## **LIGHTOLIER®**

# Alter Concept

**Reinventing Alter** 



# **Alter Concept**



### Lightolier Alter... Inspiring Intelligent Expression

With its innovative designs, vibrant textures and advanced lamping and auto-dimming technologies, Alter Soft Lights offer unprecedented flexibility for creating architectural statements and visually exciting lighting solutions. Alter delivers balanced brightness throughout a space, providing specifiers and designers with unique opportunities to enhance the quality of the visual environment. Experience the freedom of a distinctive and versatile lighting approach driven by modern architecture, with the Inspiring Intelligent Expression of Lightolier Alter luminaires.

# Reinventing Alter: A new dimension of lighting

Introducing Alter Concept...
Less bulk. Less weight.
More functionality.
More performance—up to 92.7% efficient.
And more sustainable lighting
opportunities, especially in shallow and
cluttered plenums.

Luminaires so practical, they could change the way energy-efficient buildings are designed.

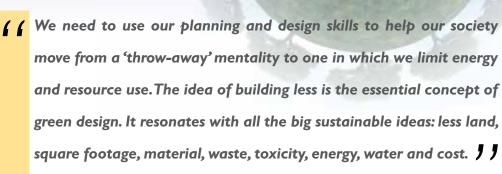
Alter Concept brings together a new generation of low profile luminaires offering Alter hallmark aesthetics in a greener, more compact lighting package. Even pricing has been pared down! Discover Alter Concept... Less lighting hardware. More lighting value.

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# More than just a smaller environmental footprint

When planning lighting designs for the sustainable workplace, consider Alter Concept luminaires to achieve appealing, comfortable, productive surroundings. They combine streamlined lightweight construction, ergonomically sound capabilities and remarkable energy efficiency. In addition, they integrate well into economical lighting concepts and design strategies for sustainable buildings and high-performance spaces.



-The Power of Less, Bill Valentine, FAIA, Chairman, HOK

### **ENERGY EFFICIENCY**

· Maximum lighting performance

Alter luminaires are engineered to yield the highest possible luminous efficacy (lumens per watt) while producing the perfect ratio of balanced brightness, depth and efficiency.

Daylight Harvesting & Occupancy Detection

Available ULM Module includes a choice of plug'n'play, easy-to-adjust light or motion sensors offering automated lighting control and typical energy savings of 15-45% for daylight harvesting and over 30% for occupancy detection. For details, see p. 19.

· Network Lighting Control

Alter Concept luminaires can be equipped with Lightolier iGEN addressable ballasts for integration into building-wide or floor-wide lighting networks.



Up to 92.7% efficiency

More lumens per watt means fewer luminaires are required in any given space. At 92.7% efficiency, Alter Concept Elegance Lens achieves superior lighting output well suited to meeting sustainability objectives and LEED requirements.

## **Alter Concept**

## SUSTAINABLE DESIGN

## Streamlined lightweight construction

With a housing depth of 3-5/8", Alter Concept luminaires are about **30% lighter** than regular Alter models with 5-1/2" housings.

### · Material-saving approach

Alter Concept products, smaller in size and weight, feature less fuel consumption for transportation. Also, they use considerably less steel, a recyclable material, than standard luminaires and less packaging which, incidentally is made of recycled paper.

### · Architectural flexibility

Compact and installation-friendly, Alter Concept luminaires can help reduce floor-to-floor heights and overall building elevation, while minimizing the use of energy and resources.



### **ERGONOMIC LIGHTING**

### · Zero lamp cut-off, zero glare

Alter lamp shields conceal the lamp image, protecting occupants from direct glare and providing balance between reflected and direct light.

## Balanced brightness—Ideal for facial lighting

Alter soft indirect lighting gently washes every surface, enabling clear recognition and interpretation of facial expressions and nonverbal communication.



Proper disposal practices

Alter luminaires use fluorescent lamps that contain small amounts of mercury. Such lamps, labeled "Contains Mercury" and/or with the symbol "Hg", must be disposed of in accordance with local requirements. Information: www.lamprecycle.org.

# More than just a sleeker lighting package

New Alter Concept direct-indirect luminaires include Concept Elegance and Concept SR, both of which offer exclusive features in addition to streamlined housing depths of only 3-5/8".

### Alter Concept Elegance

Featuring improved Glass and Perforated Steel Shielding models, plus a new Lens version with fully enclosed lamp compartment eliminating dust accumulation, ideal for food preparation areas and hospital applications.

### **EXCLUSIVE FEATURES**

Lower Profile: 3-5/8" vs. 5-1/2"

- 3-5/8" depth ideal for restricted ceiling space (standard Alter Classic housing: 5-1/2")
- Suited to sustainable building trend favoring less materials and shallower plenums



### **Cleaner Look**

- Seamless design: seam-free welded forms create pure ceiling lines
- Curved top and side reflectors reveal no gaps or visual barriers
- Only Alter Concept and Alter Classic luminaires offer a seamless reflector design
- Painted after fabrication (PAF) luminaires
- New Solid-Edge lamp shield



**Old version** 



New improved version with Solid-Edge technology and seamless design

## Increased Maintenance Convenience

Tool-free access from below facilitates lamp and ballast replacements\*

\*Some models may require minimal disassembly prior to removing ballast.











# **Alter Concept**

### **Alter Concept SR**

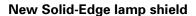
New semi-recessed T5 and T8 versions with microperforated mesh lamp shield.

### ADVANCED CHARACTERISTICS

- Lens, frosted glass and mesh shields designed to conceal lamp image, ensure soft awareness of light source
- Highly efficient reflector features low-gloss, non-yellowing Alter soft white paint finish for balanced brightness between ceiling and walls, eliminating cave effect and hot spots
- Efficient TT5, T5, T5HO and T8 lamps, and new-generation small-can ballasts
- Emergency lighting available. For details, see p. 18.

### **Decorative Elements**

Glass versions of Alter Concept Elegance, including style-matched Alter Elegance Glass Wall, integrate richly textured architectural materials, such as frosted ridged glass and natural satinfinished metal.



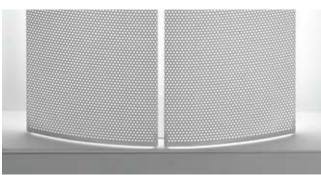
Alter Concept models\* with microperforated mesh lamp shield include new signature Solid-Edge finish for aesthetic visual appearance where shield and reflector meet.

