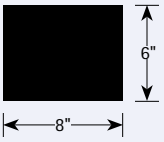
S8

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

FEATURES

- 8"× 6" beam
- Direct/Indirect distribution
- Up to three T8, T5 or T5HO lamps in cross section
- Economical modular steel housing is ideal for budget conscious projects
- Choice of aluminum parabolic louvers, straight bladed louvers, or prismatic lenses
- Different distributions allow flexibility in placement
- Available in a wide assortment of finishes
- Controls compatible
- Excellent for schools, offices or retail environments

SHAPE AND DIMENSIONS



PROJECT INFORMATION

Project Name | Type

Catalog No. | Date

CONSTRUCTION

—All fasteners are concealed and maintained with a minimum amount of tolerance to ensure that fixture integrity is maintained.

—Inner endplates are welded to housing to reinforce the rigidity of the unit.

—End caps are die formed 20 gauge steel and are installed in the field.

FINISH

Standard housing finish is powder coat matte white. Other powder coat finishes are available as an option. Please see the Options section of this binder for more details. End caps and connectors are finished the same as the housing on all painted parts.

SHIELDING

The S8 is available with a parabolic louver, acrylic lens, or a white straight blade baffle.

—Parabolic louvers are constructed of anodized aluminum with either a specular or semi-specular finished. They lift and shift for easy lamp access.

—A variety of lenses are available and are lay-in type.

—The white straight blade baffle (**WCB**) is constructed of steel and finished with a gloss white finish and also is a lay-in type.

MOUNTING

The S8 is designed to be installed with cables or stems or surface mounted. End caps are field installed so the shielding will be continuous in row application. Aligner brackets are provided. When one-lamp or three-lamp symmetric uplight (1U or 3U) units are used a connector box is required between row mounted fixtures. Where patterns or rows are used it is recommended that the factory be provided with a layout diagram.

LABELS AND ELECTRICAL

—UL 1598 or CSA

—Prewired w/ T8, T5, or T5HO electronic ballasts

—Quick connect plugs standard

—Damp label on most models

ORDERING INFORMATION

EXAMPLE: S8-20-2UDT8-CM48-LD-EU-MW-LR

S8 - ___ - ___ - ___ - ___ - ___ - ___ - ___

MODEL

S8	S8

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.

LAMP PROFILE AND DISTRIBUTION

1D	1-Lamp Downlight
2D	2-Lamp Downlight
3D	3-Lamp Downlight
1AD	1-Lamp Asymmetric Downlight
1U	1-Lamp Uplight[1]
2U	2-Lamp Uplight
3U	3-Lamp Uplight[1]
2UD	2-Lamp Uplight & Downlight
2AU	2-Lamp Asymmetric Uplight
2AD	2-Lamp Asymmetric Downlight

LAMP TYPE

T5	T5[2]
T5HO	T5HO[2]
T8	T8

SUSPENSION LENGTH

48	48"
96	96"

Not applicable for surface or wall mount. Other lengths available on request.

MOUNTING METHOD

CM	Adjustable Aircraft Cable
PM	Pendant Mount
SM	Surface Mount (Direct only)

SHIELDING

LD	Low Iridescent Semi-Specular Louver
LS	Low Iridescent Specular Louver
A12	Acrylic Pattern 12 Lens
A19	Acrylic Pattern 19 Lens
CA	Clear Acrylic Lens (No pattern)
OA	Opal Acrylic Lens (No pattern)
WCB	White Cross Baffle
NA	No Shielding

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

Unless specified, Alera will use fewest ballasts possible.

VOLTAGE

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

FINISH

MW	Matte White (Std.)
ZT	ZET Metallic Silver

See MTX-1 for other color selections.

OPTIONS

DC	Dust Cover (T8 or T5 only)
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)

[1] Connector box required on all 1- and 3-lamp uplight units if pendant or cable mounted This option does not permit continuous shielding for all 1- and 3-lamp uplights.

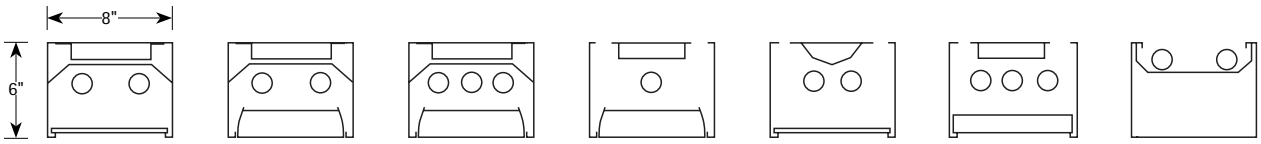
[2] T5/T5HO at risk for socket shadow in downlight component.

