





LAMA high bay fittings are suitable for indoor installation for ceiling mounting or suspension, designed to operate elliptical lamps 150 ÷ 400W high pressure sodium, 250 ÷ 400W metal halide and 125 ÷ 400W mercury vapour.

The fitting is available in three versions: **LAMA 65 – LAMA 33 and LAMA II**, each one comprising: the body control gear box complete, aluminium reflector or Methacrylate (PMMA) diffusers and other accessories (glass, protection grill etc.).

LAMA fittings are particularly suitable for lighting industrial and commercial environments, warehouses, hall etc.

*LAMA Luminaria de campana para instalaciones interiores, montaje en techo o suspendidas, diseñadas para lámparas elípticas 150/400W Sodio Alta Presión, 250/400W Halogenuros Metálicos, 125/400W Vapor de Mercurio.*

*Las luminarias puede suministrarse en tres versiones: **LAMA 65 – LAMA 33 y LAMA II**, todas disponen de cuerpo para equipos auxiliares, reflector de aluminio o difusor de metacrilato (PMMA) y otros accesorios (Vidrio, malla de protección, etc.)*

*Luminarias LAMA indicadas para ambientes industriales, comerciales, almacenes, etc.*

# LAMA



SBP

design Ufficio Tecnico SBP - SBP Technical Departement







LAMA 65 fittings have three parts: control gear box, reflector and glass, each one ordered separately by its own code.

**BOX LAMA 65:** the body which houses the control gear is made in two pieces of die cast aluminium locked together and painted RAL 9006. Silicone joints.

Closing clips with security lock. Suspension device adjustable on two planes for accurate balancing. The lampholder is adjustable internally according to graduated markings.

**REFLECTORS:** in very polished and anodized aluminium, are available in version 34D, 34PR, 48D (wide beam) and 48I (narrow beam).

**GLASS:** toughened glass with fitted to body closing clips and stainless steel spring. Direct to glass high efficiency, long life dual foam silicone gasket.

On request the fittings are supplied with switching device for immediate re-lighting of one halogen lamp MAX 250W, B15d socket (A0195 accessory).

The A0195 accessory must be ordered with the fitting and is supplied ready mounted. 250W and 400W models must be mounted at a distance  $\geq 200\text{mm}$  from the ceiling.

Possibility of connection in series by using accessory A0182 cod.14005720.

*LAMA 65 Luminaria tiene tres partes: Caja de equipos, reflector y vidrio. Cada una debe encargarse separadamente con su propio código.*

***BOX LAMA 65:** caja de equipos eléctricos en dos piezas de aluminio inyectado, sujetos con bisagras, pintado en RAL 9006. Junta de silicona.*

*Clip de cierre con aro de seguridad. Gancho ajustable para un equilibrada suspensión. El porta lámparas es ajustable desde interior de acuerdo con las marcas.*

***REFLECTOR:** fabricado en aluminio pulido y anodizado, disponible en versiones 34D, 34PR y 48D ( Extensivo) y 48I (Intensivo).*

***VIDRIO:** vidrio templado unido al cuerpo mediante clips de cierre y muelles de acero inox. Junta de silicona espumada depositada directamente sobre el vidrio, de dos componente y de larga vida.*

*Bajo demanda la luminaria se puede suministrar con relé de conmutación para re encendido en caliente, lámpara halógena de max 250W, portalámparas B15d (Accesorio A0195) El accesorio A00195 deben encargarse a la vez que la luminaria para montarlo en origen. Los modelos 250 y 400W deben montarse a distancia  $\geq 200\text{mm}$  del techo.*

*Posibilidad de conexión en serie usando el accesorio A0182 Cod. 14005720.*

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TECHNICAL AND UTILIZATION DATA DATOS TECNICOS Y DE MONTAJE

						IK 09 15 J			Max 11,3Kg				
CLASS I		94	IP 65						Max 400W		Max 400W		Max 400W
									PG 13,5 Ø10-Ø13		H05RN-F 3G1		5x10mm <sup>2</sup>





LAMA 33 high bay fittings are available with different types of aluminium reflectors and prismatic diffusers, to satisfy both industrial and decorative installation needs.

The fitting comprises of control gear box and reflector or diffuser, each one to be ordered separately by its own code.

**BOX LAMA 33:** the body made of two parts in die cast aluminium painted RAL 9006.

**REFLECTORS:** in very pure, polished anodised aluminium available for models 34D, 34PR, 48D and 48I.

Protection grill and/or closing glasses (available as accessories) can be mounted on reflectors, IP54 protection degree is achieved when fitted to optic.

**DIFFUSERS:** available in methacrylate with longitudinal prisms.

41PMMA and 57PMMA models are transparent.

On request the fittings are supplied with a switching device for immediate re-lighting of one halogen lamp MAX 250W, B15d socket (A0195/33 accessory).

The A0195 accessory must be ordered with the fitting and is supplied ready mounted.

