

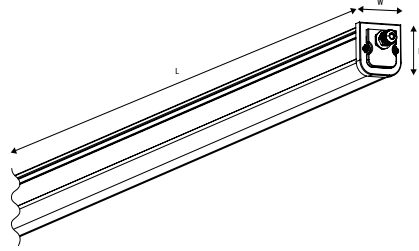
## 1.2 ÜRÜN BİLGİ SAYFASI

### DATASHEET

# TRI-PROOF

**TRI-PROOF WATER-PROOF DUST-PROOF LED ETANJ**  
**TRI-PROOF WATER-PROOF DUST-PROOF LED LUMINAIRE**

#### ÖLÇÜLER / DIMENSIONS



| Ürün Kodu /<br>Product Code                      | Güç /<br>Power<br>(W) | Verim /<br>Efficiency<br>(Lm/W) | Işık Akısı /<br>Luminous<br>Flux<br>(Lm) | Enerji<br>Etiketi /<br>Energy<br>Label | Ürün Ölçü<br>(B,E,Y) /<br>Dimension<br>(L,W,H) | Ürün Ağırlık /<br>Product W.<br>(Kg) | Paket Ölçü<br>(B,E,Y) /<br>Product S.<br>(L,W,H) | Paket Ağırlık /<br>Package W.<br>(Kg) |
|--------------------------------------------------|-----------------------|---------------------------------|------------------------------------------|----------------------------------------|------------------------------------------------|--------------------------------------|--------------------------------------------------|---------------------------------------|
| <b>Opal Difüzör / Opal Diffuser</b>              |                       |                                 |                                          |                                        |                                                |                                      |                                                  |                                       |
| 65-65573-OD                                      | 38 W                  | 117 Lm/W                        | 4.446 Lm                                 | D                                      | 1136x53x55 mm                                  | 0,9 Kg                               | 1530x190x100 mm                                  | 14,4 Kg (16ad/16pcs.)                 |
| 65-65574-OD                                      | 38 W                  | 142 Lm/W                        | 5.400 Lm                                 | C                                      | 1000x53x55 mm                                  | 0,7 Kg                               | 1530x190x100 mm                                  | 11,2 Kg (16ad/16pcs.)                 |
| 65-65576-OD                                      | 45 W                  | 116 Lm/W                        | 5.220 Lm                                 | D                                      | 1136x53x55 mm                                  | 0,9 Kg                               | 1530x190x100 mm                                  | 14,4 Kg (16ad/16pcs.)                 |
| 65-65578-OD                                      | 54 W                  | 130 Lm/W                        | 7.020 Lm                                 | D                                      | 1440x53x55 mm                                  | 1,15 Kg                              | 1530x190x100 mm                                  | 18,4 Kg (16ad/16pcs.)                 |
| 65-65583-OD                                      | 70 W                  | 126 Lm/W                        | 8.820 Lm                                 | D                                      | 1440x53x55 mm                                  | 1,15 Kg                              | 1530x190x100 mm                                  | 18,4 Kg (16ad/16pcs.)                 |
| 65-65584-OD                                      | 75 W                  | 125 Lm/W                        | 9.375 Lm                                 | D                                      | 1440x53x55 mm                                  | 1,15 Kg                              | 1530x190x100 mm                                  | 18,4 Kg (16ad/16pcs.)                 |
| <b>Transparan Difüzör / Transparent Diffuser</b> |                       |                                 |                                          |                                        |                                                |                                      |                                                  |                                       |
| 65-65573-TD                                      | 38 W                  | 142 Lm/W                        | 5.396 Lm                                 | C                                      | 1136x53x55 mm                                  | 0,9 Kg                               | 1530x190x100 mm                                  | 14,4 Kg (16ad/16pcs.)                 |
| 65-65576-TD                                      | 45 W                  | 141 Lm/W                        | 6.345 Lm                                 | C                                      | 1136x53x55 mm                                  | 0,9 Kg                               | 1530x190x100 mm                                  | 14,4 Kg (16ad/16pcs.)                 |
| 65-65578-TD                                      | 54 W                  | 158 Lm/W                        | 8.532 Lm                                 | B                                      | 1440x53x55 mm                                  | 1,15 Kg                              | 1530x190x100 mm                                  | 18,4 Kg (16ad/16pcs.)                 |
| 65-65583-TD                                      | 70 W                  | 153 Lm/W                        | 10.710 Lm                                | C                                      | 1440x53x55 mm                                  | 1,15 Kg                              | 1530x190x100 mm                                  | 18,4 Kg (16ad/16pcs.)                 |
| 65-65584-TD                                      | 75 W                  | 152 Lm/W                        | 11.400 Lm                                | C                                      | 1440x53x55 mm                                  | 1,15 Kg                              | 1530x190x100 mm                                  | 18,4 Kg (16ad/16pcs.)                 |

