

E C O N O M Y



E F F I C I E N C Y

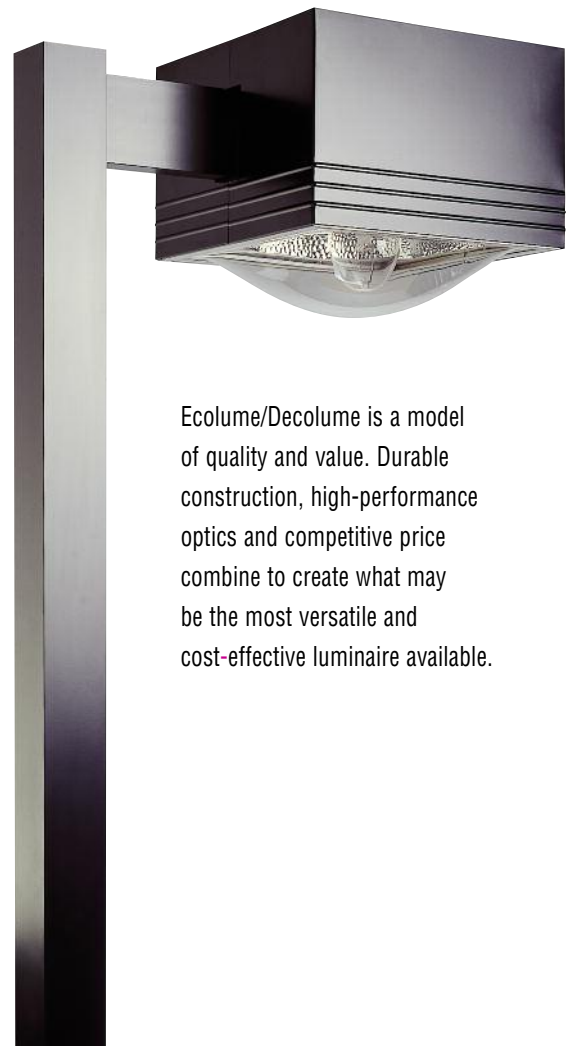
V A L U E

**ECOLUME
DECOLUME**



ENGINEERED FOR VALUE

Historically, the selection of an economy luminaire posed an unsatisfying series of compromises – aesthetics, scale, detailing, sealing, finish quality and, most importantly, lighting performance that never quite met expectations. Ecolume changed all that, quickly becoming the standard for value and quality in outdoor area lighting. With four housing sizes, lamps to 1000w, and the distinctive ribbed look of the Decolume, these luminaires emerge as the unequalled choice for appearance and performance illumination. Another attractive feature is the Ecolume Quick Ship Program, through which selected models are available to ship within three business days.



Ecolume/Decolume is a model of quality and value. Durable construction, high-performance optics and competitive price combine to create what may be the most versatile and cost-effective luminaire available.



A SMALLER, TALLER 750W LUMINAIRE

The Decolume DECT 18" square housing stands tall in the higher wattage market. High light level requirements using lower mounting heights were it's inspiration. This smaller, more understated luminaire minimizes the scale of the site lighting while maximizing the site illumination.

An additional 2" in the DECT housing depth provides capacity for up to 750 watt metal halide electrical systems. The attractive Decolume ribbed design further contributes to minimizing the luminaire profile. A wide variety of optic choices in this "neighbor-friendly" luminaire limits light trespass while maintaining safety-conscious light levels.

DECTA18



HOUSING

The Ecolume housing wrapper is one-piece, die-formed aluminum with an integral reinforcing spine and no welded corners. The Decolume is further enhanced with three rolled integral ribs that create twin edge bands. Silicone sealant provides a weather-tight barrier at all points of material transition.

LENS ASSEMBLY

An extruded aluminum, clear anodized door frame retains an optically clear, heat and impact resistant, tempered flat or tempered sag glass lens. EC18 vertical lamp

luminaires utilize high temperature resistant thermoplastic sag lenses. The DECT18 750w vertical lamp luminaire sag lens is tempered glass. The lens is sealed to the door frame and the door frame is gasketed to the housing with hollow section, high-compliance, memory-retentive extruded silicone rubber.

OPTICAL SYSTEM

The Ecolume/Decolume segmented reflector system consists of two levels of specular, clear anodized aluminum facets precisely aligned to achieve IES Types II, III, V and Type IV Forward Throw distributions.

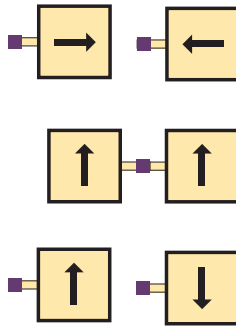
An uplight recovery box provides for even illumination directly below the luminaire. All mogul base horizontally positioned metal halide units feature a position-oriented lamp holder and lamp stabilizer. 3V or QV vertical lamp units can be field adjusted to achieve wider luminaire spacings while still meeting IES semi-cutoff criteria.



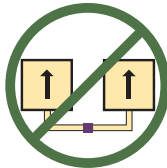
ECOLUME/DECOLUME DEFINES VALUE

ROTATABLE OPTICS

Ecolume/Decolume reflector assemblies are fully rotatable in 90° increments. This feature permits aiming of the distributions in any of four directions, regardless of the arm-to-pole orientation. Architectural symmetry is preserved as all of the luminaires and poles maintain a consistent alignment while the optical systems are aimed in various directions.



The primary benefit of rotatable optics, however, is installation ease. For twin units with parallel orientation, a special “parallel bracket assembly” is not required. Additionally, the contractor has remarkable flexibility at the jobsite to fine-tune the site plan without incurring special pole drilling costs.



