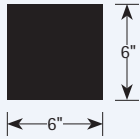



FEATURES

- Attractive 6" x 6" form
- Direct/Indirect distribution
- Up to two lamps T5, T5HO and T8
- Economical modular 20-gauge steel housing is ideal for budget conscious projects
- Choice of aluminum parabolic louvers, straight bladed louvers, or prismatic lenses
- Different optical distributions allow flexibility in placement
- Available in a wide assortment of finishes
- Excellent for office, hallways, and 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. Endcaps 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. Endcaps and connectors are finished the same as the housing on all painted parts.

SHIELDING

The S6 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 finish. They lift and shift for easy lamp access.

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

–The white straight blade baffle is constructed of steel and finished with a gloss white finish and also is a lay-in type.

MOUNTING

–The S6 is designed to be installed with either cables, stems, surface mounted or mounted to the wall with a bracket (see TID).

–Endcaps are field installed so the shielding will be continuous in a row application.

–Aligner brackets are provided.

–Adjustable connectors with top access only can be end mounted as filler pans for flexible row lengths (option suffix -AH).

–When one-lamp symmetric upright (1U) 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

Name:	S6-1DT8-LD-E
Test #:	12263
Efficiency:	55.1%
LER:	47

ORDERING INFORMATION
EXAMPLE: S6-20-2UDT8-CM48-LD-EU-MW-LR

MODEL	LAMP PROFILE AND DISTRIBUTION	LAMP TYPE	SUSPENSION LENGTH	VOLTAGE	FINISH	OPTIONS
S6 S6	1D 1-Lamp Downlight 2D 2-Lamp Downlight	T5 T5 ² T5HO T5HO ²	48 48" 96 96"	U 120V-277V 120 120V 277 277V 347 347V	MW Matte White (Std.) ZT ZET Metallic Silver See MTX-1 for other color selections.	DC Dust Cover (N/A T5HO) LR Left/Right Switching (2-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	1U 1-Lamp Uplight ¹ 2U 2-Lamp Uplight 1AD 1-Lamp Asymmetric Downlight 1AU 1-Lamp Asymmetric Uplight 1UD 1-Lamp Uplight & Downlight ¹ 2UD 2-Lamp Uplight & Downlight 1AUD 1-Lamp Asymmetric Uplight & Downlight	T8 T8	Not applicable for surface mount. Other lengths available on request.			
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	SHIELDING	BALLAST		
		CM Adjustable Aircraft Cable PM Pendant Mount SM Surface Mount (Direct only)	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	E Electronic, Instant Start, (Std. for T8) EP Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8) ED Electronic, Dimming (Must specify) Unless specified, Alera will use fewest ballasts possible.		

¹Connector box required on all 1-lamp symmetric upright units if pendant or cable mounted. This option does not permit continuous shielding for all 1-lamp symmetric uprights.

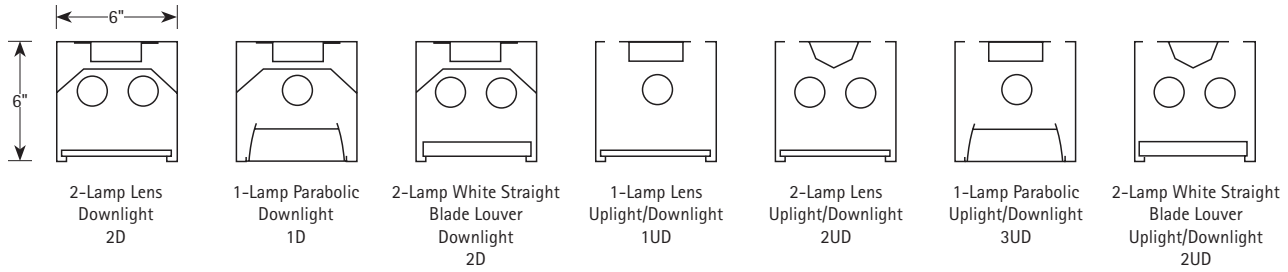
²T5/T5HO at risk for socket shadow in downlight component.

³Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).

⁴Not available with all configurations; some limitations apply. Contact factory for details.