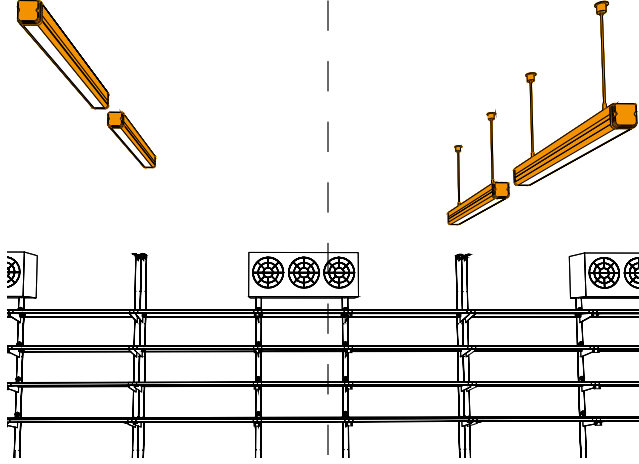
\*HI1,HI3 acil kit opsiyonu bulunmaktadır.  
There is an H1,HI3 emergency kit option.

#### KOD ANAHTARI / COD KEY

**65 - 65XXX - XD - HXX**

**65** → Aile Kodu / Family Code  
**65**=Endüstriyel Led Armatür (Industrial Led Luminaire)  
**65XXX** → Ürün Kodu / Product Code  
**65XXX** → Model Kodu / Model Code  
**XD** → Difüzör Cinsi / Diffuser Type  
**OD**=Opal Difüzör (Opal Diffuser)  
**TD**=Transparan Difüzör (Transparent Diffuser)  
**HXX** → Acil Kit Saati / Emergency Kit Hour  
**1**=1 Saat (Hour)  
**3**=3 Saat (Hour)  
**HXX** → Acil Kit Cinsi / Emergency Kit Type  
**HI**=Dahili (Internal)

Tavan Montaj Aparatlı  
Montaj Modeli / Mounting  
Model with Ceiling  
Mounting Apparatus



Askı Telli Montaj Modeli /  
Suspended Wire Mounting  
Model

## OPTİK ÖZELLİKLER / OPTICAL PROPERTIES

|                                                       |                                                                                                                                                                            |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Renk Sıcaklığı / Color Temperature (CCT)              | 3000-4000-6000K                                                                                                                                                            |
| Işıma Açısı / Beam Angle                              | C140°                                                                                                                                                                      |
| Renk Geri Verim İndeksi / Color Rendering Index (CRI) | >80                                                                                                                                                                        |
| Difüzör / Diffuser                                    | UV Stabilize Edilmiş, Yekpare Gövde, OPAL veya Şeffaf Lineer Prizmatik Ekstrüzyon Diffüzör<br>UV Stabilized, Solid Body, OPAL or Clear Linear Prismatic Extrusion Diffuser |
| Sürücü / Driver                                       | Dahili Sürücü / Internal Drive                                                                                                                                             |