POST TOP MOUNTING

The co-axial fitter-yoke assembly is fabricated from extruded rectangular aluminum tubing. The yoke-to-pole fitters are designed and manufactured specifically for a variety of pole sizes, ensuring transitions are clean and continuous. The yoke is internally attached to the sides of the housing with hex head mounting bolts.

ARM MOUNTING

A one-piece extruded aluminum arm conceals two steel tie rods and all mounting hardware. No fasteners or welds are visible. For pole installation, a reinforcing plate and wire strain relief are provided.

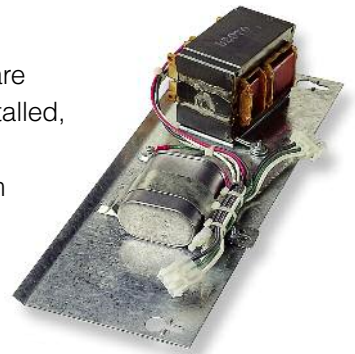
WALL MOUNTING

The luminaire is supported by a 10 gauge galvanized steel mounting plate. A die cast aluminum canopy is provided, which completely conceals the mounting assembly.



ELECTRICAL

All electrical components are UL-recognized, factory installed, and mounted on a unitized plate. The electrical system is fully tested prior to shipment. High power factor ballasts are rated for -20°F/-29°C starting temperatures. The lampholder is glazed porcelain with a nickel-plated screw shell. Quick disconnects are supplied on the reflector assembly. The entire ballast assembly is secured within the luminaire, above the optical system.



FINISH

Each luminaire receives a fade- and abrasion-resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) powdercoat finish. Optional finishes may vary.

LABELS

All luminaires bear UL or CUL (where applicable) Wet Location labels.

DECOLUME COLOR BANDS

Decolume may be specified with factory-applied color accents which nest within the reveals at the lower perimeter of the housing. Consult factory for availability of colors by size and luminaire type.



OPTICS AND PHOTOMETRICS

The quality of a cutoff luminaire is measured by how well it controls and distributes light. Ecolume/Decolume features a segmented optical system consisting of two levels of highly specular facets precisely aligned to distribute light in controlled patterns. This sophisticated optical system provides high efficiencies, uniform distribution and superior brightness control.



TYPE II (2H) & III (3H)

These reflector systems create an asymmetric distribution pattern with wide lateral throw. Type II and Type III distributions work well in walkway and roadway applications where more light is required “street side” than “house side.”



FORWARD THROW (FH)

The Type IV Forward Throw reflector is suitable for applications where light is primarily required in one direction with minimal backlight. Typical installations include perimeter lighting, auto dealerships and tennis courts.



TYPE V HORIZONTAL (QH)

The Type V square creates a symmetrical pattern for efficiently illuminating large areas. Good spacings are combined with excellent glare control with the horizontal lamp QH reflector.

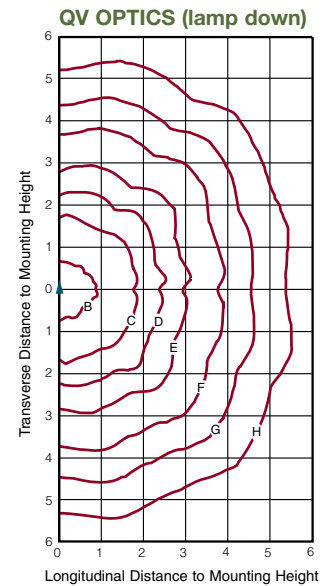
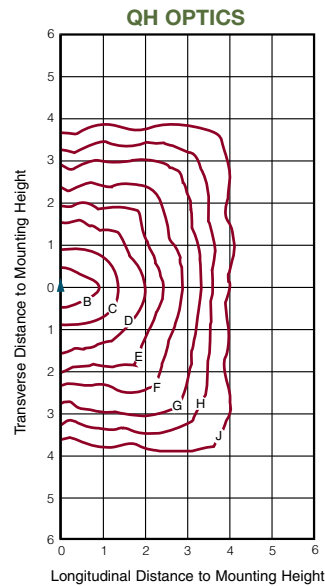
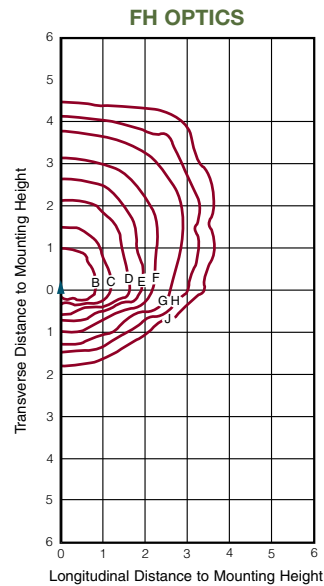
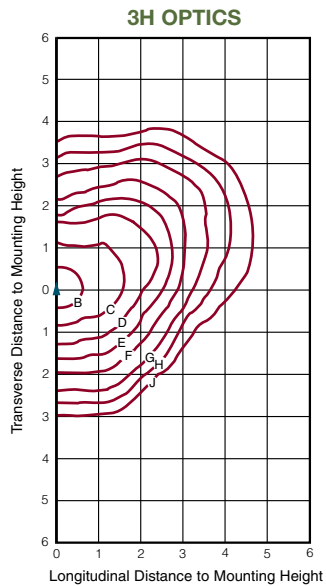


VERTICAL LAMP(3V)(FV)(QV)

A vertical lamp position makes this the most efficient optical system available for uniform illumination of large parking areas without pattern overlap. The two-position socket offers remarkable design flexibility. The standard lamp socket position provides superior spacings while meeting IES criteria for cutoff of high angle brightness. A lower socket position creates a system for the widest spacings available while still meeting IES semi-cutoff criteria.

