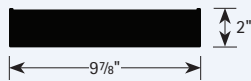




FEATURES

- Close-to-ceiling mounting 12" to bottom of housing
- Direct/Indirect Luminaire
- T8 two-lamp cross sections allow use of industry standard, energy efficient, low cost lamps and ballasts with excellent performance
- T5 or T5HO one-lamp cross section harnesses emergent technology for unparalleled performance metrics
- Heavy 20-gauge construction provides excellent housing rigidity; patented die cast aluminum joiners ensure excellent row integrity (Patent# 6,796,676B2)
- Performance driven light delivery system creates smooth ceiling gradients with wide fixture spacings
- Optional perforated housing allows perforated, slotted, or patterned strips on either side of shielding for added visual interest
- Office and school applications where fixtures require shorter mounting distances from ceiling

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

Mounting points maintain convenient, predictable locations. The exact shape of the housing is maintained by the use of a patented inner die cast plate at each fixture end (Patent# 6,796,676 B2) throughout the run to prevent snaking. The housing is designed to wrap around the plate and secures on top with concealed screws to ensure housing tolerances are consistent.

FINISH

Housing and all painted parts are treated with a multi-stage phosphate prior to finish. Parts are then finished with a white powder coat for maximum consistent coverage and longevity. Other colors may be specified; refer to Alera binder page MTX-1 or contact your local Alera Lighting representative.

SHIELDING AND HOUSING TYPES

Shielding for the direct element may be selected as a:

- White cross baffle with opal overlay (WCB)
- Regressed perforated panel (RPF)
- Flat perforated panel (FPF).

MOUNTING

An adjustable 12" aircraft cable yoke mount is standard. The cable yoke attaches from two points at each hanging location. The end of the cable barrel screws into a standard 1/4-20 bolt brought down from the ceiling. All fixtures must be supported at each fixture housing end.

LABELS AND ELECTRICAL

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

Name:	PPLS-1T5HO-PERF-WCB-E
Test #:	14148
Efficiency:	92.6%
LER:	66

ORDERING INFORMATION

EXAMPLE: PPLS-24-1T5HO-PFST-CM48-WCB-EPU-MW-LR

MODEL		HOUSING TYPE		SUSPENSION LENGTH		VOLTAGE		FINISH			
PPLS	Plank Plus Liso	Blank	Solid (Std.)	12	12"	U	120V-277V	MW	Matte White (Std.)		
		PFST	Perforated Strip	18	18"	120	120V	ZT	ZET Metallic Silver		
		HSLT	Horizontal Slot Strip	24	24"	277	277V	See MTX-1 for other color selections.			
		VSLT	Vertical Slot Strip	48	48"	347	347V				
				Other lengths available on request.							
ROW LENGTH		LAMP TYPE AND PROFILE		MOUNTING METHOD		SHIELDING		BALLAST		OPTIONS	
4 4' Single		1T5 One T5 Lamp		CM Adj. Aircraft Cable Mount (Std.)		WCB White Cross Baffle ¹		E Electronic, Instant Start (Std. for T8)		LR Left/Right Switching (2-Lamp only)	
8 8' Single		1T5HO One T5HO Lamp				RPF Regressed Perforated		EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)		EL One Emergency Battery Pack ^{2,3}	
12 12' Single		2T8 Two T8 Lamps				FPF Flat Perforated		ED Electronic, Dimming (Must specify)		EMC One Emergency Circuit ^{3,4}	
– Indicate row length over 8' in 4' increments						OA Opal Acrylic Lens		ESD Electronic, Step Dimming		NL Night Light Circuit ^{3,4}	
								Unless specified, Alera will use fewest ballasts possible.		GLR Fast Blow Fuse	
										GMF Slow Blow Fuse	
										TBAR T-Bar Mounting	
										CSA UL listed or CSA certified for Canada	
										DL Damp Label (Available on most models)	

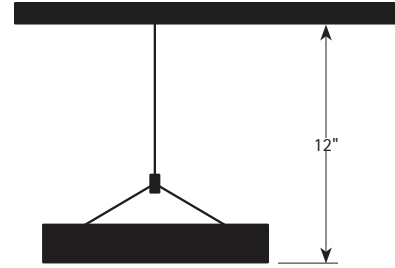
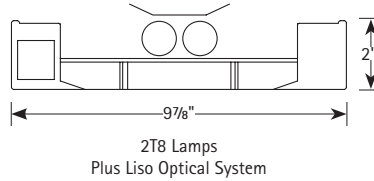
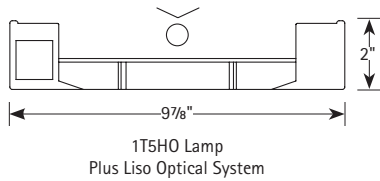
¹Includes .020 thick white overlay.

²Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).

³Not available with all configurations; some limitations apply. Contact factory for details.