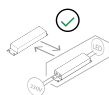
## ELEKTRİKSEL ÖZELLİKLER / ELECTRICAL PROPERTIES

|                                                   |                                                                                                                                                                                                                                                     |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Giriş Voltajı, Frekans / Input Voltage, Frequency | 180~240 AC/V, 50~60 Hz                                                                                                                                                                                                                              |
| Lamba Tipi / Lamp Type                            | LED Modül / LED Module                                                                                                                                                                                                                              |
| Güç Faktörü (PF-λ) / Power Factor                 | >95                                                                                                                                                                                                                                                 |
| Acil Aydınlatma / Emergency Lighting              | Gövde İçi Dahili 1-3 Saat Bataryalı Acil Kit (Opsiyonel), Acil Aydınlatma Dahili 1-3 Saat (Max. 3w.) (Opsiyonel)<br>Emergency Kit with Internal Battery for 1-3 Hours Inside the Body (Optional), Emergency Lighting 1-3 Hours (Max.3w.) (Optional) |
| Acil Aydınlatma Gücü / Emergency Lighting Power   | %10-15                                                                                                                                                                                                                                              |
| IEC Koruma Sınıfı / IEC Protection Class          | CLASS (I)                                                                                                                                                                                                                                           |
| Sensör / Sensor                                   | Harekete & Sese Duyarlı Sensör (Opsiyonel)/<br>Motion & Sound Sensitive Sensor (Optional)                                                                                                                                                           |
| Otomasyon / Automation                            | Şebeke Girişi Pano veya Harici Kontrol Modülleri ile Kontrol Edilebilir /<br>Mains Input can be Controlled by Panel or External Control Modules                                                                                                     |
| Dimli / Dimmable                                  | Evet / Yes (opt)                                                                                                                                                                                                                                    |

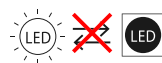
## MEKANİK ÖZELLİKLER / MECHANICAL PROPERTIES

|                                            |                                                                                                                                                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Montaj Seçenekleri / Mounting Options      | Paslanmaz Yay Çeliği Tavan Bağlantısı, İsteğe Bağlı Çeşitli Uzunluklarda Sarkıtma / Stainless Spring Steel Ceiling Bracket, Suspension in Various Lengths Optional |
| IP - Koruma sınıfı / IP - Protection Class | IP65                                                                                                                                                               |
| Montaj Tipi / Mounting Type                | Sıva Üstü, Sarkıt / Surface Mounted, Pendant                                                                                                                       |
| Şebeke Bağlantısı / Network Connection     | 3x NYAF ve Monofaz Topraklı Bağlantı<br>3x NYAF and Single Phase Ground Connection                                                                                 |

## EU EcoDesign Compliant (EEC) - 2019/2020 EU



Son kullanıcı tarafından  
değiştirilebilir kontrol tertibatı/  
Replaceable control gear by an  
end-user



Değiştirilemez ışık kaynağı  
Non-Replaceable light source

### SICAKLIK VE ÇALIŞMA KOŞULLARI / TEMPERATURES AND OPERATING CONDITIONS

|                                                        |               |
|--------------------------------------------------------|---------------|
| Çalışma Isısı (Oda Sıcaklığında) / Working Temperature | -20°C...+50°C |
|--------------------------------------------------------|---------------|

### DEPOLAMA BİLGİLERİ / STORAGE INFORMATION

|                                                            |               |
|------------------------------------------------------------|---------------|
| Depolamada Sıcaklık Aralığı / Temperature Range at Storage | -30°C...+70°C |
|------------------------------------------------------------|---------------|

### RENKLER & MATERYAL / COLORS & MATERIAL

|                                              |                                                                                                                                   |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Gövde Malzemesi / Body Material              | Polikarbon (PC) / Polycarbon (PC)                                                                                                 |
| Gövde Rengi Seçenekleri / Body Color Options | Siyah (Ral 9005), Beyaz (Ral 9016), Gri (7035), Ral (Opsiyonel) / Black (Ral 9005), White (Ral 9016), Gray (7035), Ral (Optional) |

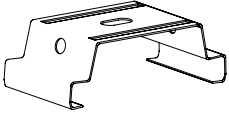
### ÜRÜNÜN YAŞAM SÜRESİ / PRODUCT LIFE TIME

|                                                       |          |
|-------------------------------------------------------|----------|
| Anahtarlama Döngü Sayısı / Number of Switching Cycles | 50.000   |
| Ömür / Lifespan L80/B50 at 25 C°                      | 63.000 h |

