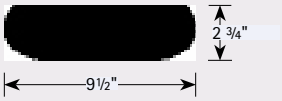
SOLARIS

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

FEATURES

- Optional distribution covers allow the designer to maintain a single look throughout a facility while varying the light distribution
- Direct/Indirect distribution
- T8, T5, or T5HO lamps
- Heavy 20-gauge steel construction provides excellent housing rigidity
- Controls compatible
- Adjustable 48" (CM48) aircraft cable yoke hanger with vertical and horizontal balancing
- Patented die cast couplers and end caps ensure straight rows with no light leak
- Fixed louver stays in housing, even if fixture is struck or damaged
- Popular for educational and general office commercial facilities, also excellent for retail

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name | Type

Catalog No. | Date

CONSTRUCTION

—4', 8', and 12' housings

—Reinforcement provided to ensure 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 attach securely 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 1½" high and provides maximum efficiency and a glare-free environment. The aluminum finish will remain dust and fingerprint free.

—Specular aluminum is available (LS). A variety of lenses are available with the Solaris.

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

MOUNTING

CM- Solaris 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.

PM—Rigid stems available

WM—Mounts directly to and is flush with the wall

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.

CONTROLS COMPATIBILITY

Controls compatible. When used with Occupancy Sensors, most lamp vendors recommend Program Rapid Start (EP) to extend lamp life. Common control schemes: Switching (IB/OB or L/R), 0-10V Dimming ballast (ED). Compatibility with specific control (example, dimmer switch) is by others.

Name:	SLS-2T8-LD-E
Test #:	12479
Efficiency:	92.9%
LER:	76

ORDERING INFORMATION

EXAMPLE: SLS-8-2T8-CM48-LD-EU-MW-LR

SLS - - - - - - - -

MODEL

SLS Solaris

ROW LENGTH

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

Note: Rows over 12' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

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

MOUNTING METHOD

CM Adjustable Aircraft Cable Mount (Std.)
PM Pendant Mount
WM Wall Mount

SHIELDING

LD Low Iridescent Semi-Specular Louver (Std.)
LS Low Iridescent Specular Louver
LD18 Low Iridescent Semi-Specular 18-Cell Louver
LS18 Low Iridescent Specular 18-Cell Louver
WL White Louver
A12 Pattern 12 Acrylic Lens
A19 Pattern 19 Acrylic Lens
MA Matte Anodized Louver

VOLTAGE

U 120V-277V
120 120V
277 277V
347 347V[4]

FINISH

MW Matte White (Std.)
ZT ZET Metallic Silver

See Color Selection Guide for other colors.

DISTRIBUTION

Blank 60% Uplight, 40% Downlight
0/100 0% Uplight, 100% Downlight[2,6]
20/80 20% Uplight, 80% Downlight[2,6]
40/60 40% Uplight, 60% Downlight[2,6]
85/15 85% Uplight, 15% Downlight[2,6]
CLC Center Lamp Cover for A/V Mode[2,6]
100/0 100% Uplight, No Downlight (Fully Direct, No Louver)

SUSPENSION LENGTH

18 18"
24 24"
36 36"
48 48"
96 96"

N/A for WM and SM. Other lengths available on request.

BALLAST

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
ELW Electronic T8, Low Wattage, Instant Start
EPLW Electronic T8, Low Wattage, Programmed Start

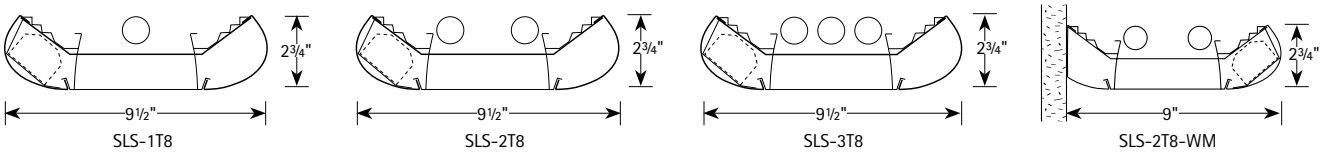
Unless specified, Alera will use fewest ballasts possible.

OPTIONS

DC Dust Cover (N/A T5HO)[2, 6]
BN Bull Nose End Cap[6]
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
FO841 With T8 4100K Lamp Installed
F5841 With T5/T5HO 4100K Lamp Installed
FO835 With T8 3500K Lamp Installed
F5835 With T5/T5HO 3500K Lamp Installed

[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] Ships separately.