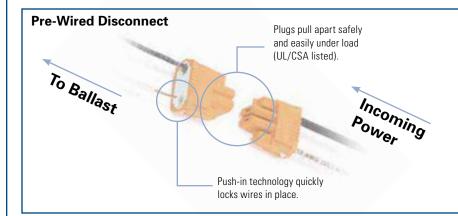
\*Except Alter Concept SR T8

### **Greater Affordability**

Fully automated manufacturing means more cost-effective pricing.



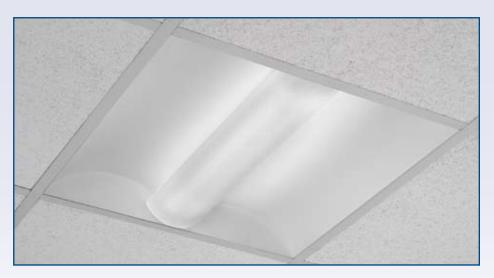




Since June 1, 2007, all Lightolier Alter luminaires bearing fluorescent lamps come complete with a factory installed disconnect device.

This device is installed in luminaires with ballasts that operate at Universal Voltages (UNV: 120V through 277V) and dedicated 347V specifically.

# **Alter Concept Elegance Lens**



The Concept Elegance Lens model takes lighting performance to new levels while delivering Alter's signature soft lighting effect. It features superior efficiency, seamless construction and a contoured enclosed sealed lens that is ideal for food preparation areas and hospital applications. This all-new luminaire belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.

- Efficiencies up to 92.7%
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers
- Shallow design, only 3-5/8" deep for easy installation in shallow plenum
- Painted after fabrication (PAF) luminaire
- New high performance contoured lens conceals lamp image providing balance between reflected and direct light
- · Enclosed and sealed lens suited to most commercial, hospital and institutional applications. Prevents light leaks. Ideal for use in high dust/germ environments (not suitable for clean room applications and other locations requiring specially approved luminaires)
- No tools required to remove lens for easy relamping and maintenance
- Fully recessed luminaire and lamp compartment
- 95% Reflective Alter soft white paint finish
- One-piece body for easy installation
- Easy access to ballast through lamp compartment
- · Can be row mounted
- Fits standard 15/16" T-Grid, Slot T-Grid or drywall ceilings



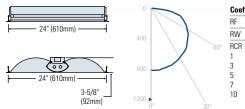
Luminaire Type (Static)		Length	Width	Recessed Depth	Lamp Oty/Type	Wattage	Catalog Number
Alter Concept	1	24"	24"	3-5/8"	1-TT5	40,50,55W	QCE2GOLOP1FT
Elegance Lens		24"	24"	3-5/8"	2-T5H0	24W	QCE2GOLOP224
Enclosed Lens	2	48"	24"	3-5/8"	2-T5	28W	QCE2GOLOP228
Lamp Shield, Static		48"	24"	3-5/8"	2-T5H0	54W	QCE2GOLOP254

### **Numbering System**

Complete Catalog Nº using template below

QCE2GOLOP224	UNV	PG	
_uminaire	Voltage:	Ballast:	Options:
Basic Catalog	347	<b>PG</b> : T5/T5H0	Add appropriate
Number:	UNV*	Electronic	suffix
Alter Recessed		Program Start	See p. 18
Fluorescent		(<10% THD) PR: 40W Electronic T	TE
		Programmed Rap	
		Start (<10% THD	
*120/277V		BE: 50W Electronic	,
		TT5 Rapid Start	
		(<20% THD)	
		BF: 55W Electronic	
		TT5 Rapid Start	
		(<10% THD)	
		DA: Electronic TT5, T	
		T5HO Program St	
		(<10% THD) DAL Digital Addressa	
		Dimming	DIE
		VY: 2 lamp 28W T5	
		Electronic Step-D	im
		Programmed Rap	
		Start (B.F.=0.95/0	.35)

1 2' x 2' Alter Concept Elegance Lens • 2 Lamp 24 watt T5HO • QCE2GOLOP224 (Data) • Request Folio CB782

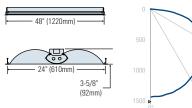


ffic	ient of L	Jtilizatio	on	Reference Data	
	20%	RC	80%	Efficiency	78.1%
	70	50	30	Spacing Ratio	1.4
	.85 .70	.81 .61	.77 .55	Electronic Ballast	
	.58 .49 .38	.48 .38 .28	.40 .31 .21	Input Watts (120V) Ballast Factor	45.4W 1

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	35	0.7
8' x 10' (83 sq ft/luminaire)	28	0.54
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	29	0.9 5

T5HO lamp rated at 1800 lumens

2 2' x 4' Alter Concept Elegance Lens • 2 Lamp 28 watt T5 • QCE2GOLOP228 (Data) • Request Folio CB889



0	Coeffic	ient of L	Jtilizatio	on
	RF	20%	RC	80%
00 \	RW	70	50	30
	60° RCR			
	1	1.0	.96	.91
00	3	.83	.72	.65
°°	5	.69	.56	.48
	7	.58	.45	.37
00	10	.46	.33	.28
0. 30.				

Spacing Ratio 1.4	Efficiency	92.7%
Electronic Pollect	Spacing Ratio	1.4
LIECTIVIIIC Dallast	Electronic Ballact	
	ziootionio zunuot	61 5W
Rallast Factor 1	Electronic Ballast Input Watts (120V)	61.5W

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	60	0.95
8' x 10' (83 sq ft/luminaire)	47	0.74
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	49	1.28

T5 lamp rated at 2600 lumens

# Alter Concept Elegance Glass



Concept Elegance Glass exudes soft lighting presence to bring an air of distinction to architectural decors. This luminaire family features beautifully textured glass panels, seamless construction and includes a new 2x4 version. It belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.