For more information about vertical lamp choices, please turn to pages 8-9.

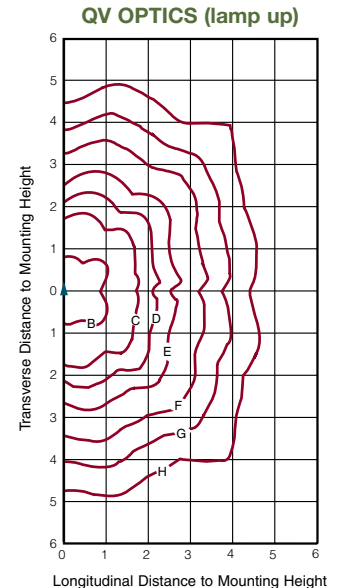
OPTICS AND PHOTOMETRICS



Initial footcandles for 400W HPS units mounted on 30' poles.		Pole Height (Feet)		Lamp Factor Table	
Curve	F.C. Value		Factor	Lamp	Factor
B	5.00	10	9.00	150HPS	0.32
C	2.50	12	6.25	250HPS	0.58
D	1.00	14	4.59	400HPS	1.00
E	0.50	16	3.52	175SMH	0.30
F	0.25	18	2.78	250SMH	0.46
G	0.10	20	2.25	400SMH	0.80
H	0.05	25	1.44		
J	0.025	35	0.73		
		39	0.59		

Footcandle Multipliers for Other Conditions

- For other mounting heights, multiply the values of footcandles shown by the pole height factor in table above.
- For multiple mounts with beam patterns oriented parallel, multiply F.C. by number of heads per pole.
- For combination of above, multiply factors together to produce a single multiplier.
Example: Two heads on 39' pole = $2 \times 0.59 = 1.18$ Total F.C. Multiplier.
- For approximate F.C. levels, the lamp factors shown at right may be multiplied by the 400w HPS value.
Example: 250w HPS Type III at curve C = $.58 \times 2.50 = 1.45$ F.C.
- 2H, 3V, FV optics not shown.
- A complete photometrics database is available at www.sitelighting.com



ADJUSTABLE VERTICAL LAMP OPTICS (18" & 23" HOUSING)

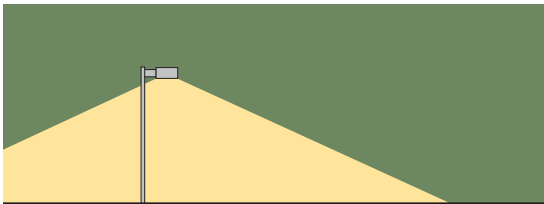
The 3V & QV vertical optical systems add another dimension to the performance and economy of the Ecolume/Decolume luminaire. A field-adjustable lampholder has been designed into the reflector assembly. In the upper position, the reflector system offers full cutoff while providing a highly efficient distribution. In those applications where glare control is not as critical as the desire for wider spacings, the lampholder can be placed in the lower position. This assures the widest pole spacings while still maintaining IES semi-cutoff classification.



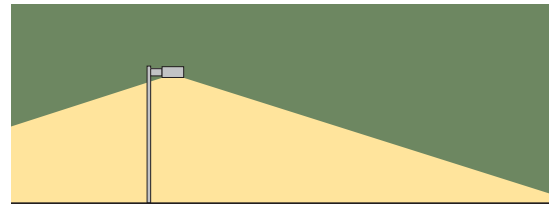
Lampholder adjusted for up lamp position and maximum glare control.



Lampholder adjusted for down lamp position which enables wider spacings, but less control of glare.



Raised lamp/socket position provides cutoff for superior control of glare and light trespass.



Lowered lamp/socket position enables wider spacings yet still meets IES semi-cutoff specifications.

Adjustability to semi-cutoff position not available with FV optics.



HIGH PERFORMANCE LARGE AREA OPTICS

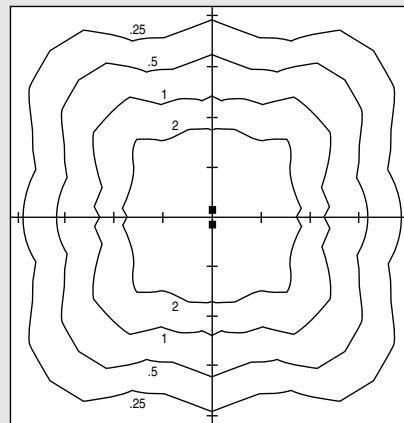
Large areas, like retail mall space or long-term parking lots, provide both lighting challenges and cost saving opportunities. MallMaster® optics were designed with these areas in mind. One footcandle minimum criteria projects are ideally suited to these optics, especially when spacing-to-mounting-height ratios are a top priority. MallMaster® provides even illumination while allowing for economical, wide pole spacings.

Using retrofit mechanisms, Ecolume/Decolume 23" luminaires, equipped with MallMaster® optics, can be mounted to existing poles, increasing light levels while decreasing job costs through utilization of existing foundations and poles.

MallMaster® reflectors were designed for 1000 watt sources and are available in both IES Type III semi-cutoff (3SV) and Type V semi-cutoff (QSV) patterns.



