CÛRV RADIAL BAFFLE

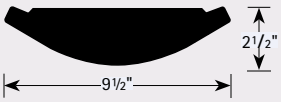
1, 2, 3-Lamp T5, T5HO, T8, Direct/Indirect Distribution

ALERA EXPRESS

FEATURES

- Solid or Perforated baffle combines with curved shape for direct / indirect distribution
- Sturdy 20-gauge steel construction for excellent housing rigidity
- Controls compatible
- Available with optional installed open or closed loop daylight sensors (DSPL, DSL) when daylight dimming systems are desired
- Flat end caps standard (5/16" length)
- Sculpted or Bull Nose end cap option
- Modular mounting points for convenient hanging locations
- Aircraft cable mounting
- Patented die cast aluminum, tongue and groove couplers provide zero tolerance alignment resulting in consistently straight rows (Patent#6,796,676B2)

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name | Type

Catalog No. | Date

CONSTRUCTION

—Up to three T8, T5, T5HO lamps in cross section.

—Modular mounting points maintain convenient, predictable locations and fixture lengths in 48" increments.

—The housing is designed to wrap around the end plates and secures on top with concealed screws to ensure housing tolerances are consistent.

—Patented die cast aluminum, tongue and groove couplers provide zero tolerance alignment resulting in consistently straight rows (Patent# 6,796,676B2).

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; see Color Guide in e-PSG or contact your local Alera Lighting representative.

SHIELDING

Solid (CVRB) or Perforated (CVRPB) aluminum louver painted white baffle conforms to radius of housing. Standard distribution pattern is 60% indirect/40% direct. Optional distribution covers to modify the indirect/direct pattern are available. Distribution covers are shipped separately to be field installed, no tools required.

AESTHETIC OPTIONS

—Choice of solid or perforated baffle

—Sculpted End Cap

—Bull Nose End Cap

LABELS AND ELECTRICAL

—All luminaires are built to UL1598 Standards and bear appropriate UL and cUL or CSA labels. Damp location labeling is standard.

—Quick-connect plugs standard.

MOUNTING

To maintain consistent, predictable mounting points, 1- and 3-lamp fixtures use a yoke hanger and 2-lamp units use a single-point mounting system at each hanging location. Fixed cable has a total vertical adjustment of 1¼". The end of the cable barrel screws into a standard ¼-20 bolt brought down from the ceiling. All fixtures are suspended in modular increments and must be supported at each fixture housing end.

CONTROLS COMPATIBILITY

When used with Occupancy Sensors, most lamp vendors recommend Program Start ballast (EP) to extend lamp life. For daylight sensors installed, see information below.

ARCHITECTURAL SENSORS INSTALLED

Daylight sensors are used to measure available sunlight and reduce electric light for energy savings. Alera sensors are installed to be both accessible and visible below the housing.

DSPL: Philips Luxsense, Mark 7 0-10V dimming ballast. Closed loop sensor measures reflected light in a cone below the sensor. Pre-commissioned by Philips to 45fc standard; modest manual adjustability via sensor ring.

DSL: Lutron EcoSystem, digital dimming ballast. Open loop sensor must be pointed directly at the source of natural light. System requires proprietary commissioning by others.

Additional technical data: see TID sheets, Alera website and sensor manufacturer websites.

Name:	CVRB-2T5-EP
Test #:	ITL71711
Efficiency:	91.8%
LER:	77

Definitions on page 182.

ORDERING INFORMATION

EXAMPLE: CVRPB-8-2T8-CM48-EU-MW

- MODEL - LAMP TYPE AND PROFILE - ROW LENGTH - MOUNTING METHOD - DISTRIBUTION - ADJUSTABLE CABLE LENGTH - BALLAST - VOLTAGE - COLOR - OPTIONS

MODEL	
CVRB	Cûrv Radial, Solid Baffle

LAMP TYPE AND PROFILE	
1T5	One T5 Lamp[1]
2T5	Two T5 Lamps[1]
3T5	Three T5 Lamps[1]
1T5HO	One T5HO Lamp[1]
2T5HO	Two T5HO Lamps[1]
3T5HO	Three T5HO Lamps[1]
1T8	One T8 Lamp
2T8	Two T8 Lamps
3T8	Three T8 Lamps

ROW LENGTH	
4	4' Single
8	8' 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.

MOUNTING METHOD	
CM	Adjustable Aircraft Cable Mount
FCM18	Fixed Aircraft Cable Mount (2-lamp only)

DISTRIBUTION	
Blank	(70% Uplight, 30% Downlight
0/100	0% Uplight, 100% Downlight[2, 6, 8]
20/80	20% Uplight, 80% Downlight[2, 6, 8]
40/60	40% Uplight, 60% Downlight[2, 6, 8]
85/15	85% Uplight, 15% Downlight[2, 6, 8]
CLC	Center Lamp Cover A/V Mode[2, 6, 8]

ADJUSTABLE CABLE LENGTH	
48	48"
96	96"

Other lengths available on request.

BALLAST	
E	Electronic, Instant Start, (Std. for T8)
EP	Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)
ELW	Electronic T8, Low Wattage, Instant Start
EPLW	Electronic T8, Low Wattage, Programmed Start
ED	Electronic, Dimming (Must specify)
ESD	Electronic, Step Dimming
EDUMK7	Universal Voltage, Electronic Dimming Philips Advance Mark 7 (0-10V)
EDULUTES	Universal Voltage, Lutron EcoSystem Digital Dimming Ballast[4, 7]

Unless specified, Alera will use fewest ballasts possible.

