# Tough-Shell High Bay 100W 4000K 15000lm Dimmable 60 deg Beam Angle

The Tough-Shell Circular High Bay is a rugged, attractive and highly efficient solution for lighting large indoor facilities such as warehouses, production facilities and indoor sports halls. Running at an efficacy of 150lm/W, the Tough-Shell provides up to 15,000lm and thanks to its skilfully engineered aluminium body it effectively dissipates heat while maintaining IK10 impact resistance.

Watch Video

## Product Details

Partcode: ILHBC162

Check Code: 820553

Range Name: Tough-Shell

Product Type: Circular High Bay

Warranty: 5 Years

CE / RoHS: Yes

Suitable for claiming Enhanced Capital Allowance: Yes

## Physical Data

Product Finish: Matt Black

Optic: Polycarbonate diffuser

Material: Aluminium, Polycarbonate

Construction: Aluminium heat-sink, PC injection moulded driver case



Product design and specification subject to change or modification without notice. Image for illustration only. E&OE

## Physical Data

Length: 139mm

Diameter: 360mm

Weight (Unpackaged Single Unit): 5400g

Lamp or Luminaire Shape: Round

Luminaire Fixing: Suspended

## Electrical Data

Power Consumption: 100.0 Watts

Driver included: Yes

Electric Current: AC

Frequency Range: 50/60 Hz

Power Factor: >=0.95

Dimming: Dimmable

LVD Certified: Yes

EN: EN-60598, EN61000, EN61547, EN55015, IEC62321

## Light Data

Lumens: 15,000lm

Lumens per Watt: 150.0lm/W

Beam Angle: 60º

Correlated Colour Temperature (CCT): 4,000k

Colour Temperature: Cool White

Colour Rendering Index (CRI): >=70

LED Type: Surface mounted device (SMD)

Instant on - Less than 1 second: Yes

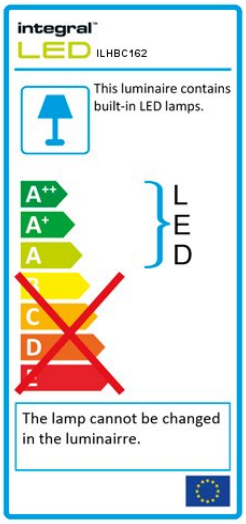
Lifetime: 50,000 hrs

Switching Cycles: >25,000 X



Product design and specification subject to change or modification without notice. Image for illustration only. E&OE

## Environmental




Lowest Operating Temperature: -30 degrees

Maximum Operating Temperature: 45 degrees

IK (Impact Protection) Rating: 10

IP (Ingress Protection) Rating: IP65

Hg 0% (Mercury Free): Yes

## Packaging

EAN Barcode (unit of 1): 5055788239406

Packaged Weight (Unit of 1): 6,500g

Length (unit of 1): 445mm

Width (unit of 1): 225mm

Depth (unit of 1): 445mm

**Outer packaging info available on website**



Product design and specification subject to change or modification without notice. Image for illustration only. E&OE

## Declaration of Conformity - ECA Compliance

We declare that the products listed below comply with the requirements of the ECA Energy Technology List 2015 – White Light Emitting Diode Lighting Units