⁵One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

CROSS SECTION



PHOTOMETRIC DATA

LUMINAIRE DATA Test 8785

Luminaire	S6-1DT12-WCB-LE S6 Architectural Beam 6" x 48" DIRECT 1-LAMP W/WHITE STRAIGHT BLADE METAL LOUVER
Ballast	HM-140
Ballast Factor	0.95
Lamp	F40/WW
Lumens per Lamp	3200
Watts	52
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 0.91 90° = 1.20
Luminous Opening in Feet	Length: 3.92 Width: 0.40 Height: 0.00

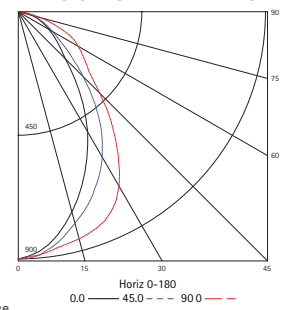
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	6116	6116	6116	6116	6116
30	3963	4135	4794	5446	5752
40	2848	3149	3823	4373	4675
45	2326	2585	3219	3748	4036
50	2072	2178	2664	3172	3531
55	1907	1979	2204	2891	3436
60	1753	1821	1957	2691	3425
65	1624	1672	1785	2460	3377
70	1510	1530	1609	2027	2881
75	1392	1392	1444	1654	2205
80	1252	1252	1252	1291	1252
85	1014	1014	936	858	858

COEFFICIENTS OF UTILIZATION (%)

RC	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0			
1	55	53	51	50	54	52	51	49	50	49	47	44	44			
2	51	47	45	42	50	47	44	42	45	43	41	38	38			
3	47	43	39	36	46	42	38	36	40	38	35	33	33			
4	44	38	34	31	43	38	34	31	37	33	31	29	29			
5	41	35	31	28	40	34	30	28	33	30	27	26	26			
6	38	32	28	25	37	31	27	25	30	27	24	23	23			
7	35	29	25	22	34	29	25	22	28	25	22	21	21			
8	33	27	23	20	32	27	23	20	26	22	20	19	19			
9	31	25	21	18	30	25	21	18	24	21	18	17	17			
10	29	23	19	17	29	23	19	17	22	19	17	16	16			

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	625	19.5	39.0
0-40	951	29.7	59.3
0-60	1395	43.6	87.0
0-90	1603	50.1	100.0
0-180	1603	50.1	100.0

ENERGY DATA

Total Luminaire Efficiency	50.1%
Luminaire Efficacy Rating (LER)	N/A
ANSI/IESNA RP-1-2004 Compliance	Yes-VDT Intensive Use
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$N/A based on 3000 hrs. and \$0.08 per KWH

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

Test Date 10/24/07

PHOTOMETRIC DATA

LUMINAIRE DATA Test 8797

Luminaire	S6-1DT12-A12-LE S6 Architectural Beam 6" x 48" DIRECT 2-LAMP LUMINAIRE WITH ACRYLIC A12 LENS
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° = 1.21 90° = 1.06
Luminous Opening in Feet	Length: 3.92 Width: 0.40 Height: 0.00

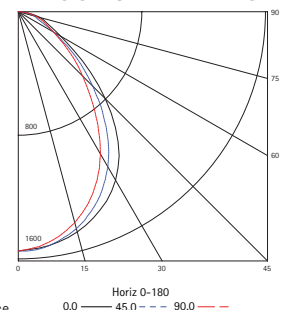
AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	10519	10519	10519	10519	10519
30	9879	9644	9094	8576	8333
40	8676	8312	7522	6804	6493
45	7650	7304	6564	5872	5670
50	6459	6206	5603	5096	4926
55	5201	5142	4573	4289	4158
60	4308	4186	3602	3642	3574
65	3811	3377	2846	3184	3296
70	3715	3000	2563	2921	3239
75	3833	2941	2809	2809	3256
80	3522	3013	2935	2857	3092
85	3431	3119	2963	2651	2651

COEFFICIENTS OF UTILIZATION (%)

