

Quest

**FEATURES**

- Honeycombed embossed aluminum housing provides a contemporary appearance
- Direct Distribution
- Available with T8, T5, or T5HO lamps for maximum light output
- Anodized aluminum is 95% reflective resulting in extremely high efficiencies with a wide batwing distribution
- Controls compatible
- Modular mounting points for convenient hanging locations
- Available with a solid or perforated housing
- Available unshielded or with a choice of three different louvers
- High efficiencies with fast, friendly installation make the unit ideal for retail environments

**PROJECT INFORMATION**

Project Name	Type
Catalog No.	Date

**CONSTRUCTION**

—The housing is constructed of sheet based anodized aluminum, which is anodized on both sides. An embossed honeycomb pattern provides additional strength to the three-piece die formed housing.

—The ballast cover is constructed of galvanized steel and is attached with two fasteners that are shielded from a normal viewing angle.

—Injection molded end caps and couplers attach with screws. Couplers placed between fixtures in rows finish seams and ensure straight alignment.

**FINISH**

The housing's anodized aluminum inner reflector has a specular finish and a total reflectance of 95%. Stone gray molded end caps and couplers compliment the aluminum housing.

**SHIELDING**

—The optional parabolic louver (LD) is constructed of matte anodized semispecular aluminum.

—This eleven-cell louver measures 1½" high and provides maximum efficiency and a glare-free environment.

—A curved, straight blade louver is available in either white (WCB) or silver (SCB).

**MOUNTING**

Quest is designed for ceiling suspension and is shipped with an aircraft cable ceiling suspension mechanism. The aircraft cable assembly is totally adjustable. A barrel at the end of the cable screws into a ¼-20 bolt brought down through the ceiling. All fixtures must be supported at each fixture joint.

**LABELS AND ELECTRICAL**

—UL 1598 or CSA

—Prewired with T8, T5 and T5HO electronic ballasts

—Quick connect plugs standard

—Damp label most models

Name:	QST-2T8-S-E
Test #:	12493
Efficiency:	86.6%
LER:	79

**ORDERING INFORMATION**
**EXAMPLE: QST-16-S-2T8-CM48-EU-AL-LR**

MODEL	HOUSING TYPE	MOUNTING	SHIELDING	VOLTAGE	FINISH
QST Quest	S Solid PERF Perforated	CM Adjustable Aircraft Cable Mount (Std.) SM Surface Mount	Blank Unshielded (Std.) LD Low Iridescent Semi-Specular (Std.) WCB White Cross Baffle SCB Silver Cross Baffle	U 120V-277V 120 120V 277 277V 347 347V	AL Mill Finish Aluminum (Std.)  If other color desired contact factory. Both inside and outside must be painted the same.
ROW LENGTH	LAMP TYPE AND PROFILE	ADJUSTABLE CABLE LENGTH	BALLAST	OPTIONS	
4 4' Single 8 8' Single — Indicate row length over 8' in 4' increments	1T5 One T5 Lamp <sup>1</sup> 2T5 Two T5 Lamps <sup>1</sup> 1T5HO One T5HO Lamp <sup>1</sup> 2T5HO Two T5HO Lamps <sup>1</sup> 1T8 One T8 Lamp 2T8 Two T8 Lamps	48 48" 96 96" Not applicable for surface mount. Other lengths available on request.	E Electronic, Instant Start, (Std. for T8) EP Electronic, Programmed Start (Std. for T5 and T5HO, optional for T8) ED Electronic, Dimming (Must specify) ESD Electronic, Step Dimming Unless specified, Alera will use fewest ballasts possible.	LR Left/Right Switching (2-Lamp only) EL One Emergency Battery Pack <sup>2,3</sup> EMC One Emergency Circuit <sup>3,4</sup> NL Night Light Circuit <sup>2,4</sup> 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)	

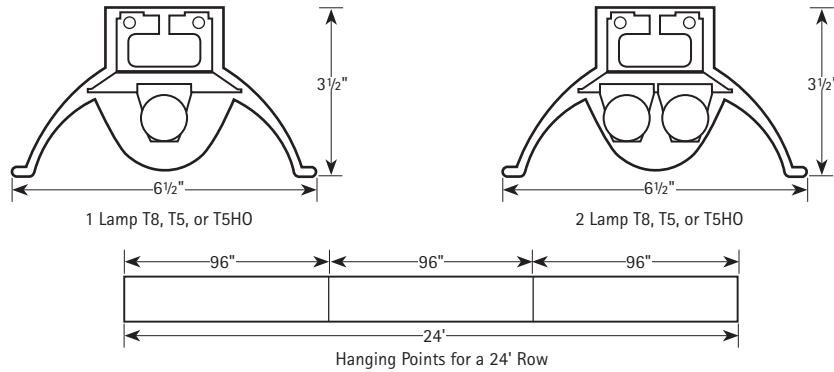
Note: Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

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

<sup>2</sup> Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL120).