- Efficiencies up to 70.7%
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers
- Shallow design, only 3-5/8" deep for easy installation in shallow plenum
- Painted after fabrication (PAF) luminaire
- Elegant ridged glass lamp shields on hinged aluminum extrusions swing down for easy relamping and maintenance
- Alter soft white film on inside of ridged glass conceals lamp image providing balance between reflected and direct light
- Fully recessed luminaire and lamp compartment
- 95% Reflective Alter soft white paint finish
- One-piece body for easy installation
- Easy access to ballast through lamp compartment
- · Can be row mounted
- Fits standard 15/16" T-Grid, Slot T-Grid or drywall ceilings



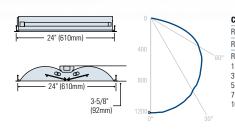
Luminaire Type (Static)	Length	Width	Recessed Depth	Lamp Oty/Type	Wattage	Catalog Number
Alter Concept Elegance Glass	24"	24"	3-5/8"	2-TT5	40,50,55W	QCE2GGLOS2FT
	24"	24"	3-5/8"	2-T5H0	24W	QCE2GGLOS224
Double Glass	48"	24"	3-5/8"	2-T5	28W	QCE2GGLOS228
Lamp Shield, Static	48"	24"	3-5/8"	2-T5H0	54W	QCE2GGLOS254

### **Numbering System**

Complete Catalog Nº using template below

	''''				
QCE2GGLOS2FT	UNV	SB			
uminaire	Voltage:	Ballast:	Options:		
Basic Catalog	347	<b>PG</b> : T5/T5H0	Add appropriate		
Number:	UNV*	Electronic	suffix		
Alter Recessed		Program Start	See p. 18		
Fluorescent		(<10% THD)			
		PR: 40W Electronic T			
		Programmed Rap			
*120/277V		Start (<10% THD) <b>BE:</b> 50W Electronic			
		TT5 Rapid Start			
		(<20% THD)			
		BF: 55W Flectronic			
		TT5 Rapid Start			
		(<10% THD)			
		DA: Electronic TT5, T	5,		
		T5HO Program S			
		(<10% THD) DAL			
		Digital Addressa	ble		
		Dimming			
		VY: 2 lamp 28W T5	1:00		
		Electronic Step-E Programmed Rap			
		Start (B.F.=0.95/0			
		Juli (D.10.33/C			

1 2' x 2' Alter Concept Elegance Glass • 2 Lamp 40 watt TT5 • QCE2GGLOS2FT (Data) • Request Folio CB623

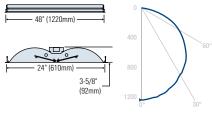


oeffic	ient of L	Jtilizatio	on	Reference Data
F	20%	RC	80%	Efficiency 58.2
W	70	50	30	Spacing Ratio 1.3
CR				, 0
	.64 .53	.61 .48	.59 .43	Electronic Ballast
n	.45 .38 .31	.38 .31 .23	.33 .26	Input Watts (120V) 68.9 Ballast Factor 0.9

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	47	1.06
8' x 10' (83 sq ft/luminaire)	37	0.83
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	40	1.44

TT5 lamp rated at 3150 lumens

2 2' x 4' Alter Concept Elegance Glass • 2 Lamp 28 watt T5 • QCE2GGLOS228 (Data) • Request Folio CD050



RF	20%	RC	80%
RW	70	50	30
RCR			
1	.78	.74	.72
3	.65	.58	.52
5	.54	.45	.39
7	.46	.36	.30
10	.36	.27	.21

Spacing Ratio	1.3
Electronic Ballast	

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	47	0.97
8' x 10' (83 sq ft/luminaire)	37	0.76
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	40	1.31

T5 lamp rated at 2600 lumens

# LIGHTOLIE

# Alter Concept Elegance



Attractive Concept Elegance provides outstanding lighting design statements in offices and public spaces. This luminaire features seamless construction along with the clean look of solid-edge microperforated mesh lamp shields. It belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.

- Efficiencies up to 67.9%
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers
- Shallow design, only 3-5/8" deep for easy installation in shallow plenum
- Painted after fabrication (PAF) luminaire
- New Solid-Edge swing-down microperforated lamp shield for easy relamping and maintenance
- Alter soft white film on inside of mesh conceals lamp image providing balance between reflected and direct light
- Fully recessed luminaire and lamp compartment
- 95% Reflective Alter soft white paint finish
- One-piece body for easy installation
- Easy access to ballast through lamp compartment
- Can be row mounted
- Fits standard 15/16" T-Grid, Slot T-Grid or drywall ceilings



Luminaire Type (Static)	Length	Width	Recessed Depth Oty/Type	Lamp	Wattage	Catalog Number
Alter Concept 1 Elegance	24"	24"	3-5/8"	2-TT5	40,50,55W	QCE2GPFOS2FT
	24"	24"	3-5/8"	2-T5H0	24W	QCE2GPFOS224
Microperforated Mesh Lamp Shield, Static	48"	24"	3-5/8"	2-T5	28W	QCE2GPFOS228
	48"	24"	3-5/8"	3-T5	28W	QCE2GPFOP328**
	48"	24"	3-5/8"	2-T5H0	54W	QCE2GPFOS254

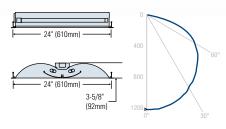
<sup>\*\* 3-</sup>lamp combination only available with one-piece lamp shield

### **Numbering System**

Complete Catalog No using template below

	SERVICE THE PROPERTY OF THE PR		
QCE2GPF0S2FT	UNV	SB	
Luminaire	Voltage:	Ballast:	Options:
Basic Catalog	347	<b>PG</b> : T5/T5H0	Add appropriate
Number:	UNV*	Electronic	suffix
Alter Recessed Fluorescent		Program Start (<10% THD)	See p. 18
Tuorescent		PR: 40W Electronic	TTS
		Programmed Ra	
*120/277V		Start (<10% THI	
120/2//٧		BE: 50W Electronic	
		TT5 Rapid Start	
		(<20% THD)	
		BF: 55W Electronic	
		TT5 Rapid Start	
		(<10% THD) <b>DA:</b> Electronic TT5,	TE
		T5HO Program	•
		(<10% THD) DA	
		Digital Address	
		Dimming	
		<b>VY:</b> 2 lamp 28W T5	
		Flectronic Step-	Dim

1 2' x 2' Alter Concept Elegance 2 Lamp 40 watt TT5 CCE2GPF0S2FT (Data) Request Folio CB727