⁴One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

CROSS SECTION



PHOTOMETRIC DATA

LUMINAIRE DATA Test 13868

Luminaire	PPLS-2T8-WCB-E Plank Plus Liso Architectural Beam 9.75 x 48 2-Lamp with Plus Liso Optics and Gloss White Center Louver
Ballast	REL-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	59
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.03 90° = 1.23
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

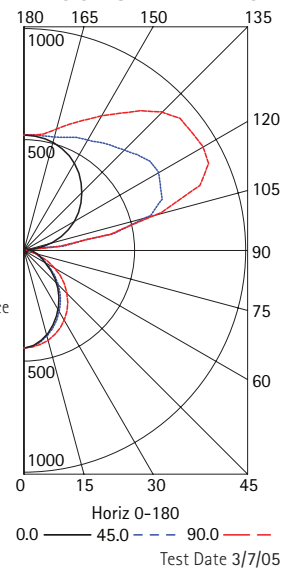
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	5185	5185	5185	5185	5185
30	4010	4105	4321	4687	4945
40	3461	3584	3875	4365	4717
45	3136	3268	3600	4148	4546
50	2738	2902	3322	3888	4344
55	2291	2475	2966	3600	4050
60	2088	2135	2604	3215	3613
65	1971	2026	2304	2804	3081
70	1887	1921	2161	2333	2333
75	1813	1904	2085	1994	1858
80	1892	1959	2027	1892	1757
85	2423	2423	2154	1750	1615

COEFFICIENTS OF UTILIZATION (%)

RCR	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	66	63	61	58	59	56	54	52	43	42	40	14				
2	60	55	51	48	53	49	46	43	38	36	34	12				
3	55	49	44	40	49	43	39	36	34	31	28	10				
4	50	43	38	34	45	38	34	30	30	27	24	9				
5	46	38	33	29	41	34	30	26	27	23	21	8				
6	42	34	29	25	38	31	26	23	24	21	18	7				
7	39	31	25	22	35	28	23	20	22	18	16	6				
8	36	28	23	19	32	25	20	17	20	16	14	6				
9	34	25	20	17	30	23	18	15	18	15	12	5				
10	31	23	18	15	28	21	17	14	16	13	11	5				

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	320	5.5	7.6
0-40	503	8.7	12.0
0-60	811	14.0	19.4
0-90	967	16.7	23.1
90-120	1316	22.7	31.5
90-130	1898	32.7	45.4
90-150	2756	47.5	66.0
90-180	3211	55.4	76.9
0-180	4178	72.0	100.0

ENERGY DATA

Total Luminaire Efficiency	72.0%
Luminaire Efficacy Rating (LER)	62
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.87 based on 3000 hrs. and \$0.08 per KWH

PHOTOMETRIC DATA

LUMINAIRE DATA Test 13849

Luminaire	PPLS-1T5HO-WCB-EP Plank Plus Liso Architectural Beam 9.75 x 48 1-Lamp with White Straight Blade Baffle, Opal Overlay, and Plus Liso Optics
Ballast	ICN-2S54
Ballast Factor	1.02
Lamp	F54T5
Lumens per Lamp	4450
Watts	63
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.03 90° = 1.22
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00

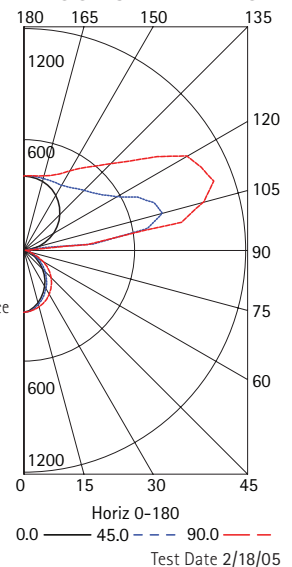
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	4071	4071	4071	4071	4071
30	3143	3211	3360	3631	3861
40	2711	2787	3002	3385	3691
45	2456	2555	2804	3235	3584
50	2154	2263	2573	3066	3450
55	1779	1923	2311	2843	3252
60	1619	1666	2018	2558	2909
65	1555	1582	1749	2165	2360
70	1475	1509	1681	1784	1749
75	1405	1496	1632	1541	1405
80	1419	1554	1621	1486	1351
85	1615	1750	1750	1481	1346

COEFFICIENTS OF UTILIZATION (%)

RCR	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	80	77	73	70	71	68	65	63	51	49	48	14				
2	73	67	62	58	64	59	55	52	45	42	40	12				
3	67	59	53	48	59	52	47	43	40	36	34	11				
4	61	52	46	41	54	46	41	37	35	31	29	9				
5	56	46	40	35	49	41	35	31	31	28	25	8				
6	51	41	35	30	45	37	31	27	28	24	21	7				
7	47	37	31	26	42	33	27	23	25	21	19	6				
8	44	34	27	23	39	30	24	21	23	19	16	6				
9	41	30	24	20	36	27	22	18	21	17	15	5				
10	38	28	22	18	33	25	20	16	19	16	13	5				

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	249	5.6	6.4
0-40	393	8.8	10.0
0-60	634	14.2	16.2
0-90	754	16.9	19.2
90-120	1680	37.8	42.8
90-130	2174	48.9	55.4
90-150	2818	63.3	71.8
90-180	3169	71.2	80.8
0-180	3922	88.1	100.0

ENERGY DATA

Total Luminaire Efficiency	88.1%
Luminaire Efficacy Rating (LER)	63
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.81 based on 3000 hrs. and \$0.08 per KWH