

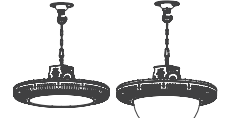
High Bay  
Flood Light

# CD3000 Series

**NEW**  
3rd Generation  
Ultralight ICEPIPE HEATSINK



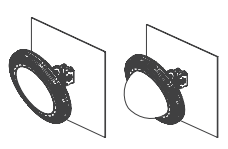
Hinge+Hook+Chain+Hook+FMB,  
Dome Diffuser



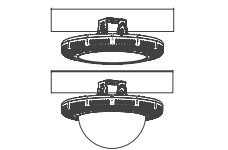
FMB+Pipe+FMB, Dome Diffuser



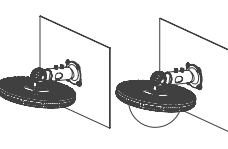
R-Hinge1, Wall, Dome Diffuser



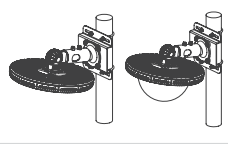
R-Hinge1, Ceiling, Dome Diffuser



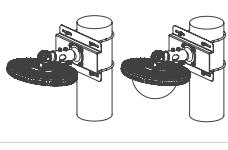
Wall Bracket, Dome Diffuser



Wall Bracket+Pillar Bracket1,  
Dome Diffuser



Wall Bracket+Pillar Bracket2,  
Dome Diffuser



## Applications



## CD3000 Specifications

| Model        | Power | Voltage                  | Hz      | Wattage | Total Lumen | Pupil Lumen <sup>1)</sup> | Luminous Efficacy | CCT    | CRI  | Beam Angle                                 | Temperature | IP   |
|--------------|-------|--------------------------|---------|---------|-------------|---------------------------|-------------------|--------|------|--------------------------------------------|-------------|------|
| CD3000-P150W | HP2   | AC100~277V<br>(AC90~305) | 50~60Hz | 150W    | 14,700lm    | 27,930Plm                 | 98lm/W            | 5,700K | 83Ra | 90°<br>(Standard),<br>20°, 60°<br>(Option) | -40°C~60°C  | IP67 |
| CD3000-P200W |       |                          |         | 200W    | 19,600lm    | 37,240Plm                 | 98lm/W            | 5,700K | 83Ra |                                            | -40°C~60°C  |      |

※ In this catalogue, default color temperature is 5,700K and when color temperature of 3,000K is applied, total lumen and luminous efficacy decrease by 10%

※ Standard Deviation : Electricity Consumption ±7%, Total Lumen ±7%, Light Efficacy ±7%, CCT ±6%, CRI ±2% in this catalogue

※ Specifications are subject to change without prior notice. Please refer to our website for the newest specifications (www.icepipeLED.com)

※ 1) Pupil Lumen (有効光通量, 가시광광속, 有效全光束) -- Reference p.24(p.24 参照, p.24 참조, p.24 参照)

Pupil Lumen = Photopic Lumens x S/P Ratio

○ Photopic Lumen : 照度計測の値 / 조도계로 측정한 값 / 照度測定器で測定した値

○ S/P Ratio : S/P 比率, S/P 비율, S/P 比率

# CD3000 Series

## High Bay, Flood Light

### Features(特点, 특징, 特徴)



#### Strong against Corrosion

防腐蚀性, 부식에 강함, 腐食に強い

Strong against corrosion as its heat sink is made of copper, and stainless-steel and polycarbonate for the other parts

所有部件由銅、不銹鋼、聚碳酸酯組成防腐蝕性能十分優秀

방열 히트싱크를 세계최초로 구리를 사용하여 제작하고, 기타부품을 스텐레스와 폴리카보네이트를 사용하여 제작하였기 때문에 부식에 강합니다

銅材質のヒートシンクとステンレス鋼、ポリカーボネートの組合で腐食に強いです



#### Embedded Protection Circuit

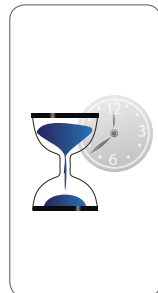
内置安全保护回路, 안전보호회로 내장, 安全保護回路内蔵

An automatic power shutdown and returning circuit, which incorporates a sensor switch that turns off power in case of a fire, abnormal high temperature, overcurrent or overvoltage, is added. It prevents secondary fire and self-damage to the product

自动切断电源的传感器在遇到火灾、异常高温、过电流、过电压等现象时会自动切断・接通电源・从而避免二次火灾及对产品本身的损伤

화재, 이상고온, 과전류, 과전압 발생시 전원을 차단하는 센스위치를 이용한 전원 자동 차단 및 자동 복귀 회로를 추가하였습니다. 제품에 의한 2차 화재발생 및 제품의 자체손상을 방지합니다

電源遮断スイッチが搭載され、火災、異常高温、過電流などの現象が発生した場合、電源自動遮断、復帰回路を追加により、2次災害や製品の損傷を防止します



#### Embedded Double Power Supply

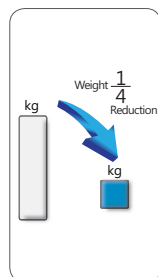
2重電源装置, 내장형 더블전원공급기, 内蔵型ダブル電源

Embedded Double Power Supply with “105°C 10,000 hours electrolysis capacitor” installed in double row arrangement fundamentally solved lifespan reduction derived by the capacitor’s capacity decline to maximize lumen maintenance and overall lifespan.

採用105°C 1万小時の電解電容2重並列設計の2重電源装置・解決了因電容量の減少導致使用壽命縮短の現象

105°C 1만시간 전해캐패시터를 2중병렬로 설치한 내장형 더블전원공급기를 사용하여 캐패시터의 용량감소로 인한 수명저하를 근본적으로 해결하였으며, LED의 광유지율을 높이고, 수명을 크게 늘렸습니다.

105°C 1万時間電解コンデンサを2重並列に搭載した内蔵型ダブル電源を使用してキャパシタの容量減少による寿命低下を根本的に解決し、LEDの光維持率を高め、寿命を大幅に増やしました



#### Ultra Small & Light simplifies Installation, Increases Safety

通过Ultra Small & Light使安装简单化、安全最大化, Ultra Small & Light로 설치 용이, 안전증대, Ultra Small & Lightで 設置容易, 安全確保

ICEPIPE heatsink reduced LED chip temperature and weight of the product significantly. It simplifies installation steps and increases safety

通过使用ICEPIPE的散热技术降低了LED灯珠的温度同时产品重量减少到1.7公斤、力矩2.03Nm以下达到安装简便、提高安全性的目的

ICEPIPE 히트싱크를 적용하여 LED Chip의 온도를 낮추면서 제품의 무게는 약 1.7kg로 줄었으며, 모우먼트는 2.03Nm로 내렸습니다 설치 및 시공이 용이하고 안전이 증대됩니다

ICEPIPEヒートシンクの装着によりLEDChipの温度を下げた同時、製品の重量を約1.7kg、モーメントを2.03Nm以下により、設置が容易で安全性が向上しました



IP67

#### Ingress Protection Rating IP67

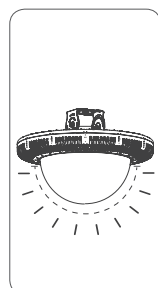
防水等级IP67, 방수등급 IP67, 防水等級IP67

By simplifying waterproof construction and equipping silicone waterproof sealing, it achieved ingress protection rating IP67 Fully protected from dust and usable in water to 1 meter depth for 30 minutes

通过改善防水构造及安装构造・将防水等级提高到IP67・不仅完全防止灰尘进入而且能够在1m水下30分钟不进水

방수구조를 단순화하고, 실리콘 방수 실링을 이용하여 IP67을 구현하였습니다 먼지로부터 완벽하게 보호, 1m이하 물 속에 잠겨서 30분간 사용 가능합니다

防水構造を単純化させてシリコン防水リングでIP67を実現しました。粉塵が内部に侵入しないし、水深1mに30分間没する事が可能です



#### Dome Diffuser for Glare Prevention is Applicable

可选用防耀眼半球形散光灯罩, 눈부심 방지용 돔디퓨저 적용 가능, グレア防止用ドーム型拡散カバー適用可能

The Dome Diffuser has approximately twice larger surface area compared to the Diffuser Plate, which is most effective in sites that require glare prevention.