A combination of highly specular and hammertone aluminum is used in precisely engineered faceted segments to form MallMaster® high performance optics.



Exceptionally wide spacings, thorough coverage to the pattern corners, maximum cost savings... MallMaster® optics are engineered for value.



ECOLUME QUICK SHIP



In response to increasingly tight delivery schedules, Emco has developed a 3-Day Quick Ship Program that makes it easy to order our most popular and versatile luminaires, poles and options. Lamps for all luminaires are in stock.

When specifying, please pay particular attention to the size of luminaire, wattage and optical system desired. Refer to www.sitelighting.com for the most current information.

QUICK SHIP AREA LIGHTING LUMINAIRES

EC14 – Ecolume, 14" square

- 150HPS or 175MH
- Multi-Tap Ballast (120/208/240/277) Tied to 277V
- Bronze Painted (BRP)
- Type 3H or FH (Forward Throw)
- Arm Mount, Wall Mount (no arm), Wall Mount with Arm

Ship From: York, Pennsylvania
Dallas, Texas
San Jose, California

PREFIX	MOUNTING	SIZE	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH
EC	A	14	1	3H	175MH	277	BRP
EC	A Arm Mount W Wall Mount WA Wall Mount w/Arm	14	1 2 3 4	3H, FH	150HPS, 175MH	120, 208, 240, 277	BRP = Bronze Paint

EC18 – Ecolume, 18" square

- 250HPS, 400HPS, 250MH or 400MH
- Multi-Tap Ballast (120/208/240/277) Tied to 277V
- Bronze Painted (BRP)
- Type 3H or FH (Forward Throw)
- Arm Mount, Wall Mount (no arm), Wall Mount with Arm

Ship From: York, Pennsylvania
Dallas, Texas
San Jose, California

PREFIX	MOUNTING	SIZE	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH
EC	A	18	1	3H	250MH	277	BRP
EC	A Arm Mount W Wall Mount WA Wall Mount w/Arm	18	1 2 3 4	3H, FH	250HPS, 400HPS, 250MH, 400MH,	120, 208, 240, 277	BRP = Bronze Paint

Add suffix to the end of the order number – **F** Example: **EC A 14 1 3H 175MH 277 BRP – PTF2**

Options:

- AP** Adjustable Knuckle - Pole Mount
AT Adjustable Knuckle - Tenon Mount
PTF2 Pole Top Fitter 2 3/8" diameter tenon for use with a 14" - 18" Luminaire (2 3/8" X 4")

QUICK SHIP POLES

MODEL: SSS (Straight Square Steel)
SIZE: 4" / 5"
GAUGE: 11 ga.
HEIGHT: 4" - 15', 20', 25'; 5" - 30'

Ship From: York, Pennsylvania
 Dallas, Texas
 San Jose, California

DRILLING/
HARDWARE: D1/2 (Drilled for 2 way @180° with (1) side plugged. Use for Single or 2 way @180° Mounting).
 D3/4 (Drilled for 4 way @ 90° with (2) sides plugged. Use for 2 , 3 or 4 way @ 90° Mounting).
 SSS Poles Drilled for 14" and 18" Ecolume.
 Includes hand hole cover, base cover and top cap.

ANCHORAGE: SSS – (4) 3/4" X 17" X 3"; TRS – (4) 1" X 36" X 4"

BASE COVER: Non-metallic, 2 piece

POLE	HEIGHT	SIZE	GAUGE	DRILLING	FINISH
SSS	15	4	11	D2	BRP
SSS	12', 20', 25', 30'	4 5	11	D1/2 Drilled for 2 way @180° with (1) side plugged. Use for Single or 2 way @180° Mounting. D3/4 Drilled for 4 way @ 90° with (2) sides plugged. Use for 2, 3 or 4 way @ 90° Mounting.	BRP = Bronze Paint

1. SSS 30' Poles ship by the second Friday following receipt of order.

QUICK SHIP ANCHOR BOLTS

Anchor Bolts are shipped in sets of (4) with double nuts, washers and template.

1/2" X 18" X 2"
 5/8" X 18" X 3"
 3/4" X 17" X 3"
 1" X 36" X 4"

Ship From: York, Pennsylvania
 Dallas, Texas
 San Jose, California



14" LUMINAIRE ORDERING

PREFIX	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
ECA14	1	3V	175PSMH	480V	BLP	F
<u>Ecolume</u> ECA14 ECW14 ECWA14	1 Single Assembly	<u>Horizontal Lamp</u> 2H Type II 3H Type III FH Type IV Forward Throw QH Type V	70 HPS³ 100 HPS³ 150 HPS³ 100 MH⁶ 150 MH⁶ 175 MH³ 200 MH⁴ 175 PSMH⁵	120 208 240 277 347 480 QUAD <i>120/208/240/277 factory tied to 277V.</i>	BRP Bronze Paint BLP Black Paint WP White Paint NP Natural Aluminum Paint OC Optional Color Paint <i>Specify RAL designation. ex: OC-RAL7024.</i> SC Special Color Paint <i>Must supply color chip.</i>	HS F LF PCT PCR PCB AP AT PTF2 PTF3 PTF4 ACR POLY QS QST CR
<u>Decolume</u> DECA14 DECW14 DECWA14	2@90 Twin Assembly at 90° 3 Triple at 90° 3@120 Triple at 120° 4 Quad Assembly <i>Use "1" for W/WA Wall Mounted Units.</i>	<u>Vertical Lamp</u> 3V^{1,2} Type III Vertical Lamp FV^{1,2} Type IV Forward Throw Vertical Lamp QV^{1,2} Type V Vertical Lamp				

Arm mounting on round poles is designed to mount to poles measuring 3.5" OD or larger.