CROSS SECTION



PHOTOMETRIC DATA

LUMINAIRE DATA Test I2436

Luminaire	SLS-3T8-LD-EB8 Solaris Architectural Curve 9" × 48" 3 LAMP WITH 1 × 11 CELL SEMI-SPECULAR LOUVER
Ballast	B332I120RH-A
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	89
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

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

COEFFICIENTS OF UTILIZATION (%)

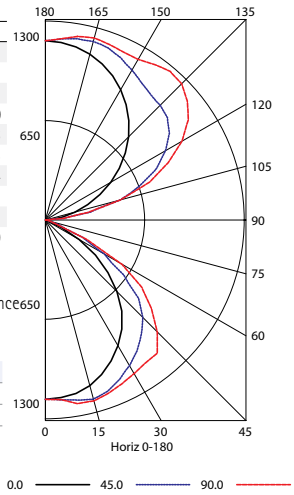
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	86	82	79	76	78	75	72	70	62	60	58	31
	2	78	72	67	63	71	66	62	58	54	51	49	27
	3	72	64	58	53	65	58	53	49	48	45	41	23
	4	66	56	50	45	60	52	46	42	43	39	35	20
	5	60	50	43	38	55	46	40	36	38	34	31	18
	6	55	45	38	33	50	41	35	31	35	30	27	15
	7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

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

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

INDOOR CANDELA PLOT



Test Date 2/3/00

PHOTOMETRIC DATA

LUMINAIRE DATA Test 12479

Luminaire	SLS-2T8-LD-EB8 Solaris Architectural Curve 9" × 48" 2 LAMP WITH 1 × 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.)

Angle	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

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	611	10.5	11.3
0-40	995	17.2	18.5
0-60	1774	30.6	32.9
0-90	2005	34.6	37.2
90-120	1161	20.0	21.5
90-130	1754	30.2	32.5
90-150	2745	47.3	50.9
90-180	3385	58.4	62.8
0-180	5390	92.9	100.0

COEFFICIENTS OF UTILIZATION (%)

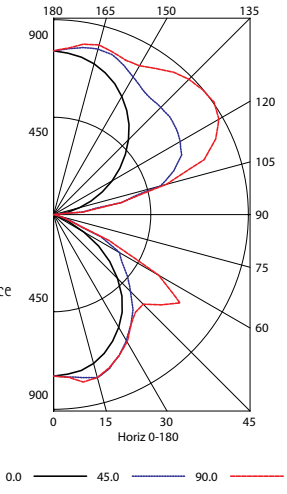
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	89	85	82	79	80	77	74	72	63	61	59	30
	2	81	75	69	65	73	68	63	60	55	52	49	26
	3	74	66	59	54	67	60	54	50	49	45	42	22
	4	68	58	51	46	61	53	47	42	43	39	36	19
	5	62	52	44	39	56	47	41	36	39	34	31	16
	6	57	46	39	34	52	42	36	31	35	30	27	14
	7	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

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

ENERGY DATA

Total Luminaire Efficiency	92.9%
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



Test Date 4/4/2000

PHOTOMETRIC DATA

LUMINAIRE DATA Test 12486

Luminaire	SLS-2T885/15-LD-EB8 Solaris Architectural Curve 9" x 48" 2L W/ 1X11 CELL SEMI-SPEC LOUVER & DOWNLIGHT SCREEN
Ballast	RCN-2P32-SC
Ballast Factor	1.00
Lamp	F32T8
Lumens per Lamp	2900
Watts	63
Mounting	Pendant
Shielding Angle	0° = 21 90° = 24
Spacing Criterion	0° = 1.08 90° = 1.16
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	535	535	535	535	535
30	525	644	763	679	644
40	513	713	618	558	558
45	502	729	556	551	556
50	493	677	529	547	558
55	473	593	519	553	566
60	443	496	512	558	573
65	407	452	515	578	614
70	368	424	514	648	681
75	325	398	590	738	767
80	308	418	682	902	946
85	307	526	1008	1402	1534

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	273	4.7	5.5
0-40	421	7.3	8.5
0-60	636	11.0	12.8
0-90	685	11.8	13.8
90-120	1389	23.9	27.9
90-130	2142	36.9	43.0
90-150	3437	59.3	69.0
90-180	4295	74.1	86.2
0-180	4980	85.9	100.0

COEFFICIENTS OF UTILIZATION (%)

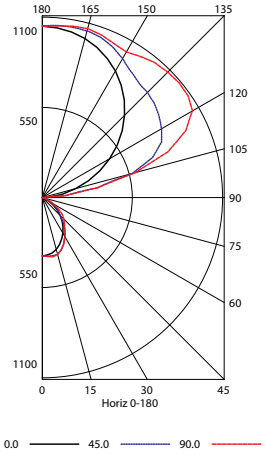
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
	1	77	74	71	68	68	65	62	60	48	46	45	11
	2	71	65	60	56	62	57	53	50	42	40	37	9
	3	64	57	51	47	56	50	45	42	37	34	32	8
	4	59	50	44	40	51	44	39	35	33	30	27	7
	5	54	45	38	34	47	40	34	30	30	26	23	6
	6	50	40	34	29	43	35	30	26	27	23	20	6
	7	46	36	30	25	40	32	27	23	24	20	18	5
	8	42	33	26	22	37	29	24	20	22	18	16	5
	9	39	29	24	19	34	26	21	18	20	16	14	4
	10	37	27	21	17	32	24	19	16	18	15	12	4

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

ENERGY DATA

Total Luminaire Efficiency	85.9%
Luminaire Efficacy Rating (LER)	70
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$3.43 based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 4/28/00