### Products suitable for claiming Enhanced Capital Allowance

| Product name | Partcode |
|---|---|
| Panel Back-lit 1200x600 70W 6000K 7500lm | ILP1260B70N06KCTWH |
| Panel Back-lit 1200x600 70W 6000K 7500lm with emergency function | ILP1260B70N06KCTWHEM |
| Panel Back-lit 600x600 35W 6000K 3700lm | ILP6060B35N06KCPWH |
| Panel Back-lit 600x600 35W 6000K 3700lm with emergency function | ILP6060B35N06KCPWHEM |
| Panel Back-lit 600x600 30W 3000K 3200lm | ILP6060B30N03KROWH |
| Panel Back-lit 600x600 30W 4000K 3500lm | ILP6060B30N04KROWH |
| Panel Back-lit 600x600 30W 5000K 3500lm | ILP6060B30N05KROWH |
| Panel Back-lit 600x600 30W 6500K 3500lm | ILP6060B30N65KROWH |
| Panel Back-lit 600x600 40W 4000K 4600lm | ILP6060B40N04KRQWH |
| Panel Back-lit 600x600 40W 5000K 4600lm | ILP6060B40N05KRQWH |
| Panel Back-lit 600x600 50W 4000K 5500lm | ILP6060B50N04KRRWH |
| Panel Back-lit 600x600 30W 3000K 3200lm with integrated emergency function | ILP6060B30N03KROWHE3 |
| Panel Back-lit 600x600 30W 4000K 3500lm with integrated emergency function | ILP6060B30N04KROWHE3 |
| Panel Back-lit 600x600 30W 5000K 3500lm with integrated emergency function | ILP6060B30N05KROWHE3 |
| Panel Back-lit 600x600 30W 6500K 3500lm with integrated emergency function | ILP6060B30N65KROWHE3 |
| Panel Back-lit 600x600 40W 4000K 4600lm with integrated emergency function | ILP6060B40N04KRQWHE3 |
| Panel Back-lit 600x600 40W 5000K 4600lm with integrated emergency function | ILP6060B40N05KRQWHE3 |
| Panel Back-lit 600x600 50W 4000K 5500lm with integrated emergency function | ILP6060B50N04KRRWHE3 |
| Panel Back-lit 1200x600 60W 4000K 6900lm | ILP1260B60N04KRSWH |
| Panel Back-lit 1200x600 60W 5000K 6900lm | ILP1260B60N05KRSWH |
| Panel Back-lit 1200x600 70W 4000K 8200lm | ILP1260B70N04KRTWH |
| Panel Back-lit 1200x600 70W 5000K 8200lm | ILP1260B70N05KRTWH |
| Panel Back-lit 1200x300 30W 3000K 3200lm | ILP1230B30N03KRNWH |
| Panel Back-lit 1200x300 30W 4000K 3500lm | ILP1230B30N04KROWH |
| Panel Back-lit 1200x300 30W 5000K 3500lm | ILP1230B30N05KROWH |
| Panel Back-lit 1200x600 60W 4000K 6900lm with emergency function | ILP1260B60N04KRSWHEM |
| Panel Back-lit 1200x600 60W 5000K 6900lm with emergency function | ILP1260B60N05KRSWHEM |
| Panel Back-lit 1200x600 70W 4000K 8200lm with emergency function | ILP1260B70N04KRTWHEM |
| Panel Back-lit 1200x600 70W 5000K 8200lm with emergency function | ILP1260B70N05KRTWHEM |
| Panel Back-lit 600x600 36W 4000K 3600lm (Twin Pack) | ILP6060B015-02 |
| Panel Back-lit 600x600 36W 6500K 3700lm (Twin Pack) | ILP6060B016-02 |
| Panel Back-lit 600x600 25W 3000K 3200lm | ILP6060B001 |
| Panel Back-lit 600x600 25W 5000K 3500lm | ILP6060B005 |
| Panel Back-lit 600x600 25W 6500K 3500lm | ILP6060B007 |
| Panel Back-lit 600x600 25W 3000K 3200lm with integrated emergency function | ILP6060B002 |



Product design and specification subject to change or modification without notice. Image for illustration only. E&OE

