

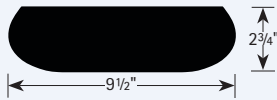


Allegro

FEATURES

- Contemporary low profile appearance
- Direct/Indirect Luminaire
- Extruded aluminum housing
- Controls compatible
- High efficiency with wide distribution
- Modular suspension points offer ease of installation
- Adjustable yoke cable hanger allows vertical adjustments and horizontal balancing
- Patented die cast aluminum couplers and end caps
- Fixed louver stays in housing, even if fixture is struck or damaged
- Corners available for patterns

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name	Type
Catalog No.	Date

CONSTRUCTION

- 4', 8', and 12' housings
- Reinforcement provides maximum rigidity across the entire housing.
- Diecast aluminum end caps provide zero tolerance alignment between fixtures, resulting in consistently straight rows with no snaking.
- Upper reflectors are constructed of specular anodized aluminum for precise upward distribution.
- Relamped from above

FINISH

The housing is finished with a baked powder coat matte white finish as standard. Diecast end caps and intermediate couplers are painted to match the housing. Hanging stems and canopies are painted white. Cable fittings are standard chrome.

SHIELDING

- Louvers are securely attached to the housing from the top, eliminating any chance of loosening or falling from the fixture.
- Constructed of semi-specular anodized aluminum, the eleven-cell louver (LD) measures 1 1/2" high and provides maximum efficiency and a glare-free environment.
- Specular aluminum is available (LS). A variety of lenses are available with the Allegro.

–The lenses slide into a track in the bottom of the extrusion to make it completely captive. This captivity makes the lensed Allegro ideal for laboratories, hallways, or schools.

MOUNTING

Allegro utilizes a unique hanging system that makes vertical and horizontal adjustment effortless. The aircraft cable assembly is totally adjustable. Precise horizontal balancing is accomplished by sliding a cable gripper along a metal yoke on each end. The cable gripper is simply turned and locked into place once the fixture is leveled. The double hanging system allows the suspension points to be placed on 48" centers for quick and easy installation. Rigid stems are available as options. Extruded aluminum corners are available to make up patterns.

LABELS AND ELECTRICAL

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

Name:	ALS-3T8-LD18-E
Test #:	14058
Efficiency:	90.3%
LER:	78

ORDERING INFORMATION

EXAMPLE: ALS-8-2T8-CM48-LD-EU-MW

MODEL	LAMP TYPE AND PROFILE	MOUNTING	SHIELDING	VOLTAGE	OPTIONS
ALS Allegro	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	CM Adjustable Aircraft Cable Mount See HGR-1 for other hanging methods.	LD Low Iridescent Semi-Specular (Std.) LS Low Iridescent Specular LD18 18-Cell Low Iridescent Semi-Specular A12 Acrylic Pattern 12 Prismatic Lens A19 Acrylic Pattern 19 Prismatic Lens See HGR-1 for other hanging methods.	U 120V-277V 120 120V 277 277V 347 347V	DC Dust Cover (N/A T5HO) BN Bull Nose End Cap (5 1/16") 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} NL Night Light Circuit ^{4,5} 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)
ROW LENGTH	DISTRIBUTION	SUSPENSION LENGTH	BALLAST	FINISH	
4 4' Single 8 8' Single – Indicate row length over 8' in 4' increments	Blank 60% Uplight, 40% Downlight 0/100 0% Uplight, 100% Downlight ² 20/80 20% Uplight, 80% Downlight ² 40/60 40% Uplight, 60% Downlight ² 85/15 85% Uplight, 15% Downlight CLC Center Lamp Cover A/V Mode	48 48" 96 96" Other lengths available on request.	E Electronic, Instant Start, (Std. for T8) EP Electronic, Programmed Start (Std. for T5 and T5HO, optional for T8) Unless specified, Alera will use fewest ballasts possible.	MW Matte White ZT ZET Metallic Finish See MTX-1 for other color selections	

¹ T5/T5HO at risk for socket shadow in downlight component.

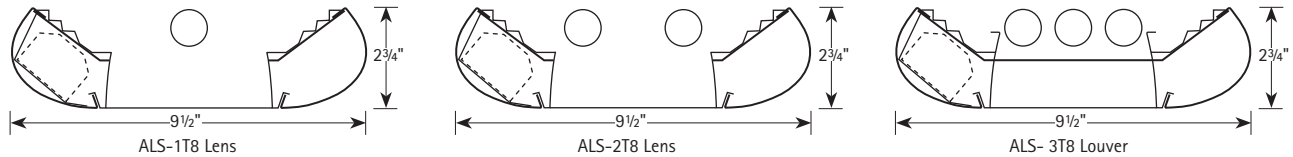
² Dust cover not available when using these optical distribution covers.

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 row with through wiring. (Standard is one 4ft lamp per circuit.)