Coeffici	ient of l	Jtilizati	on	Refere
RF	20%	RC	80%	Efficienc
RW	70	50	30	Spacing
RCR				
1	.61	.59	.57	
3	.51	.46	.41	Electro
5	.43	.36	.31	Input W
7	.37	.29	.24	Ballast
10	.29	.22	.17	ballast

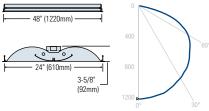
neierence Data	
Efficiency	56.0%
Spacing Ratio	1.3
Electronic Ballast	
Input Watts (120V)	68.5W
Ballast Factor	0.90

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	45	1.06
8' x 10' (83 sq ft/luminaire)	36	0.82
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	39	1.43

Programmed Rapid Start (B.F.=0.95/0.35)

TT5 lamp rated at 3150 lumens

2 2' x 4' Alter Concept Elegance • 2 Lamp 28 watt T5 • QCE2GPFOS228 (Data) • Request Folio CD076



	Coeffic	ient of L	Jtilizatio	on
	RF	20%	RC	80%
	RW	70	50	30
60°	RCR			
	1	.74	.71	.69
\	3	.62	.55	.50
	5	.52	.43	.37
	7	.44	.34	.28
	10	.34	.25	.19

Efficiency	67.9%
Spacing Ratio	1.3
Electronic Pollect	
Flectronic Ballast	
ziootionio zunuot	65 NV
Electronic Ballast Input Watts (120V) Ballast Factor	65.0V

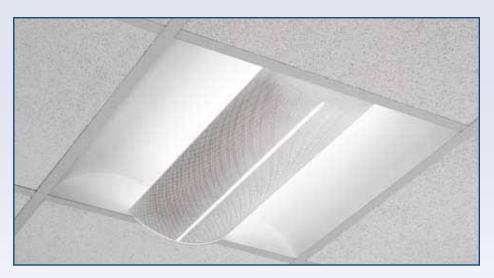
Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	45	1.00
8' x 10' (83 sq ft/luminaire)	35	0.78
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	38	1.35

T5 lamp rated at 2600 lumens

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# LIGHTOLI

# **Alter Concept SR T5**



Subtle presence at the ceiling line and classy styling make Concept SR T5 a visually pleasing option for halls, corridors and other spaces. This all-new semi-recessed luminaire features seamless construction along with the clean look of solid-edge microperforated mesh lamp shields. It belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.

- Efficiencies up to 77.5%
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers
- Shallow design, only 3-5/8" deep for easy installation in shallow plenum
- Painted after fabrication (PAF) luminaire
- New Solid-Edge swing-down microperforated lamp shield for easy relamping and maintenance
- Alter soft white film on inside of mesh conceals lamp image providing balance between reflected and direct light
- Semi-recessed luminaire and lamp compartment
- 95% Reflective Alter soft white paint finish
- One-piece body for easy installation
- Easy access to ballast through lamp compartment
- · Can be row mounted
- Fits standard 15/16" T-Grid, Slot T-Grid or drywall ceilings



Luminaire Type (Static)	Length	Width	Recessed Depth	Lamp Oty/Type	Wattage	Catalog Number
Alter Concept SR T5 1 Microperforated Mesh Lamp Shield, Static	24"	24"	3-5/8"	2-TT5	40,50,55W	QCH2GPFOS2FT
	24"	24"	3-5/8"	2-T5H0	24W	QCH2GPFOS224
	24"	24"	3-5/8"	3-T5H0	24W	QCH2GPFOP324**
2	48"	24"	3-5/8"	2-T5	28W	QCH2GPFOS228
	48"	24"	3-5/8"	3-T5	28W	QCH2GPFOP328**
	48"	24"	3-5/8"	2-T5H0	54W	QCH2GPFOS254

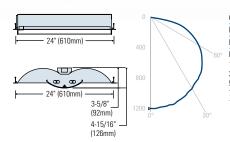
<sup>\*\*3-</sup>lamp combination only available with one-piece lamp shield

### **Numbering System**

Complete Catalog No using template below

complete catalog i	· doing tompiato	DOIGHT	
QCH2GPF0S2FT	UNV	SB	
Luminaire Basic Catalog Number: Alter Semi-Recessed Direct/Indirect Fluorescent *120/277V	Voltage: 347 UNV*	Ballast: PG: T5/T5H0 Electronic Program Start (<10% THD) PR: 40W Electronic Programmed Ra Start (<10% TH] BE: 50W Electronic TT5 Rapid Start (<20% THD) BF: 55W Electronic TT5 Rapid Start (<10% THD) DA: Electronic TT5, T5H0 Program (<10% THD) DA Digital Address Dimming VY: 2 lamp 28W T5 Electronic Step- Programmed Ra Start (B.F.=0.95)	pid D) T5, Start LI able Dim pid

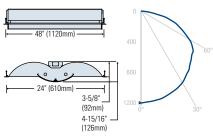
1 2' x 2' Alter Concept SR T5 2 Lamp 40 watt TT5 CCH2GPF0S2FT (Data) Request Folio CB634



Coefficient of Utilization		Reference Data			
RF	20%	RC	80%	Efficiency	58.2%
RW	70	50	30	Spacing Ratio	1.3
RCR 1 3	.63 .53	.61 .47	.58 .42	Electronic Ballast	
5 7 10	.45 .38 .30	.37 .30 .22	.32 .25 .17	Input Watts (120V) Ballast Factor	70.7W 0.90

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	47	1.09
8' x 10' (83 sq ft/luminaire)	37	0.85
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	39	1.47
TT5 lamp rated at 3150 lum	ens	

2 2' x 4' Alter Concept SR T5 • 2 Lamp 28 watt T5 • QCH2GPFOS228 (Data) • Request Folio CD079



RF	20%	RC	80%
RW	70	50	30
RCR			
1	.78	.75	.72
3	.65	.57	.51
5	.54	.45	.38
7	.45	.36	.29
10	.36	.26	.20

Reference Data	
Efficiency	71.49
Spacing Ratio	1.3
Electronic Ballast	
Electronic Ballast Input Watts (120V)	67.5V

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	47	1.04
8' x 10' (83 sq ft/luminaire)	37	0.81
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	39	1.41

T5 lamp rated at 2600 lumens



Subtle presence at the ceiling line and classy styling make Concept SR T8 a visually pleasing option for halls, corridors and other spaces. This all-new semi-recessed luminaire features T8 affordability and seamless construction, along with the clean look of microperforated mesh lamp shields. It belongs to the Alter Concept collection of sustainable lighting elements, offering cost-effective lighting in a lightweight, low-profile design ideal for shallow plenums, modern interiors and green buildings.