半球形散光灯罩的表面积比平板灯罩面积大2倍。因此・需要防耀眼现象的地方能有效减轻耀眼现象

돔디퓨저를 적용하면 평판디퓨저보다 표면적이 약2배 가량 넓어서 눈부심을 절반으로 줄일 수 있어 눈부심 방지를 필요로 하는 현장에 효과적입니다.

ドーム型拡散カバーを適用するとフラットカバーより表面積が2倍もするので眩しさを半分に減らすことができ、グレア防止に効果的である

## Composition(内部構造, 내부구조, 内部構造)

## Corrosion proof painting

防腐蚀性涂层 防腐蚀性涂层,  
부식 방지 페인팅,  
腐食防止ペイント

## Upper Cover

(顶盖, 상커버, 上部カバー)

## Copper, 铜, 구리, 銅

## Thermal Base

导热板, 서멀베이스, 放熱ベース

ICEPIPE is welded to Copper thermal base and is excellent for heat transfer (The World's First)

ICEPIPE直接焊接在铝板上, 的缘故传导性能非常卓越(世界首创)

구리 서멀베이스에 ICEPIPE가 금속 용접되어 열 전달 우수(세계최초)

銅放熱ベースにICEPIPEが溶接され熱の伝導が優れています(世界最初)

## Embedded Double Power Supply

2重电源装置, 내장형 더블전원공 급기, 内蔵型ダブル電源

## HP2

By applying the power correction circuit and stabilizing DC output, respectively, the power factor is increased to 0.93 and flickering (voltage fluctuation under 0.2%) is prevented. 105°C 10,000-hour electrolysis-capacitor is arranged in a double row to fundamentally solve the problem of fall in lifespan due to capacity reduction of the capacitor

采用功率因数补偿电路・使直流输出电压的变化小于0.2%防止了闪烁现象・功率因数提高到0.93 为了提高电源的寿命通过采用105°C・1万小时的电解电容2重并列设计・解决了因电容容量的减少导致使用寿命缩短现象

역률보상회로를 적용하여 역률을 0.93으로 높이고, 플리커가 없도록 DC출력을 일정 (전압변동 0.2% 이하)하게 하였습니다. 파워의 수명을 대폭 증가시키기 위하여 105°C 1만시간 전해개패시터를 2중 병렬로 설치하여 개패시터의 용량감소로 인한 수명저하를 근본적으로 해결하였습니다

力率補正回路を適用し、力率を0.93に高め、FlickerがないようにDC出力を安定させました (電圧変動0.2%以下) 電源の寿命を長くするために105°C1万時間の電解コンデンサを2重並列に搭載してキャパシタの容量減少による寿命の短縮を根本的に解決しました

## Silicone, 有机硅塑料, 실리콘, シリコン

## Waterproof Sealing

防水密封圈, 방수씰링, 防水リング

## Stainless Steel, 不锈钢, 스테인레스틸, 스텐레스鋼

## R-Hinge1

R-可转动支架1, R-힌지1, R-回転ブラケット1

Pivots up to 180° and rotates 360°

上下可转动 180° 左右可转动360°

상하 180°로 움직임이 가능하며 전체적으로 좌우 360°회전 가능함  
上下 180°動きが可能で、全体的に左右360°回転可能である

## Copper, 铜, 구리, 銅

## ICEPIPE Heatsink

- The World's First FDP(Fluid Dynamic Pressure) Technology
- 200 Times Faster Heat Transfer Rate than Aluminum(Al)
- Maximization of Air Flow through Aerodynamic Design
- Maximization of Heat Dissipation Surface
- Value of Thermal resistance Weight Multiplier 0.32

使用了世界最新开发出的FDP(Fluid Dynamic Pressure)技术  
比铝(Al)制散热器散热速度快200倍  
通过空气动力学设计使空气流动最大化  
散热面积最大化  
热阻重量乘数值0.32

세계최초로 개발된 FDP(Fluid Dynamic Pressure) 기술 적용  
알루미늄(Al)보다 열전도가 200배 빠름  
공기 역학적 설계로 공기흐름 최대  
방열면적 최대  
열저항 중량 승수값 0.32

世界最初に開発された FDP(Fluid Dynamic Pressure)技術採用  
アルミに比べて熱伝導率が200倍早いです  
空気力学的な設計  
放熱面積拡大  
熱抵抗重量乗数値 0.32

※ A Value of Thermal resistance Weight Multiplier that is less than "1" indicates a high-efficiency heatsink

热阻重量乘数值小于《1》可称之为高效的散热器

열저항 중량 승수값이 "1"미만이면 고효율 히트싱크입니다

熱抵抗重量乗数値が1未満の高効率ヒートシンク搭載

## Tempered Glass, 钢化玻璃, 강화유리, 強化ガラス

## Diffuser Plate

散光板, 확산판, 乳白色板

## Glare Prevention Diffuser Plate (Optional)

防止耀眼的散光板(可选择),  
눈부심방지 확산판(선택가능),  
眩しき防止乳白色板(選択可能)

## Standard - Tempered Glass

钢化玻璃, 강화유리, 強化ガラス

## Option - Glass Diffuser

散光玻璃, 확산유리, 乳白色ガラス

## - Dome Diffuser

半球形散光灯罩, 확산구, 돔모델확대커버

\* When a Dome Diffuser or a Diffuser Plate is applied, it prevents glare, but Total Lumen will decrease approximately by 9% with a Diffuser Plate, and 2% with a Dome Diffuser, compared to a Clear Glass and a Clear PC

虽然利用散光板或半球形灯罩可以有效地防止耀眼现象・但是光通量与使用透明玻璃和透明PC相比在使用散光板时约降低9%・使用半球形灯罩时约降低2%

확산판, 돔디퓨저를 사용하면 눈부심이 방지되지만 총광량이 투명유리 및 투명PC에 비해 확산판은 약 9%, 돔디퓨저는 약 2% 정도 저하됩니다

乳白色板、ドーム型カバーで眩しきは軽減されますが、全光束が透明ガラス及び透明PC に比べると乳白色板使った時約9%低下、ドーム型カバー使った時約2%低下する。

## Polycarbonate/ABS, 聚碳酸酯/ABS

폴리카보네이트/ABS, 폴리카보네이트/ABS

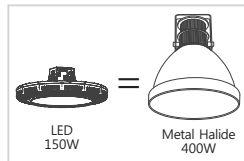
## Cover(盖子, 커버, カバー)

# CD3000 Series

## High Bay, Flood Light

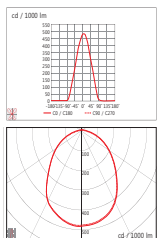
### CD3000-P150W

Replacement for Metal Halide 400W, 可代替 400W金属卤化物灯, 메탈하라이드 400W 대체가능, メタルハライド 400W 相当



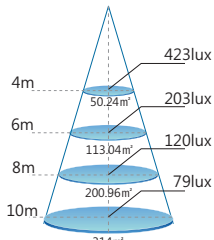
#### Light Distribution Curve

配光曲线, 배광곡선, 配光曲線



#### Illumination Intensity

照度示意图, 직하조도표, 直下照度



#### Applications(适用范围, 용도, 適用範圍)

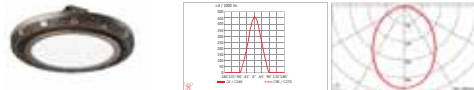
- Flood Light(泛光灯, 투광등, 投光機)
- High Bay(顶棚, 고천장등, 高天井)

#### Specifications(参数, 사양, 仕様)

1. Input Voltage(输入电压, 입력전압, 入力電圧) : AC100~277V (AC90~305)
2. Installation(安装, 설치, 設置) : R-Hinge1
3. Wattage(消耗功率, 소비전력, 消費電力) : 150W
4. Total Lumen(光通量, 총광량, 全光束) : 14,700lm (13,230lm)
5. Luminous Efficacy(光效, 광효율, 光効率) : 98lm/W (88lm/W)
6. Pupil Lumens(有效光通量, 가시총광속, 有効全光束) : 27,930Plm (25,137Plm)
7. CCT(色温, 색온도, 色温度) : 5,700K (3,000K)
8. CRI(显色性, 연색성, 演色性) : 83Ra
9. Beam Angle(照射角度, 조사각도, ビーム角) : 90°(Standard) / 20°, 60°(Option)
10. IP Rating(防水等级, 방수등급, 防水等級) : IP67

#### Option : Diffuser Plate Applied (采用散光罩时, 확산판 적용, 拡散カバー付)

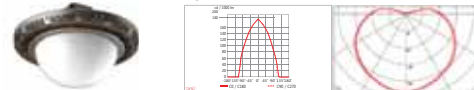
- Light Distribution Curve (配光曲线, 배광곡선, 配光曲線)



※ Compared to Clear Plate, Transmittance Rate Decreases 9%  
与透明罩相比透光率减少约9%, Clear Plate 적용시 보다 광투과율이 약 9% 감소. 透明カバーより透過率が約9%減少  
- Please visit our website and check the Illumination Intensity  
在公司网页(www.icepipeLED.com)上可以看到照度示意图视频.  
당사 홈페이지 (www.icepipeLED.com) 를 방문하시면 직하조도표를 보실수 있습니다.  
当社のホームページ(www.icepipeLED.com) で取付直下照度をご覧いただけます

#### Option : Dome Diffuser Applied (采用半球散光罩时, 확산구 적용, 돔型拡散カバー付)

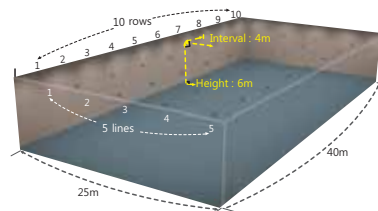
- Light Distribution Curve (配光曲线, 배광곡선, 配光曲線)



※ Compared to Clear Plate, Transmittance Rate Decreases 2%  
与透明罩相比透光率减少约2%, Clear Plate 적용시 보다 광투과율이 약 2% 감소. 透明カバーより透過率が約2%減少  
- Please visit our website and check the Illumination Intensity  
在公司网页(www.icepipeLED.com)上可以看到照度示意图视频.  
당사 홈페이지 (www.icepipeLED.com) 를 방문하시면 직하조도표를 보실수 있습니다.  
当社のホームページ(www.icepipeLED.com) で取付直下照度をご覧いただけます

#### Simulation Example

1. Model(型号名称, 모델명, モデル) : CD3000-P150W
2. Area(照射面积, 조사면적, 照射面積) : 1,000m<sup>2</sup> (40m×25m)
3. Installation Height(安装高度, 설치높이, 設置高さ) : 6m
4. Lamp Quantity(灯具数量, 등수량, 照明数量) : 50(5x10)
5. Average Floor Illuminance : 881lux  
(Maintenance factor : 80%,  
Interior Reflection Factor : 70% - Floor, Ceiling, Wall)  
平均照度 : 881lux(光维持率 : 80%, 反射率 : 70% - 地面・天花板・墙壁)  
바닥평균조도 : 881lux(유지보수율 : 80%, 실내반사율 : 70% - 바닥, 천장, 벽)  
床平均照度 : 881lux(保守率 : 80%, 反射率 : 70% - 床・天井・壁)



#### Required Lamp Q'ty (Area 1,000m<sup>2</sup> (40m×25m))

所需灯具数量(照射面积, 등의 필요수량(조사면적), 照明の必要な数量(面積)(1,000m<sup>2</sup> (40m×25m))

| Classification<br>区分, 구분, 区分                                                      | Average Floor Illuminance<br>地面 平均照度바닥<br>평균조도<br>床平均照度 | Number of Lamps by Height<br>根据高度的所需数量, 높이에 따른 필요수량, 高さによる必要な数量 |      |      |      |      |
|-----------------------------------------------------------------------------------|---------------------------------------------------------|-----------------------------------------------------------------|------|------|------|------|
|                                                                                   |                                                         | 4m                                                              | 6m   | 8m   | 10m  | 15m  |
| Low Lumen(Factory, Warehouse)<br>较低亮度的(工厂・仓库), 낮은 밝기 (공장, 창고)<br>低い明るさ(工場, 倉庫)    | 100lux                                                  | 7EA                                                             | 7EA  | 7EA  | 8EA  | 9EA  |
|                                                                                   | 200lux                                                  | 14EA                                                            | 14EA | 15EA | 16EA | 18EA |
| Normal Lumen(Factory, Warehouse)<br>普通亮度的(工厂・仓库), 보통 밝기 (공장, 창고)<br>普通明るさ(工場, 倉庫) | 300lux                                                  | 21EA                                                            | 22EA | 23EA | 24EA | 28EA |
|                                                                                   | 400lux                                                  | 28EA                                                            | 29EA | 31EA | 33EA | 37EA |
| High Lumen(Factory, Warehouse)<br>较高亮度的(工厂・仓库), 밝은 밝기 (공장, 창고)<br>高い明るさ(工場, 倉庫)   | 500lux                                                  | 34EA                                                            | 37EA | 39EA | 41EA | 47EA |
|                                                                                   | 600lux                                                  | 42EA                                                            | 44EA | 47EA | 49EA | 56EA |

#### Weight and Dimensions

1. Weight(重量, 무게, 重量) : 5.9Kg
2. Dimensions : Φ500mm X 183mm(H)  
产品尺寸, 제품사이즈, 製品サイズ
3. Packaging Size : 550mm(W) X 550mm(L) X 280mm(H)  
单个产品包装, 개별박스포장, 小箱梱包

#### Installation Conditions(使用条件, 사용조건, 使用条件)

1. Indoors, Outdoors  
室内・室外, 실내, 실외, 屋内, 屋外
2. Operation Temperature(使用温度, 사용온도, 使用温度) : -40℃ ~ 60℃
3. Permitted Installation Angle: Rotates 360°, Pivots up to 180°  
适用安装角度 : 上下180°・全方向360°, 설치허용각도 : 상하180°, 전방향360°  
設置許可角度 : 上下180°, 全方向360°



#### Dimming(调光, 조광, 調光)

1. Dimmer Incompatible(禁止使用调光器, 디머 사용불가, 調光器使用不可)



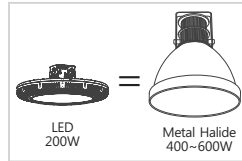
※ In this catalogue, default color temperature is 5,700K and when color temperature of 3,000K is applied, total lumen and luminous efficacy decrease by 10%  
※ Standard Deviation : Electricity Consumption ±7%, Total Lumen ±7%, Light Efficacy ±7%, CCT ±6%, CRI ±2% in this catalogue  
※ Specifications are subject to change without prior notice. Please refer to our website for the newest specifications (www.icepipeLED.com)

# CD3000 Series

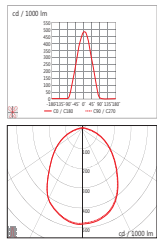
High Bay, Flood Light

## CD3000-P200W

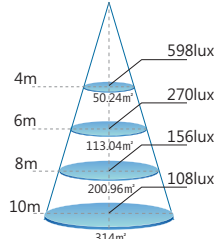
Replacement for Metal Halide 400~600W, 可代替 400~600W金属卤化物灯, 메탈할라이드 400~600W 대체가능, メタルハライド 400~600W 相当



### Light Distribution Curve 配光曲线, 배광곡선, 配光曲線



### Illumination Intensity 照度示意图, 직하조도표, 直下照度



### Applications(适用范围, 용도, 適用範圍)

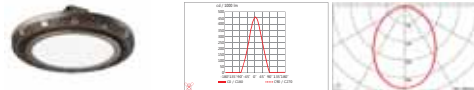
- Flood Light(泛光灯, 투광등, 投光機)
- High Bay(顶棚, 고천장등, 高天井)

### Specifications(参数, 사양, 仕様)

1. Input Voltage(输入电压, 입력전압, 入力電圧) : AC100~277V (AC90~305)
2. Installation(安装, 설치, 設置) : R-Hinge1
3. Wattage(消耗功率, 소비전력, 消費電力) : 200W
4. Total Lumen(光通量, 총광량, 全光束) : 19,600lm (17,640lm)
5. Luminous Efficacy(光效, 광효율, 光効率) : 98lm/W (88lm/W)
6. Pupil Lumens(有效光通量, 가시총광속, 有効全光束) : 37,240Plm (33,516Plm)
7. CCT(色温, 색온도, 色温度) : 5,700K (3,000K)
8. CRI(显色性, 연색성, 演色性) : 83Ra
9. Beam Angle(照射角度, 조사각도, 비ーム角) : 90°(Standard) / 20°, 60°(Option)
10. IP Rating(防水等级, 방수등급, 防水等級) : IP67

### Option : Diffuser Plate Applied (采用散光罩时, 확산판 적용, 拡散カバー付)

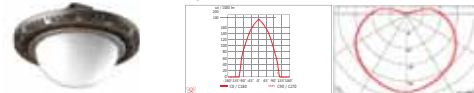
- Light Distribution Curve (配光曲线, 배광곡선, 配光曲線)



※ Compared to Clear Plate, Transmittance Rate Decreases 9%  
与透明罩相比透光率减少约9%, Clear Plate 적용시 보다 광투과율이 약 9% 감소, 透明カバーより透過率が約9%減少  
-Please visit our website and check the Illumination Intensity  
在公司网页(www.icepipeLED.com)上可以看到照度示意图视频,  
당사 홈페이지 (www.icepipeLED.com) 를 방문하시면 직하조도표를 보실수 있습니다,  
当社のホームページ(www.icepipeLED.com) で取付け直下照度をご覧ください

### Option : Dome Diffuser Applied (采用半球散光罩时, 확산구 적용, 돔型拡散カバー付)

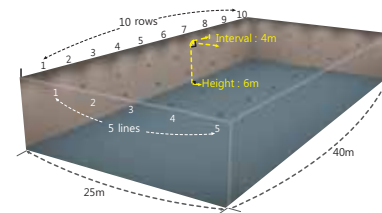
- Light Distribution Curve (配光曲线, 배광곡선, 配光曲線)



※ Compared to Clear Plate, Transmittance Rate Decreases 2%  
与透明罩相比透光率减少约2%, Clear Plate 적용시 보다 광투과율이 약 2% 감소, 透明カバーより透過率が約2%減少  
-Please visit our website and check the Illumination Intensity  
在公司网页(www.icepipeLED.com)上可以看到照度示意图视频,  
당사 홈페이지 (www.icepipeLED.com) 를 방문하시면 직하조도표를 보실수 있습니다,  
当社のホームページ(www.icepipeLED.com) で取付け直下照度をご覧ください

### Simulation Example

1. Model(型号名称, 모델명, モデル) : CD3000-P200W
2. Area(照射面积, 조사면적, 照射面積) : 1,000m<sup>2</sup>(40m×25m)
3. Installation Height(安装高度, 설치높이, 設置高さ) : 6m
4. Lamp Quantity(灯具数量, 등수량, 照明数量) : 50(5x10)
5. Average Floor Illuminance : 1,180lux  
(Maintenance factor : 80%,  
Interior Reflection Factor : 70% - Floor, Ceiling, Wall)  
平均照度 : 1,180lux(光维持率 : 80%, 反射率 : 70% - 地面・天花板・墙壁)  
바닥평균조도 : 1,180lux(유지보수율 : 80%, 실내반사율 : 70% - 바닥, 천장, 벽)  
床平均照度 : 1,180lux(保守率 : 80%, 反射率 : 70% - 床・天井・壁)



### Required Lamp Q'ty (Area 1,000m<sup>2</sup> (40m×25m))

所需灯具数量(照射面积, 등의 필요수량(조사면적), 照明の必要な数量 (面積)(1,000m<sup>2</sup> (40m×25m))

| Classification<br>区分, 구분, 区分                                                     | Average Floor Illuminance<br>地面 平均照度, 바닥 평균조도, 床平均照度 | Number of Lamps by Height<br>根据高度的所需数量, 높이에 따른 필요수량, 高さによる必要な数量 |      |      |      |      |  |
|----------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------------------------|------|------|------|------|--|
|                                                                                  |                                                      | 4m                                                              | 6m   | 8m   | 10m  | 15m  |  |
| Low Lumen(Factory, Warehouse)<br>较低亮度的(工厂・仓库), 낮은밝기 (공장, 창고)<br>低い明かり(工場, 倉庫)    | 100lux                                               | 5EA                                                             | 5EA  | 6EA  | 6EA  | 7EA  |  |
|                                                                                  | 200lux                                               | 10EA                                                            | 11EA | 11EA | 12EA | 14EA |  |
| Normal Lumen(Factory, Warehouse)<br>普通亮度的(工厂・仓库), 보통밝기 (공장, 창고)<br>普通明かり(工場, 倉庫) | 300lux                                               | 15EA                                                            | 16EA | 17EA | 18EA | 21EA |  |
|                                                                                  | 400lux                                               | 21EA                                                            | 22EA | 23EA | 24EA | 28EA |  |
| High Lumen(Factory, Warehouse)<br>较高亮度的(工厂・仓库), 밝은밝기 (공장, 창고)<br>高い明かり(工場, 倉庫)   | 500lux                                               | 26EA                                                            | 27EA | 29EA | 31EA | 35EA |  |
|                                                                                  | 600lux                                               | 31EA                                                            | 33EA | 35EA | 37EA | 42EA |  |

### Weight and Dimensions

1. Weight(重量, 무게, 重量) : 5.9Kg
2. Dimensions : Φ500mm X 183mm(H)  
产品尺寸, 제품사이즈, 製品サイズ
3. Packaging Size : 550mm(W) X 550mm(L) X 280mm(H)  
单个产品包装, 개별박스포장, 小箱梱包

### Installation Conditions(使用条件, 사용조건, 使用条件)

1. Indoors, Outdoors  
室内・室外, 실내, 실외, 屋内, 屋外
2. Operation Temperature(使用温度, 사용온도, 使用温度) : -40℃ ~ 60℃
3. Permitted Installation Angle: Rotates 360°, Pivots up to 180°  
适用安装角度 : 上下180°・全方向360°, 설치허용각도 : 상하180°, 전방향360°,  
設置許可角度 : 上下180°, 全方向360°



### Dimming(调光, 조광, 調光)

1. Dimmer Incompatible(禁止使用调光器, 디머 사용불가, 調光器使用不可)

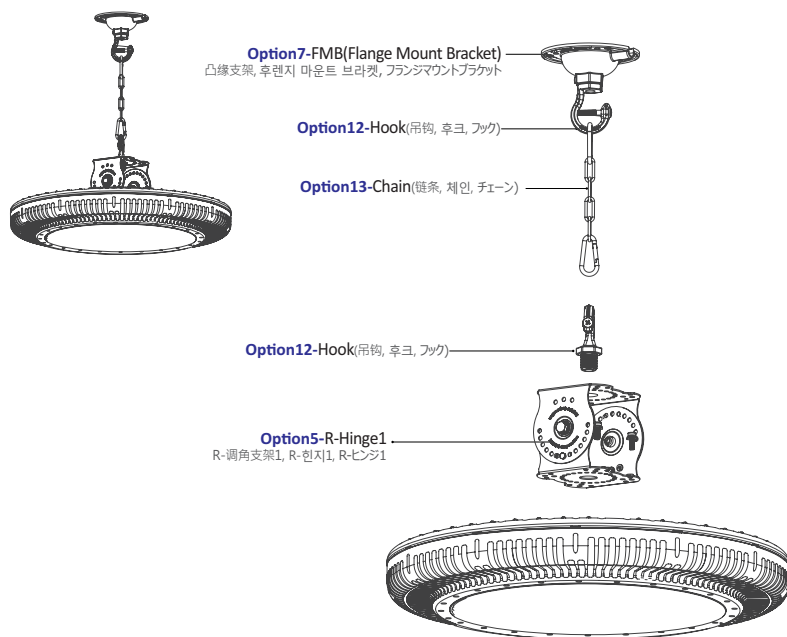


※ In this catalogue, default color temperature is 5,700K and when color temperature of 3,000K is applied, total lumen and luminous efficacy decrease by 10%  
※ Standard Deviation : Electricity Consumption ±7%, Total Lumen ±7%, Light Efficacy ±7%, CCT ±6%, CRI ±2% in this catalogue  
※ Specifications are subject to change without prior notice. Please refer to our website for the newest specifications (www.icepipeLED.com)

# CD3000 Series Installation Type(安装形式, 설치타입, 設置タイプ)

High Bay

## Install ① CD3000 + R-Hinge 1 + Hook + Chain + Hook + FMB (Flange Mount Bracket)

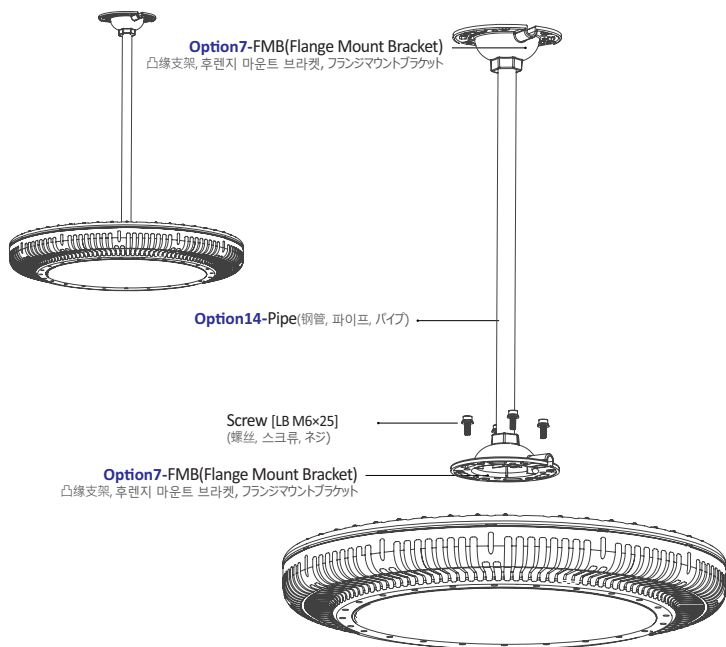


## Install ① -1 Dome Diffuser 2

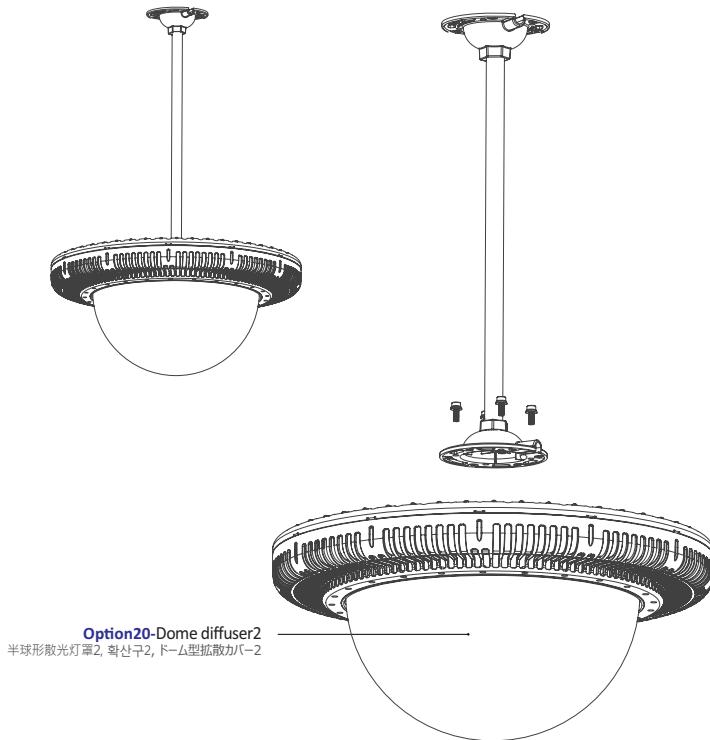


High Bay

## Install ② CD3000 + FMB + Pipe + FMB (Flange Mount Bracket)



## Install ② -1 Dome Diffuser 2



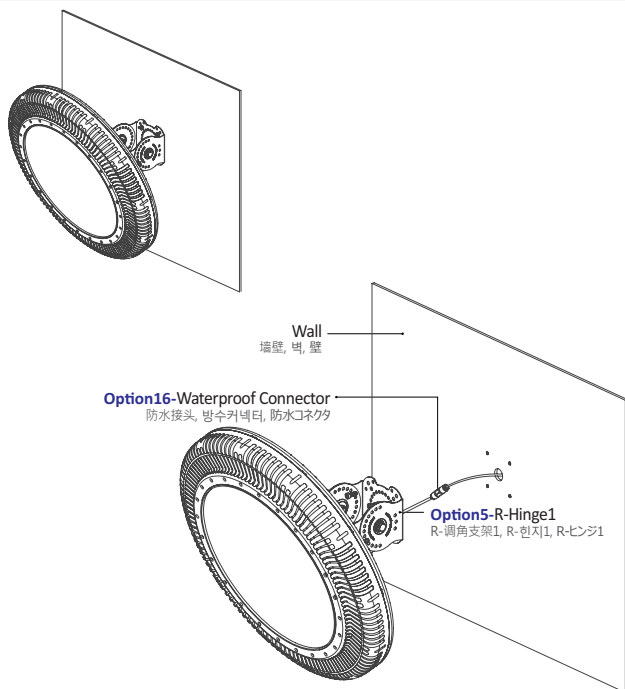
# CD3000 Series Installation Type(安装形式, 설치타입, 設置タイプ)

High Bay

Flood Light

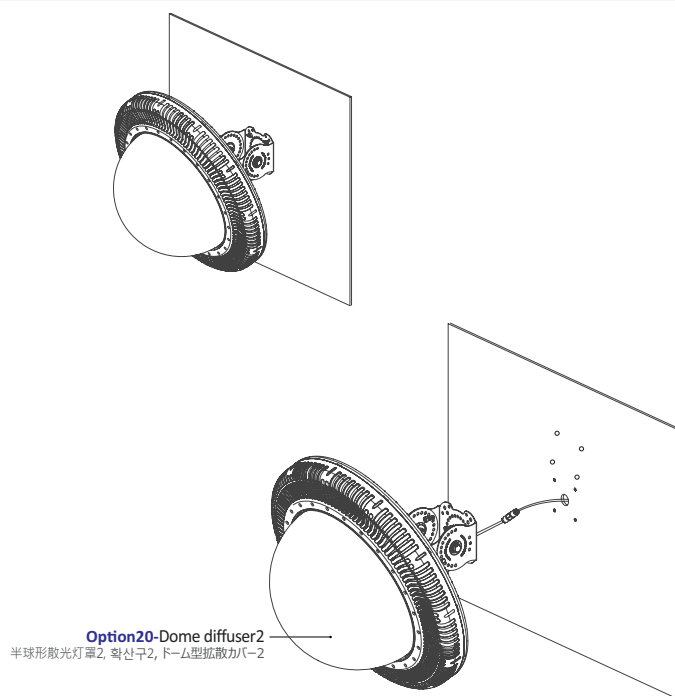
Option5

## Install ③ CD3000 + R-Hinge 1, Wall



Option20

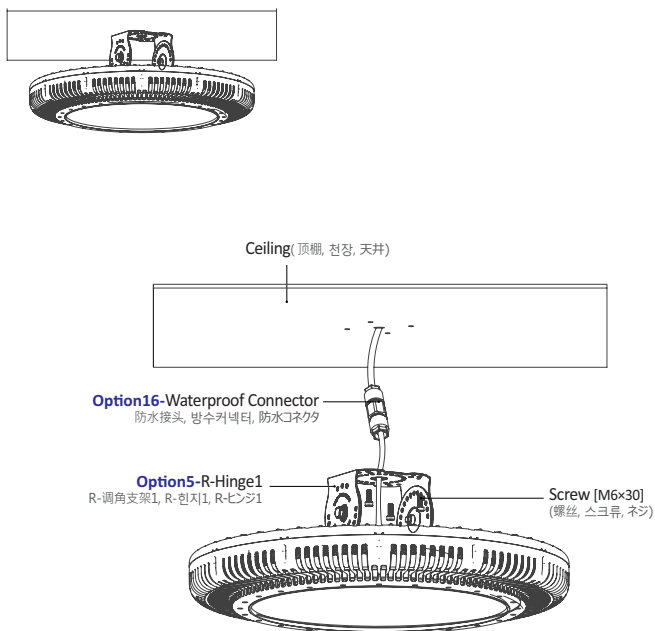
## Install ③-1 Dome Diffuser 2



High Bay

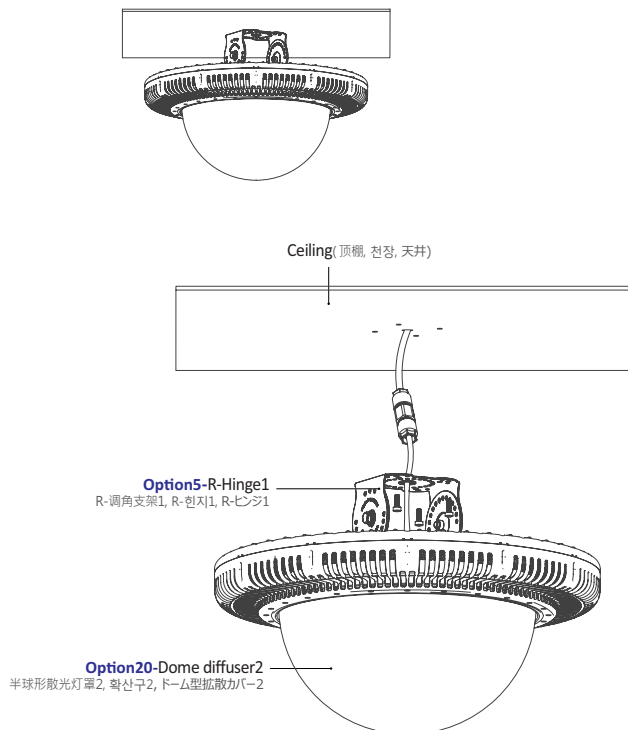
Option5

## Install ④ CD3000 + R-Hinge 1, Ceiling



Option20

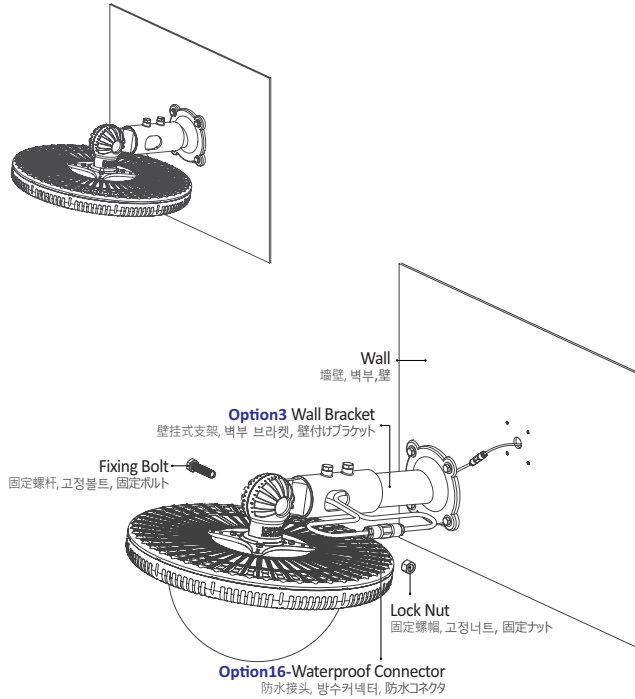
## Install ④-1 Dome Diffuser 2



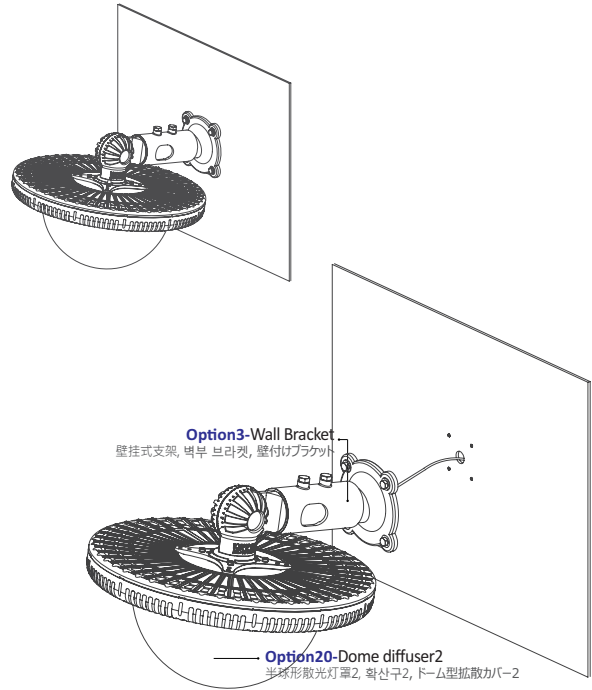
# CD3000 Series Installation Type(安装形式, 설치타입, 設置タイプ)

Flood Light

## Install 5 CD3000 + Wall Bracket

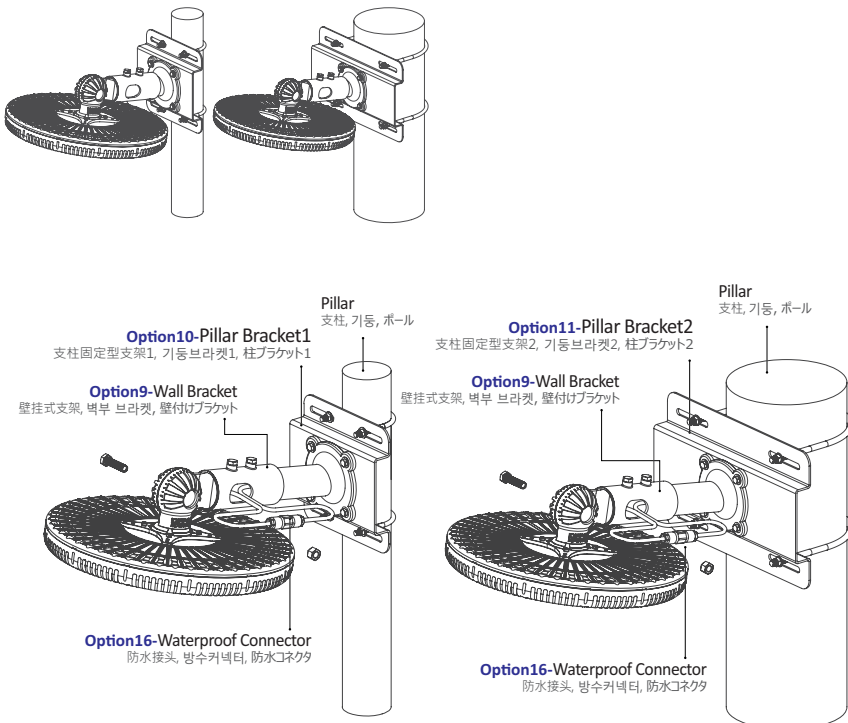


## Install 5-1 Dome Diffuser 2

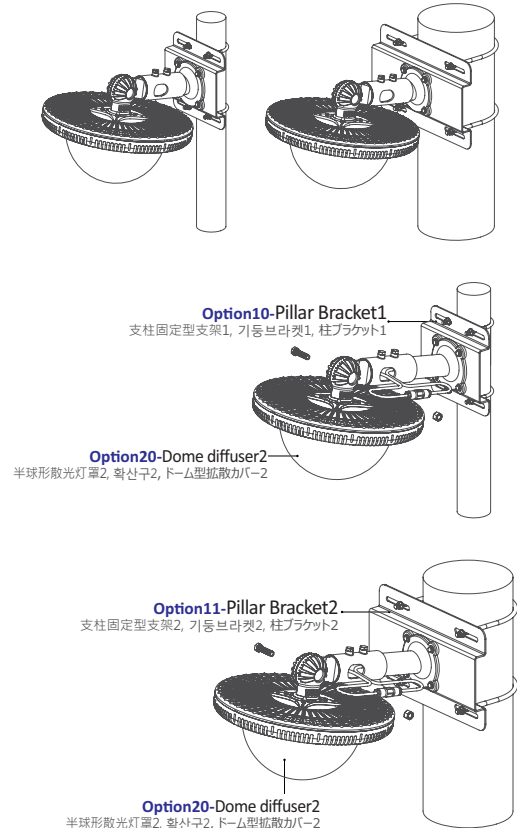


Flood Light

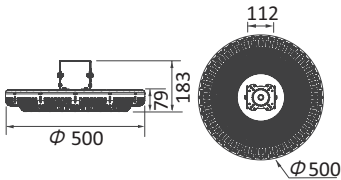
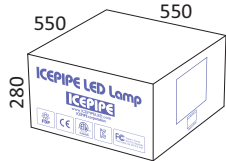
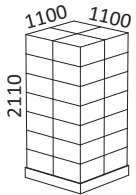
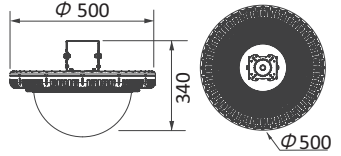
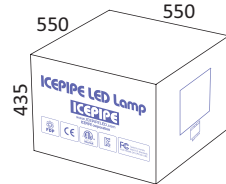
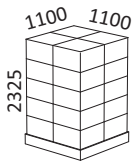
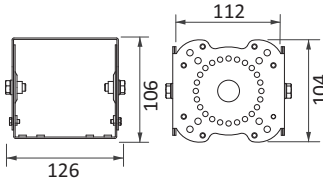
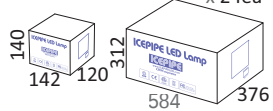
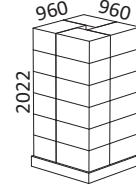
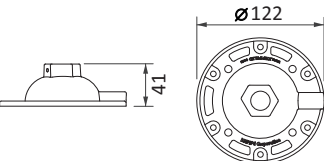
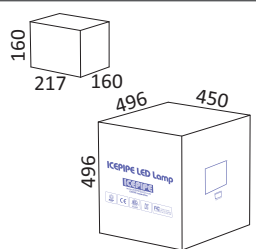
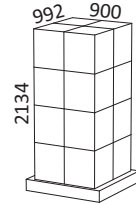
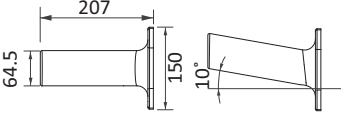
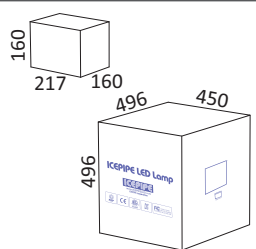
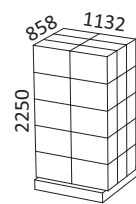
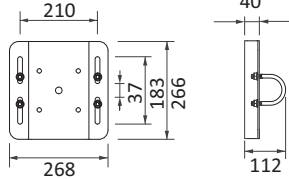
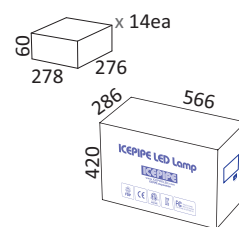
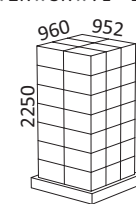
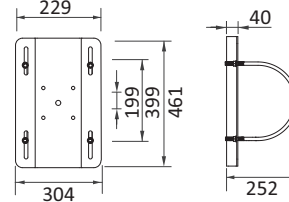
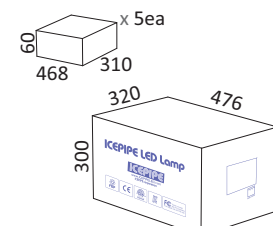
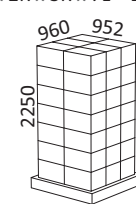
## Install 6 CD3000 + Wall Bracket + Pillar Bracket1, Pillar Bracket2



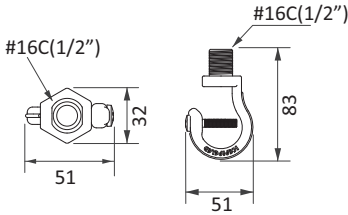
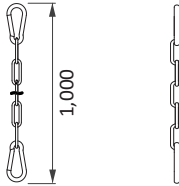
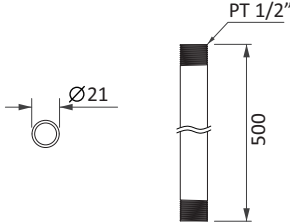
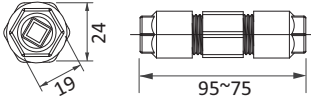
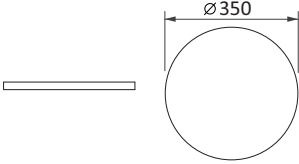
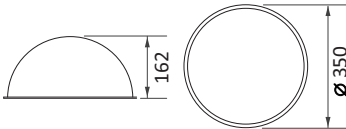
## Install 6-1 Dome Diffuser 2



# CD3000 Series Options

| Components<br>部件, 부품, 部品                                                                                                                                       | Description<br>说明, 설명, 説明                                                                         | Dimensions<br>外观尺寸, 외관치수, 外觀寸法図                                                      | Box size<br>包装尺寸, 박스사이즈, 梱包サイズ                                                        | Pallet size<br>托盘规格, 팔레트사이즈, パレットサイズ                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| <b>Main</b> <b>CD3000</b><br>                                                 | 1. Weight : 5.9kg<br>2. Material : Stainless Steel, Plastic(PC/ABS), Copper                       |    |    | 2R x 2R x 7L = 28ea<br>         |
| <b>Main</b> <b>+ Dome Diffuser2</b><br>                                       | 1. Weight : 6.6Kg<br>2. Material : Stainless Steel, Plastic(PC/ABS), Copper                       |    |    | 2R x 2R x 5L = 20ea<br>         |
| <b>Option 5</b><br><br>R-Hinge1<br>R-调角支架1, R-힌지1, R-ヒンジ1                    | 1. Weight : 572g(EGI), 593g(STS)<br>2. Material : EGI Steel, Stainless Steel                      |   |   | 24 x 2R x 2R x 6L = 576ea<br>  |
| <b>Option 7</b><br><br>Flange Mount Bracket<br>凸缘支架, 후렌지 마운트 브라켓, 플랜지마운트브라켓 | 1. Weight : 148g<br>2. Material : Aluminum                                                        |   |  | 18 x 2R x 2R x 4L = 288ea<br> |
| <b>Option 9</b><br><br>Wall Bracket<br>壁挂式支架, 벽부 브라켓, 壁付けブラケット              | 1. Weight : 1kg<br>2. Material : Aluminum                                                         |  |  | 14 x 2R x 3R x 5L = 420ea<br> |
| <b>Option 10</b><br><br>Pillar Bracket1<br>支柱固定型支架1, 기둥브라켓1, 柱ブラケット1        | 1. Weight : 3kg<br>2. Material : Stainless Steel<br>※ Production on request<br>订单生产 주문후 제작 注文生産   |   |  | 5 x 2R x 3R x 7L = 210ea<br>  |
| <b>Option 11</b><br><br>Pillar Bracket2<br>支柱固定型支架2, 기둥브라켓2, 柱ブラケット2        | 1. Weight : 5.2kg<br>2. Material : Stainless Steel<br>※ Production on request<br>订单生产 주문후 제작 注文生産 |   |  | 5 x 2R x 3R x 7L = 210ea<br>  |

# CD3000 Series Options

| Components<br>部件, 부품, 部品                                                                                                                               | Description<br>说明, 설명, 説明                                                                                                                                                           | Dimensions<br>外观尺寸, 외관치수, 外觀寸法図                                                      | Box size<br>包装尺寸, 박스사이즈, 梱包サイズ | Pallet size<br>托盘规格, 팔레트사이즈, パレットサイズ |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------|--------------------------------------|
| <b>Option 12</b><br><br>Hook<br>吊钩, 후크, フック                           | 1. Weight : 43g<br>2. Material : Aluminum                                                                                                                                           |    | —                              | —                                    |
| <b>Option 13</b><br><br>Chain<br>链条, 체인, チェーン                         | 1. Weight : 140g<br>2. Material : Stainless Steel                                                                                                                                   |     | —                              | —                                    |
| <b>Option 14</b><br><br>Pipe<br>钢管, 파이프, バイプ                         | 1. Weight : 500g<br>2. Material : Steel                                                                                                                                             |    | —                              | —                                    |
| <b>Option 16</b><br><br>Waterproof Connector<br>防水接头, 방수커넥터, 防水コネクタ | 1. Weight : 31g<br>2. Material : PVC/PE                                                                                                                                             |   | —                              | —                                    |
| <b>Option 18</b><br><br>Diffuser Plate 2<br>散光板, 확산판2, 乳白色板         | 1. Weight : Glass-714g<br>2. Material : Glass<br>3. Thickness : 3mm<br><br>※ It must be ordered along with CD3000<br>请与CD3000灯具一起订购<br>CD3000 본체와 함께 주문하십시오<br>CD3000本体と一緒に注文してください |   | —                              | —                                    |
| <b>Option 20</b><br><br>Dome Diffuser 2<br>半球形散光灯罩2, 확산구2, 돔型拡散カバー2 | 1. Weight : 680g<br>2. Material : Plastic(PC)<br><br>※ It must be ordered along with CD3000<br>请与CD3000灯具一起订购<br>CD3000 본체와 함께 주문하십시오<br>CD3000本体と一緒に注文してください                       |  | —                              | —                                    |