| | |
|---|---|
| Panel Back-lit 600x600 25W 4000K 3500lm with integrated emergency function | ILP6060B004 |
| Panel Back-lit 600x600 25W 6500K 3500lm with integrated emergency function | ILP6060B008 |
| Panel Back-lit 600x600 35W 4000K 4600lm with integrated emergency function | ILP6060B010 |
| Panel Back-lit 600x600 35W 5000K 4600lm with integrated emergency function | ILP6060B012 |
| Panel Back-lit 600x600 45W 4000K 5500lm with integrated emergency function | ILP6060B014 |
| Panel Back-lit 1200x600 50W 4000K 6900lm | ILP1260B001 |
| Panel Back-lit 1200x600 50W 5000K 6900lm | ILP1260B003 |
| Panel Back-lit 1200x600 50W 4000K 6900lm with integrated emergency function | ILP1260B002 |
| Panel Back-lit 1200x600 50W 5000K 6900lm with integrated emergency function | ILP1260B004 |
| Panel Back-lit 1200x600 70W 4000k 8200lm with integrated emergency function | ILP1260B70N04KRTWHE3 |
| Panel Back-lit 1200x600 70W 5000k 8200lm with integrated emergency function | ILP1260B70N05KRTWHE3 |
| Circular High Bay 100W 5000K 12000lm 50 deg 1-10V Dimmable | ILHBC001 |
| Circular High Bay 100W 5000K 12000lm 110 deg 1-10V Dimmable | ILHBC002 |
| Circular High Bay 150W 5000K 18000lm 50 deg 1-10V Dimmable | ILHBC003 |
| Circular High Bay 150W 5000K 18000lm 110 deg 1-10V Dimmable | ILHBC004 |
| Circular High Bay 240W 5000K 26200lm 50 deg 1-10V Dimmable | ILHBC005 |
| Circular High Bay 240W 5000K 26200lm 110 deg 1-10V Dimmable | ILHBC006 |
| Linear Low Bay 70W 5000K 9100lm IP54 110 deg beam angle | ILHBL001 |
| Linear Low Bay 150W 5000K 19500lm IP54 110 deg beam angle | ILHBL002 |
| Panel Edge-lit 600x600 36W 4000K 3600lm IP65 | ILP6060E001 |
| Panel Back-lit 600x600 25W 4000K 3500lm | ILP6060B003 |
| Panel Back-lit 600x600 35W 4000K 4600lm | ILP6060B009 |
| Panel Back-lit 600x600 45W 4000K 5500lm | ILP6060B013 |
| Panel Back-lit 1200x600 60W 4000k 8200lm | ILP1260B005 |
| Panel Back-lit 1200x600 60W 4000k 8200lm with integrated emergency function | ILP1260B006 |
| Panel Back-lit 1200x300 25W 4000K 3500lm | ILP1230B001 |
| Panel Back-lit 1200x300 25W 5000K 3500lm | ILP1230B002 |
| Panel Low-Profile Back-lit 600x600 35W 4000K 4600lm | ILP6060B018 |
| Panel Low-Profile Back-lit 600x600 45W 4000K 5500lm | ILP6060B019 |
| Panel Low-Profile Back-lit 600x600 25W 4000K 3500lm with DALI dimming | ILP6060B020 |
| Panel Low-Profile Back-lit 600x600 35W 4000K 4600lm with DALI dimming | ILP6060B021 |
| Panel Low-Profile Back-lit 600x600 45W 4000K 5500lm with DALI dimming | ILP6060B022 |
| Circular High Bay 200W 5000K 24000lm Dimmable 50 deg beam angle | ILHBC011 |
| Circular High Bay 200W 5000K 24000lm Dimmable 110 deg beam angle | ILHBC012 |
| Panel Edge-lit 600x600 38W 4000k 3800lm No Driver Included | ILP6060E008 |
| Panel Back-lit 600x600 35W 5000K 4600lm IP44 | ILP6060B011 |
| Panel Edge-lit 600x600 30W 4000K 3600lm | ILP6060E003 |
| Panel Edge-lit 600x600 36W 4000K 4320lm | ILP6060E005 |
| Panel Edge-lit 1200x600 50W 4000K 6000lm | ILP1260E001 |
| Panel Back-lit 1200x600 46W 4000K 6900lm | ILP1260B001 |
| Panel Back-lit 1200x600 46W 5000K 6900lm | ILP1260B003 |
| Panel Low-Profile Back-lit 600x600 25W 4000K 3500lm TP(b) rated Polycarbonate Diffuser | ILP6060B017 |
| Panel Low-Profile Back-lit 600x600 35W 4000K 4600lm TP(b) rated Polycarbonate Diffuser | ILP6060B018 |



Product design and specification subject to change or modification without notice. Image for illustration only. E&OE