- Efficiencies up to 70.5%
- Seamless welded form: curved top and side reflectors are formed together without any gaps or visual barriers
- Painted after fabrication (PAF) **luminaire**
- Cost-effective T8 solution with shallow design, only 3-5/8" deep for easy installation in shallow plenum
- One-piece swing-down microperforated lamp shield for easy relamping and maintenance
- · Alter soft white film on inside of mesh conceals lamp image providing balance between reflected and direct light
- Semi-recessed luminaire and lamp compartment
- 95% Reflective Alter soft white paint finish
- One-piece body for easy installation
- Easy access to ballast through lamp compartment
- Not suitable for row mounting
- Fits standard 15/16" T-Grid, Slot T-Grid or drywall ceilings



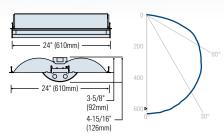
Luminaire Type (Static)	Length	Width	Recessed Depth	Lamp Qty/Type	Wattage	Catalog Number
Alter Concept SR T8 1	24"	24"	3-5/8"	2-T8	17W	QCJ2GPF0P217
Microperforated Mesh	48"	24"	3-5/8"	2-T8	32W	QCJ2GPF0P232
Lamp Shield, Static	48"	24"	3-5/8"	3-T8	32W	QCJ2GPF0P332

### **Numbering System**

Complete Catalog Nº using template below

	9			
QCJ2GPF0P217	UNV	HI		
Luminaire	Voltage:	Ballast:	Options:	
Basic Catalog	347	SO: Electronic T8	Add appropriate	
Number:	UNV*	Instant Start	suffix	
Alter		(<20% THD)	See p. 18	
Semi-Recessed		RO: Electronic T8		
Fluorescent		Rapid Start		
		(<10% THD)		
*120/277V		HI: Electronic T8 Ins	tant	
120/2/14		Start (<10% THE		
		03: 3 lamp Electroni	ic T8	
		Instant Start		
		(<20% THD)		
		H3: 3 lamp Electroni	ic T8	
		Instant Start		
		(<10% THD)		
		DA: Electronic T8 Program		
		Start (<10% THD)		
		DALI Digital		
		Addressable Di		
		V2: 1 or 2 lamp 32W		
		T8 Electronic St	eh-	

1 2' x 2' Alter Concept SR T8 • 2 Lamp 17 watt T8 • QCJ2GPF0P217 (Data) • Request Folio CD103



RF	20%	RC	80%	i
RW	70	50	30	:
RCR				
1	.75	.71	.68	
3	.62	.55	.49	. !
5	.52	.43	.36	
7	.44	.34	.28	
10	.34	.29	.19	

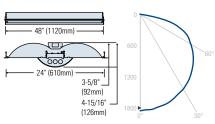
Efficiency	68.6%
Spacing Ratio	1.3
Electronic Ballast	
Electronic Ballast	
Electronic Ballast Input Watts (120V)	31.2W

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	24	0.48
8' x 10' (83 sq ft/luminaire)	19	0.37
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	20	0.65

Dim Rapid Start (B.F.=0.88/0.30)

T8 lamp rated at 1400 lumens

2 2' x 4' Alter Concept SR T8 • 3 Lamp 32 watt T8 • QCJ2GPF0P332 (Data) • Request Folio CB928



RC	
	80%
50	30
.73	.70
.56	.50
.44	.37
.35	.29
.25	.20
	.25

Reference Data	
Efficiency	70.5%
Spacing Ratio	1.3
5	
Electronic Ballast	
	90.7W

Luminaire Spacing	FC*▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	79	1.40
8' x 10' (83 sq ft/luminaire)	62	1.09
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	65	1.89

### T8 lamp rated at 2950 lumens

\*Use 2-lamp or 3-lamp model with a low-watt ballast (BF<0.8) to reduce light levels and W/FT $^2$  (ballast suffix L3)

## Alter Slim SR



This family of slimly profiled luminaires adds beauty and visual interest to the ceiling. With its gently curved architectural details, Alter Slim SR blends into the ceiling perspective. For balanced brightness applications where plenum depth is limited. The optional Alter acrylic plate element brings visual appeal to the ceiling line (see p. 18).

- Efficiencies up to 68.6%
- Shallow design, only 2-1/4" deep for easy installation in shallow plenum (3-9/16" for 1' x 4' version)
- Swing-down microperforated lamp shield for easy relamping and maintenance
- Alter soft white film on inside of mesh conceals lamp image providing balance between reflected and direct light
- Semi-recessed luminaire and lamp compartment
- 95% Reflective Alter soft white paint finish
- One-piece body for easy installation
- Can be row mounted
- Fits standard 15/16" T-Grid, 9/16" slim T-Grid and drywall ceilings





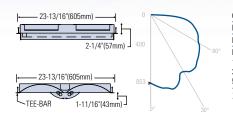
Luminaire Type (Static)	Length	Width	Recessed Depth	Lamp Qty/Type	Wattage	Catalog Number
Alter Slim SR Microperforated Mesh	24"	24"	2-1/4"	1-TT5	40,50,55W	QVH2GPF0S1FT
	24"	24"	2-1/4"	2-TT5	40,50,55W	QVH2GPF0S2FT
White Lamp Shield, Static	48"	24"	2-1/4"	2-TT5	40,50,55W	QVH2GPF0S2FL
	48"	24"	2-1/4"	4-TT5	40,50,55W	QVH2GPF0S4FT
Static	48"	24"	2-1/4"	2-T5	28W	QVH2GPF0S228
	48"	24"	2-1/4"	3-T5	28W	QVH2GPF0S328
	48"	24"	2-1/4"	2-T5H0	54W	QVH2GPF0S254
	48"	24"	2-1/4"	3-T5H0	54W	QVH2GPF0S354
3	48"	12"	3-9/16"	2-TT5	40,50,55W	QVH1GPF0S2FT
	48"	12"	3-9/16"	2-T5	28W	QVH1GPF0S228
	48"	12"	3-9/16"	2-T5H0	54W	QVH1GPF0S254