VOLTAGE	
U	120V-277V
120	120V
277	277V
347	347V

COLOR	
MW	Matte White
MB	Black
ZT	ZET Metallic Silver

See Color Selection Guide for other colors.

OPTIONS	
DC	Dust Cover (T8 and T5 with standard distribution)[2, 6, 8]
SCE	Sculpted End Cap (5 5/16")[8]
BN	Bull Nose End Cap (5 1/16")[8]
LR	Left/Right Switching (2-Lamp only)
IBOB	Inboard/Outboard Switching (3-Lamp only)
EL	One Emergency Battery Pack[3, 4]
EMC	One Emergency Circuit[4, 5]
NLC	Night Light Circuit[4, 5]
GLR	Fast Blow Fuse
GMF	Slow Blow Fuse
TBAR	T-Bar Mounting
DSPL	Philips LuxSense Daylight Sensor (Must Specify Philips Advance 0-10V Dimming Ballast)[4]
DSL	Lutron Daylight Sensor (Must Specify Lutron EcoSystem (EC5 Series)Dimming Ballast)[4, 7]

[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/NLC. (For through wiring, contact factory).
[6] Optional distribution covers provide approximate patterns. Distribution pattern results vary according to specific lamp configurations. Contact factory for additional information.
[7] Lutron EcoSystem® series ballast. Contact factory for other Lutron ballasts.
[8] Ships separately.

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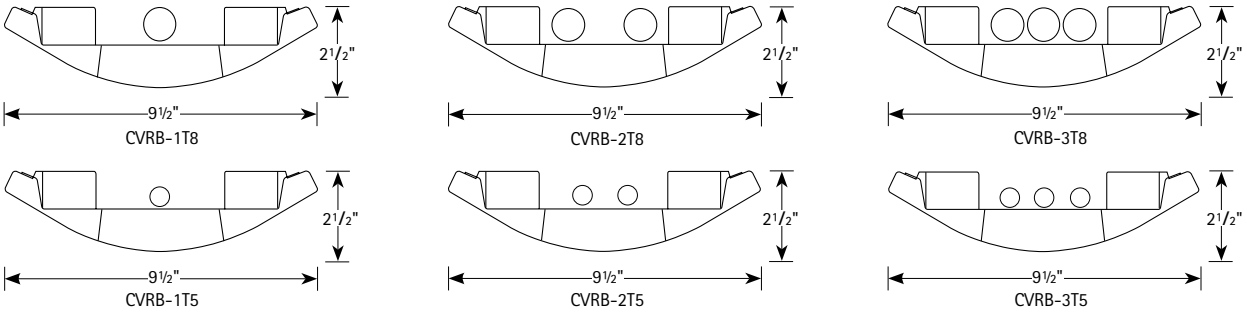
CROSS SECTION



PHOTOMETRIC DATA

Test Date 02/09/2012

LUMINAIRE DATA Test ITL71710

Luminaire	CVRB-4-2T5-EPU CVRB Curv Radial Baffle, Curves 9.5" x 48" 2-lamp with 1 x 43 cell flat white cross baffle
Ballast	B228PUNV-C
Ballast Factor	1.00
Lamp	F28T5
Lumens per Lamp	2600
Watts	63
Mounting	Pendant
Shielding Angle	0° = 47 90° = 22
Spacing Criterion	0° = .98 90° = 1.27
Luminous Opening in Feet	Length: 4.00 Width: 0.31 Height: 0.03

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	6641	6641	6641	6641	6641
30	4820	5025	5701	6072	6370
40	3964	4262	4503	5059	5733
45	3387	3751	3853	4923	6134
50	2958	3259	3178	5037	6635
55	2740	2777	2807	5148	7286
60	2519	2452	2602	5224	7063
65	2305	2215	2394	3841	4882
70	2114	2015	2047	2632	3288
75	1925	1758	1762	2021	2439
80	1726	1481	1445	1641	1872
85	1101	1127	1243	1309	1040

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	568	10.9	11.9
0-40	886	17.0	18.5
0-60	1436	27.6	30.0
0-90	1710	32.9	35.7
90-120	920	17.7	19.2
90-130	1459	28.1	30.5
90-150	2459	47.3	51.4
90-180	3077	59.2	64.3
0-180	4787	92.1	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		87	84	80	77	79	76	73	70	61	59	57	28
2		80	73	68	63	72	66	62	58	54	51	48	24
3		73	64	58	53	66	59	53	49	48	44	40	21
4		67	57	50	45	60	52	46	41	42	38	35	18
5		61	51	44	38	55	46	40	36	38	33	30	16
6		56	46	38	33	51	42	35	31	34	30	26	14
7		52	41	34	29	47	38	31	27	31	26	23	12
8		48	37	30	26	44	34	28	24	28	24	20	11
9		45	34	27	23	41	31	25	21	26	21	18	10
10		42	31	25	20	38	29	23	19	24	19	16	9

RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

ENERGY DATA

Total Luminaire Efficiency	92.1%
Luminaire Efficacy Rating (LER)	76
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.16 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT