

UMBRA ADVANCED DIFFUSED

Advanced Diffused Batten, Dual Power, Tri-CCT

FEATURES

- Tri-colour selection
- Long life electronics
- LED lifetime >60,000 hours
- 8 years design life at max. ambient
- Increased ambient temperature of 40 degrees
- Increased lumen efficiency
- Exclusive 5 year warranty
- Emergency models fully compliant (AS/NZS 2293.3)
- High quality lithium battery (LiFePO4) and smart charger included with emergency models
- Microwave sensor
- Corridor mode

ORDERING INFORMATION	
Order code	12181
Description	UMBRA ADVANCED 600mm Diffused LED Emergency batten - Tri-CCT
Driver Type	Fixed output
Item Code	EV-UMBRA-ADV-DIFF-600-EM-TRI

MECHANICAL	
Body Material	Powder Coated Steel
Diffuser Material	PMMA
Fitting Colour	White
Installation Type	Surface mount
IP Rating	IP20

ELECTRICAL	
Electrical Rating	Class I
Input Current	0.1 A
Input Frequency	50 Hz
Input voltage	230Vac
In Australia the Input voltage is defined as 230Vac -6%/+10%. This effectively means that the voltage range of these products are 216Vac - 253Vac or 240V +6%	
Maximum Wattage	24 W
Power Factor	0.9
Standby Power	1 W

Standby power for non-maintained/switched maintained emergency devices is



measured when the light is off and the charger is in standby mode. For maintained emergency devices, standby power is measured when the light is on and the charger is in standby mode. Typically, charging occurs for the first 16 hours after the device is powered or after a battery discharge.

Switch Type	Inline
Working Temp Range	0 to 40 °C

LAMP	
Macadam Steps (SDCM)	4-step MacAdam Ellipse
CCT Configuration	TRI-CCT
CRI	>80
Lamp/LED Current	480 mA
Lamp/LED voltage	36 V
System Efficiency	107 lm/W

LED LIFETIME		
LED Lifetime	>60000 hrs	
This is the Reported LED Lifetime in Hours based on TM-21. Ektor does not list the projected or calculated LED lifetime, which is normally longer as TM-21 Addendum B explicitly states "The Calculated and Projected Lp(Dk) are not to be reported". This Lifetime refers to the life of a single LED however the system life is longer since the probability and binomial distribution of all LEDs in the system means that the average led is performing above the specification and compensates for the LEDs falling below.		
Ambient Temp (°C)	25 °C	40 °C
L90B10	23000 hrs	22000 hrs
L80B10	47000 hrs	45000 hrs
L70B10	>60000 hrs	>60000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of



LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to IEC62717.

TM-21 Test Hours	10000 hrs
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COLOUR TEMPERATURE

CCT	4000 K
LED Wattage	22 W
Luminaire Lumens	2250 lm

All photometric data has a tolerance of $\pm 10\%$. Luminaire lumens refers to the exit lumens or delivered lumens from the luminaire.

DRIVER

Dimmable	No
Driver Included	Yes
Integrated Driver	No
Driver Type	Fixed output
Wiring Type	Re-wireable terminal block (4 pin)

EMERGENCY (EM SUFFIX)

Replacement Battery Code	01302
Emergency Classification	C0:D63, C90:D32
Emergency Duration	90 mins
Emergency Lumen Output	400 lm
Emergency Mode	Maintained
Emergency Output Power	3400 mW

ENERGY SAVINGS SCHEME

Ipart Approval	Yes
REES Approval	Yes
VEU Approval	Yes

COMPLIANCE

Product Design Life	8 years
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The product design life relates to the total product life which includes LEDs, drivers and the enclosure. This is different to the LED lifetime which only refers to the economical lifetime of the LEDs at which time the lumen output has dropped below the L Value. The product design life is calculated at the maximum ambient or working temperature of the product and takes into account the Daily Use.

Daily Use	16 hrs
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The Daily Use is the recommended time required to meet the product's design life. Installations can exceed this time, however the product design life will be reduced proportionally.

Standards	AS/NZS 60598.1 AS 60598.2.22 AS/NZS 61347.1
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Information is subject to change without prior notice. Images are for illustrative purposes only. E&OE

AS/NZS 61347.2.13
AS CISPR 15
AS/NZS 2293.3

WARRANTY

Commercial Use Warranty	5Y return to base on General lighting components 6Y return to base on Emergency lighting components First 2Y includes an exclusive onsite warranty
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Warranty Operating Hours	25000 hrs
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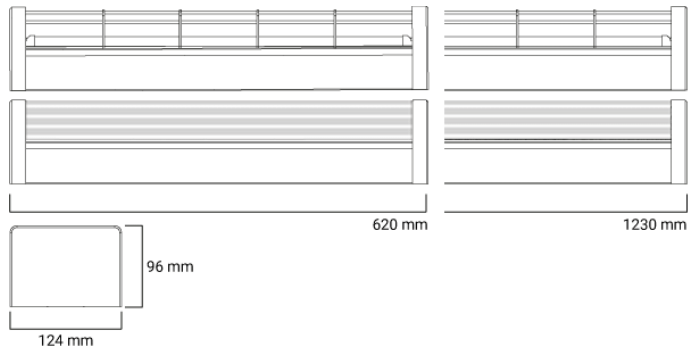
This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

Product Height	93 mm
Product Length	620 mm
Product Width	130 mm

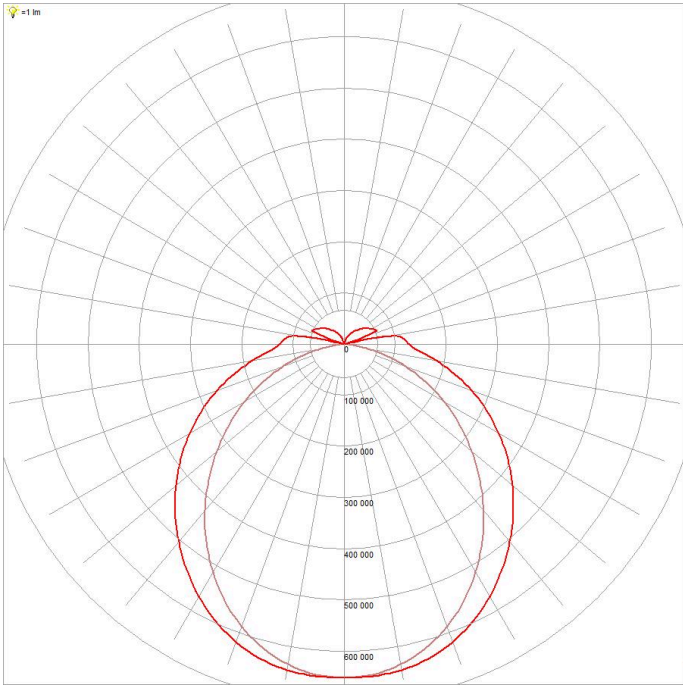
LINE DRAWINGS

EV/UMBRA/ADV/DIFF

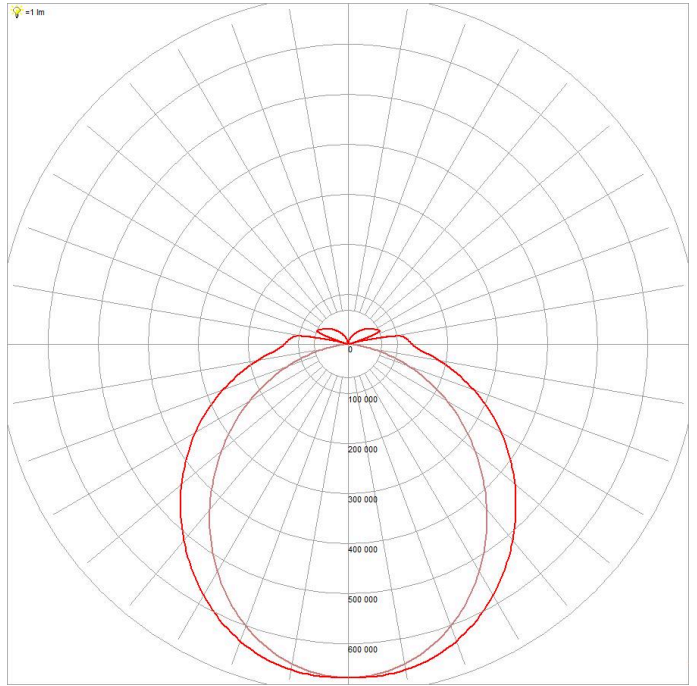


PHOTOMETRICS

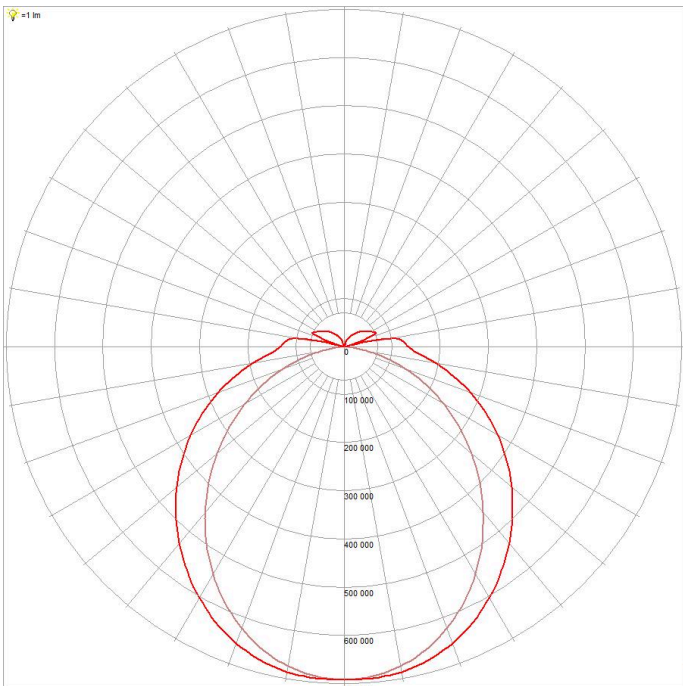
UMBRA_ADV_DIFF_600MM_(EM+S)_FULL_POWER_6500K



UMBRA_ADV_DIFF_600MM_(EM+S)_FULL_POWER_4000K



UMBRA_ADV_DIFF_600MM_(EM+S)_FULL_POWER_5000K



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FEATURES

- Tri-colour selection
- Long life electronics
- LED lifetime >60,000 hours
- 8 years design life at max. ambient
- Increased ambient temperature of 40 degrees
- Increased lumen efficiency
- Exclusive 5 year warranty
- Emergency models fully compliant (AS/NZS 2293.3)
- High quality lithium battery (LiFePO4) and smart charger included with emergency models

ORDERING INFORMATION

Order code	12183
Description	UMBRA ADVANCED 600mm Diffused LED Em batten - Tri-CCT w sensor
Driver Type	Fixed output
Item Code	EV-UMBRA-ADV-DIFF-600-EM-S-TRI

MECHANICAL

Body Material	Powder Coated Steel
Diffuser Material	PMMA
Fitting Colour	White
Installation Type	Surface mount
IP Rating	IP20

ELECTRICAL

Electrical Rating	Class I
Input Current	0.1 A
Input Frequency	50 Hz
Input voltage	230Vac
In Australia the Input voltage is defined as 230Vac -6%/+10%. This effectively means that the voltage range of these products are 216Vac - 253Vac or 240V +6%	
Maximum Wattage	24 W
Power Factor	0.9
Standby Power	1 W

Standby power for non-maintained/switched maintained emergency devices is measured when the light is off and the charger is in standby mode. For maintained emergency devices, standby power is measured when the light is on



and the charger is in standby mode. Typically, charging occurs for the first 16 hours after the device is powered or after a battery discharge.

Switch Type	Inline
Working Temp Range	0 to 40 °C

LAMP

Macadam Steps (SDCM)	4-step MacAdam Ellipse
CCT Configuration	TRI-CCT
CRI	>80
Lamp/LED Current	480 mA
Lamp/LED voltage	36 V
System Efficiency	107 lm/W

LED LIFETIME

LED Lifetime	>60000 hrs	
This is the Reported LED Lifetime in Hours based on TM-21. Ektor does not list the projected or calculated LED lifetime, which is normally longer as TM-21 Addendum B explicitly states "The Calculated and Projected Lp(Dk) are not to be reported". This Lifetime refers to the life of a single LED however the system life is longer since the probability and binomial distribution of all LEDs in the system means that the average led is performing above the specification and compensates for the LEDs falling below.		
Ambient Temp (°C)	25 °C	40 °C
L90B10	23000 hrs	22000 hrs
L80B10	47000 hrs	44000 hrs
L70B10	>60000 hrs	>60000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to



IEC62717.

TM-21 Test Hours	10000 hrs
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COLOUR TEMPERATURE

CCT	4000 K
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LED Wattage	22 W
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Luminaire Lumens	2250 lm
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All photometric data has a tolerance of $\pm 10\%$. Luminaire lumens refers to the exit lumens or delivered lumens from the luminaire.

DRIVER

Dimmable	No
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Driver Included	Yes
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Integrated Driver	No
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Driver Type	Fixed output
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Wiring Type	Re-wireable terminal block (4 pin)
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SENSOR (S SUFFIX)

Adjustable Detection Area / Sensitivity	Yes
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Adjustable Hold Time	Yes
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Adjustable Standby Level	Yes
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Adjustable Standby Period	Yes
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Corridor Function	Yes
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Detection Range	10 m
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Dusk Mode	Yes
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Lux Adjustment	Yes
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Sensor Type	Microwave
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Switched Output	No
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Time Delay	5s-14mins
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EMERGENCY (EM SUFFIX)

Replacement Battery Code	01302
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Emergency Classification	C0:D63, C90:D32
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Emergency Duration	90 mins
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Emergency Lumen Output	400 lm
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Emergency Mode	Maintained
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Emergency Output Power	3400 mW
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ENERGY SAVINGS SCHEME

Ipert Approval	Yes
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REES Approval	Yes
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VEU Approval	Yes
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COMPLIANCE

Product Design Life	8 years
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The product design life relates to the total product life which includes LEDs, drivers and the enclosure. This is different to the LED lifetime which only refers to the economical lifetime of the LEDs at which time the lumen output has dropped below the L Value. The product design life is calculated at the maximum ambient or working temperature of the product and takes into account the Daily Use.

Daily Use	16 hrs
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The Daily Use is the recommended time required to meet the product's design life. Installations can exceed this time, however the product design life will be reduced proportionally.

Standards	AS/NZS 60598.1 AS 60598.2.22 AS/NZS 61347.1 AS/NZS 61347.2.13 AS CISPR 15 AS/NZS 2293.3 AS/NZS 4268
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WARRANTY

Commercial Use Warranty	5Y return to base on General lighting components 6Y return to base on Emergency lighting components First 2Y includes an exclusive onsite warranty
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Warranty Operating Hours	25000 hrs
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This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

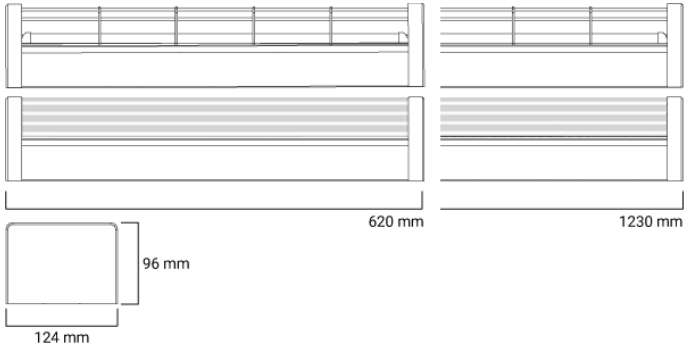
Product Height	93 mm
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Product Length	620 mm
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Product Width	130 mm
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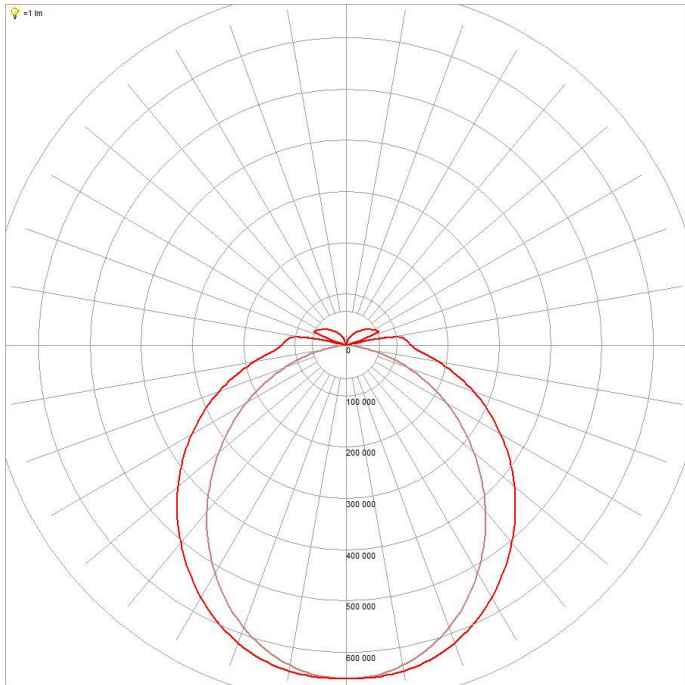
LINE DRAWINGS

EV/UMBRA/ADV/DIFF

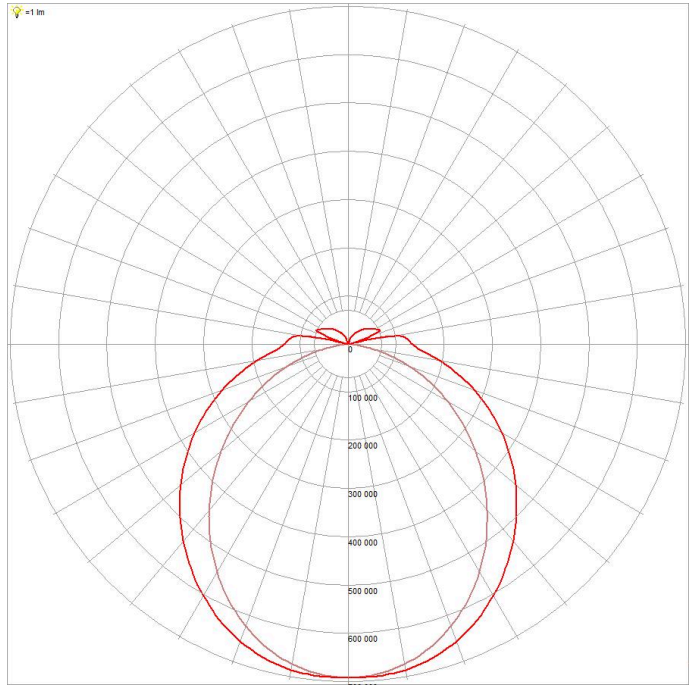


PHOTOMETRICS

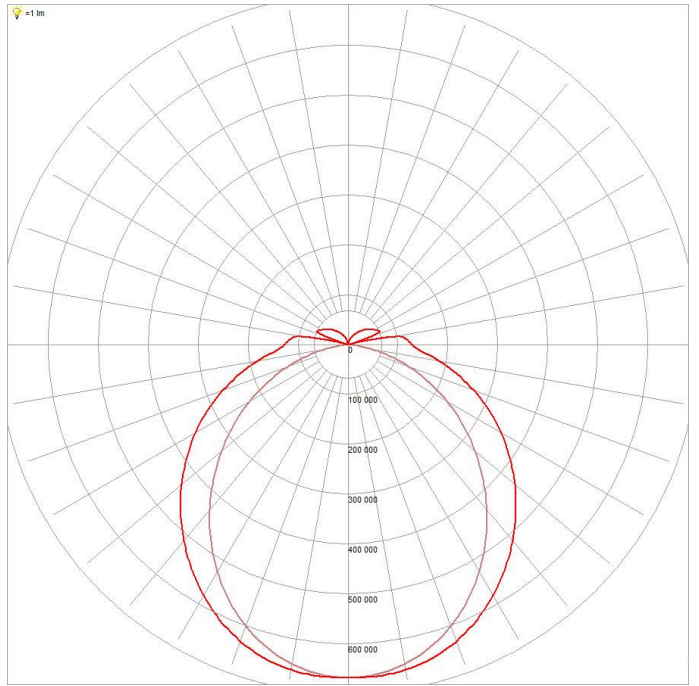
UMBRA_ADV_DIFF_600MM_(EM+S)_FULL_POWER_6500K



UMBRA_ADV_DIFF_600MM_(EM+S)_FULL_POWER_5000K



UMBRA_ADV_DIFF_600MM_(EM+S)_FULL_POWER_4000K



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FEATURES

- Tri-colour selection
- Long life electronics
- LED lifetime >60,000 hours
- 8 years design life at max. ambient
- Increased ambient temperature of 40 degrees
- Increased lumen efficiency
- Exclusive 5 year warranty
- Emergency models fully compliant (AS/NZS 2293.3)
- High quality lithium battery (LiFePO4) and smart charger included with emergency models



ORDERING INFORMATION

Order code	12186
Description	UMBRA ADVANCED 1200mm Diffused LED Emergency batten - Tri-CCT
Driver Type	Fixed output
Item Code	EV-UMBRA-ADV-DIFF-1200-EM-TRI

MECHANICAL

Body Material	Powder Coated Steel
Diffuser Material	PMMA
Fitting Colour	White
Installation Type	Surface mount
IP Rating	IP20

ELECTRICAL

Electrical Rating	Class I
Input Current	0.2 A
Input Frequency	50 Hz
Input voltage	230Vac
Maximum Wattage	38 W
Power Factor	0.9
Standby Power	1 W

Standby power for non-maintained/switched maintained emergency devices is measured when the light is off and the charger is in standby mode. For maintained emergency devices, standby power is measured when the light is on

and the charger is in standby mode. Typically, charging occurs for the first 16 hours after the device is powered or after a battery discharge.

Switch Type	Inline
Working Temp Range	0 to 40 °C

LAMP

Macadam Steps (SDCM)	4-step MacAdam Ellipse
CCT Configuration	TRI-CCT
CRI	>80
Lamp/LED Current	890 mA
Lamp/LED voltage	36 V
System Efficiency	136 lm/W

LED LIFETIME

LED Lifetime	>60000 hrs	
This is the Reported LED Lifetime in Hours based on TM-21. Ektor does not list the projected or calculated LED lifetime, which is normally longer as TM-21 Addendum B explicitly states "The Calculated and Projected Lp(Dk) are not to be reported". This Lifetime refers to the life of a single LED however the system life is longer since the probability and binomial distribution of all LEDs in the system means that the average led is performing above the specification and compensates for the LEDs falling below.		
Ambient Temp (°C)	25 °C	40 °C
L90B10	23000 hrs	23000 hrs
L80B10	47000 hrs	47000 hrs
L70B10	>60000 hrs	>60000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to

TM-21 Test Hours	10000 hrs
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COLOUR TEMPERATURE

CCT	4000 K
LED Wattage	36 W
Luminaire Lumens	4700 lm

All photometric data has a tolerance of $\pm 10\%$. Luminaire lumens refers to the exit lumens or delivered lumens from the luminaire.

DRIVER

Dimmable	No
Driver Included	Yes
Integrated Driver	No
Driver Type	Fixed output
Wiring Type	Re-wireable terminal block (4 pin)

EMERGENCY (EM SUFFIX)

Replacement Battery Code	01302
Emergency Classification	C0:D63, C90:D40
Emergency Duration	90 mins
Emergency Lumen Output	450 lm
Emergency Mode	Maintained
Emergency Output Power	3400 mW

ENERGY SAVINGS SCHEME

Ipart Approval	Yes
REES Approval	Yes
VEU Approval	Yes

COMPLIANCE

Product Design Life	8 years
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The product design life relates to the total product life which includes LEDs, drivers and the enclosure. This is different to the LED lifetime which only refers to the economical lifetime of the LEDs at which time the lumen output has dropped below the L Value. The product design life is calculated at the maximum ambient or working temperature of the product and takes into account the Daily Use.

Daily Use	16 hrs
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The Daily Use is the recommended time required to meet the product's design life. Installations can exceed this time, however the product design life will be reduced proportionally.

Standards	AS/NZS 60598.1 AS 60598.2.22 AS/NZS 61347.1 AS/NZS 61347.2.13 AS CISPR 15
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WARRANTY

Commercial Use Warranty	5Y return to base on General lighting components 6Y return to base on Emergency lighting components First 2Y includes an exclusive onsite warranty
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Warranty Operating Hours	25000 hrs
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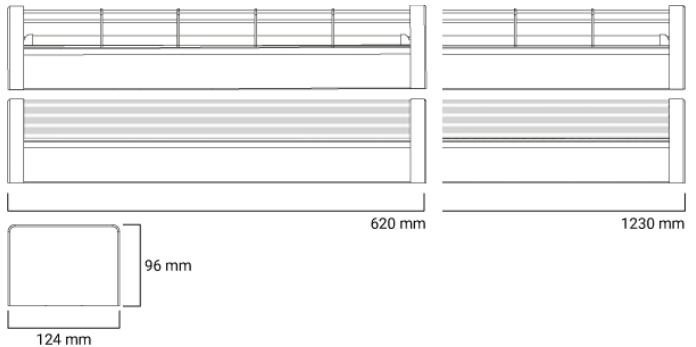
This product is provided with a warranty up until the stated warranty period or until the stated warranty operating hours has been reached (whichever occurs first).

DIMENSIONS

Product Height	93 mm
Product Length	1230 mm
Product Width	130 mm

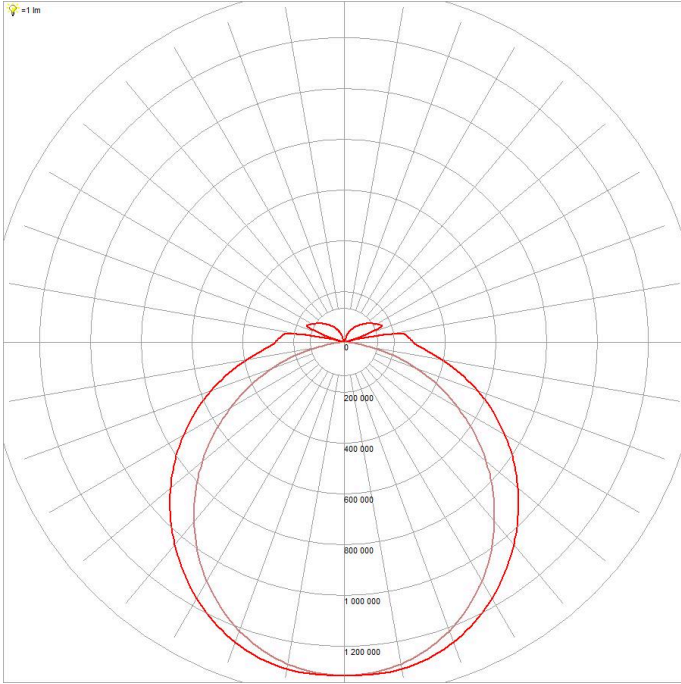
LINE DRAWINGS

EV/UMBRA/ADV/DIFF

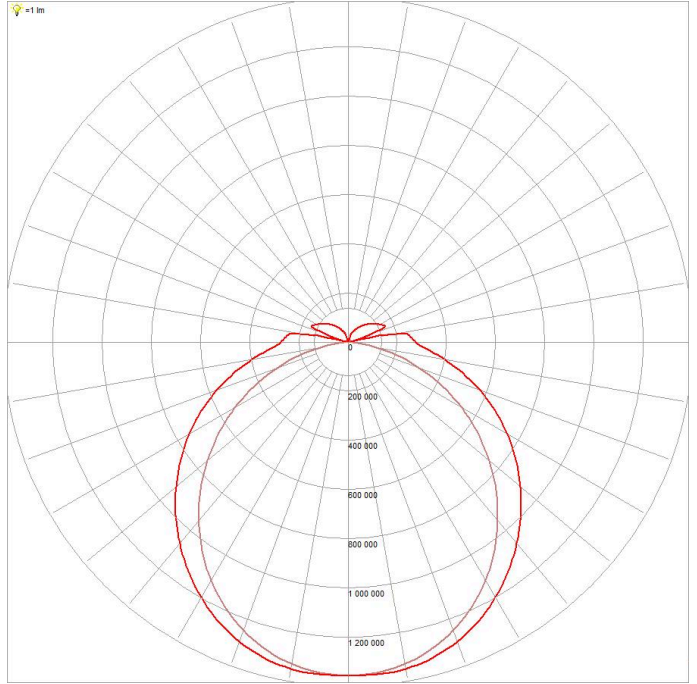


PHOTOMETRICS

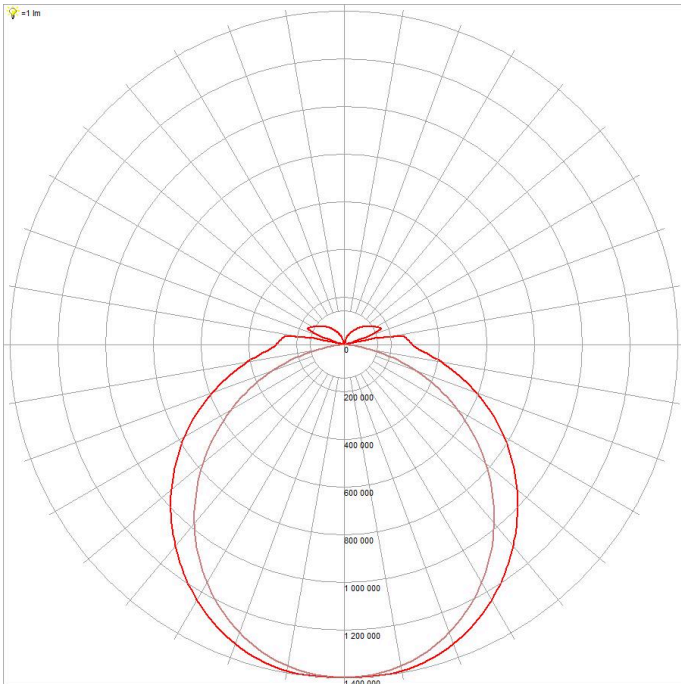
UMBRA_ADV_DIFF_1200MM_(EM+S)_FULL_POWER_6500K