| | |
|---|---|
| Panel Low-Profile Back-lit 600x600 43W 4000K 5500lm | ILP6060B019 |
| Panel Low-Profile Back-lit 600x600 42W 4000K 5500lm with integrated emergency function | ILP6060B028 |
| Panel Low-Profile Back-lit 600x600 23W 4000K 3500lm with integrated emergency function | ILP6060B030 |
| Back-lit Panel 600x600 25W 5000K 3500lm with integrated emergency function | ILP6060B006 |
| Panel Low-Profile Back-lit 600x600 25W 4000K 3500lm | ILP6060B017 |
| Panel Edge-lit 600x600 32W 4000K 3600lm IP65 | ILP6060E001 |
| Panel Back-lit 1200x600 46W 4000k 6900lm with integrated emergency function | ILP1260B007 |
| Panel Low-Profile Back-lit 600x600 33W 4000K 4600lm | ILP6060B018 |
| Panel Low-Profile Back-lit 600x600 23W 4000K 3500lm | ILP6060B029 |
| Panel Edge-lit 1200x300 30W 4000K 3600lm | ILP1230E001 |
| Panel Back-lit 1200x600 46W 5000k 6900lm with integrated emergency function | ILP1260B008 |
| Panel Back-lit 1200x300 23W 4000k 3500lm with integrated emergency function | ILP1230B003 |
| Panel Back-lit 1200x300 30W 6500K 3500lm | ILP1230B30N65KROWH |
| Panel Back-lit 1200x600 56W 4000k 8200lm | ILP1260B005 |
| Panel Back-lit 1200x600 56W 4000k 8200lm with integrated emergency function | ILP1260B006 |
| Lightspan T8 Style LED Batten 43W 4000K 5150lm | ILBTC051 |
| Lightspan T8 Style LED Batten 60W 4000K 7200lm | ILBTC053 |
| Lightspan T8 Style LED Batten 65W 4000K 78000lm | ILBTC055 |
| Spacelux Circular High Bay 160W 5000K 20,960lm 110 deg beam angle Non-Dimmable | ILHBG007 |
| Spacelux Circular High Bay 100W 5000K, 12,000lm 110 deg Beam Angle Dimmable | ILHBG022 |
| LED IP65 Batten 18.5W 2ft Linkable | ILBTOA001 |
| LED IP65 Batten 38W 4ft Linkable | ILBTOA002 |
| LED IP65 Batten 46.5W 5ft Linkable | ILBTOA003 |
| LED IP65 Batten 55W 6ft Linkable | ILBTOA004 |
| LED IP65 Batten 18.5W 2ft Non-Linkable | ILBTOA005 |
| LED IP65 Batten 38W 4ft Non-Linkable | ILBTOA006 |
| LED IP65 Batten 46.5W 5ft Non-Linkable | ILBTOA007 |
| LED IP65 Batten 55W 6ft Non-Linkable | ILBTOA008 |
| IP65 Batten 45W 4000K 5400lm 4ft White Non-Linkable | ILBTB017 |
| IP65 Batten 45W 4000K 5400lm 4ft White Non-Linkable with Emergency Function | ILBTB018 |
| IP65 Batten 45W 4000K 5400lm 4ft White Non-Linkable with Microwave Sensor | ILBTB019 |
| IP65 Batten 60W 4000K 7200lm 5ft White Non-Linkable | ILBTB020 |
| IP65 Batten 60W 4000K 7200lm 5ft White Non-Linkable with Emergency Function | ILBTB021 |
| IP65 Batten 60W 4000K 7200lm 5ft White Non-Linkable with Microwave Sensor | ILBTB022 |
| IP65 Batten 70W 4000K 8400lm 6ft White Non-Linkable | ILBTB023 |
| IP65 Batten 70W 4000K 8400lm 6ft White Non-Linkable with Emergency Function | ILBTB024 |
| IP65 Batten 70W 4000K 8400lm 6ft White Non-Linkable with Microwave Sensor | ILBTB025 |
| Panel Edge-lit 600x600 38W 6500k 3850lm No Driver Included | ILP6060E009 |
| Panel Edge-lit 600x600 30W 6500K 3640lm | ILP6060E004 |
| Panel Edge-lit 600x600 36W 6500K 4360lm | ILP6060E006 |