*LAMA 33 Luminaria de campana se puede suministra con diferentes tipos de reflectores de aluminio y difusores prismáticos, para instalaciones en industria y decorativas.*

*La luminaria comprende, caja de equipos eléctricos y reflector o difusor, cada uno debe encargarse separadamente con sus códigos.*

**BOX LAMA 33:** *el cuerpo fabricado en dos partes en aluminio inyectado pintado RAL 9006.*

**REFLECTORES:** *en aluminio puro, pulido, anodizado, disponible en tres modelos 34D, 34PR, 48D y 48I.*

*Malla de protección y/o vidrio de cierre (Suministrable bajo demanda) pueden montarse en el reflector, se consigue un grado de protección IP54.*

**DIFUSORES:** *disponible en metacrilato con prismas longitudinales.*

*41PMMA y 57PMMA son modelos transparentes.*

*Bajo demanda las luminarias pueden suministrarse con relé de conmutación para re encendido en caliente, con lámpara halógena max. 250 W. portalámparas B15d (Accesorio A0195/33).*

*El accesorio A0195 debe encargarse con la luminaria para suministrarse montado.*

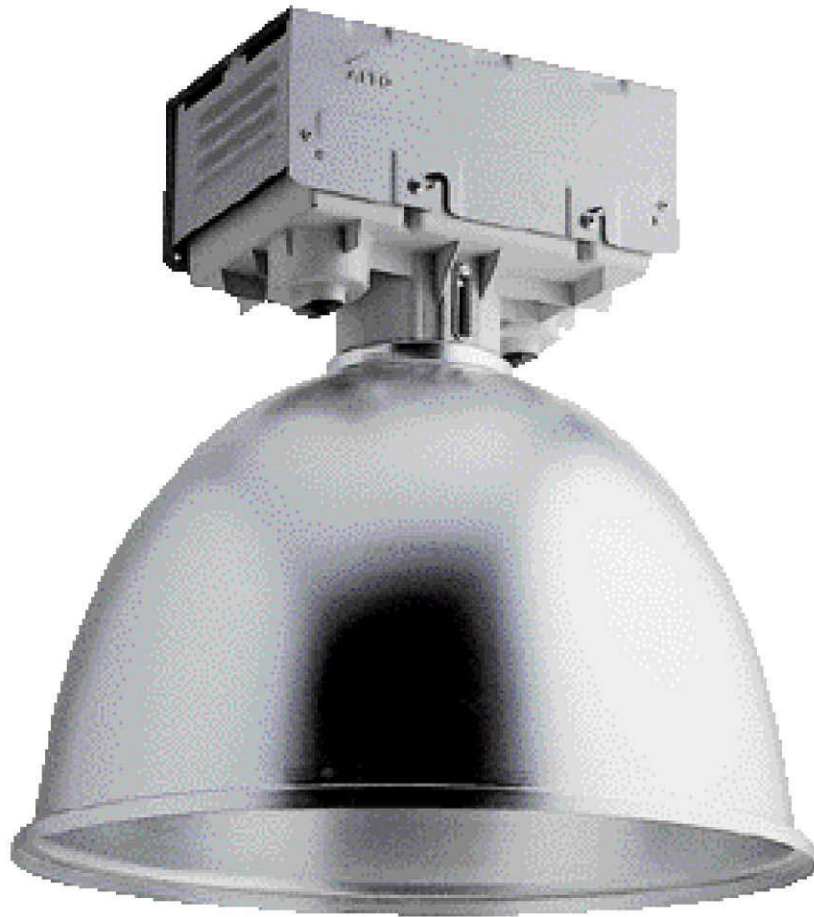
**SBP**

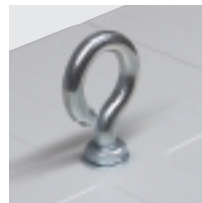
TECHNICAL AND UTILIZATION DATA DATOS TÉCNICOS Y DE MONTAJE

							IK 09 15 J							
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CLASS I		94	IP 33								
									Max 400W	Max 400W	Max 400W

<b>Box LAMA 33</b>  • Ø260 • • 315 •	 • 170 • • 2xØ10 •	<b>Box LAMA 33 + 34D/34PR</b>  • Ø260 • • 550 • • Ø340 •	<b>Box LAMA 33 + 48I</b>  • Ø260 • • 590 • • Ø480 •	<b>Box LAMA 33 + 48D</b>  • Ø260 • • 605 • • Ø480 •	<b>Box LAMA 33 + 41/PC</b>  • Ø260 • • 590 • • Ø410 •	<b>Box LAMA 33 + 57/PC</b>  • Ø260 • • 665 • • Ø570 •	 PG 11 Ø5-Ø10  H05RN-F 3G1  3x2.5mm <sup>2</sup>
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LAMA II high bay fittings are available with different types of aluminium reflectors and prismatic diffusers, to satisfy both industrial and decorative installation needs.

The fittings comprise of control gear box, and reflector or diffuser, each one to be ordered separately by its own code.

**BOX LAMA II:** the body is made of galvanised sheet steel painted grey (RAL 9006), the interior tray is in polyamide. The lampholder is adjustable internally according to graduated markings.

**REFLECTORS:** in very pure, polished anodised aluminium available for models 34D, 34PR, 48D and 48I.

Protection grill and/or closing glasses (available as accessories) can be mounted on reflectors. Reflector fitted with closing glass achieves IP54.

