 profile of companion suspended shape using one or two lamps in cross section
- Excellent for schools and office environments

PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

- Steel blades
- Perforated sections on the side include a hole pattern that measures .078" in diameter (refer to the TID sheet for an illustration).
- One or two lamps in T8, T5, or T5HO
- Reflector systems allow the distribution mix to be changed between the uplight and downlight components.

FINISH

The housing and all painted parts are treated with a multistage phosphate bonding process. Parts are then finished with a white powder coat finish for maximum consistent coverage and longevity.

MOUNTING

- The wall-mounted unit utilizes Alera's Universal Mounting System.
- Brackets are installed to wall through continuous holes to ensure mounting to the studs.
- Fixture is attached to bracket through keyhole slots in the back of the fixture.
- Simply tightening or loosening the bolts every four feet accomplishes leveling.

LABELS AND ELECTRICAL

- UL 1598 or CSA
- Prewired w/ T8, T5 or T5HO electronic ballasts
- Quick connect plugs standard
- Damp label available on most models.

Name:	PAL-3T8-WCB-E
Test #:	13509
Efficiency:	95.4%
LER:	88

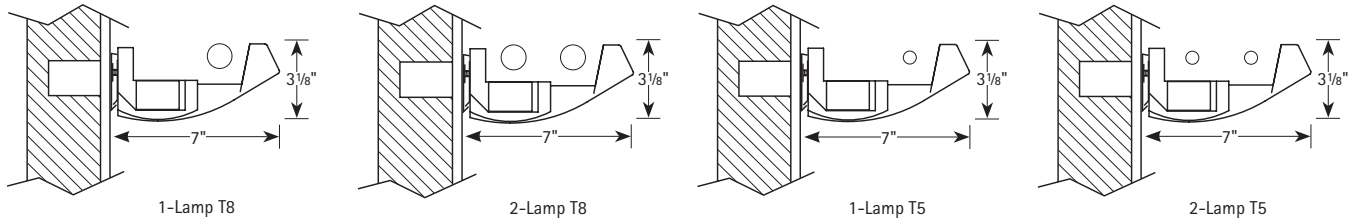
ORDERING INFORMATION

EXAMPLE: PAL-8-2T8-WM-EU-MW

PAL		WM			
MODEL	LAMP TYPE AND PROFILE	MOUNTING METHOD	VOLTAGE	FINISH	
PAL Paleta	1T5 One T5 Lamp ¹ 2T5 Two T5 Lamps ¹ 1T5HO One T5HO Lamp ¹ 2T5HO Two T5HO Lamps ¹ 1T8 One T8 Lamp 2T8 Two T8 Lamps	WM Wall Mount	U 120V-277V 120 120V 277 277V 347 347V	MW Matte White (Std.) ZT ZET Metallic Silver (Small case)	
ROW LENGTH	DISTRIBUTION	BALLAST	OPTIONS		
4 4' Single 8 8' Single – Indicate row length over 8' in 4' increments	Blank 70% Uplight, 30% Downlight 50/50 50% Uplight, 50% Downlight ² 20/80 20% Uplight, 80% Downlight ² 5/95 5% Uplight, 95% Downlight ²	E Electronic, Instant Start, (Std. for T8) EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8) ED Electronic, Dimming (Must specify) ESD Electronic, Step Dimming Unless specified, Alera will use fewest ballasts possible.	DC Dust Cover (T8 only) LR Left/Right Switching (2-Lamp only) EL One Emergency Battery Pack ^{3,4} EMC One Emergency Circuit ^{4,5} NL Night Light Circuit ^{4,5} GLR Fast Blow Fuse GMF Slow Blow Fuse CSA UL listed or CSA certified for Canada DL Damp Label (Available on most models)		

¹ T5/T5HO at risk for socket shadow in downlight component.
² Dust cover not available when using these optical distribution covers.
³ Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).
⁴ Not available with all configurations; some limitations apply. Contact factory for details.
⁵ One extra feed drop per EMC. (For through wiring, contact factory.)

CROSS SECTION



PHOTOMETRIC DATA

LUMINAIRE DATA Test 13523

Luminaire	PAL-2T8-WM-E-4 Paleta Architectural Curve 6.5" x 48" 2-Lamp with White Flat Blade Baffles and Perf Sides
Ballast	REL-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2950
Watts	60
Mounting	Wall
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 4.00 Width: 0.54 Height: 0.26

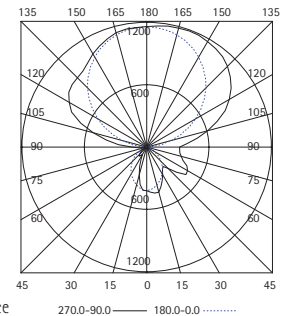
AVG. LUMINANCE (Candela/Sq. M.)

Angle	90.0	135.0	180.0	225.0	270.0
0	2093	2093	2093	2093	2093
30	1373	1643	1770	1037	630
40	1131	1283	1583	780	1233
45	1380	1132	1462	999	1305
50	1852	1085	1336	1164	1401
55	2373	1266	1159	1241	1502
60	2462	1591	943	1386	1981
65	2477	1821	795	2065	0
70	2321	1740	780	0	0
75	2368	1596	839	0	0
80	2485	1591	1000	0	0
85	2796	1860	3115	0	0

COEFFICIENTS OF UTILIZATION (%)

RCR	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	83	79	76	72	73	70	67	64	52	50	48	13				
2	76	69	63	59	66	61	56	52	46	42	40	11				
3	69	60	54	48	60	53	48	43	40	36	33	9				
4	63	53	46	41	55	47	41	36	35	31	28	8				
5	58	47	40	35	50	42	36	31	32	27	24	7				
6	53	42	35	30	46	37	31	27	28	24	21	6				
7	49	38	31	26	43	34	28	23	26	21	18	5				
8	45	34	27	23	40	30	24	20	23	19	16	5				
9	42	31	24	20	37	28	22	18	21	17	14	4				
10	39	28	22	18	34	25	20	16	19	15	13	4				

INDOOR CANDELA PLOT



RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	279	4.7	5.1
0-40	413	7.0	7.6
0-60	691	11.7	12.7
0-90	1042	17.7	19.1
90-120	1387	23.5	25.4
90-130	2113	35.8	38.7
90-150	3471	58.8	63.6
90-180	4415	74.8	80.9
0-180	5457	92.5	100.0

ENERGY DATA

Total Luminaire Efficiency	92.5%
Luminaire Efficacy Rating (LER)	80
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.00 based on 3000 hrs. and \$0.08 per KWH

Test Date 12/19/03

PHOTOMETRIC DATA

LUMINAIRE DATA Test 13539

Luminaire	PAL-1T8-WM-E-4 Paleta Architectural Curve 6.5" x 48" 1-Lamp with White Flat Blade Baffles and Perforated Side
Ballast	REL-1P32-SC
Ballast Factor	0.92
Lamp	F32T8
Lumens per Lamp	2950
Watts	32
Mounting	Wall
Shielding Angle	0° = 21 90° = 42
Spacing Criterion	0° = N/A 90° = N/A
Luminous Opening in Feet	Length: 4.00 Width: 0.54 Height: 0.26

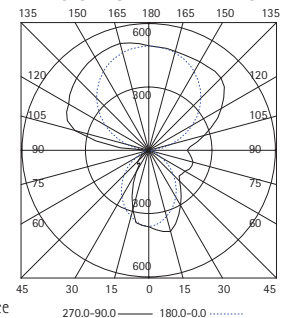
AVG. LUMINANCE (Candela/Sq. M.)

Angle	90.0	135.0	180.0	225.0	270.0
0	1804	1804	1804	1804	1804
30	1355	1515	1525	1296	932
40	1089	1236	1349	886	928
45	985	1111	1251	735	965
50	926	993	1134	891	982
55	999	881	986	950	1057
60	1076	838	809	1055	1321
65	1230	874	644	1514	0
70	1361	918	603	0	0
75	1494	954	636	0	0
80	1585	1010	727	0	0
85	1706	1100	2003	0	0

COEFFICIENTS OF UTILIZATION (%)

RCR	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	89	84	81	77	79	75	72	69	59	57	55	22				
2	81	74	68	63	72	66	61	57	52	48	45	18				
3	74	65	58	52	65	58	52	48	46	41	38	15				
4	67	57	50	44	60	51	45	40	40	36	33	13				
5	62	51	44	38	55	46	39	35	36	32	28	12				
6	57	46	38	33	51	41	35	30	33	28	24	11				
7	52	41	34	29	47	37	31	26	30	25	22	9				
8	49	37	30	25	43	34	28	23	27	22	19	9				
9	45	34	27	22	40	31	25	21	25	20	17	8				
10	42	31	24	20	38	28	22	18	23	18	15	7				

INDOOR CANDELA PLOT



RCR = Room Cavity Ratio
RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	258	8.8	9.1
0-40	386	13.1	13.7
0-60	594	20.1	21.0
0-90	790	26.8	27.9
90-120	677	23.0	24.0
90-130	1014	34.4	35.9
90-150	1628	55.2	57.6
90-180	2038	69.1	72.1
0-180	2827	95.8	100.0

ENERGY DATA

Total Luminaire Efficiency	95.8%
Luminaire Efficacy Rating (LER)	81
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$2.96 based on 3000 hrs. and \$0.08 per KWH

Test Date 1/21/04