### **Numbering System**

Complete Catalog No using template below

QVH2GPF0S2FT	120	SB			
Luminaire Basic Catalog Number: Alter Semi-Recessed	Voltage: 347 UNV*	Ballast: PG: T5/T5H0 Electronic Program Start (<10% THD)	Options: Add appropriate suffix See p. 18		
Julia Hossiasa		PR: 40W Electronic TT5 Programmed Rapid			
*120/277V		Start (<10% THD) <b>BE</b> : 50W Electronic  TT5 Rapid Start (<20% THD)			
		BF: 55W Electronic Rapid Start (<10% THD)	TT5		
		DA: Electronic TT5, T5HO Program ( (<10% THD) DA Digital Address Dimming	Start Ll		
		VY: 2 lamp 28W T5 Electronic Step- Programmed Ra Start (B.F.=0.95/	pid		

1 2' x 2' Alter Slim SR • 2 Lamp 40 watt TT5 • QVH2GPF0S2FT (Data) • Request Folio C7651

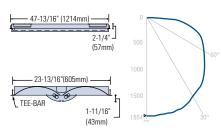


Coefficient of Utilization			Reference Data		
20%	RC	80%	Efficiency	52.6%	
70	50	30	Spacing Ratio	1.5	
.56	.53	.51	. 0		
.46	.40	.35	Electronic Ballast		
.39 .33 .26	.32 .25 .19	.27 .20 .14	Input Watts (120V) Ballast Factor	67.0W 0.85	
	20% 70 .56 .46 .39 .33	20% RC 70 50 .56 .53 .46 .40 .39 .32 .33 .25	20%         RC         80%           70         50         30           .56         .53         .51           .46         .40         .35           .39         .32         .27           .33         .25         .20	20%         RC         80%         Efficiency           70         50         30         Spacing Ratio           .56         .53         .51         Lectronic Ballast           .46         .40         .35         Lectronic Ballast           .39         .32         .27         Input Watts (120V)           .33         .25         .20         Ballast Factor	

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	41	1.10
8' x 10' (83 sq ft/luminaire)	32	0.85
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	33	1.48

TT5 lamp rated at 3150 lumens

2 2' x 4' Alter Slim SR • 4 Lamp 40 watt TT5 • QVH2GPF0S4FT (Data) • Request Folio C8232



Coeffic	ient of L	Jtilizatio	on	Refe
RF	20%	RC	80%	Effici
RW	70	50	30	Spac
RCR				
1	.54	.51	.49	
3	.44	.38	.34	Elec
5	.37	.30	.25	Input
7	.32	.24	.20	Balla
10	.25	.19	.14	Ddlld

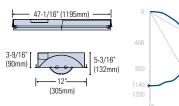
Efficiency	51.1%
Spacing Ratio	1.4
Electronic Ballast	
Electronic Ballast Input Watts (120V)	129.8W

Luminaire Spacing	FC*▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	80	2.00
8' x 10' (83 sq ft/luminaire)	62	1.56
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	64	2.70

### TT5 lamp rated at 3150 lumens

\*Use 2-lamp T5 model (QVH2GPF0S228) to reduce light levels and W/FT<sup>2</sup>

3 1' x 4' Alter Slim SR • 2 Lamp 28 watt T5 • QVH1GPFOS228 (Data) • Request Folio CA811



0		Coeffic	ient of U	J
		RF	20%	
		RW	70	
100	60°	RCR		
		1	.75	
300	\	3	.62	
	$\nearrow$	5	.52	
140		7	.44	
200		10	.34	
0°	30°			

efficient of Utilization			Reference Data	
20%	RC	80%	Efficiency	68.5%
70	50	30	Spacing Ratio	1.4
.75	.72	.69		
.62	.55	.50	Electronic Ballast	
.52	.43	.37	Input Watts (120V)	66.1W
.44	.34	.28	Pollost Footor	1.00
.34	.25	.19	DdildSt FdCtUI	1.00
	20% 70 .75 .62 .52 .44	20% RC 70 50 .75 .72 .62 .55 .52 .43 .44 .34	20% RC 80% 70 50 30 .75 .72 .69 .62 .55 .50 .52 .43 .37 .44 .34 .28	20%         RC         80%         Efficiency           70         50         30         Spacing Ratio           .75         .72         .69         Electronic Ballast           .62         .55         .50         Electronic Ballast           .52         .43         .37         Input Watts (120V)           .44         .34         .28         Ballast Factor

Luminaire Spacing	FC▲	W/Sq FT
50' x 70' x 8.5' Space		
8' x 8' (64 sq ft/luminaire)	45	1.02
8' x 10' (83 sq ft/luminaire)	36	0.79
12' x 16' x 8.5' Space		
6' x 8' (48 sq ft/luminaire)	38	1.38

T5 lamp rated at 2600 lumens

### **OPTIONS**

## Ceiling compatibility for G type luminaires

### **Alter Concept products**

Housing flanges designed for flush-to-ceiling luminaire installation on standard and slot T grid ceilings.

Not suited for flush mounting on slim T-grids.



Same luminaire sits flush with the face of standard or slot T-grid ceilings.





Standard T (15/16")

**Exposed Slot T** 

### Alter Slim SR

Suited for installation on standard and slim T grid ceilings. Not suited for mounting on slot T-Grid ceilings.





## **Drop-Down Visual Element**

Compatible only with Alter Slim SR models. Optional clear polished acrylic drop-down visual element with projected color face. Substitute acrylic suffix in place of open slot.

e.g. QVH2GPF**OS** (OS = Open Slot) QVH2GPF**GR** (GR = Red Acrylic)

Suffix: GC (GC = Clear), GB (GB = Blue), GG (GG = Green), GR (GR = Red).

For other colors or special orders (custom signage), consult your Lightolier representative. Available only on:

Alter Slim SR 2x2

(except for 1-lamp TT5) Page 16

Alter Slim SR 2x4

(except for 2-lamp TT5) Page 16

Alter Slim SR 1x4

(except for 2-lamp TT5) Page 16







## **Internal Fast-Blow Fusing**



Suffix **F** (Canada) or **GLR** (USA) in options box. Consult your Lightolier representative for availability of slow-blow fusing.