**DIFFUSERS:** made in methacrylate with longitudinal prisms. 41PMMA and 57PMMA models are transparent.

On request the fittings are supplied with switching device for immediate re-lighting of one halogen lamp MAX 250W, B15d socket (A0195/II accessory). The A0195 accessory must be ordered with the fitting and is supplied ready mounted.

*LAMA II Luminaria de campana disponible en varios tipos de reflector y difusor prismático, para cumplir con los requerimientos industriales y decorativos.*

*La luminaria comprende: caja de equipos y Reflector o Difusor, cada uno debe encargarse con su correspondiente código.*

**BOX LAMA II:** *caja de equipos eléctricos fabricada con chapa de acero pintado gris (RAL 9006) la armadura interior es de poliamida. El portalámparas se ajusta internamente según las marcas.*

**REFLECTOR:** *fabricado en aluminio puro anodizado, disponible en modelos 34D, 34PR, 48D y 48I.*

*Malla de protección y vidrio se pueden montar juntos o separados en el reflector (Accesorios) Reflector consigue IP54 con vidrio montado.*

**DIFUSOR:** *fabricado en metacrilato con prismas longitudinales, 41PMMA y 57PMMA estos modelos son transparentes.*







*Bajo demanda las luminarias pueden suministrarse con relé de conmutación para re encendido en caliente, con lámpara halógena de max. 250 W, portalámparas B15d (Accesorio A0195/II)*

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








TECHNICAL AND UTILIZATION DATA DATOS TECNICOS Y DE MONTAJE

CLASS II		94	IP 20						













94	BOX LAMA 65				
05054894	65/ 125	CR			E27 125W HQL / HPL-N
05054994	65/ 251	CR			E40 250W HQL / HPL-N
05055094	65/ 401	CR			E40 400W HQL / HPL-N / HPI-BUS 
05055194	65/ 150	CR			E40 150W NAV-E / SON
05055294	65/ 252	CR			E40 250W NAV-E / SON HQI-E/D  HPI-BU Plus
05055394	65/ 402	CR			E40 400W NAV-E / SON HQI-E/D  HPI-BU Plus
05055494	65/ 250	CR			E40 250W HQI-E N/SI  HPI-BU Plus
05055594	65/ 400	CR			E40 400W HQI-E N/SI  HPI-BU Plus



94	BOX LAMA 33				
05048394	33/ 125	CR			E27 125W HQL / HPL-N
05048494	33/ 251	CR			E40 250W HQL / HPL-N
05048594	33/ 401	CR			E40 400W HQL / HPL-N  *HPI-BUS
05048694	33/ 150	CR			E40 150W NAV-E / SON
05048794	33/ 252	CR			E40 250W NAV-E / SON  HQI-E/D  *HPI-BU Plus
05048894	33/ 402	CR			E40 400W NAV-E / SON  HQI-E/D  *HPI-BU Plus
05048994	33/ 250	CR			E40 250W  HQI-E N/SI  *HPI-BU Plus
05049094	33/ 400	CR			E40 400W  HQI-E N/SI  *HPI-BU Plus



94	BOX LAMA II				
05064394	II /125	CR			E27 125W HQL / HPL-N
05064494	II /251	CR			E40 250W HQL / HPL-N
05064594	II /401	CR			E40 400W HQL / HPL-N  *HPI-BUS
05064694	II /150	CR			E40 150W NAV-E / SON
05064794	II /252	CR			E40 250W NAV-E / SON  HQI-E/D  *HPI-BU Plus
05064894	II /402	CR			E40 400W NAV-E / SON  HQI-E/D  *HPI-BU Plus
05064994	II /250	CR			E40 250W  HQI-E N/SI  *HPI-BU Plus
05065094	II /400	CR			E40 400W  HQI-E N/SI  *HPI-BU Plus

\* These kinds of lamps are not suitable to be employed with an open reflector.


A protection screen must be employed with a toughened **glass protection screen** (see accessories **A0120 - A0199**). The same kinds of lamps, in the "protected" version, can be employed also with an open reflector.

• HPI-BU PLUS operates with Sodium A:P: control gear (250W/23.500 lumens and 400W/40.000 lumens) or with halide mercury control gear (250W/17.000 lumens and 400W/32.500 lumens).

*Esta clase de lámparas no pueden instalarse en los reflectores abiertos.*

*Una malla de protección debe emplearse (véase accesorios **A0120-A0199**). Los mismos tipos de lámparas pueden emplearse en las versiones Protegidas, con reflector abierto.*

*HPI-BU PLUS funcionando con Sodio Alta Presión: Equipos (250W/23.500 Lúmenes y 400W/40.000 Lúmenes) o Halogenuros Metálicos (250W/17.000 Lúmenes y 400W/32.000 Lúmenes).*

 Lamp with integral ignitor.

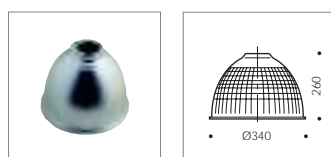
 Lámpara con arrancador integrado.



14440994 - A0119/34D

Reflector 34D (max 250W) with wide beam.

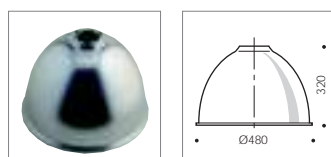
*Reflector 34D (max 250W) con emisión extensiva.*



14004710 - A0176/34PR

Reflector 34PR (max 250W) with faceted surface is suitable for prestigious and decorative installations or when a soft non-glare light emission is required.

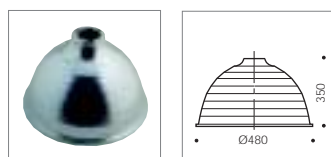
*Reflector 34PR (250W) con superficie facetada, para instalaciones de prestigio y decorativas, o cuando no se desea deslumbramientos.*



14441994 - A0119/48D

Reflector 48D (250 ÷ 400W) with wide beam is suitable for normal installation heights from 8 to 10m.

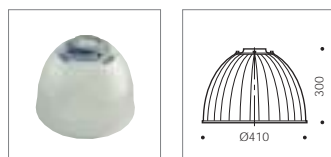
*Reflector 48D (250÷400W) con emisor extensivo para instalación a 8/10 m. de altura.*



14442994 - A0119/48I

Narrow beam reflector 48I (250 ÷ 400W) is suitable for installation heights >10m.

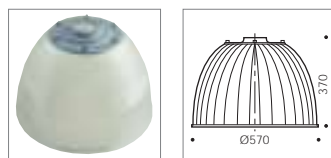
*Reflector 48 I (250÷400W) emisión intensiva, para instalaciones >10m.*



14004320 - A0174/41PMMA

Diffusers Ø410mm in methacrylate (PMMA) with aluminium plate painted grey RAL 9006.

*Difusor de metacrilato (PMMA) 410 mm. d, con platina de aluminio pintada gris RAL 9006.*



14004520 - A0175/57PMMA

Diffusers Ø570mm in methacrylate (PMMA) with aluminium plate painted grey RAL 9006.

*Difusor de metacrilato (PMMA) 510 mm. d, con platina de aluminio pintada gris RAL 9006.*

Light Source	34D 34PR	48D 48I	41 PMMA	57 PMMA
125W	•	•	•	•
150W	•*	•*	•	•
250W	•*	•*	•	•
400W	•	•*	•	•

• OK  
• NO

**Reflectors / lamps compatibility**

Type 34 and type 48 Aluminium reflectors can be installed on LAMA 65, LAMA 33 and LAMA II fittings. PMMA diffusers can be installed on LAMA 33 and LAMA II (not on Lama 65).

**Compatibilidad Reflectores/Lámparas**

Reflectores Tipo 34 y Tipo 48 Aluminio se pueden instalar en Luminaria LAMA65, LAMA 33 y LAMA II. Los difusores de PMMA se pueden instalar en LAMA 33 y LAMA II (No en LAMA 65).

\* Tempered glass protection screen must be employed together with Metal Halide lamps (not protected).

*Debe utilizarse vidrio templado como protección, cuando se utiliza lámpara de Halogenuro Metálico, no protegidas.*

■ Only for Protected Metal Halide lamps (.../Protected).

*Solo para lámparas protegidas de Halogenuro Metálico.*



14322994 - A0081/34D-PR  
14321994 - A0080/48D-I

Protection grill in galvanized steel. It can be mounted together with protection glass. Not suitable for PMMA diffusers.

*Malla de protección de acero galvanizada, puede montarse junto con vidrio de protección. No es posible montaje con difusores PMMA.*



14008820 - A0120/AL-34  
14008920 - A0120/AL-48  
14020220 - A0120/AL-34 Soft  
14047820 - A0120/AL-48 Soft

Toughened protection glass with aluminium clips and nylon retaining rope. (For AL reflectors only - not suitable for PMMA diffusers). "Soft" versions give a more diffused and comfortable light emission.

*Vidrio templado con clips de aluminio y muelles de nylon (Solo para reflectores AL- no se puede instalar con difusores de Metacrilato PMMA) La versión opal difumina mejor el flujo luminoso emitido.*



14010120 - A0199/48

Half globe closing diffuser in polycarbonate with black technopolymer hinges. Suitable for food-store installations where replacement of the protection glass is necessary. Suitable only for 48D and 48I reflectors.

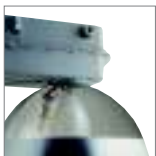
*Difusor de Media Esfera en policarbonato con sujeciones de tecnopolímero negro. Propias para almacenes de alimentación para reemplazar necesariamente el vidrio de protección. Utilizable solo para reflectores 48D y 48I reflectors.*



14005420 - A0180/41PMMA  
14005620 - A0181/57PMMA

Diffusers closing screens in PMMA that provide the transparency, guarantee IP43 protection degree to the optic.

*Pantalla para difusor en PMMA transparente, protección IP43 para la óptica.*



14007720 - A0195/65 ( x LAMA 65)  
14007920 - A0195/33 ( x LAMA 33)  
14007820 - A0195/II ( x LAMA II)

Switching device for immediate re-lighting of one halogen lamp MAX 250W B15d socket. The device keeps the halogen lamp on until the discharge lamp reaches full brightness. The device must be ordered together with the fitting and is supplied ready mounted. Due to the temperature 250W and 400W LAMA 65 must be installed at  $\geq 200$ mm distance from the ceiling. A0195/II device cannot be installed on LAMA II 402 model.

