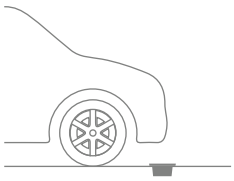
# STRA

## OUTDOOR RECESSED UPLIGHTS
## ARCHICTECTURAL LIGHTING FOR LARGE BUILDINGS



2700K 3000K 4000K

2700K 3000K 4000K

RGBW

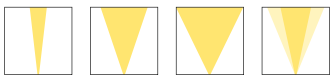
### FIXED OPTICS

narrow medium wide elliptical wall washer

**STRA 1.0** p. 106
37W 230Vac

**STRA 5.0** p. 109
39W 24Vdc

### ADJUSTABLE OPTICS



narrow medium wide elliptical

**STRA 2.0** p. 106
1 set of optics
25W 230Vac

**STRA 3.0** p. 107
2 sets of optics
25W 230Vac

**STRA 4.0** p. 107
25W 230Vac

STRA 1.0:
66°x11° OPTICS
ADJUSTABLE THROUGH
360° USING MAGNET
INCLUDED
(PATENTED)

TRIM IN AISI 316L STAINLESS STEEL,
PRODUCED ENTIRELY
ON A CNC LATHE,
MICROBLASTED, PASSIVATED
AND ELECTROPOLISHED.
THE BEST CORROSION
TREATMENT

BUILT-IN
PROTECTION
SYSTEMS:

IPS
INTELLIGENT PROTECTION SYSTEM

PID
PROTECTIVE IMPEDANCE DEVICE

SPD
SURGE PROTECTION DEVICE

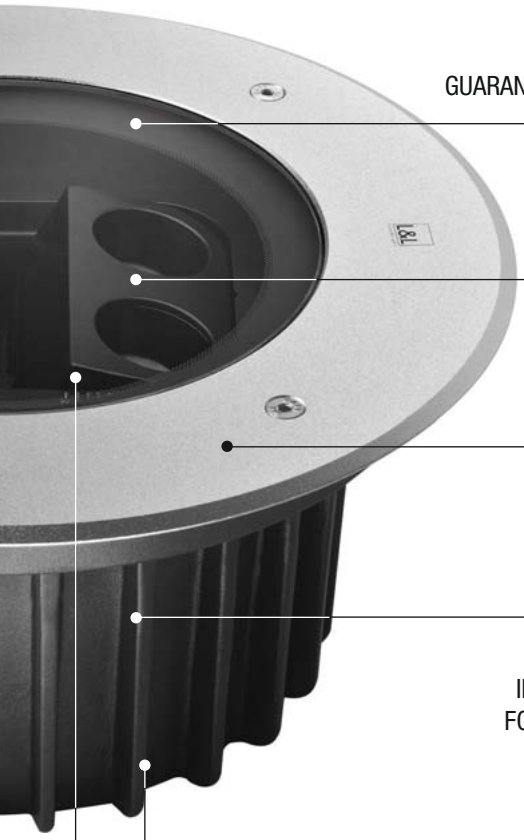
6-STEP MATERIAL PROTECTION,
AND OXIDATION AND
CORROSION RESISTANCE

EN AB 47100 low-copper-content aluminium alloy
Preparation for painting with ALODINE NT-E® coating
Epoxy paint
Polyester paint
Paints compliant with Qualicoat automotive coating standard
Salt spray tested (over 1500 hours)

INFRARED REMOTE CONTROL
TO REMOTELY ADJUST THE
LIGHT BEAM BY ±10° (STRA 4.0)

# STRA

## UNIQUE SELLING POINTS



TEMPERED, TRANSPARENT EXTRA-CLEAR GLASS WITH VITRIFIED SERIGRAPHY, HIGH TRANSMITTANCE TO ENSURE CHROMATIC UNIFORMITY. THE GLASS'S THICKNESS OF 15 MM GUARANTEES MAXIMUM IMPACT RESISTANCE