UMBRA_ADV_DIFF_1200MM_(EM+S)_FULL_POWER_4000K



UMBRA_ADV_DIFF_1200MM_(EM+S)_FULL_POWER_5000K



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- Increased ambient temperature of 40 degrees
- Increased lumen efficiency
- Exclusive 5 year warranty
- Emergency models fully compliant (AS/NZS 2293.3)
- High quality lithium battery (LiFePO4) and smart charger included with emergency models
- Microwave sensor
- Corridor mode



ORDERING INFORMATION

Order code	12189
Description	UMBRA ADVANCED 1200mm Diffused LED Em batten - Tri-CCT w sensor
Driver Type	Fixed output
Item Code	EV-UMBRA-ADV-DIFF-1200-EM-S-TRI

MECHANICAL

Body Material	Powder Coated Steel
Diffuser Material	PMMA
Fitting Colour	White
Installation Type	Surface mount
IP Rating	IP20

ELECTRICAL

Electrical Rating	Class I
Input Current	0.2 A
Input Frequency	50 Hz
Input voltage	230Vac
In Australia the Input voltage is defined as 230Vac -6%/+10%. This effectively means that the voltage range of these products are 216Vac - 253Vac or 240V +6%	
Maximum Wattage	36 W
Power Factor	0.9
Standby Power	1 W

Standby power for non-maintained/switched maintained emergency devices is

measured when the light is off and the charger is in standby mode. For maintained emergency devices, standby power is measured when the light is on and the charger is in standby mode. Typically, charging occurs for the first 16 hours after the device is powered or after a battery discharge.

Switch Type	Inline
Working Temp Range	0 to 40 °C

LAMP

Macadam Steps (SDCM)	4-step MacAdam Ellipse
CCT Configuration	TRI-CCT
CRI	>80
Lamp/LED Current	890 mA
Lamp/LED voltage	36 V
System Efficiency	136 lm/W

LED LIFETIME

LED Lifetime	>60000 hrs	
This is the Reported LED Lifetime in Hours based on TM-21. Ektor does not list the projected or calculated LED lifetime, which is normally longer as TM-21 Addendum B explicitly states "The Calculated and Projected Lp(Dk) are not to be reported". This Lifetime refers to the life of a single LED however the system life is longer since the probability and binomial distribution of all LEDs in the system means that the average led is performing above the specification and compensates for the LEDs falling below.		
Ambient Temp (°C)	25 °C	40 °C
L90B10	23000 hrs	23000 hrs
L80B10	47000 hrs	46000 hrs
L70B10	>60000 hrs	>60000 hrs

This rating defines the performance of the led within its lifetime. L relates to lumen depreciation, where the proceeding number gives the resultant lumen output at the end of it reported lifetime. L70, would mean 30% lumen depreciation which means 70% of its initial output and is tested accordingly to TM-21. The B part refers to failures, which can be define as the percentage of



LEDs which fall below the L value in the projected lifetime. A value of B10 refers to 10% failure and a value of B50 refers to 50% failure. After the defined lifetime, the system will reach the defined lumen depreciation and the average led failures is defined by the B rating. The B rating is defined in and tested to IEC62717.

TM-21 Test Hours	10000 hrs
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COLOUR TEMPERATURE

CCT	4000 K
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LED Wattage	36 W
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Luminaire Lumens	4700 lm
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All photometric data has a tolerance of $\pm 10\%$. Luminaire lumens refers to the exit lumens or delivered lumens from the luminaire.

DRIVER

Dimmable	No
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Driver Included	Yes
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Integrated Driver	No
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Driver Type	Fixed output
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Wiring Type	Re-wireable terminal block (4 pin)
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SENSOR (S SUFFIX)

Adjustable Detection Area / Sensitivity	Yes
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Adjustable Hold Time	Yes
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Adjustable Standby Level	Yes
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Adjustable Standby Period	Yes
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Corridor Function	Yes
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Detection Range	10 m
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Dusk Mode	Yes
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Lux Adjustment	Yes
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Sensor Type	Microwave
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Switched Output	No
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Time Delay	5s-14mins
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EMERGENCY (EM SUFFIX)

Replacement Battery Code	01302
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Emergency Classification	C0:D63, C90:D40
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Emergency Duration	90 mins
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Emergency Lumen Output	450 lm
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Emergency Mode	Maintained
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Emergency Output Power	3400 mW
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ENERGY SAVINGS SCHEME

Ipert Approval	Yes
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REES Approval	Yes
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VEU Approval	Yes
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COMPLIANCE

Product Design Life	8 years
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Daily Use	16 hrs
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The Daily Use is the recommended time required to meet the product's design life. Installations can exceed this time, however the product design life will be reduced proportionally.