## **Emergency Lighting System**

Add appropriate suffix in option box: T8/TT5 models – Canada: Suffix **O** T5/T5HO models - Canada: Suffix **E** T8/TT5/T5/T5HO models - USA: Suffix **EM** 

Factory installed emergency power battery pack with charger and inverter, concealed in luminaire channel. Upon loss of AC power, operates one fluorescent lamp at 20% light output for 90 minutes. 120V, 277V, 347V versions available.

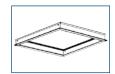


Note: 2x2 Alter Concept luminaires equipped with Emergency Lighting are 5-1/4" deep. 2x4 versions with double-switching are 5-1/4" deep while regular 2x4 versions (1 ballast) are 3-5/8" deep.

### **ACCESSORIES**

## **Drywall Kit**

Extruded aluminum with mitered corners. For use in ceilings requiring flanges. Not for continuous row mounting. Order separately according to luminaire size:



Luminaire Cat. No.		Dimensions for opening			
1x4	FK91X4	12-5/8" x 48-5/8"			
2x2	FK92X2	24-5/8" x 24-5/8"			
2x4	FK92X4	24-5/8" x 48-5/8"			

### **Dust and Germ Guard**

Highly resistant polycarbonate shield hermetically seals the ceiling opening. Heavy duty gasket and 18-gauge steel mounting frame for effective inner ceiling protection against dust and germs. Only available on fully recessed luminaires. Installs on all 1x4, 2x2 and 2x4 T-grid ceilings. Order separately according to luminaire size:

Order separately according to luminality



Luminaire	Cat. No.
1x4	QVS14DG
2x2	QVS22DG
2x4	QVS24DG

## **Hold-Down Clips**

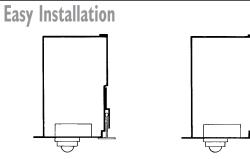
Four clips required per luminaire. Suited to standard 15/16" and slot T grid ceilings. Can also be used for row-mounting applications. Order separately: catalog no. **QVS-HD**. (Kit bag contains 4 clips).

### THE ULM MODULE\*

The Universal Light and Motion (ULM) Module accessory offers substantial energy savings with a choice of two sensors, namely a light sensor for daylight harvesting and a motion sensor for occupancy detection. Its clean design blends in nicely with the ceiling system and luminaire. The ULM Module can be used with any Lightolier recessed fluorescent luminaire.

### **ULM Module Benefits**

- 15-45% energy savings for Daylight Harvesting
- Over 30% energy savings for Occupancy Detection
- Plug'n'Play (virtually no commissioning) and easy adjustments
- · Ability to control small network of luminaires (see Ordering Guide)
- Easy Installation No power pack and/or wiring required



The ULM Module clamps to the ceiling T-bar and then the luminaire is dropped into place. Compatible with standard 15/16" T and slot T-grid ceilings. Plug-in quick connectors included.

Housing encloses electrical connections—line or low voltage. Tile is notched and dropped into place.

## **Occupancy Detection**

People are frequently away from their desk (about 35% of core hours). The ULM Module uses a passive infrared motion sensor to typically deliver 30% savings in lighting energy consumption, which is consistent with industry estimates. A 2001 study found that occupancy-based energy savings in a private office range from 28% to 38%, depending on sensor time delay.<sup>2</sup>



ULM Module with light sensor shown here with Alter Concept Elegance.

Factory preset: 15-minute delay (mid setpoint) Available Range: 30 seconds to 30 minutes Adjustability: Rotation of trimpot using screwdriver Coverage: 18 ft. diameter/300 sq. ft. (360° mounted at 8')

## **Daylight Harvesting**

Why use electrical energy for lighting when daylight will do? The ULM Module provides a simple yet effective solution to harvest natural light in window-adjacent locations. Energy savings vary widely—from 15% to 45%—depending on location, season, orientation and other factors related to building design. According to the Lighting Controls Association, a continuous-dimming daylighting system, such as the ULM Module light sensor, can typically reduce lighting energy consumption by 30% to 40% when a building's architecture properly integrates daylight as a primary light source.1

Automatic dimming - As daylight increases, the Module's light sensor compensates for 50% of incoming natural light by dimming artificial light output on a relative scale. This is performed gradually to prevent distracting changes in light levels. Dimming continues until the minimum light output (1.5V) is reached. For example, with factory settings, normal conditions and 1000 lux/90 fc of additional daylight, the luminaire is dimmed to a minimum light output of about 3%. Optimal results are achieved through proper installation. Consult your Lightolier representative for full details.

Factory preset: 500 lux/45 footcandles (mid setpoint), assuming normal conditions (standard reflectances (80/50/20), ceiling heights (8'-10') and 2.5' work surfaces)

Available Range: 1/3 to 3 times the factory preset **Adjustability:** Hand rotation of diaphragm

Optimal Positioning Tips: 6' to10' from window • At least 5' between sensors • Over surfaces with average reflectivity

### **Ordering Guide**

Catalog No.	Sensors	Ballast Required	Network Size	Voltage
ULM-EZ	Light	0-10 VDC Dimming	Up to 20 dimming ballasts	120/277V
ULM-WS1	Motion (PIR)	Standard (24VDC transformer included)	Up to 13 luminaires (Alter Concept Elegance Lens: QCE2GOLOP228@120V)†	120/277V

<sup>\*</sup> Patent Pending

<sup>&</sup>lt;sup>1</sup> "Why Do Daylight Harvesting Projects Succeed or Fail?", 2006 – Lighting Controls Association.

Demand Reduction and Energy Savings Using Occupancy Sensors study, 2001 – National Electrical Manufacturers Association (NEMA).
 Maximum sensor capacity: 800W@120V and 1200W@277V, depending on luminaire input watts.