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

INDOOR CANDELA PLOT



ZONAL LUMEN SUMMARY

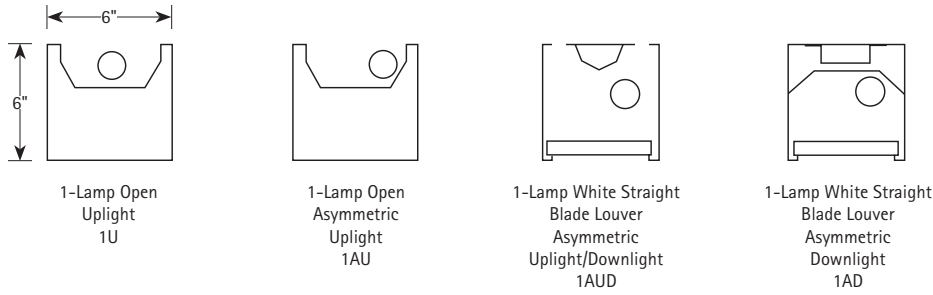
Zone	Lumens	% Lamp	% Fixt.
0-30	1141	17.8	37.7
0-40	1774	27.7	58.6
0-60	2662	41.6	87.9
0-90	3028	47.3	100.0
0-180	3028	47.3	100.0

ENERGY DATA

Total Luminaire Efficiency	47.3%
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

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

Test Date 10/24/07

CROSS SECTION

PHOTOMETRIC DATA
LUMINAIRE DATA Test 8824

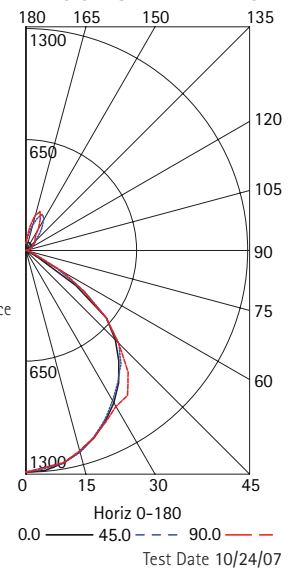
Luminaire	S6-2UDT12-LD-LE S6 Architectural Beam 6" x 48" DIRECT/ INDIRECT 2-LAMP WITH SEMI-SPECULAR PARABOLIC
Ballast	RQM-2S40
Ballast Factor	0.95
Lamp	F40/WW
Lumens per Lamp	3200
Watts	92
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.18 90° = 1.22
Luminous Opening in Feet	Length: 3.92 Width: 0.35 Height: 0.00

AVG. LUMINANCE (Candela/Sq. M.)

Angle	0.0	22.5	45.0	67.5	90.0
0	10183	10183	10183	10183	10183
30	9340	9258	9204	9421	9557
40	8685	8654	8879	9432	9545
45	8221	8233	8565	8399	8510
50	7518	7665	7531	7238	7506
55	4910	5608	5731	5594	5635
60	1318	2103	3279	3530	3954
65	668	705	1188	1541	1225
70	482	482	551	688	734
75	333	364	394	485	515
80	226	271	316	361	407
85	180	180	180	270	270

COEFFICIENTS OF UTILIZATION (%)

RCR	RW	80				70				50				0			
		70	50	30	10	70	50	30	10	50	30	10	0	30	10	0	
1	51	49	48	47	49	48	46	45	45	44	43	37					
2	47	44	42	40	46	43	41	39	40	39	37	32					
3	44	40	37	34	42	39	36	33	36	34	32	28					
4	41	36	32	30	39	35	32	29	33	30	28	25					
5	38	32	29	26	36	32	28	26	30	27	25	22					
6	35	29	26	23	34	29	25	23	27	24	22	20					
7	32	27	23	21	31	26	23	20	25	22	20	18					
8	30	25	21	18	29	24	21	18	23	20	18	16					
9	28	23	19	17	27	22	19	16	21	18	16	14					
10	27	21	17	15	26	20	17	15	20	17	15	13					

INDOOR CANDELA PLOT

ZONAL LUMEN SUMMARY

Zone	Lumens	% Lamp	% Fixt.
0-30	977	15.3	32.3
0-40	1581	24.7	52.2
0-60	2524	39.4	83.3
0-90	2624	41.0	86.7
90-120	63	1.0	2.1
90-130	120	1.9	4.0
90-150	280	4.4	9.3
90-180	404	6.3	13.3
0-180	3028	47.3	100.0

ENERGY DATA

Total Luminaire Efficiency	47.3%
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