### SERTİFİKALAR & STANDARTLAR / CERTIFICATES & STANDARDS

|                                                                         |                                                                                                                |
|-------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Koruma Sınıfı IK (Şok Direnci) / Protection Class IK (Shock Resistance) | IK 08                                                                                                          |
| Sertifikasyon / Certification                                           | ISO 9001, LVD, EMC, CE, RoHS<br>EN 60598-1, EN 55015, EN 61547,<br>EU EcoDesign Compliant (EEC) - 2019/2020 EU |

### EKİPMAN & AKSESUARLAR / EQUIPMENT and ACCESSORIES



Tavan Bağlantı Klipsi-Tekli / Ceiling Fastening Clip-Single



Askı Teli / Suspended Wire

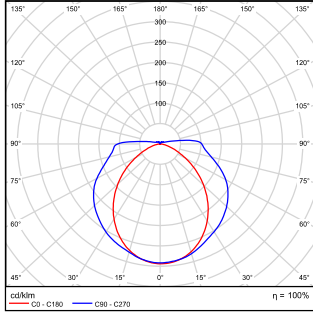
### OPSİYONLAR / OPTIONS

|                                                                                     |                                                                 |                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Askı Teli / Suspended Wire                                      | Paslanmaz yay çeliğinden üretilir. Vidalama veya askı için uygundur. Max. yük taşıma 9kg'dır./It is produced from Stainless spring steel. Suitable for screwing or hanging. Max. load carrying is 9kg.                      |
|  | Tavan Bağlantı Klipsi (Tekli) / Ceiling Fastening Clip (Single) | Paslanmaz yay çeliği malzemeden üretilir. Armatürleri monyaj yüzeyine kolayca montajını sağlar. / It is produced from stainless spring steel material. It allows the fixtures to be easily mounted on the mounting surface. |

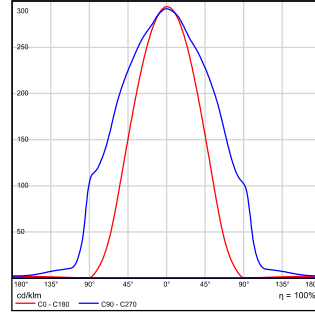
## TESTLER / TESTS

### Işık Dağılımı/ Light Distribution

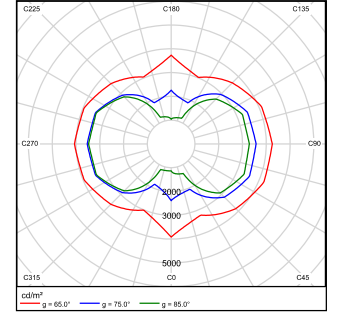
Işık Yayımları 1 - Polar LVK Light Light  
Emission 1 - Polar LVK



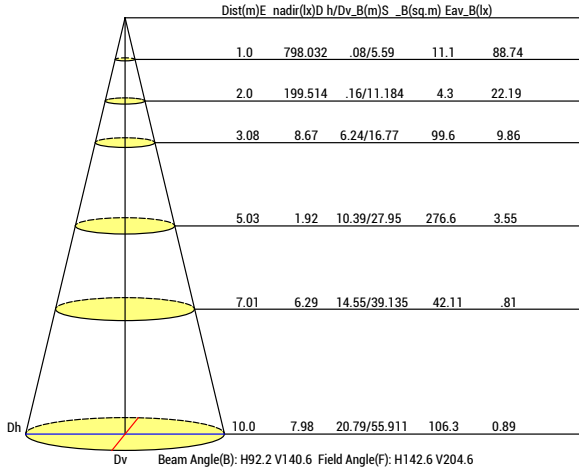
Işık Yayımları 1 - Lineer LVK  
Light emission 1 - Polar LVK