*Relé de conmutación para re encendido en caliente, permite lámpara halógena de 250W, portalámparas B15d. Este relé mantiene la halógena encendida hasta que se caliente la lámpara de Halogenuro. Este relé debe encargarse junto con la luminaria, para ser montado en origen. Debido a la temperatura de la Caja LAMA 65, con lámparas de 250/400W, debe instalarse la luminaria a 200mm mínimo del techo. A0195/II no puede ser instalado en el modelo LAMA II 402.*



14005720 - A0182

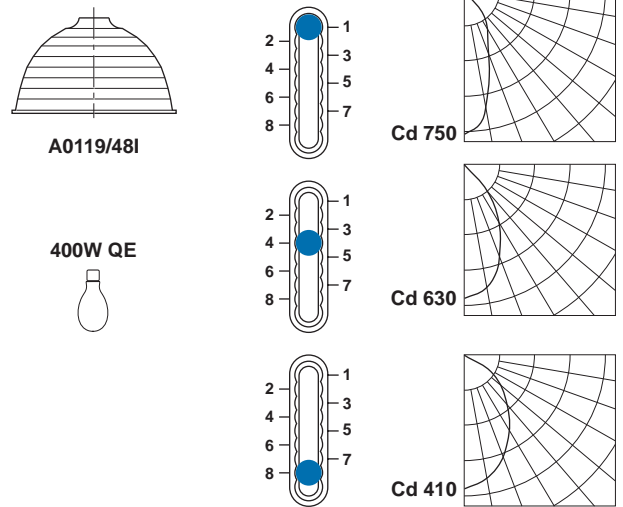
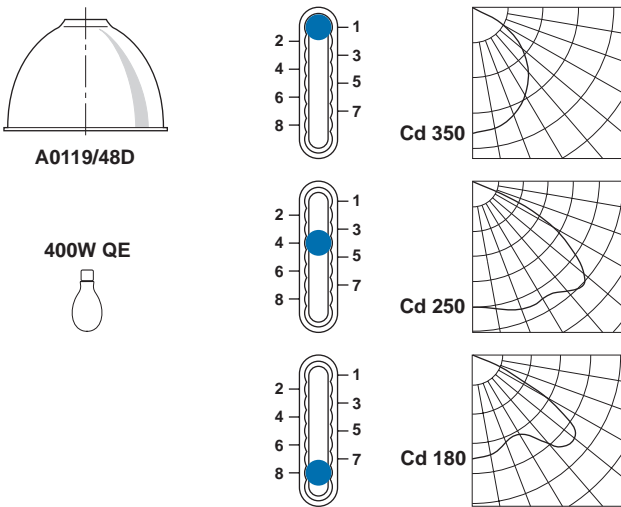
PG13,5 cable gland set for connection in series. Suitable only for LAMA 65.

*Conjunto pasa cables prensa PG13,5 para alimentación en serie. Instalable solamente en la luminaria LAMA 65*



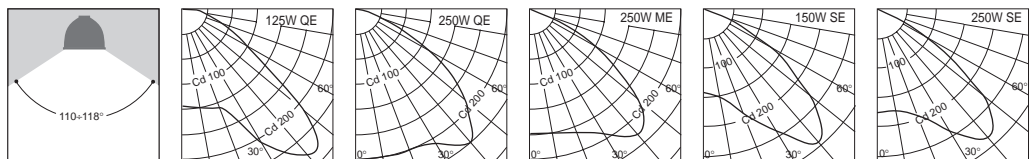
Photometric curves in these pages refer to LAMA 33 models with fixed lamp positions. For LAMA 65 and LAMA II models with adjustable lampholders, curves refer to intermediate position N°4. When lampholder is moved from position N°4 towards position N°1, the light emission becomes narrower. When it is moved towards position N°8, the light emission becomes wider.

Las curvas fotométricas referidas en estas páginas son de LAMA 33, con lámparas distintamente ajustadas. Para LAMA 65 y LAMA II las curvas se refieren a la ajuste posición N° 4. Cuando el portalámparas se ajuste de la posición 4 hasta la posición 1 la emisión se hace más intensiva. Cuando el ajuste se hace en la posición 8, la emisión se hace extensiva.