IK10

CRI 80 AND CRI >90 VERSIONS

DRIVE-OVER UP TO 5000 KG

IP67
IP68
WITH PURPOSE-BUILT OUTER CASING

IP67
IP68

IP68 STAINLESS STEEL OUTER CASING FOR INSTALLATION WITHOUT DRAINAGE

IP69K
RESISTANT TO CLEANING WITH HIGH-PRESSURE, HIGH-TEMPERATURE SPRAY-DOWNS (ISO 20653 COMPLIANT)

IP69K

ANTI-GLARE
RECESSED OPTICS

WALL
WASHER OPTICS
(STRA 1.0)

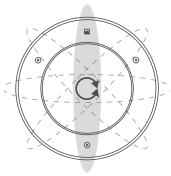
TWO INDEPENDENT
OPTICAL GROUPS
(STRA 3.0)

STRA 1.0

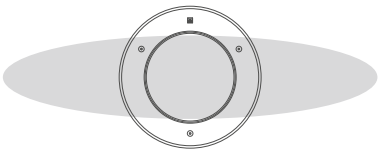
STRA 3.0

PROJECTOR VERSION:
STRA P, P. 236

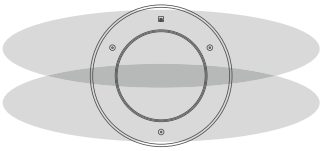
# STRA



Adjustable 66°x11° optics
(Stra 1.0)

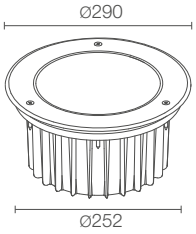


10°x45° optics
(Stra 1.0 / 2.0 / 4.0)



10°x45° optics
(Stra 3.0)

## STRA 1.0




patented

elliptical optics,
adjusted manually
with magnet

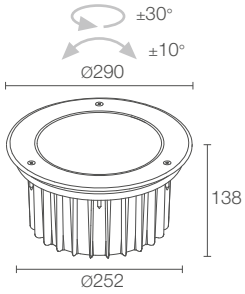
Ø 660 mm
H 265 mm

Ø 210 mm

kg 5000 kg 5.00 IP67 IP68 IP69K IK10
with purpose-built outer casing

A A+ A++ IPS PID SPD T max 50°C

## STRA 2.0




Ø 660 mm
H 265 mm

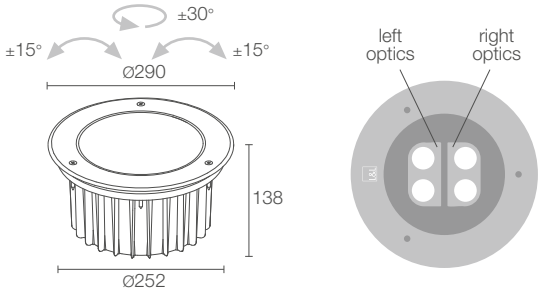
Ø 210 mm

kg 5000 kg 5.00 IP67 IP68 IP69K IK10
with purpose-built outer casing

A A+ A++ IPS PID SPD T max 50°C

| | | |
|---|---|---|
| **POWER / POWER SUPPLY**<br>**CODE** | 37W 230Vac<br>**CS1010** **I** Micro-blasted stainless steel<br>37W 230Vac 1-10V<br>**CS1010** **IR** Micro-blasted stainless steel | 25W 230Vac<br>**CS2010** **I** Micro-blasted stainless steel |
| **CRI** | **0** - CRI 80<br>**1** - CRI >90 | **0** - CRI 80<br>**1** - CRI >90 |
| **LED COLOUR** | **F** - 2700K<br>**5** - 3000K<br>**9** - 4000K | **F** - 2700K<br>**5** - 3000K<br>**9** - 4000K |
| **OPTICS** | **V** - 11°<br>**S** - 14°<br>**M** - 30°<br>**L** - 37°<br>**W** - 10°x45°<br>**X** - 66°x11° adjustable<br>**H** - wall washer | **V** - 11° adjustable<br>**S** - 14° adjustable<br>**M** - 30° adjustable<br>**L** - 37° adjustable<br>**W** - 10°x45° adjustable |
| **LUMEN OUTPUT AT SOURCE** | 3402 lm (3000K, CRI 80) | 2322 lm (3000K, CRI 80) |
| **DELIVERED LUMEN OUTPUT** | 2024 lm (3000K, 30°, CRI 80)<br>2205 lm (3000K, 66°x11°, CRI 80) | 1350 lm (3000K, 30°, CRI 80) |
| **NO. AND TYPE OF LED** | 4 high intensity power LEDs<br>3-step MacAdam, 50000h L90 B10 (Ta 25°C) | 4 high intensity power LEDs<br>3-step MacAdam, 50000h L85 B10 (Ta 25°C) |
| **MATERIAL** | body in die-cast aluminium<br>trim in AISI 316L stainless steel<br>screen in serigraphed, tempered,<br>transparent extra-clear glass | body in die-cast aluminium<br>trim in AISI 316L stainless steel<br>screen in serigraphed, tempered,<br>transparent extra-clear glass |
| **POWER SUPPLY UNIT** | built in | built in |
| **POWER CABLES** | includes 1.5 m neoprene cable<br>H07RN-F 3x1.00 Ø9.3 mm | includes 1.5 m neoprene cable<br>H07RN-F 3x1.00 Ø9.3 mm |
| **MOUNTING** | recessed (ground) | recessed (ground) |
| **ACCESSORIES** | see p. 110 | see p. 110 |
| **FEATURES** | 66°x11° optics adjustable through 360°<br>using the magnet provided | manually adjustable optics:<br>±10° on z-axis, ±30° on x-axis |
| **NOTES** | not suitable for use in swimming pools or fountains<br>projector version: Stra P 1.0, p. 237<br>DALI version available on request | not suitable for use in swimming pools or fountains |
| **PHOTOMETRIC DATA** | see p. 824 | see p. 825 |

## STRA 3.0



Ø 660 mm
H 265 mm

Ø 210 mm

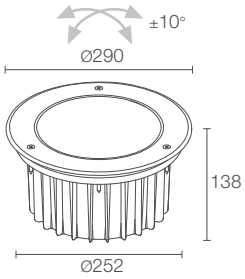
kg 5000 kg 5.00 IP67 IP68 IP69K IK10
with purpose-built outer casing

A A+ A++ IPS PID SPD T max 50°C

25W 230Vac
**CS3010** ■ ■ ■ ■ **I** Micro-blasted stainless steel

| | |
|---|---|
| ■ | **0** - CRI 80<br>**1** - CRI >90 |
| ■ | **F** - 2700K<br>**5** - 3000K<br>**9** - 4000K |
| ■ | left optics:<br>**V** - 11° adjustable<br>**S** - 14° adjustable<br>**M** - 30° adjustable<br>**L** - 37° adjustable<br>**W** - 10°x45° adjustable<br><br>right optics:<br>**V** - 11° adjustable<br>**S** - 14° adjustable<br>**M** - 30° adjustable<br>**L** - 37° adjustable<br>**W** - 10°x45° adjustable |
| | 2411 lm (3000K, CRI 80) |
| | 1395 lm (3000K, 30°, CRI 80) |
| | 4 high intensity power LEDs<br>3-step MacAdam, 50000h L85 B10 (Ta 25°C) |
| | body in die-cast aluminium<br>trim in AISI 316L stainless steel<br>screen in serigraphed, tempered,<br>transparent extra-clear glass |
| | built in |
| | includes 1.5 m neoprene cable<br>H07RN-F 3x1.00 Ø9.3 mm |
| | recessed (ground) |
| | see p. 110 |
| | 2 optical groups, adjustable manually and singly:<br>±15° on the z axis, ±30° on the x axis |
| | not suitable for use in swimming pools or fountains |
| | see p. 825 |

## STRA 4.0




patent pending

Required infrared remote control, not included

Ø 660 mm
H 265 mm

Ø 210 mm

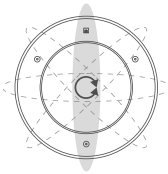
kg 5000 kg 5.00 IP67 IP68 IP69K IK10
with purpose-built outer casing

A A+ A++ IPS PID SPD T max 50°C

25W 230Vac
**CS4010** ■ ■ ■ ■ **I** Micro-blasted stainless steel

| | |
|---|---|
| ■ | **0** - CRI 80<br>**1** - CRI >90 |
| ■ | **F** - 2700K<br>**5** - 3000K<br>**9** - 4000K |
| ■ | **S** - 14° adjustable<br>**M** - 30° adjustable<br>**L** - 37° adjustable<br>**W** - 10°x45° adjustable |
| | 2411 lm (3000K, CRI 80) |
| | 1395 lm (3000K, 30°, CRI 80) |
| | 4 high intensity power LEDs<br>3-step MacAdam, 50000h L85 B10 (Ta 25°C) |
| | body in die-cast aluminium<br>trim in AISI 316L stainless steel<br>screen in serigraphed, tempered,<br>transparent extra-clear glass |
| | built in |
| | includes 1.5 m neoprene cable<br>H07RN-F 3x1.00 Ø9.3 mm |
| | recessed (ground) |
| | see p. 110 |
| | motorized adjustable optics:<br>±10° in every direction |
| | not suitable for use in swimming pools or fountains |
| | see p. 825 |

# STRA

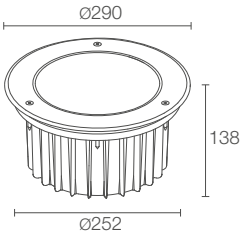


Adjustable 66°x11° optics

## STRA 5.0

patented

elliptical optics,
adjusted manually
with magnet




Ø 660 mm
H 265 mm

Ø 210 mm

kg 5000 kg 5.00 IP67 IP68 IP69K IK10
with purpose-built outer casing

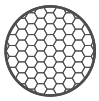
A A+ A++ IPS PID T max 50°C

| | |
|---|---|
| **POWER / POWER SUPPLY** | 39W 24Vdc |
| **CODE** | **CS5000 7 ■ H** Micro-blasted stainless steel |
| ■ **OPTICS** | **S** - 24°<br>**M** - 33°<br>**L** - 60°<br>**W** - 32°x61°<br>**X** - 66°x11° adjustable<br>**H** - wall washer |
| **LED COLOUR** | RGBW |
| **LUMEN OUTPUT AT SOURCE** | 2048 lm, R: 352 lm G: 640 lm B: 208 lm<br>W: 848 lm (4000K) |
| **DELIVERED LUMEN OUTPUT** | 1216 lm, R: 209 lm G: 380 lm B: 123 lm<br>W: 504 lm (4000K, 33°) |
| **NO. AND TYPE OF LED** | 4 RGBW power LED groups<br>50000h L85 B10 (Ta 25°C) |
| **MATERIAL** | body in die-cast aluminium<br>trim in AISI 316L stainless steel<br>screen in serigraphed, tempered, transparent extra-clear glass |
| **POWER SUPPLY UNIT** | not included, see p. 110 |
| **POWER CABLES** | includes 1.5 m FEP+RUB cable (equivalent to H05RN-F)<br>6x0.50/0.50 Ø6.3 mm |
| **MOUNTING** | recessed (ground) |
| **ACCESSORIES** | see p. 110 |
| **FEATURES** | 66°x11° optics adjustable through 360° using the magnet provided |
| **NOTES** | not suitable for use in swimming pools or fountains<br>projector version: Stra P 5.0, p. 238 |
| **PHOTOMETRIC DATA** | see p. 826 |

# STRA

## ACCESSORIES AND POWER SUPPLY UNITS

**ANTI-GLARE ACCESSORIES**



**WH0610**

Honeycomb louvre
built into the lighting fixture

order together with
the lighting fixture

the honeycomb louvre can be fitted on all
optics except for 66°x11° and wall washer optics

**ACCESSORIES FOR INSTALLATION**

**WC5610**

Stainless steel outer casing
(Stra IP67)

**WC5611**

Stainless steel outer casing
(Stra IP68)

**WE0202**

Tamper-resistant screw kit

**WE0203**

Screwdriver for tamper-resistant screws

**TLC07**

Infrared remote control
(Stra 4.0)

for spare parts, see p. 866

**POWER SUPPLY UNITS** Stra 5.0

| Max no. fixtures | PSU | IP | Page |
|---|---|---|---|
| 1...n | 24Vdc | 20 | 847 |
| 1...n | 24Vdc | 67 | 847 |
| - | RGBW controller | - | 855 - 860 |



STRA 1.0 >
3000K, 37W, 37°

Light planning by / Studio Luce Bi Esse
Private residence, Cuneo, Italy

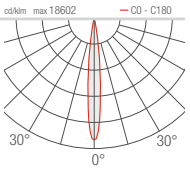
# STRA

## OUTDOOR RECESSED

## STRA 1.0

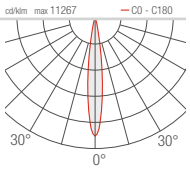
### **V** - 11° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 0,41 | 10890 |
| 4,00 | 0,81 | 2723 |
| 6,00 | 1,22 | 1210 |
| 8,00 | 1,63 | 681 |
| 10,00 | 2,03 | 436 |



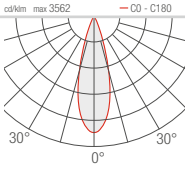

### **S** - 14° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 0,49 | 5993 |
| 4,00 | 0,99 | 1498 |
| 6,00 | 1,46 | 666 |
| 8,00 | 1,94 | 375 |
| 10,00 | 2,43 | 240 |



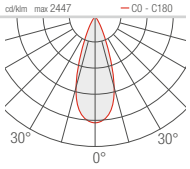

### **M** - 30° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 1,06 | 1803 |
| 4,00 | 2,11 | 451 |
| 6,00 | 3,24 | 200 |
| 8,00 | 4,31 | 113 |
| 10,00 | 5,39 | 72 |



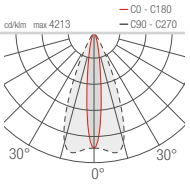

### **L** - 37° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 1,34 | 1155 |
| 4,00 | 2,69 | 289 |
| 6,00 | 4,03 | 128 |
| 8,00 | 5,37 | 72 |
| 10,00 | 6,72 | 46 |



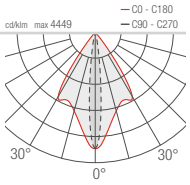

### **W** - 10°x45° CRI 80

| H (m) | Ø (m) | Ø (m) | Lux max (3000K) |
|---|---|---|---|
| 2,00 | 0,47 | 1,63 | 1890 |
| 4,00 | 0,95 | 3,26 | 473 |
| 6,00 | 1,42 | 4,89 | 210 |
| 8,00 | 1,90 | 6,51 | 118 |
| 10,00 | 2,37 | 8,14 | 76 |



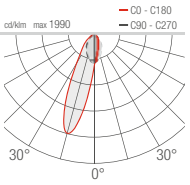

### **X** - 66°x11° adjustable CRI 80

| H (m) | Ø (m) | Ø (m) | Lux max (3000K) |
|---|---|---|---|
| 2,00 | 2,59 | 0,40 | 2454 |
| 4,00 | 5,19 | 0,80 | 613 |
| 6,00 | 7,78 | 1,20 | 273 |
| 8,00 | 10,38 | 1,60 | 153 |
| 10,00 | 12,97 | 2,00 | 98 |