<sup>3</sup> Not available with all configurations; some limitations apply. Contact factory for details.

<sup>4</sup> One extra feed drop per row with through wiring. (Standard is one 4ft lamp per circuit.)

**CROSS SECTION**

**PHOTOMETRIC DATA**
**LUMINAIRE DATA Test 12493**

Luminaire	QST-2T8-S-EB8
Quest Architectural Curve	
6" X 48" 2 LAMP WITH MIRROR3 REFLECTOR	
Ballast	REL-2P32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	56
Mounting	Pendant
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.27 90° = 1.53
Luminous Opening in Feet	Length: 4.00 Width: 0.46 Height: 0.00

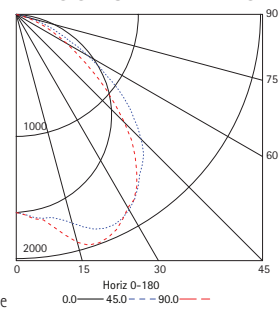
**AVG. LUMINANCE (Candela/Sq. M.)**

Angle	0.0	22.5	45.0	67.5	90.0
0	9494	9494	9494	9494	9494
30	9329	11044	12476	12416	12341
40	9202	11883	12257	11867	11562
45	9125	11946	11946	10937	10366
50	8992	11768	11149	9383	8782
55	8802	11341	9730	7690	7027
60	8576	10928	7933	6049	5593
65	8278	9786	6049	4706	4319
70	7868	7800	4516	3284	2891
75	7323	5334	2871	1356	949
80	6435	3133	505	34	34
85	4229	201	0	0	0

**COEFFICIENTS OF UTILIZATION (%)**

RC	80				70				50				0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1	95	92	89	86	93	90	87	84	86	84	82	75	
2	87	81	76	71	85	79	74	70	76	72	69	64	
3	80	72	65	60	78	70	64	59	68	63	58	55	
4	74	64	57	51	72	63	56	51	60	55	50	47	
5	68	57	50	44	66	56	49	44	54	48	43	41	
6	63	51	44	39	61	51	44	38	49	43	38	36	
7	58	47	39	34	56	46	39	34	45	38	34	32	
8	54	42	35	30	53	42	35	30	41	35	30	28	
9	50	39	32	27	49	38	32	27	37	31	27	25	
10	47	36	29	25	46	35	29	25	35	29	24	23	

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

**INDOOR CANDELA PLOT**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixt.
0-30	1482	25.6	29.5
0-40	2510	43.3	50.0
0-60	4351	75.0	86.6
0-90	5022	86.6	100.0
0-180	5022	86.6	100.0

**ENERGY DATA**

Total Luminaire Efficiency	86.6%
Luminaire Efficacy Rating (LER)	79
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.04 based on 3000 hrs. and \$0.08 per KWH

Test Date 5/1/00

**PHOTOMETRIC DATA**
**LUMINAIRE DATA Test 12505**

Luminaire	QST-1T8-S-EB8
Quest Architectural Curve	
6" x 48" 1 LAMP WITH MIRROR3 REFLECTOR	
Ballast	RCN-1S32-SC
Ballast Factor	0.88
Lamp	F32T8
Lumens per Lamp	2900
Watts	33
Mounting	Pendant
Shielding Angle	0° = 0 90° = 12
Spacing Criterion	0° = 1.24 90° = 1.40
Luminous Opening in Feet	Length: 3.58 Width: 0.32 Height: 0.00

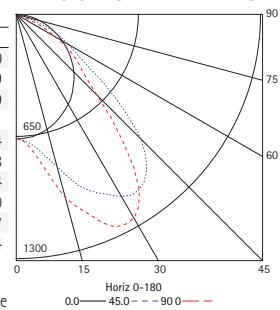
**AVG. LUMINANCE (Candela/Sq. M.)**

Angle	0.0	22.5	45.0	67.5	90.0
0	3879	3879	3879	3879	3879
30	3735	5472	7559	8356	8464
40	3627	6506	8255	7377	6735
45	3582	6999	7735	5717	5022
50	3504	7381	6234	4323	4114
55	3407	7405	4549	3876	3702
60	3299	6774	3779	3136	2831
65	3170	5122	3128	2159	1869
70	3062	3421	2053	1060	735
75	2938	2645	768	45	23
80	2763	1213	34	0	0
85	1812	67	0	0	0