CROSS SECTION



PHOTOMETRIC DATA

LUMINAIRE DATA Test 12600

Luminaire	ALS-3T8-LD-EB8 Allegro Architectural Curve 9" x 48" 3-Lamp with 1 x 11 Cell Semi-Specular Louver
Ballast	B3321120RH-A
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	89
Mounting	Pendant
Shielding Angle	0° = 21 90° = 23
Spacing Criterion	0° = 1.20 90° = 1.49
Luminous Opening in Feet	Length: 3.80 Width: 0.37 Height: 0.00

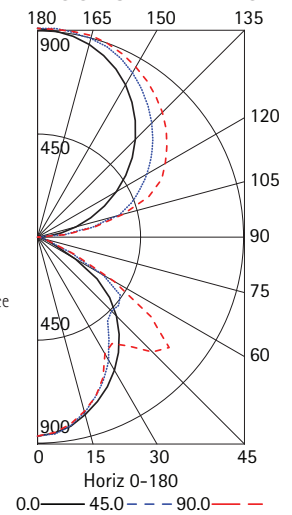
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	8972	8972	8972	8972	8972
30	8380	9220	9715	10148	10237
40	7755	8825	9734	11023	11363
45	7146	8326	9755	10892	11195
50	6360	7611	9457	10314	10791
55	5339	6660	8342	9383	10264
60	3889	5328	6798	8008	8881
65	2065	3351	4855	5271	5326
70	358	940	2104	1903	1724
75	266	414	651	947	1006
80	220	353	441	617	661
85	176	264	264	351	351

COEFFICIENTS OF UTILIZATION (%)

RCR	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	86	82	79	76	78	75	72	70	62	60	58	31	0			
2	78	72	67	63	71	66	62	58	54	51	49	27	0			
3	72	64	58	53	65	58	53	49	48	45	41	23	0			
4	66	56	50	45	60	52	46	42	43	39	35	20	0			
5	60	50	43	38	55	46	40	36	38	34	31	18	0			
6	55	45	38	33	50	41	35	31	35	30	27	15	0			
7	51	41	34	29	46	37	31	27	31	27	23	14	0			
8	47	37	30	25	43	34	28	24	28	24	21	12	0			
9	44	33	27	23	40	31	25	21	26	22	18	11	0			
10	41	31	24	20	37	28	23	19	24	19	16	10	0			

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ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	970	11.2	12.6
0-40	1620	18.6	21.0
0-60	2833	32.6	36.7
0-90	3112	35.8	40.3
90-120	1310	15.1	17.0
90-130	2133	24.5	27.6
90-150	3626	41.7	47.0
90-180	4608	53.0	59.7
0-180	7720	88.7	100.0

ENERGY DATA

Total Luminaire Efficiency	88.7%
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

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

Test Date 8/7/00

PHOTOMETRIC DATA

LUMINAIRE DATA Test 12603

Luminaire	ALS-3T840/60-LD-EB8 Allegro Architectural Curve 9" x 48" 3-L/W/ 1 x 11 CELL SEMI-SPECULAR LOUVER & PERF LMP SCRN
Ballast	B3321120RH
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	86
Mounting	PENDANT
Shielding Angle	0° = 21 90° = 23
Spacing Criterion	0° = 1.23 90° = 1.36
Luminous Opening in Feet	Length: 3.80 Width: 0.37 Height: 0.00

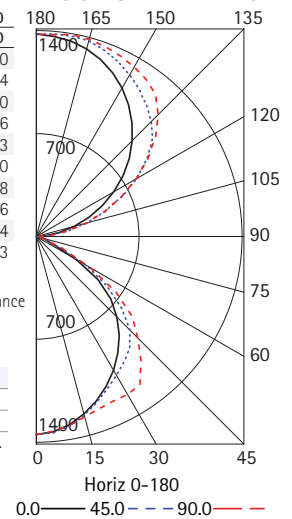
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	12127	12127	12127	12127	12127
30	11589	12323	12509	12792	12836
40	10883	11593	12073	13042	13252
45	10112	10848	11769	12440	12646
50	9087	9838	11017	11481	11946
55	7688	8502	9490	10291	11212
60	5604	6691	7625	8773	9876
65	2935	4040	5416	6014	6449
70	425	1074	2373	2462	2261
75	296	444	739	1094	1183
80	220	353	485	705	749
85	176	264	351	439	527

COEFFICIENTS OF UTILIZATION (%)

RCR	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	73	71	68	66	69	66	64	62	58	57	55	40	0			
2	67	63	58	55	63	59	55	52	48	47	47	34	0			
3	62	55	50	46	58	52	48	44	46	43	40	30	0			
4	57	49	44	40	53	47	42	38	41	38	35	26	0			
5	52	44	38	34	49	42	37	33	37	33	30	23	0			
6	48	40	34	30	45	38	32	29	34	30	26	20	0			
7	45	36	30	26	42	34	29	25	31	26	23	18	0			
8	42	33	27	23	39	31	26	23	28	24	21	16	0			
9	39	30	25	21	36	28	24	20	26	22	19	14	0			
10	36	27	22	19	34	26	21	18	24	20	17	13	0			

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ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1290	14.8	20.5
0-40	2118	24.3	33.7
0-60	3575	41.1	56.9
0-90	3902	44.8	62.1
90-120	487	5.6	7.8
90-130	869	10.0	13.8
90-150	1727	19.8	27.5
90-180	2380	27.4	37.9
0-180	6282	72.2	100.0