LAMA 33+34D

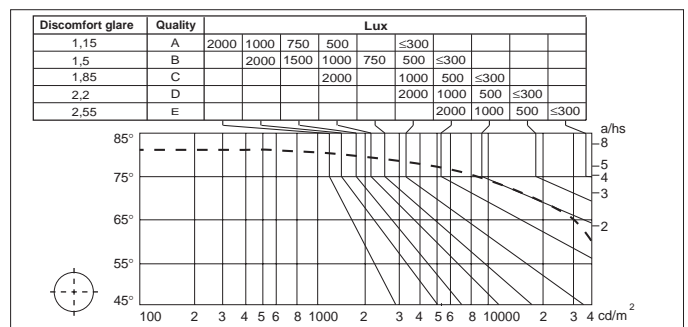
250W QE  
1x13000 Lumen



cod. C.I.E.: 45-84-99-100-77 UTE C71-121: 0,77 F + 0,00 T BZ: 4 REND. 76.6 %

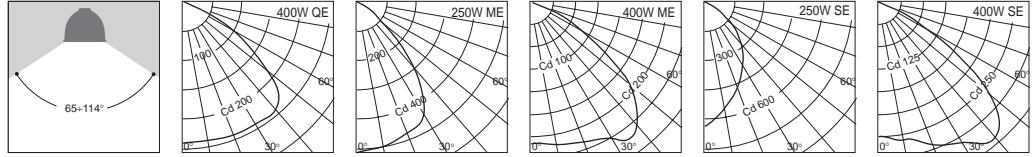
A	80	70	70	70	70	50	50	50	30	30	30	0
B	70	70	50	30	10	50	30	10	50	30	10	0
C	10	10	10	10	10	10	10	10	10	10	10	0
K	0.60	0.42	0.41	0.32	0.26	0.22	0.31	0.26	0.22	0.31	0.26	0.22
	0.80	0.50	0.49	0.41	0.35	0.30	0.39	0.34	0.30	0.38	0.34	0.30
	1.00	0.56	0.55	0.47	0.41	0.37	0.46	0.41	0.37	0.45	0.40	0.37
	1.25	0.61	0.60	0.53	0.48	0.44	0.52	0.47	0.43	0.50	0.46	0.43
	1.50	0.65	0.63	0.57	0.52	0.49	0.56	0.52	0.48	0.54	0.51	0.48
	2.00	0.69	0.68	0.63	0.59	0.56	0.62	0.58	0.55	0.60	0.57	0.55
2.50	0.72	0.71	0.67	0.64	0.61	0.66	0.63	0.60	0.64	0.62	0.59	
3.00	0.74	0.73	0.70	0.67	0.64	0.68	0.66	0.63	0.67	0.64	0.62	
4.00	0.76	0.75	0.73	0.70	0.68	0.71	0.69	0.67	0.69	0.68	0.66	
5.00	0.78	0.77	0.74	0.72	0.71	0.73	0.71	0.69	0.71	0.70	0.68	

A: Ceiling / Plafón / techo  
B: Wall / Pared  
C: Floor / Suelo  
K: Room index / Índice del local



LAMA 33+48D

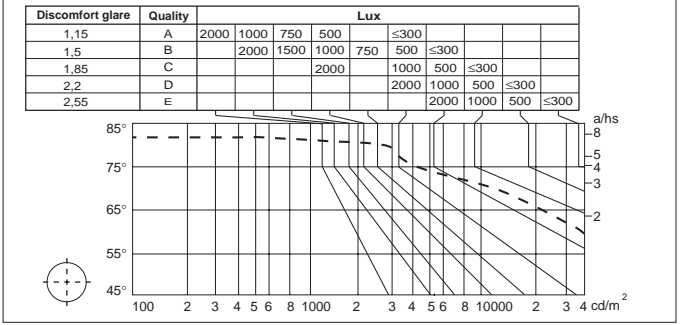
400W SE  
1x47000 Lumen



cod. C.I.E.: 52-92-100-100-78 UTE C71-121: 0,78 D + 0,00 T BZ: 3 **REND. 77.9 %**

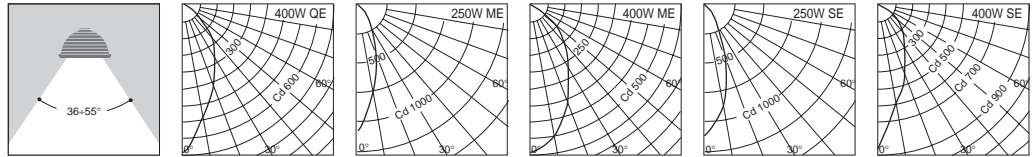
<b>A</b>	80	70	70	70	70	50	50	50	30	30	30	0	
<b>B</b>	70	70	50	30	10	50	30	10	50	30	10	0	
<b>C</b>	10	10	10	10	10	10	10	10	10	10	10	0	
<b>K</b>	0.60	0.45	0.44	0.35	0.30	0.26	0.35	0.30	0.26	0.34	0.29	0.26	0.24
	0.80	0.53	0.52	0.44	0.39	0.35	0.43	0.38	0.34	0.42	0.38	0.34	0.33
	1.00	0.58	0.57	0.50	0.45	0.41	0.49	0.45	0.41	0.48	0.44	0.41	0.39
	1.25	0.63	0.62	0.56	0.52	0.48	0.55	0.51	0.48	0.54	0.50	0.47	0.46
	1.50	0.67	0.66	0.60	0.56	0.53	0.59	0.55	0.52	0.58	0.54	0.52	0.50
	2.00	0.71	0.70	0.66	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.58	0.57
2.50	0.74	0.73	0.69	0.66	0.64	0.68	0.65	0.63	0.66	0.64	0.62	0.61	
3.00	0.75	0.74	0.71	0.69	0.67	0.70	0.68	0.66	0.68	0.67	0.65	0.63	
4.00	0.77	0.76	0.74	0.72	0.70	0.72	0.71	0.69	0.71	0.69	0.68	0.66	
5.00	0.78	0.77	0.75	0.73	0.72	0.74	0.72	0.71	0.72	0.71	0.70	0.68	