### **H** - Wall washer CRI 80

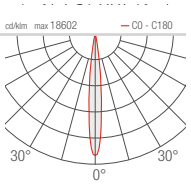
| H (m) | Ø (m) | Ø (m) | Lux max (3000K) |
|---|---|---|---|
| 2,00 | 0,86 | 2,11 | 639 |
| 4,00 | 1,73 | 4,23 | 160 |
| 6,00 | 2,59 | 6,34 | 71 |
| 8,00 | 3,45 | 8,46 | 40 |
| 10,00 | 4,32 | 10,57 | 26 |



## STRA 2.0

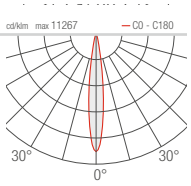
### V - 11° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 0,41 | 7260 |
| 4,00 | 0,81 | 1815 |
| 6,00 | 1,22 | 807 |
| 8,00 | 1,63 | 454 |
| 10,00 | 2,03 | 290 |



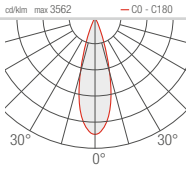

### S - 14° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 0,49 | 3994 |
| 4,00 | 0,99 | 999 |
| 6,00 | 1,46 | 444 |
| 8,00 | 1,94 | 250 |
| 10,00 | 2,43 | 160 |



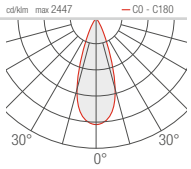

### M - 30° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 1,06 | 1202 |
| 4,00 | 2,11 | 301 |
| 6,00 | 3,24 | 134 |
| 8,00 | 4,31 | 75 |
| 10,00 | 5,39 | 48 |



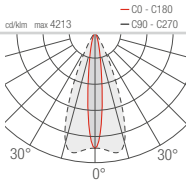

### L - 37° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 1,34 | 769 |
| 4,00 | 2,69 | 192 |
| 6,00 | 4,03 | 85 |
| 8,00 | 5,37 | 48 |
| 10,00 | 6,72 | 31 |




### W - 10°x45° CRI 80

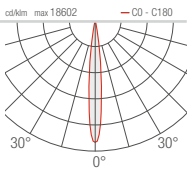
| H (m) | Ø (m) | Ø (m) | Lux max (3000K) |
|---|---|---|---|
| 2,00 | 0,47 | 1,63 | 1260 |
| 4,00 | 0,95 | 3,26 | 315 |
| 6,00 | 1,42 | 4,89 | 140 |
| 8,00 | 1,90 | 6,51 | 79 |
| 10,00 | 2,37 | 8,14 | 50 |




## STRA 3.0
## 4.0

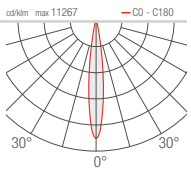
### V - 11° CRI 80 (Stra 3.0)

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 0,41 | 7497 |
| 4,00 | 0,81 | 1874 |
| 6,00 | 1,22 | 833 |
| 8,00 | 1,63 | 469 |
| 10,00 | 2,03 | 300 |



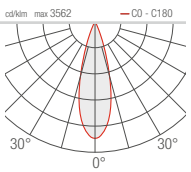

### S - 14° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 0,49 | 4132 |
| 4,00 | 0,99 | 1033 |
| 6,00 | 1,46 | 459 |
| 8,00 | 1,94 | 258 |
| 10,00 | 2,43 | 165 |



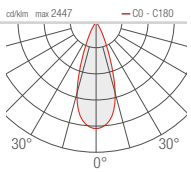

### M - 30° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 1,06 | 1242 |
| 4,00 | 2,11 | 311 |
| 6,00 | 3,24 | 138 |
| 8,00 | 4,31 | 78 |
| 10,00 | 5,39 | 50 |