ENERGY DATA

Total Luminaire Efficiency	72.2%
Luminaire Efficacy Rating (LER)	64
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.75 based on 3000 hrs. and \$0.08 per KWH

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

Test Date 8/7/00

PHOTOMETRIC DATA

LUMINAIRE DATA Test 12595

Luminaire	ALS-2T8-LD-EB8
	Allegro Architectural Curve
	9" x 48" 2 LAMP WITH 1 x 11 CELL SEMI-SPECULAR LOUVER
Ballast	RCN-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	62
Mounting	PENDANT
Shielding Angle	0° = 21 90° = 24
Spacing Criterion	0° = 1.20 90° = 1.31
Luminous Opening in Feet	Length: 3.80 Width: 0.37 Height: 0.00

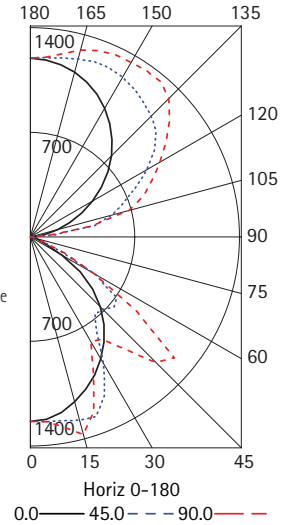
AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
0	5711	5711	5711	5711	5711
30	5322	5852	5932	5994	5994
40	4907	5467	5706	5786	5876
45	4526	5078	5435	6085	6334
50	4026	4562	5300	6622	7718
55	3390	3884	5152	8209	9503
60	2480	2970	5374	7503	8590
65	1359	1884	4311	5127	5090
70	269	694	1947	1724	1500
75	177	296	503	769	828
80	132	220	353	485	573
85	176	176	264	439	439

COEFFICIENTS OF UTILIZATION (%)

RCR	80			70			50			0		
	RW	70	50	30	10	70	50	30	10	50	30	10
1	89	85	82	79	80	77	74	72	63	61	59	29
2	81	75	69	65	73	68	63	60	55	52	49	25
3	74	66	59	54	67	60	54	50	49	45	42	22
4	68	58	51	46	61	53	47	42	43	39	36	19
5	62	52	44	39	56	47	41	36	39	34	31	16
6	57	46	39	34	52	42	36	31	35	30	27	14
7	53	42	34	29	48	38	32	27	32	27	23	13
8	49	38	31	26	44	35	28	24	29	24	21	11
9	45	34	27	23	41	31	25	21	26	22	18	10
10	42	31	25	20	38	29	23	19	24	19	16	9

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Test Date 8/07/00

PHOTOMETRIC DATA

LUMINAIRE DATA Test 12413

Luminaire	ALS-2T8-A12-EB8
	Allegro Architectural Curve
	9" x 48" 2-LAMP WITH ACRYLIC PRISMATIC LENS
Ballast	REL-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	58
Mounting	PENDANT
Shielding Angle	0° = 90 90° = 90
Spacing Criterion	0° = 1.17 90° = 1.13
Luminous Opening in Feet	Length: 3.83 Width: 0.35 Height: 0.00

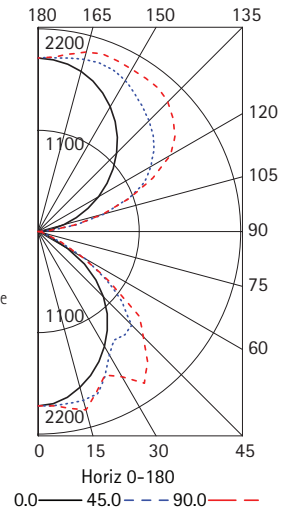
AVG. LUMINANCE (Candela/Sq. M.)

	0.0	22.5	45.0	67.5	90.0
0	5388	5388	5388	5388	5388
30	4886	4812	4738	4682	4673
40	4329	4245	4224	4308	4340
45	3952	3827	3895	3952	3940
50	3485	3448	3473	3473	3460
55	3052	3024	2940	2982	3108
60	2682	2570	2457	2618	2826
65	2375	2147	2090	2318	2527
70	2230	1996	1878	2207	2395
75	2234	2079	2110	2296	2451
80	2220	2266	2358	2497	2590
85	2488	2672	2764	2856	2856

COEFFICIENTS OF UTILIZATION (%)

RCR	80			70			50			0		
	RW	70	50	30	10	70	50	30	10	50	30	10
1	86	82	79	76	77	74	71	68	57	56	54	22
2	78	72	67	62	70	65	60	56	51	48	45	19
3	72	63	57	52	64	57	52	47	45	41	38	16
4	66	56	49	44	58	50	45	40	40	36	32	14
5	60	50	43	38	54	45	39	34	36	31	28	12
6	55	45	38	33	49	40	34	30	32	28	24	11
7	51	40	33	28	46	36	30	26	29	25	21	10
8	47	36	30	25	42	33	27	23	26	22	19	9
9	44	33	27	22	39	30	24	20	24	20	17	8
10	41	30	24	20	37	28	22	18	22	18	15	7

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Test Date 11/30/99