[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



2-Lamp Lens Downlight 2D | 2-Lamp Parabolic Downlight 2D | 3-Lamp Parabolic Downlight 3D | 1-Lamp Parabolic Uplight/Downlight 1UD | 2-Lamp Lens Uplight/Downlight 2UD | 3-Lamp White Straight Blade Louver Uplight/Downlight 3UD | 2-Lamp Open Uplight 2U

PHOTOMETRIC DATA

LUMINAIRE DATA Test 8774

Luminaire	S8-3DT12-LD-LE S8 Architectural Beam 8" × 48" DIRECT 3-LAMP WITH SEMI-SPECULAR PARABOLIC LOUVER
Ballast	RQM-2S40, HM-140
Ballast Factor	0.95
Lamp	F40/WW
Lumens per Lamp	3200
Watts	144
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.20 90° = 1.24
Luminous Opening in Feet	Length: 3.92 Width: 0.52 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	10989	10989	10989	10989	10989
30	10232	10396	10421	10585	10640
40	9575	9726	9885	10119	10478
45	9073	9223	9439	9738	9977
50	8289	8560	8790	8864	9201
55	5588	6822	7577	7918	8396
60	1046	1890	5450	6527	7530
65	512	600	1862	4373	5148
70	355	401	525	1482	1806
75	245	286	347	510	592
80	182	213	274	335	395
85	121	182	182	242	364

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1604	16.7	35.7
0-40	2595	27.0	57.7
0-60	4258	44.4	94.7
0-90	4497	46.8	100.0
0-180	4497	46.8	100.0

COEFFICIENTS OF UTILIZATION (%)

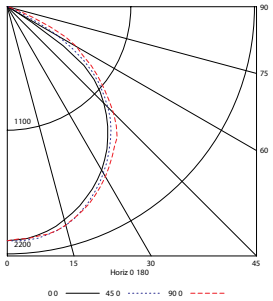
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1		52	50	49	48	51	49	48	47	47	46	45	42
2		48	45	43	40	47	44	42	40	43	41	39	37
3		45	41	37	35	44	40	37	35	39	36	34	32
4		41	36	33	30	40	36	33	30	35	32	30	28
5		38	33	29	26	37	32	29	26	31	28	26	25
6		35	30	26	23	35	29	26	23	29	25	23	22
7		33	27	23	21	32	27	23	21	26	23	21	20
8		31	25	21	19	30	25	21	19	24	21	19	18
9		29	23	19	17	28	23	19	17	22	19	17	16
10		27	21	18	15	26	21	18	15	21	17	15	14

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

ENERGY DATA

Total Luminaire Efficiency	46.8%
Luminaire Efficacy Rating (LER)	N/A
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$N/A based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 11/15/06

PHOTOMETRIC DATA

LUMINAIRE DATA Test 8777

Luminaire	S8-2UDT12-LD-LE S8 Architectural Beam 8" × 48" DIRECT/ INDIRECT 2-LAMP WITH SEMI-SPECULAR PARABOLIC LOUVER
Ballast	RQM-2S40
Ballast Factor	0.95
Lamp	F40/WW
Lumens per Lamp	3200
Watts	92
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.20 90° = 1.57
Luminous Opening in Feet	Length: 3.92 Width: 0.52 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	6231	6231	6231	6231	6231
30	5787	6311	7250	7951	8116
40	5411	6369	7527	7879	8100
45	5108	6348	7304	7647	7923
50	4707	6153	6950	7229	7648
55	3176	5119	6131	6767	7245
60	686	1510	4224	5418	6199
65	337	450	1524	3349	3536
70	247	309	432	1235	1575
75	184	224	286	428	510
80	122	182	213	274	365
85	121	121	182	242	303

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	993	15.5	28.9
0-40	1690	26.4	49.1
0-60	2948	46.1	85.7
0-90	3144	49.1	91.4
0-180	3440	53.7	100.0

COEFFICIENTS OF UTILIZATION (%)

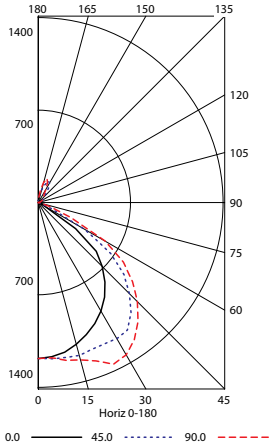
RCR	RC	80				70				50			0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1		59	57	55	53	57	55	53	52	52	50	49	43
2		54	50	47	45	52	49	46	44	46	44	42	38
3		50	45	41	38	48	44	40	37	41	39	36	33
4		46	40	36	33	44	39	35	32	37	34	31	28
5		42	36	32	28	41	35	31	28	33	30	27	25
6		39	32	28	25	38	32	28	25	30	27	24	22
7		36	29	25	22	35	29	25	22	28	24	21	19
8		34	27	22	20	33	26	22	19	25	22	19	17
9		31	25	20	18	30	24	20	17	23	20	17	15
10		29	23	19	16	28	22	18	16	21	18	15	14