**A:** Ceiling / Plafón / techo  
**B:** Wall / Pared  
**C:** Floor / Suelo  
**K:** Room index / Índice del local



LAMA 33+48I

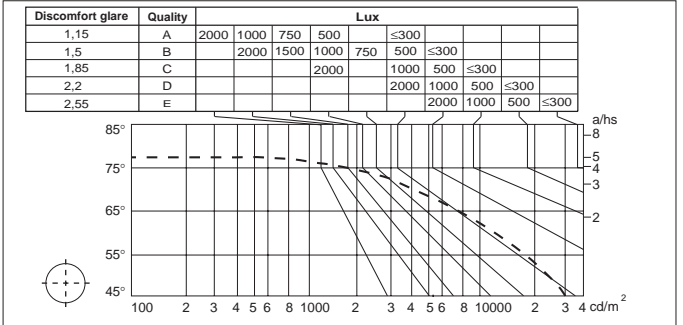
400W QE  
1x22000 Lumen



cod. C.I.E.: 69-95-100-100-70 UTE C71-121: 0,70 C + 0,00 T BZ: 3 **REND. 70.2 %**

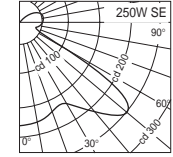
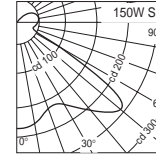
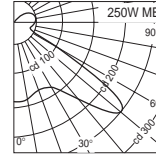
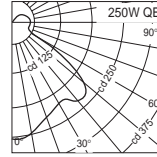
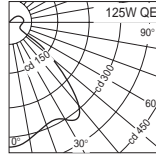
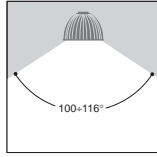
<b>A</b>	80	70	70	70	70	50	50	50	30	30	30	0	
<b>B</b>	70	70	50	30	10	50	30	10	50	30	10	0	
<b>C</b>	10	10	10	10	10	10	10	10	10	10	10	0	
<b>K</b>	0.60	0.48	0.47	0.40	0.36	0.33	0.40	0.36	0.33	0.39	0.36	0.33	0.32
	0.80	0.54	0.53	0.47	0.43	0.40	0.46	0.42	0.40	0.45	0.42	0.39	0.38
	1.00	0.58	0.57	0.52	0.48	0.45	0.51	0.47	0.45	0.50	0.47	0.45	0.43
	1.25	0.62	0.61	0.56	0.53	0.50	0.55	0.52	0.50	0.54	0.51	0.49	0.48
	1.50	0.64	0.63	0.59	0.56	0.54	0.58	0.55	0.53	0.57	0.55	0.53	0.51
	2.00	0.68	0.67	0.64	0.61	0.59	0.62	0.60	0.58	0.61	0.59	0.58	0.56
2.50	0.70	0.69	0.66	0.64	0.62	0.65	0.63	0.62	0.64	0.62	0.61	0.59	
3.00	0.71	0.70	0.68	0.66	0.65	0.67	0.65	0.64	0.65	0.64	0.63	0.61	
4.00	0.72	0.71	0.70	0.68	0.67	0.68	0.67	0.66	0.67	0.66	0.65	0.64	
5.00	0.73	0.72	0.71	0.70	0.69	0.70	0.68	0.68	0.68	0.67	0.67	0.65	

**A:** Ceiling / Plafón / techo  
**B:** Wall / Pared  
**C:** Floor / Suelo  
**K:** Room index / Índice del local



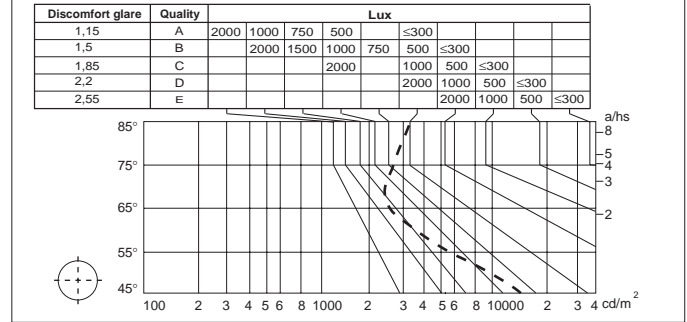
LAMA 33+41PMMA

250W QE  
1x13000 Lumen



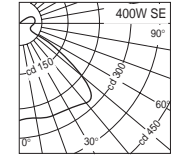
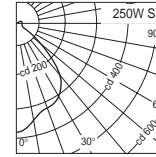
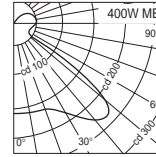
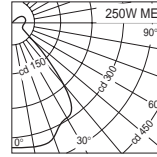
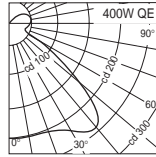
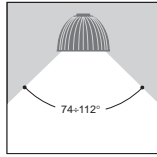
cod. C.I.E.: 45-79-91-80-94 UTE C71-121: 0,75 H + 0,18 T BZ: 5 **REND. 93.6 %**

