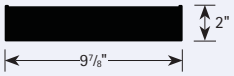
PLK CABLE MOUNT - A+CLASS

3-Lamp T8, Direct/Indirect Distribution

FEATURES

- A+CLASS™ energy management system compatible
- A+CLASS™ GEN/ A/V Lighting compatible
- LEED for Schools and CHPS compatible
- Crisp shape with clean, elegant lines
- Direct/Indirect lighting elements
- 2" Low Profile
- Heavy 20-gauge steel body
- Optional housing patterns available–perforated, slotted, or patterned strips on either side of shielding for added visual interest
- RAL colors available
- Low profile, adjustable cable mount hanging system
- Excellent for education applications
- RAL colors available
- A+CLASS™ system includes lighting controls, switches, and low voltage wiring
- See APCS controls submittal for additional details

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

A+CLASS

A+CLASS™ energy management system compatible. Can be installed as part of A+CLASS™ classroom-in-a-box installation. A+CLASS™ electronic ballast must be program rapid start (EP). Electronic Dimming (ED) requires 0-10V ballast.

CONSTRUCTION

–Modular 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 page MTX-1 or contact your local Alera Lighting representative.

SHIELDING

–White Cross Baffle-high efficiency without overlay (WCBS)
  –Standard A+CLASS™ shielding

–White Cross Baffle with opal overlay (WCB)

–Regressed Perforated panel (RPF)

–Flat Perforated panel (FPF)

–Opal Acrylic lens (OA)

–Semi-specular parabolic louver (LD)

DISTRIBUTION

–In GEN (general) lighting mode, the Plank distribution provides direct/indirect lighting 80% down, 20% up.

–Our (CLC) Center Lamp Cover directs 100% of the center lamp light down, when the lighting is switched to A/V mode.

MOUNTING

To maintain consistent, predictable mounting points, fixtures use an adjustable aircraft cable yoke mounting mechanism from two points at each hanging location.

LABELS AND ELECTRICAL

–UL 1598 or CUL labels.

–Prewired with electronic T8, T5, or T5HO ballasts

–Quick connect plugs standard

–Damp label on most models

Name:	PLK-3T8-CLC-WCBS
Test #:	ITL62636
Efficiency:	83%
LER:	74

ORDERING INFORMATION

EXAMPLE: PLK-24-3T8-CLC-PFST-CM48-WCB-EDAGDD277-MW-IBOB

PLK - ___ - 3T8 - CLC - ___ - CM ___ - ___ - ___ - ___ - ___

MODEL

PLK	Plank High Performance Lighting

To order A+CLASS™ controls: see page APCS.

LAMP TYPE AND PROFILE

3T8	Three T8 Lamps

HOUSING TYPE

Blank	Solid (Std.)
PFST	Perforated Strip
HSLT	Horizontal Slot Strip
VSLT	Vertical Slot Strip

SUSPENSION LENGTH

48	48"
96	96"

Other lengths available on request.

BALLAST

EP	Electronic, Programmed Start
ED	Electronic, 0-10V Dimming

Unless specified, Alera will use fewest ballasts possible.

VOLTAGE

U	120V-277V
120	120V
277	277V

FINISH

MW	Matte White (Std.)
ZT	ZET Metallic Silver

Additional RAL colors available. Contact factory.

ROW LENGTH

4	4' Single
8	8' Single
12	12' Single
–	Indicate row length over 8' in 4' increments

Note: Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

DISTRIBUTION

CLC	Center Lamp Cover for A/V Mode

MOUNTING METHOD

CM	Adj. Aircraft Cable Mount (Std.)

SHIELDING

WCBS	White Cross Baffle-High Efficiency Without Overlay (Standard for A+CLASS)
WCB	White Cross Baffle with Overlay[1]
RPF	Regressed Perforated
FPF	Flat Perforated
OA	Opal Acrylic Lens
LD	Low Iridescent Semi-Specular Parabolic Louver

DIMMING FEATURE

Blank	None
DD	Daylight Dimming[4]
AVD	A/V Teacher Dimming[4]
AVDD	AVD & Daylight Dimming[4]
AGD	GEN & A/V Teacher Dimming[4]
AGDD	AGD & Daylight Dimming[4]
GMD	General Teacher Dimming[4]
GMDD	General Teacher and Daylight Dimming[4]

OPTIONS

IBOB	Inboard/Outboard Switching
EL	One Emergency Battery Pack[2,3]
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)

[1] Includes .020 thick white overlay.
[2] Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).
[3] Not available with all configurations; some limitations apply. Contact factory for details.
[4] Requires ED ballast.

 US Patent Pending. Specifications subject to change without notice.