Product design and specification subject to change or modification without notice. Image for illustration only. E&OE

| | |
|---|---|
| Panel Edge-lit 1200x600 50W 6500K 6050lm | ILP1260E002 |
| IP65 Batten 45W 6500K 5400lm 4ft White Non-Linkable | ILBTB026 |
| IP65 Batten 45W 6500K 5400lm 4ft White Non-Linkable with Emergency Function | ILBTB027 |
| IP65 Batten 45W 6500K 5400lm 4ft White Non-Linkable with Microwave Sensor | ILBTB028 |
| IP65 Batten 60W 6500K 7200lm 5ft White Non-Linkable | ILBTB029 |
| IP65 Batten 60W 6500K 7200lm 5ft White Non-Linkable with Emergency Function | ILBTB030 |
| IP65 Batten 60W 6500K 7200lm 5ft White Non-Linkable with Microwave Sensor | ILBTB031 |
| IP65 Batten 70W 6500K 8400lm 6ft White Non-Linkable | ILBTB032 |
| IP65 Batten 70W 6500K 8400lm 6ft White Non-Linkable with Emergency Function | ILBTB033 |
| IP65 Batten 70W 6500K 8400lm 6ft White Non-Linkable with Microwave Sensor | ILBTB034 |
| IP65 LED Linear High Bay 80W 5000K 10400lm 110 Deg Beam Angle | ILHBL020 |
| IP65 LED Linear High Bay 120W 5000K 16200lm 110 Deg Beam Angle | ILHBL024 |
| IP65 LED Linear High Bay 180W 5000K 23400lm 110 Deg Beam Angle | ILHBL028 |
| IP65 LED Linear High Bay 60W 4000K 10400lm 110 Deg Beam Angle | ILHBL040 |
| IP65 LED Linear High Bay 100W 4000K 13000lm 110 Deg Beam Angle | ILHBL042 |
| IP65 LED Linear High Bay 120W 4000K 16200lm 110 Deg Beam Angle | ILHBL044 |
| IP65 LED Linear High Bay 160W 4000K 20800lm 110 Deg Beam Angle | ILHBL046 |
| IP65 LED Linear High Bay 180W 4000K 23400lm 110 Deg Beam Angle | ILHBL048 |
| Spacelux Circular High Bay 80W 5000K 9600lm 110 deg Beam Angle Dimmable | ILHBG020 |
| Spacelux Circular High Bay 120W 5000K 14400lm 110 deg Beam Angle Dimmable | ILHBG024 |
| Spacelux Circular High Bay 120W 5000K 16800lm 110 deg Beam Angle Dimmable | ILHBG026 |
| Spacelux Circular High Bay 80W 4000K 9600lm 110 deg Beam Angle Dimmable | ILHBG040 |
| Spacelux Circular High Bay 100W 4000K 12000lm 110 deg Beam Angle Dimmable | ILHBG042 |
| Spacelux Circular High Bay 120W 4000K 14400lm 110 deg Beam Angle Dimmable | ILHBG044 |
| Spacelux Circular High Bay 120W 4000K 16800lm 110 deg Beam Angle Dimmable | ILHBG046 |
| Spacelux Circular High Bay 160W 5000K 21000lm 110 deg Beam Angle Dimmable | ILHBG028 |
| Spacelux Circular High Bay 160W 5000K 24000lm 110 deg Beam Angle Dimmable | ILHBG030 |
| Spacelux Circular High Bay 160W 4000K 21000lm 110 deg Beam Angle Dimmable | ILHBG048 |
| Spacelux Circular High Bay 160W 4000K 24000lm 110 deg Beam Angle Dimmable | ILHBG050 |
| Perform Circular High Bay 60W 4000K 7800lm Non-Dimmable | ILHBC200 |
| Perform Circular High Bay 80W 4000K 10400lm Non-Dimmable | ILHBC202 |
| Perform Circular High Bay 100W 4000K 13000lm Non-Dimmable | ILHBC204 |
| Perform Circular High Bay 120W 4000K 15600lm Non-Dimmable | ILHBC206 |
| Perform Circular High Bay 150W 4000K 19500lm Non-Dimmable | ILHBC208 |
| Perform Circular High Bay 200W 4000K 26000lm Non-Dimmable | ILHBC210 |
| Perform Circular High Bay 60W 5000K 7800lm Non-Dimmable | ILHBC220 |
| Perform Circular High Bay 80W 5000K 10400lm Non-Dimmable | ILHBC222 |
| Perform Circular High Bay 100W 5000K 13000lm Non-Dimmable | ILHBC224 |