Standards	AS/NZS 60598.1 AS 60598.2.22 AS/NZS 61347.1 AS/NZS 61347.2.13 AS CISPR 15 AS/NZS 2293.3 AS/NZS 4268
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WARRANTY

Commercial Use Warranty	5Y return to base on General lighting components 6Y return to base on Emergency lighting components First 2Y includes an exclusive onsite warranty
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Warranty Operating Hours	25000 hrs
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DIMENSIONS

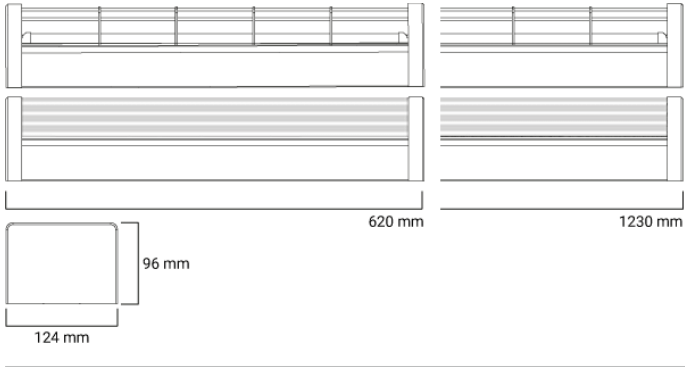
Product Height	93 mm
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Product Length	1230 mm
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Product Width	130 mm
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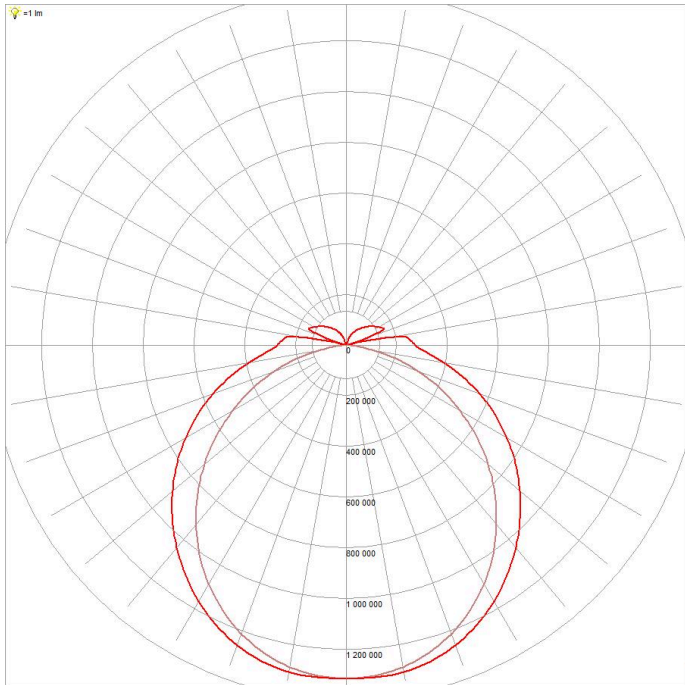
LINE DRAWINGS

EV/UMBRA/ADV/DIFF

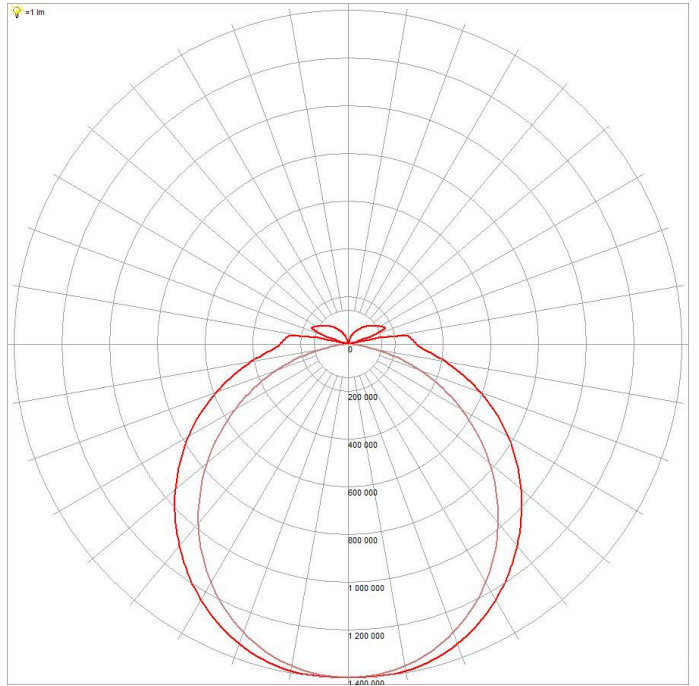


PHOTOMETRICS

UMBRA_ADV_DIFF_1200MM_(EM+S)_FULL_POWER_6500K



UMBRA_ADV_DIFF_1200MM_(EM+S)_FULL_POWER_5000K



UMBRA_ADV_DIFF_1200MM_(EM+S)_FULL_POWER_4000K