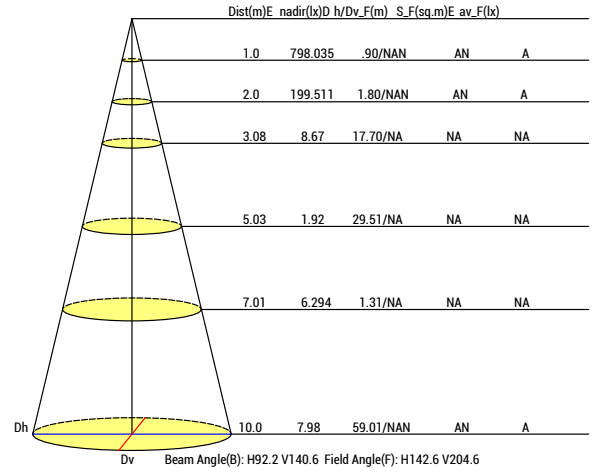
Işık Yayımları 1 - Işıklık Diagramı  
Light emission 1 - Skylight Diagram



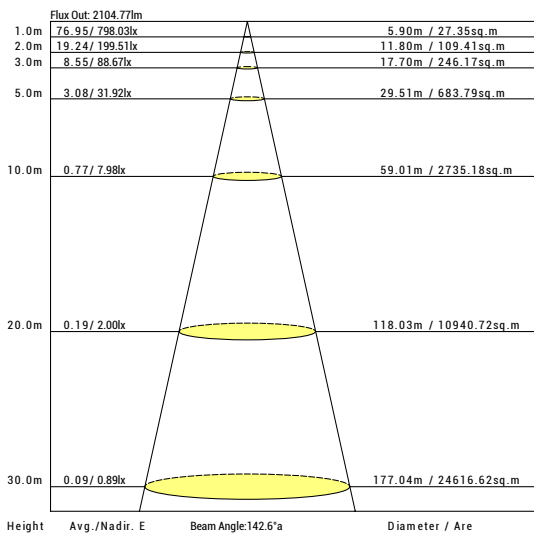
### Uzaktaki Parlaklık (Işın Açısı) / Illuminance at a Distance (Beam Angle)



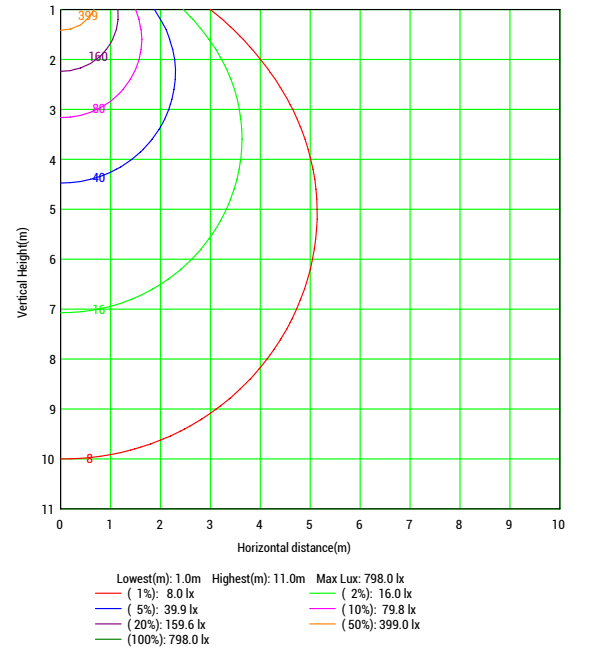
### Uzaktaki Parlaklık (Alan Açısı) / Illuminance at a Distance (Field Angle)



### Ortalama Aydınlik Etkili Şekil / The Average Illuminance Effective Figure



### Dikey IsoLux Grafiği / Vertical IsoLux Plot



\*TRI PROOF 65-65573-TD ürünün ölçümleridir. / \*The measurements of the TRI PROOF 65-65573-TD product.

**ÜRÜN FOTOĞRAFLARI / PRODUCT PHOTOS**



**REFERANSLAR & LİNKLER / REFERENCES & LINKS**



[www.karmalighting.com](http://www.karmalighting.com)



KARMA Lighting



karma.lighting



KarmaLighting



karma.lighting.global



Karma LED Lighting