**COEFFICIENTS OF UTILIZATION (%)**

RC	80				70				50				0
	RW	70	50	30	10	70	50	30	10	50	30	10	0
1	102	98	95	92	99	96	93	90	92	90	87	80	
2	94	87	81	76	91	85	80	76	82	78	74	69	
3	86	77	70	64	84	75	69	64	73	67	63	59	
4	79	68	61	55	77	67	60	55	65	59	54	51	
5	72	61	53	47	70	60	53	47	58	52	47	44	
6	67	55	47	41	65	54	47	41	52	46	41	38	
7	62	50	42	36	60	49	42	36	48	41	36	34	
8	57	45	38	32	56	45	37	32	43	37	32	30	
9	53	41	34	29	52	41	34	29	40	33	29	27	
10	50	38	31	26	49	37	31	26	37	30	26	24	

RCR = Room Cavity Ratio  
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**INDOOR CANDELA PLOT**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixt.
0-30	757	26.1	28.3
0-40	1372	47.3	51.3
0-60	2373	81.8	88.7
0-90	2676	92.3	100.0
0-180	2676	92.3	100.0

**ENERGY DATA**

Total Luminaire Efficiency	92.3%
Luminaire Efficacy Rating (LER)	71
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.38 based on 3000 hrs. and \$0.08 per KWH

Test Date 5/17/00

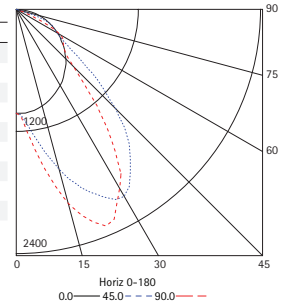
**PHOTOMETRIC DATA**
**LUMINAIRE DATA Test L14826 AVG. LUMINANCE (Candela/Sq. M.)**

Luminaire	QST-1T5HO-S-EB5
	Quest Architectural Curve
	6" x 48" 1 LAMP WITH MIRO3 REFLECTOR
Ballast	QT1X54PHO120
Ballast Factor	1.00
Lamp	
Lumens per Lamp	4500
Watts	58
Mounting	Pendant
Shielding Angle	0° = 0 90° = 0
Spacing Criterion	0° = 1.26 90° = 1.71
Luminous Opening in Feet	Length: 4.00 Width: 0.46 Height: 0.00

Angle	0.0	22.5	45.0	67.5	90.0
0	5967	5967	5967	5967	5967
30	5830	10565	14327	13861	13713
40	5727	12371	13181	10516	9408
45	5700	13154	11450	7669	6594
50	5643	12596	8846	5852	5633
55	5508	12004	6262	5671	5752
60	5522	10507	5347	5721	5932
65	5398	7918	5523	4665	3793
70	5371	5405	4652	1796	770
75	5312	4679	995	45	23
80	5188	2864	34	34	34
85	3625	873	67	67	67

**COEFFICIENTS OF UTILIZATION (%)**

RC	80					70					50					0
	RW	70	50	30	10	70	50	30	10	50	30	10	0	0		
1	110	106	103	99	108	104	101	98	100	97	95	87				
2	102	94	88	83	99	92	87	82	89	84	80	75				
3	93	84	76	70	91	82	75	70	79	73	69	64				
4	86	75	67	60	83	73	66	60	71	64	59	56				
5	79	67	59	52	77	66	58	52	64	57	51	48				
6	73	60	52	46	71	59	51	46	58	51	45	43				
7	68	55	46	40	66	54	46	40	52	45	40	38				
8	63	50	42	36	61	49	41	36	48	41	36	33				
9	59	46	38	32	57	45	38	32	44	37	32	30				
10	55	42	34	29	54	42	34	29	41	34	29	27				

**INDOOR CANDELA PLOT**


RCR = Room Cavity Ratio

RC = Effective Ceiling Cavity Reflectance RW = Wall Reflectance

**ZONAL LUMEN SUMMARY**

Zone	Lumens	% Lamp	% Fixt.
0-30	1394	31.0	31.0
0-40	2419	53.7	53.7
0-60	3971	88.2	88.2
0-90	4501	100.0	100.0
0-180	4501	100.0	100.0

**ENERGY DATA**

Total Luminaire Efficiency	100.0%
Luminaire Efficacy Rating (LER)	78
ANSI/IESNA RP-1-2004 Compliance	Noncompliant
Comparative Yearly Lighting Energy Cost per 1000 Lumens	\$3.08 based on 3000 hrs. and \$0.08 per KWH

Test Date 9/18/07