1. Vertical lamp optics are supplied standard w/high temperature resistant thermoplastic sag lens.
2. 14" vertical lamp optics require a medium base lamp. N/A with 480V.
3. Requires mogul base lamps in horizontal optics and medium base lamps in vertical optics. N/A w/480V.
4. Requires mogul base lamps in horizontal optics and medium base lamps in vertical optics.
5. Vertical Lamp optics only. Medium base lamps only. M137 or M152.
6. Requires medium base lamp in all optics.

Prefix

ECA14	14" Square Arm Mount Luminaire
ECW14	14" Square Direct Wall Mount Luminaire
ECWA14	14" Square Wall Mount w/Arm
DECA14	14" Square Arm Mount Luminaire
DECW14	14" Square Direct Wall Mount Luminaire
DECWA14	14" Square Wall Mount w/Arm

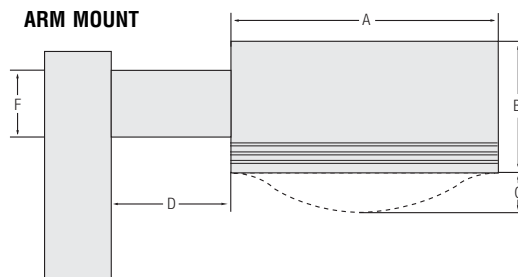
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Options

HS	Internal House Side Shield Supplied standard for FH/FV.
F	Fusing
LF	In-Pole/In-Line Fusing Kit includes In-Line Fuses.
PCT	Locking Type Photocontrol Receptacle w/Photocontrol Not available with 480V.
PCR	Locking Type Photocontrol Receptacle
PCB	Button Photocontrol
AP	Adjustable Knuckle - Pole Mount <i>Only available with single and twin luminaires @ 180°.</i>
AT	Adjustable Knuckle - Tenon Mount
PTF2	Pole Top Filter 2 3/8" X 4"
PTF3	Pole Top Filter 3" - 31/2" X 6"
PTF4	Pole Top Filter 31/2" - 4" X 6"
ACR	Acrylic Sag Lens In lieu of glass.
POLY	Polycarbonate Sag Lens In lieu of glass.
QS	Quartz Standby
QST	Quartz Standby – Timed Delay
CR	Colored Reveal Decolume Only <i>Specify color. Contact factory for availability.</i>

DIMENSIONS

Dimensions	14"	18"
A	14"/35.6cm	18"/45.7cm
B	7"/17.7cm	10"/25.4cm
C Drop Lens	2"/5.1cm	4"/10.2cm
D Arm Length	6"/15.2cm	9"/22.9
E Overall with Yoke	—	25.5"/64.8cm
F Arm Height	5"/12.7cm	5"/12.7cm
EPA – Arm Mount		
Single, Flat Lens	1.1 ft ² /10 m ²	1.9 ft ² /18 m ²
Single, Sag Lens	1.2 ft ² /11 m ²	2.1 ft ² /20 m ²
Twin, Flat Lens	2.2 ft ² /20 m ²	3.8 ft ² /35 m ²
Twin, Sag Lens	2.3 ft ² /21 m ²	4.2 ft ² /39 m ²
Quad, Flat Lens	2.8 ft ² /26 m ²	4.8 ft ² /45 m ²
Quad, Sag Lens	3.6 ft ² /33 m ²	5.6 ft ² /52 m ²
EPA – Yoke Mounted		
Single, Flat Lens	—	2.2 ft ² /20 m ²
Single, Sag Lens	—	2.4 ft ² /22 m ²
Single Luminaire Weight		
Arm Mount Flat Glass	30lbs/13.6kgs	50lbs/22.7kgs
Post top Mount Flat Glass	—	55lbs/24.9kgs
Arm Mount Sag Glass	32lbs/14.5kgs	52lbs/23.6kgs
Post top Mount Sag Glass	—	57lbs/25.9kgs



18" LUMINAIRE ORDERING

PREFIX	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
ECA18	1	3V	400MH	480V	BLP	F
<u>Ecolume</u>	1	<u>Horizontal Lamp</u>	250 HPS	120	BRP Bronze Paint	HS
ECA18	Single Assembly	2H Type II	400 HPS	208	BLP Black Paint	F
ECW18	2	3H Type III	250 MH	240	WP White Paint	LF
ECWA18	Twin Assembly	FH Type IV	400 MH	277	NP Natural	PCT
ECP118	2@90	Forward Throw	250 PSMH³	347	Aluminum Paint	PCR
ECP218	Twin Assembly at 90°	QH Type V	320 PSMH⁴	480	OC Optional Color Paint	PCB
ECP318		<u>Vertical Lamp</u>	350 PSMH	QUAD	Specify RAL designation. ex: OC-RAL7024.	MF
ECP418	3	3V^{1,2} Type III	400 PSMH⁵	120/208/240/277 factory tied to 277V.	SC Special Color Paint	AP
<u>Decolume</u>	Triple at 90°	Vertical Lamp			Must supply color chip.	AT
DECA18	3@120	FV¹ Type IV				PTF2
DECW18	Triple at 120°	Forward Throw				PTF3
DECWA18	4	Vertical Lamp				PTF4
DECP118	Quad Assembly	QV^{1,2} Type V				ACR
DECP218	Use "1" for "P" Post Top, "W" and "WA" Wall Mounted Units.	Vertical Lamp				POLY
DECP318						QS
DECP418						QST
						CR

Arm mounting on round poles
is designed to mount to poles
measuring 3.5" OD or larger.