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

ENERGY DATA

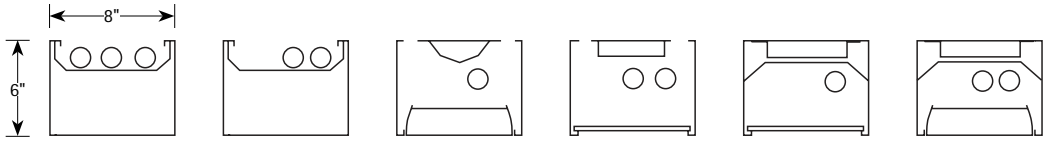
Total Luminaire Efficiency	53.7%
Luminaire Efficacy Rating (LER)	N/A
ANSI/IESNA RP-1-2004 Compliance	YES-VDT Normal Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$N/A based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



Test Date 11/15/06

CROSS SECTION



3-Lamp Open Uplight 3U

2-Lamp Open Asymmetric Uplight 2AU

1-Lamp Parabolic Asymmetric Uplight/Downlight 1AUD

2-Lamp Lens Asymmetric Uplight/Downlight 2AUD

1-Lamp Lens Asymmetric Downlight 1AD

2-Lamp Parabolic Asymmetric Downlight 2AD

PHOTOMETRIC DATA

LUMINAIRE DATA Test 8898

Luminaire	S8-3UDT12-WCB-LE S8 Architectural Beam 8" x 48" DIRECT/ INDIRECT 3-L WITH WHITE STRAIGHT BLADE METAL LOUVER
Ballast	RQM-2S40, HM-140
Ballast Factor	0.95
Lamp	F40/WW
Lumens per Lamp	3200
Watts	144
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 0.92 90° = 1.27
Luminous Opening in Feet	Length: 3.96 Width: 0.57 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	11016	11016	11016	11016	11016
30	7202	7753	8799	10099	10941
40	5285	5839	7240	9163	10396
45	4458	4808	6326	8261	9516
50	4110	4236	5304	7300	8717
55	3791	3933	4440	6427	7923
60	3510	3605	3968	5532	6781
65	3261	3317	3600	4570	5631
70	3026	3053	3249	3932	5075
75	2745	2782	2911	3409	4496
80	2444	2472	2554	2829	3350
85	1751	1806	1860	1860	1970

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	1653	17.2	34.5
0-40	2544	26.5	53.1
0-60	3870	40.3	80.8
0-90	4457	46.4	93.1
90-120	59	0.6	1.2
90-130	108	1.1	2.3
90-150	235	2.4	4.9
90-180	331	3.4	6.9
0-180	4788	49.9	100.0

COEFFICIENTS OF UTILIZATION (%)

RC	80				70				50			0
RW	70	50	30	10	70	50	30	10	50	30	10	0
1	54	52	50	49	53	51	49	48	48	47	45	40
2	50	46	43	41	48	45	42	40	43	41	39	35
3	46	41	38	35	45	40	37	34	38	36	33	30
4	42	37	33	30	41	36	33	30	35	32	29	27
5	39	34	30	27	38	33	29	26	31	28	26	23
6	37	31	26	24	35	30	26	23	29	25	23	21
7	34	28	24	21	33	27	24	21	26	23	21	19
8	32	26	22	19	31	25	21	19	24	21	19	17
9	30	24	20	17	29	23	20	17	22	19	17	16
10	28	22	18	16	27	22	18	16	21	18	16	14

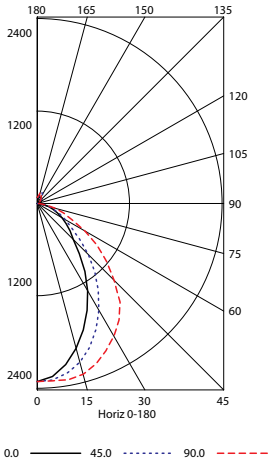
RCR

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

ENERGY DATA

Total Luminaire Efficiency	49.9%
Luminaire Efficacy Rating (LER)	N/A
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	$N/A based on 3000 hrs. and $0.08 per KWH

INDOOR CANDELA PLOT



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