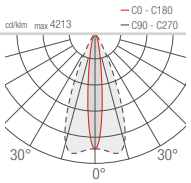

### L - 37° CRI 80

| H (m) | Ø (m) | Lux max (3000K) |
|---|---|---|
| 2,00 | 1,34 | 796 |
| 4,00 | 2,69 | 199 |
| 6,00 | 4,03 | 88 |
| 8,00 | 5,37 | 50 |
| 10,00 | 6,72 | 32 |




### W - 10°x45° CRI 80

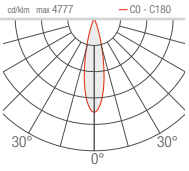
| H (m) | Ø (m) | Ø (m) | Lux max (3000K) |
|---|---|---|---|
| 2,00 | 0,47 | 1,63 | 1303 |
| 4,00 | 0,95 | 3,26 | 326 |
| 6,00 | 1,42 | 4,89 | 145 |
| 8,00 | 1,90 | 6,51 | 81 |
| 10,00 | 2,37 | 8,14 | 52 |



# STRA 5.0

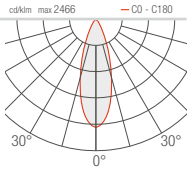
## **S** - 24°

| H (m) | Ø (m) | Lux max (4000K) |
|---|---|---|
| 2,00 | 0,84 | 1456 |
| 4,00 | 1,68 | 364 |
| 6,00 | 2,52 | 162 |
| 8,00 | 3,36 | 91 |
| 10,00 | 4,20 | 58 |



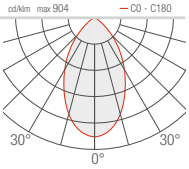

## **M** - 33°

| H (m) | Ø (m) | Lux max (4000K) |
|---|---|---|
| 2,00 | 1,18 | 750 |
| 4,00 | 2,36 | 187 |
| 6,00 | 3,54 | 83 |
| 8,00 | 4,72 | 47 |
| 10,00 | 5,90 | 30 |



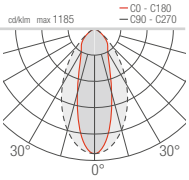

## **L** - 60°

| H (m) | Ø (m) | Lux max (4000K) |
|---|---|---|
| 2,00 | 2,31 | 265 |
| 4,00 | 4,63 | 66 |
| 6,00 | 6,94 | 29 |
| 8,00 | 9,26 | 17 |
| 10,00 | 11,57 | 11 |



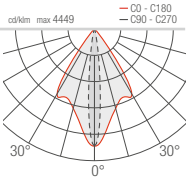

## **W** - 32°x61°

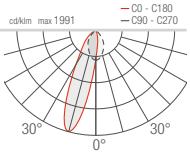
| H (m) | Ø (m) | Ø (m) | Lux max (4000K) |
|---|---|---|---|
| 2,00 | 1,13 | 2,36 | 336 |
| 4,00 | 2,26 | 4,73 | 84 |
| 6,00 | 3,39 | 7,09 | 37 |
| 8,00 | 4,52 | 9,46 | 21 |
| 10,00 | 5,65 | 11,82 | 13 |




## **X** - 66°x11° adjustable

| H (m) | Ø (m) | Ø (m) | Lux max (4000K) |
|---|---|---|---|
| 2,00 | 2,59 | 0,40 | 1471 |
| 4,00 | 5,19 | 0,80 | 368 |
| 6,00 | 7,78 | 1,19 | 163 |
| 8,00 | 10,38 | 1,59 | 92 |
| 10,00 | 12,97 | 1,99 | 59 |




## **H** - Wall washer

| H (m) | Ø (m) | Ø (m) | Lux max (4000K) |
|---|---|---|---|
| 2,00 | 2,06 | 2,00 | 384 |
| 4,00 | 4,12 | 4,00 | 96 |
| 6,00 | 6,18 | 6,00 | 43 |
| 8,00 | 8,24 | 8,00 | 24 |
| 10,00 | 10,30 | 10,01 | 15 |