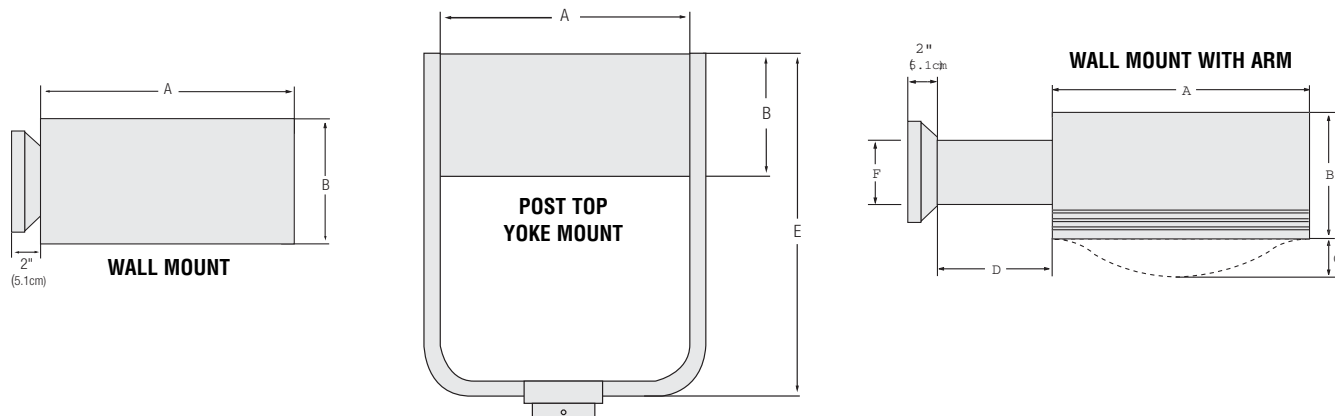
Prefix	
ECA18	18" Square Arm Mount Luminaire
ECW18	18" Square Direct Wall Mount Luminaire
ECWA18	18" Square Wall Mount w/Arm
ECP118	18" Square, Fits SSS5 Pole
ECP218	18" Square, Fits 2 3/8" OD Tenon
ECP318	18" Square, Fits 3" - 3.5" OD Tenon
ECP418	18" Square, Fits 4" OD Tenon
DECA18	18" Square Arm Mount Luminaire
DECW18	18" Square Direct Wall Mount Luminaire
DECWA18	18" Square Wall Mount w/Arm
DECP118	18" Square, Fits SSS5 Pole
DECP218	18" Square, Fits 2 3/8" OD Tenon
DECP318	18" Square, Fits 3" - 3.5" OD Tenon
DECP418	18" Square, Fits 4" OD Tenon

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EMCO reserves the right to change materials or modify the design of its product
without modification.

Options

HS	Internal House Side Shield <i>Supplied standard for FH/FV.</i>
F	Fusing
LF	In-Pole/In-Line Fusing <i>Kit includes In-Line Fuses.</i>
PCT	Locking Type Photocontrol Receptacle w/Photocontrol <i>Not available with 480V.</i>
PCR	Locking Type Photocontrol Receptacle
PCB	Button Photocontrol
MF	Mast Arm Fitter
AP	Adjustable Knuckle - Pole Mount <i>Only available with single and twin luminaires @ 180°.</i>
AT	Adjustable Knuckle - Tenon Mount
PTF2	Pole Top Filter 2 3/8" X 4"
PTF3	Pole Top Filter 3" - 3 1/2" X 6"
PTF4	Pole Top Filter 3 1/2" - 4" X 6"
ACR	Acrylic Sag Lens <i>In lieu of glass.</i>
POLY	Polycarbonate Sag Lens <i>In lieu of glass.</i>
QS	Quartz Standby
QST	Quartz Standby - Timed Delay
CR	Colored Reveal Decolume Only <i>Specify color. Contact factory for availability.</i>

DIMENSIONS



18" TALL LUMINAIRE ORDERING

PREFIX	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
DECTA18	1	3V	750PSMH	480V	BLP	F
DECTA18	1	Horizontal Lamp	450 PSMH ³	120	BRP Bronze Paint	HS
DECTW18	Single Assembly	2H Type II	750 PSMH ⁴	208	BLP Black Paint	F
DECTWA18	2	3H Type III		240	WP White Paint	LF
DECTP118	Twin Assembly	FH Type IV		277	NP Natural	PCT
DECTP218	2@90	Forward Throw		347	Aluminum Paint	PCR
DECTP318	Twin Assembly at 90°	QH Type V		480	OC Optional Color Paint	PCB
DECTP418	3	Vertical Lamp		QUAD	Specify RAL designation. ex: OC-RAL7024.	MF
	Triple at 90°	3V ^{1,2} Type III		120/208/240/277 factory tied to 277V.	SC Special Color Paint	AP
	3@120	Vertical Lamp			Must supply color chip.	AT
	Triple at 120°	FV ¹ Type IV				PTF2
	4	Forward Throw				PTF3
	Quad Assembly	Vertical Lamp				PTF4
		QV ^{1,2} Type V				QS
		Vertical Lamp				QST
						CR

Arm mounting on round poles is designed to mount to poles measuring 3.5" OD or larger.

Use "1" for "P" Post Top, "W" and "WA" Wall Mounted Units.