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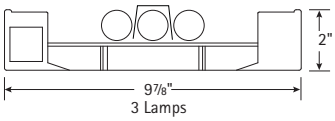
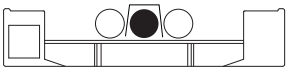
CROSS SECTION



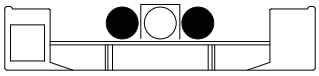

3 Lamps (GEN)


3 Lamps (AV)

PHOTOMETRIC DATA

LUMINAIRE DATA Test ITL62636

Luminaire	PLK-3T8-WCBS-EU-MW-4-IBOB Plank Architectural Beam 9.75 x 48 1-Lamp with Gloss White Cross Baffle and Opal Overlay
Ballast	Advance ICN-2P32-N
Ballast Factor	0.88
Lamp	Two 32W T8 F032/835
Lumens per Lamp	2950
Watts	58.2
Shielding Angle	0° = 37 90° = 17
Spacing Criterion	0° = .98 90° = .96
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00


3T8 Lamps
GEN Mode

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0
45	1459	1379	1696
55	993	1098	1611
65	861	883	1756
75	703	703	1118
85	535	375	321

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	405	6.9	8.3
0-40	608	10.3	12.4
0-60	919	15.6	18.8
0-90	1077	18.3	22.0
90-120	1001	17.0	20.4
90-130	1632	27.7	33.3
90-150	2897	49.1	59.2
90-180	3820	64.7	78.0
0-180	4897	83.0	100.0

COEFFICIENTS OF UTILIZATION (%)

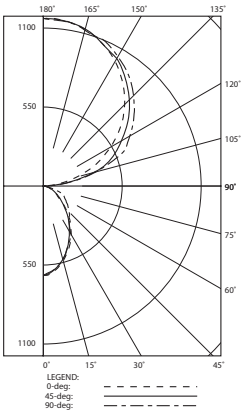
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	76	73	70	67	67	65	62	60	49	48	46	16
	2	70	64	59	55	61	57	53	50	44	41	39	14
	3	64	56	51	46	56	50	45	42	39	35	33	12
	4	58	50	44	39	51	44	39	35	34	31	28	10
	5	53	44	38	33	47	40	34	30	31	27	24	9
	6	49	40	33	29	43	36	30	26	28	24	21	8
	7	45	36	30	25	40	32	27	23	25	21	19	7
	8	42	32	26	22	37	29	24	20	23	19	16	7
	9	39	30	24	20	35	27	22	18	21	17	15	6
	10	36	27	21	18	32	24	19	16	19	16	13	6

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

ENERGY DATA

Total Luminaire Efficiency	83.0%
Luminaire Efficacy Rating (LER)	74
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.24 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT

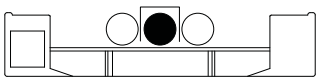


Test Date 9/16/05

PHOTOMETRIC DATA

LUMINAIRE DATA Test ITL62637

Luminaire	PLK-3T8-1D-CLC-WCBS-EU-MW-4-IBOB Plank Architectural Beam 9.75 x 48 1-Lamp with Gloss White Regress Basket and Opal Overlay
Ballast	REL-1P32-SC
Ballast Factor	0.91
Lamp	F32T8
Lumens per Lamp	2900
Watts	33
Shielding Angle	0° = 37 90° = 29
Spacing Criterion	0° = 1.0 90° = 1.2
Luminous Opening in Feet	Length: 3.67 Width: 0.25 Height: 0.00


3T8 Lamps
A/V Mode

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0
45	5638	6818	7866
55	3916	4879	5433
65	3367	3562	2894
75	2726	2862	2544
85	1889	1619	1484

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	654	22.2	36.1
0-40	1019	34.5	56.3
0-60	1549	52.5	85.5
0-90	1754	59.5	96.8
90-120	19	0.6	1.0
90-130	29	1.0	1.6
90-150	47	1.6	2.6
90-180	58	2.0	3.2
0-180	1812	61.4	100.0

COEFFICIENTS OF UTILIZATION (%)

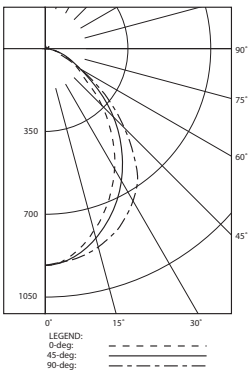
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	67	65	63	61	66	63	61	60	60	59	57	52
	2	62	58	54	51	60	57	53	50	54	51	49	45
	3	57	52	47	44	56	51	47	43	49	45	42	39
	4	53	47	42	38	52	46	41	38	44	40	37	34
	5	49	42	37	34	48	41	37	33	40	36	33	31
	6	46	38	33	30	45	38	33	30	36	32	29	27
	7	43	35	30	27	42	35	30	27	33	29	26	25
	8	40	32	27	24	39	32	27	24	31	27	24	22
	9	37	30	25	22	36	29	25	22	29	25	22	20
	10	35	28	23	20	34	27	23	20	27	23	20	19

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

ENERGY DATA

Total Luminaire Efficiency	61.4%
Luminaire Efficacy Rating (LER)	53
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$4.53 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 7/20/09