# Lamp Data Chart

Lamp Wattage		Lamp Manufacturer	Model # (add color temperature desired in space)	Rated Life* (hours)	Initial Lumens at 25°C	Common Commercial/Institutionnal Applications Color Temperatures (°K)	CRI	Maximum Overall Length inches (mm)
24	1	PHILIPS	F24T5/8/H0/ALT0	20000	1800	3000, 3500, 4100	85	22.2" (563.2mm)
T5 High		GE	F24W/T5/8/ECO	30000	1750	3000, 3500, 4100	85	22.2" (563.2mm)
Output		OSRAM Sylvania	FP24/8/H0/EC0	20000	1750	3000, 3500, 4100	85	22.2" (563.2mm)
28		PHILIPS	F28T5/8/ALTO	20000	2600	3000, 3500, 4100	85	45.8" (1163.2mm)
T5 High		GE	F28W/T5/8/ECO	30000	2640	3000, 3500, 4100	85	45.8" (1163.2mm)
Efficiency		OSRAM Sylvania	FP28/8/ECO	20000	2600	3000, 3500, 4100	85	45.8" (1163.2mm)
54	<i></i>	PHILIPS	F54T5/8/H0/ALT0	25000	4500	3000, 3500, 4100	85	45.8" (1163.2mm)
T5 High		GE	F54W/T5/8/ECO	30000	4460	3000, 3500, 4100	85	45.8" (1163.2mm)
Output		OSRAM Sylvania	FP54/HO/8/ECO	25000	4450	3000, 3500, 4100	85	45.8" (1163.2mm)
17		PHILIPS	F17T8/TL8/ALTO	24000	1400	3000, 3500, 4100	85	23.8" (604mm)
T8		GE	F17T8/SPX/ECO	15000	1350	3000, 3500, 4100	86	23.8" (604mm)
		OSRAM Sylvania	F017/8/ECO	15000	1350	3000, 3500, 4100	82	23.8" (604mm)
32		PHILIPS	F32T8/TL8/ALTO	24000	2950	3000, 3500, 4100	85	47.8" (1213.6mm)
T8		GE	F32T8/SPX/ECO	20000	2950	3000, 3500, 4100	86	47.8" (1213.6mm)
		OSRAM Sylvania	F032/8/ECO	24000	2950	3000, 3500, 4100	85	47.8" (1213.6mm)
40		PHILIPS	PL-L 40W/8/4P/RS/IS	20000	3300	3000, 3500, 4100	82	22.5" (571.5mm)
TT5		GE	F40/30BX/SPX	20000	3150	3000, 3500, 4100	82	22.5" (571.5mm)
		OSRAM Sylvania	FT40DL/8/RS/ECO	20000	3150	3000, 3500, 4100	82	22.6" (573mm)
50		PHILIPS	PL-L 50W/8/4P/RS	20000	4300	3000, 3500, 4100	82	22.5" (571.5mm)
TT5		GE	F50BX/SPX_RS	14000	4000	3000, 3500, 4100	82	22.5" (571.5mm)
	W.	OSRAM Sylvania	FT50DL/8/RS/ECO	14000	4300	3000, 3500, 4100	82	22.6" (573mm)
55		PHILIPS	PL-L 55W/8/4P/RS	10000	4800	3000, 3500, 4100	82	21.3" (541.6mm)
TT5		GE	F55BX/SPX	10000	4800	3000, 3500, 4100	82	20.7" (525.7mm)
	R.	OSRAM Sylvania	FT55DL/8/ECO	12000	4800	3000, 3500, 4100	82	21.1" (535mm)

LAMP CHART IS TO BE USED AS A GUIDE ONLY. LAMP MANUFACTURER DATA AT TIME OF PUBLICATION. CHECK LAMP MANUFACTURER DATA FOR OTHER MODEL ENQUIRIES AND/OR EXACT SPECIFICATIONS.

## **Application Notes**

Results based on: Average footcandles maintained, total Light Loss Factor (L.L.F.)=0.82 Reflectances: 80% Ceiling (white acoustical tile), 50% Wall (off-white paint), 20% Floor (medium grey carpet). RE835 T8 lamps rated at 2950 lumens, RE835 TT5 lamps rated at 3150 lumens, RE835 T5 lamps rated at 2600 lumens & RE835 T5HO lamps rated at 4500 lumens. 1' x 1' calculation grid at 30" from finished floor.

Results may vary.

Calculations have been performed according to IESNA & CIE standards and good practice. Some differences between measured values and calculated results may occur due to tolerances in calculation methods, testing procedures, component performance, measurement techniques and field conditions such as voltage and temperature variations. Input data used to generate the attached calculations such as room dimensions, reflectances, furniture and architectural elements significantly affect the lighting calculations. If the real environment conditions do not match the input data, differences will occur between measured values and calculated values.

<sup>\*</sup>Rated average life under specified test conditions with lamps turned off and restarted no more frequently than once every 3 operating hours. Rating based on Program Start ballast for T5/T5HO, Instant Start for T8 and Rapid Start for TT5 lamps.

# **Product Index**

Catalog Number	Page						
FK91X4	18	QCE2GPFOP328	11	QCJ2GPF0P217	15	QVH2GPF0S2FL	17
FK92X2	18	QCE2GPF0S224	11	QCJ2GPF0P232	15	QVH2GPF0S2FT	17
FK92X4	18	QCE2GPF0S228	11	QCJ2GPF0P332	15	QVH2GPF0S328	17
QCE2GGLOS224	9	QCE2GPF0S254	11	QVH1GPFOS228	17	QVH2GPF0S354	17
QCE2GGLOS228	9	QCE2GPF0S2FT	11	QVH1GPFOS254	17	QVH2GPF0S4FT	17
QCE2GGLOS254	9	QCH2GPF0P324	13	QVH1GPFOS2FT	17	QVS-HD	18
QCE2GGLOS2FT	9	QCH2GPF0P328	13	QVH2GPFGR	18	QVS14DG	18
QCE2GOLOP1FT	7	QCH2GPF0S224	13	QVH2GPFOS	18	QVS22DG	18
QCE2GOLOP224	7	QCH2GPF0S228	13	QVH2GPF0S1FT	17	QVS24DG	18
QCE2GOLOP228	7	QCH2GPF0S254	13	QVH2GPF0S228	17	ULM-EZ	19
QCE2GOLOP254	7	QCH2GPF0S2FT	13	QVH2GPF0S254	17	ULM-WS1	19

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Some luminaires use fluorescent or high intensity discharge (HID) lamps that contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and/or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org.

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