1. 450w Vertical lamp optics are supplied standard w/high temperature resistant thermoplastic sag lens. 750w luminaires are supplied with and MUST use a sag glass lens.
2. 3V/QV optical systems feature an upper (factory set) cutoff socket position. For wider spacings, a lower (field adjustable) semi-cutoff socket position may be set.
3. Available with vertical lamp optics only.
4. M149 only. Horizontal optics require MS750/PS/BU-HOR/BT37 lamp.

Prefix	
DECTA18	18" Tall Square Arm Mount
DECTW18	18" Tall Square Direct Wall Mount
DECTWA18	18" Tall Square Wall Mount w/Arm
DECTP118	18" Tall Square Post Top Mount, Fits Emco SSS5 Pole
DECTP218	18" Tall Square Post Top Mount, Fits 2 3/8" Pole
DECTP318	18" Tall Square Post Top Mount, Fits 3" - 3 1/2" O.D. Pole
DECTP418	18" Tall Square Post Top Mount, Fits 4" O.D. Tenon

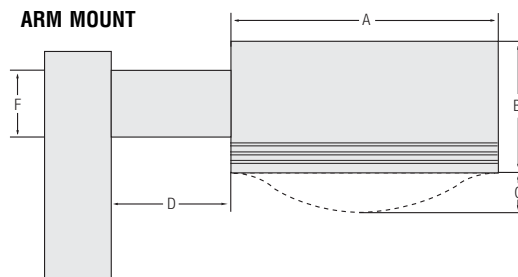
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As part of the continuous improvement process, EMCO reserves the right to change materials or modify the design of its product without modification.

Options

HS	Internal House Side Shield <i>Supplied standard for FH/FV.</i>
F	Fusing
LF	In-Pole/In-Line Fusing <i>Kit includes In-Line Fuses.</i>
PCT	Locking Type Photocontrol Receptacle w/Photocontrol <i>Not available with 480V.</i>
PCR	Locking Type Photocontrol Receptacle
PCB	Button Photocontrol
MF	Mast Arm Fitter
AP	Adjustable Knuckle - Pole Mount <i>Only available with single and twin luminaires @ 180°</i>
AT	Adjustable Knuckle - Tenon Mount <i>Only available with single luminaires</i>
PTF2	Pole Top Filter 2 3/8" X 4"
PTF3	Pole Top Filter 3" - 3 1/2" X 6"
PTF4	Pole Top Filter 3 1/2" - 4" X 6"
QS	Quartz Standby
QST	Quartz Standby - Timed Delay
CR	Colored Reveal <i>Specify color. Contact factory for availability.</i>

DIMENSIONS

Dimensions	18T	23"
A	18"/45.7cm	23"/58.4cm
B	12"/30.5cm	14"/35.6cm
C Drop Lens	4"/10.2cm	6.5"/16.5cm
D Arm Length	9"/22.9	12"/30.5cm
E Overall with Yoke	25.5"/64.8cm	37.5"/95.3cm
F Arm Height	5"/12.7cm	8"/12.2cm
EPA - Arm Mount		
Single, Flat Lens	2.2 ft ² /20 m ²	3.6 ft ² /33 m ²
Single, Sag Lens	2.3 ft ² /21 m ²	3.9 ft ² /36 m ²
Twin, Flat Lens	4.3 ft ² /40 m ²	7.3 ft ² /68 m ²
Twin, Sag Lens	4.7 ft ² /44 m ²	7.8 ft ² /72 m ²
Quad, Flat Lens	5.6 ft ² /52 m ²	8.8 ft ² /82 m ²
Quad, Sag Lens	6.1 ft ² /57 m ²	9.5 ft ² /88 m ²
EPA - Yoke Mounted		
Single, Flat Lens	2.5 ft ² /23 m ²	3.6 ft ² /33 m ²
Single, Sag Lens	2.6 ft ² /24 m ²	3.9 ft ² /36 m ²
Single Luminaire Weight		
Arm Mount Flat Glass	82lbs/37.1 kg	90lbs/40.8kg
Post top Mount Flat Glass	84lbs/38.1 kg	100lbs/45.4kg
Arm Mount Sag Glass	87lbs/39.5 kg	94lbs/42.6kg
Post top Mount Sag Glass	89lbs/40.4 kg	104lbs/47.2kg



23" LUMINAIRE ORDERING

PREFIX	CONFIGURATION	DISTRIBUTION	WATTAGE	VOLTAGE	FINISH	OPTIONS
DECA23	1	3V	1000PSMH	480V	BLP	F
<u>Ecolume</u>	1 Single Assembly	<u>Horizontal Lamp</u>	400 MH³	120	BRP Bronze Paint	HS
ECA23		2H Type II	1000 MH⁴	208	BLP Black Paint	F
ECW23	2 Twin Assembly	3H Type III	750 HPS	240	WP White Paint	LF
ECWA23		FH Type IV Forward Throw	1000 HPS	277	NP Natural	PCT
ECP123	2@90 Twin Assembly at 90°	QH Type V	400 PSMH³	347	Aluminum Paint	PCR
ECP223		<u>Vertical Lamp</u>	750 PSMH^{5,6}	480	OC Optional Color Paint Specify RAL designation. ex: OC-RAL7024.	PCB
ECP323	3 Triple at 90°	3V^{1,2} Type III Vertical Lamp	1000 PSMH⁶	QUAD	SC Special Color Paint Must supply color chip.	MF
ECP423		FV¹ Type IV Forward Throw Vertical Lamp		120/208/240/277 factory tied to 277V.		AP
<u>Decolume</u>	3@120 Triple at 120°	QV^{1,2} Type V Vertical Lamp				PTF3
DECA23		3V-RNC^{1,2} Type III Vertical Lamp, Reduced Nadir Candlepower				PTF4
DECW23	4 Quad Assembly	QV-RNC^{1,2} Type V Vertical Lamp, Reduced Nadir Candlepower				QS
DECWA23	Use "1" for "P" Post Top, "W" and "WA" Wall Mounted Units.	<i>RNC (Reduced Nadir Candlepower) option should be specified only in applications requiring extreme maximum to minimum uniformity ratios (5 to 1 or lower). Reduced luminaire efficiency will result in lower average footcandle levels.</i>				QST
DECP123		3SV¹ Type III Vertical Lamp Mallmaster Semi-cutoff				CR
DECP223		QSV¹ Type V Vertical Lamp Mallmaster Semi-cutoff				
DECP323		<u>Vertical Lamp – Flat Glass Lens</u>				
DECP423		3VFC Type III Vertical Lamp Full-cutoff				
		FVFC Type IV Vertical Lamp Full-cutoff				
		QVFC Type V Vertical Lamp Full-cutoff				