<b>A</b>	80	70	70	70	70	50	50	50	30	30	30	0
<b>B</b>	70	70	50	30	10	50	30	10	50	30	10	0
<b>C</b>	10	10	10	10	10	10	10	10	10	10	10	0
<b>K</b>	0.60	0.50	0.48	0.38	0.31	0.26	0.35	0.29	0.25	0.33	0.28	0.24
	0.80	0.60	0.56	0.47	0.40	0.35	0.39	0.44	0.33	0.41	0.35	0.31
	1.00	0.65	0.63	0.53	0.47	0.42	0.50	0.44	0.40	0.47	0.42	0.38
	1.25	0.71	0.68	0.60	0.53	0.49	0.56	0.51	0.46	0.52	0.48	0.44
	1.50	0.75	0.72	0.65	0.58	0.54	0.60	0.55	0.51	0.56	0.52	0.48
	2.00	0.80	0.77	0.71	0.6	0.61	0.66	0.62	0.58	0.62	0.58	0.55
<b>A:</b> Ceiling <i>Plafón techo</i>	1.50	0.83	0.80	0.75	0.70	0.66	0.70	0.66	0.63	0.65	0.62	0.60
	3.00	0.86	0.82	0.78	0.74	0.70	0.73	0.70	0.66	0.68	0.65	0.63
	4.00	0.88	0.85	0.81	0.78	0.75	0.76	0.73	0.71	0.71	0.69	0.66
	5.00	0.90	0.87	0.83	0.80	0.78	0.78	0.75	0.73	0.73	0.71	0.70
<b>B:</b> Wall <i>Pared</i>	1.50	0.80	0.77	0.71	0.6	0.61	0.66	0.62	0.58	0.62	0.58	0.55
	2.50	0.83	0.80	0.75	0.70	0.66	0.70	0.66	0.63	0.65	0.62	0.60
<b>C:</b> Floor <i>Suelo</i>	3.00	0.86	0.82	0.78	0.74	0.70	0.73	0.70	0.66	0.68	0.65	0.63
	4.00	0.88	0.85	0.81	0.78	0.75	0.76	0.73	0.71	0.71	0.69	0.66
<b>K:</b> Room index <i>Indice del local</i>	4.00	0.88	0.85	0.81	0.78	0.75	0.76	0.73	0.71	0.71	0.69	0.66
	5.00	0.90	0.87	0.83	0.80	0.78	0.78	0.75	0.73	0.73	0.71	0.70



LAMA 33+57PMMA

400W SE  
1x47000 Lumen



cod. C.I.E.: 55-85-92-80-91 UTE C71-121: 0,73 F + 0,18 T BZ: 5 **REND. 91.0 %**

<b>A</b>	80	70	70	70	70	50	50	50	30	30	30	0
<b>B</b>	70	70	50	30	10	50	30	10	50	30	10	0
<b>C</b>	10	10	10	10	10	10	10	10	10	10	10	0
<b>K</b>	0.60	0.52	0.51	0.41	0.35	0.31	0.39	0.34	0.30	0.37	0.32	0.29
	0.80	0.61	0.59	0.50	0.43	0.40	0.47	0.41	0.37	0.44	0.39	0.36
	1.00	0.66	0.64	0.56	0.50	0.46	0.52	0.47	0.44	0.49	0.45	0.42
	1.25	0.71	0.69	0.62	0.56	0.52	0.58	0.53	0.49	0.54	0.50	0.47
	1.50	0.75	0.72	0.65	0.60	0.56	0.61	0.57	0.54	0.58	0.54	0.51
	2.00	0.80	0.77	0.71	0.67	0.63	0.67	0.63	0.60	0.63	0.60	0.57
<b>A:</b> Ceiling <i>Plafón techo</i>	2.50	0.83	0.80	0.75	0.71	0.67	0.70	0.67	0.64	0.66	0.63	0.61
	3.00	0.84	0.81	0.77	0.74	0.71	0.72	0.70	0.67	0.68	0.66	0.63
	4.00	0.87	0.84	0.80	0.77	0.75	0.75	0.73	0.71	0.70	0.68	0.67
	5.00	0.81	0.85	0.82	0.80	0.77	0.77	0.75	0.73	0.72	0.70	0.69
<b>B:</b> Wall <i>Pared</i>	1.50	0.75	0.72	0.65	0.60	0.56	0.61	0.57	0.54	0.58	0.54	0.51
	2.50	0.83	0.80	0.75	0.71	0.67	0.70	0.67	0.64	0.66	0.63	0.61
<b>C:</b> Floor <i>Suelo</i>	3.00	0.84	0.81	0.77	0.74	0.71	0.72	0.70	0.67	0.68	0.66	0.63
	4.00	0.87	0.84	0.80	0.77	0.75	0.75	0.73	0.71	0.70	0.68	0.67
<b>K:</b> Room index <i>Indice del local</i>	4.00	0.87	0.84	0.80	0.77	0.75	0.75	0.73	0.71	0.70	0.68	0.67
	5.00	0.81	0.85	0.82	0.80	0.77	0.77	0.75	0.73	0.72	0.70	0.69