Arm mounting on round poles is designed to mount to poles measuring 3.5" OD or larger.

Prefix

ECA23	23" Square Arm Mount
ECW23	23" Square Direct Wall Mount
ECWA23	23" Square Wall Mount w/Arm
ECP123	23" Square, Fits SSS5 Pole
ECP223	23" Square, Fits 2 3/8" OD Tenon
ECP323	23" Square, Fits 3" - 3.5" OD Tenon
ECP423	23" Square, Fits 4" OD Tenon
DECA23	23" Square Arm Mount
DECW23	23" Square Direct Wall Mount
DECWA23	23" Square Wall Mount w/Arm
DECP123	23" Square, Fits SSS5 Pole
DECP223	23" Square, Fits 2 3/8" OD Tenon
DECP323	23" Square, Fits 3" - 3.5" OD Tenon
DECP423	23" Square, Fits 4" OD Tenon

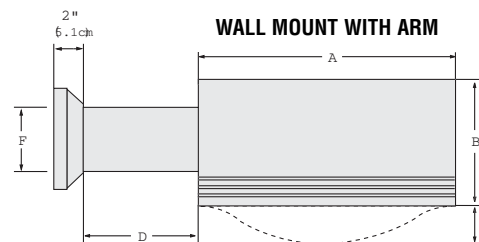
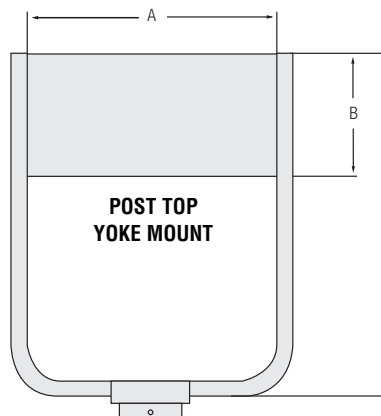
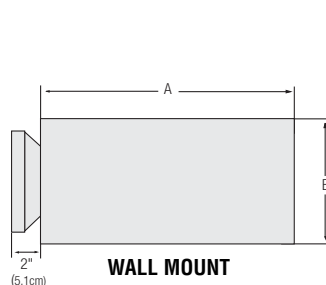
Prior to ordering, consult submittal data sheet on www.sitelighting.com for the most current information. As part of the continuous improvement process, EMCO reserves the right to change materials or modify the design of its product without modification.

Options

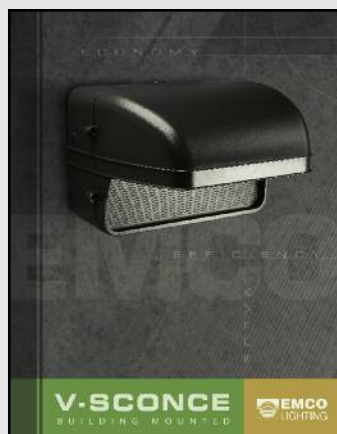
HS	Internal House Side Shield <i>Supplied standard for FH/FV.</i>
F	Fusing
LF	In-Pole/In-Line Fusing <i>Kit includes In-Line Fuses.</i>
PCT	Locking Type Photocontrol Receptacle w/Photocontrol <i>Not available with 480V.</i>
PCR	Locking Type Photocontrol Receptacle
PCB	Button Photocontrol
MF	Mast Arm Fitter
AP	Adjustable Knuckle - Pole Mount <i>Only available with single and twin luminaires @ 180°.</i>
PTF3	Pole Top Filter 3" - 3 1/2" X 6"
PTF4	Pole Top Filter 3 1/2" - 4" X 6"
QS	Quartz Standby
QST	Quartz Standby - Timed Delay
CR	Colored Reveal (Decolume Only)
	<i>Specify color. Contact factory for availability.</i>

1. 23" vertical lamp optics are supplied standard with sag glass lens.
2. 23" 3V/QV optical systems feature an upper (factory set) cutoff socket position. For wider spacings, a lower (field adjustable) semi-cutoff socket position may be set.
3. Available with 3VFC, FVFC and QVFC optics only.
4. 1000MH with 3VFC, FVFC and QVFC optics require BT-37 or E-37 Lamp. All other optics use a BT56 lamp.
5. M149 only.
6. Available with vertical lamp optics only.

DIMENSIONS



Your Emco representative can assist you with additional information about luminaires that complement your site design.



Emco V-Sconce



Emco Ecoround



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