Product design and specification subject to change or modification without notice. Image for illustration only. E&OE

| | |
|---|---|
| Perform Circular High Bay 120W 5000K 15600lm Non-Dimmable | ILHBC226 |
| Perform Circular High Bay 150W 5000K 19500lm Non-Dimmable | ILHBC228 |
| Perform Circular High Bay 200W 5000K 26000lm Non-Dimmable | ILHBC230 |
| Perform Circular High Bay 60W 4000K 7800lm Dimmable | ILHBC240 |
| Perform Circular High Bay 80W 4000K 10400lm Dimmable | ILHBC242 |
| Perform Circular High Bay 100W 4000K 13000lm Dimmable | ILHBC244 |
| Perform Circular High Bay 120W 4000K 15600lm Dimmable | ILHBC246 |
| Perform Circular High Bay 150W 4000K 19500lm Dimmable | ILHBC248 |
| Perform Circular High Bay 200W 4000K 26000lm Dimmable | ILHBC250 |
| Perform Circular High Bay 60W 5000K 7800lm Dimmable | ILHBC260 |
| Perform Circular High Bay 80W 5000K 10400lm Dimmable | ILHBC262 |
| Perform Circular High Bay 100W 5000K 13000lm Dimmable | ILHBC264 |
| Perform Circular High Bay 120W 5000K 15600lm Dimmable | ILHBC266 |
| Perform Circular High Bay 150W 5000K 19500lm Dimmable | ILHBC268 |
| Perform Circular High Bay 200W 5000K 26000lm Dimmable | ILHBC270 |
| Linear Low Bay 100W 5000K 13000lm IP65 110 deg beam angle | ILHBL009 |
| Linear Low Bay 160W 5000K 20800lm IP65 110 deg beam angle | ILHBL010 |
| Tough-Shell High Bay 100W 4000K 13000lm Non-Dimmable 120 deg Beam Angle | ILHBC100 |
| Tough-Shell High Bay 100W 4000K 15000lm Non-Dimmable 120 deg Beam Angle | ILHBC102 |
| Tough-Shell High Bay 150W 4000K 19500lm Non-Dimmable 120 deg Beam Angle | ILHBC104 |
| Tough-Shell High Bay 150W 4000K 22500lm Non-Dimmable 120 deg Beam Angle | ILHBC106 |
| Tough-Shell High Bay 200W 4000K 26000lm Non-Dimmable 120 deg Beam Angle | ILHBC108 |
| Tough-Shell High Bay 240W 4000K 31200lm Non-Dimmable 120 deg Beam Angle | ILHBC110 |
| Tough-Shell High Bay 240W 4000K 36000lm Non-Dimmable 120 deg Beam Angle | ILHBC112 |
| Tough-Shell High Bay 100W 4000K 13000lm Non-Dimmable 60 deg Beam Angle | ILHBC120 |
| Tough-Shell High Bay 100W 4000K 15000lm Non-Dimmable 60 deg Beam Angle | ILHBC122 |
| Tough-Shell High Bay 150W 4000K 19500lm Non-Dimmable 60 deg Beam Angle | ILHBC124 |
| Tough-Shell High Bay 150W 4000K 22500lm Non-Dimmable 60 deg Beam Angle | ILHBC126 |
| Tough-Shell High Bay 200W 4000K 26000lm Non-Dimmable 60 deg Beam Angle | ILHBC128 |
| Tough-Shell High Bay 240W 4000K 31200lm Non-Dimmable 60 deg Beam Angle | ILHBC130 |
| Tough-Shell High Bay 240W 4000K 36000lm Non-Dimmable 60 deg Beam Angle | ILHBC132 |
| Tough-Shell High Bay 100W 4000K 13000lm Dimmable 120 deg Beam Angle | ILHBC140 |
| Tough-Shell High Bay 100W 4000K 15000lm Dimmable 120 deg Beam Angle | ILHBC142 |
| Tough-Shell High Bay 150W 4000K 19500lm Dimmable 120 deg Beam Angle | ILHBC144 |
| Tough-Shell High Bay 150W 4000K 22500lm Dimmable 120 deg Beam Angle | ILHBC146 |
| Tough-Shell High Bay 200W 4000K 26000lm Dimmable 120 deg Beam Angle | ILHBC148 |
| Tough-Shell High Bay 240W 4000K 31200lm Dimmable 120 deg Beam Angle | ILHBC150 |
| Tough-Shell High Bay 240W 4000K 36000lm Dimmable 120 deg Beam Angle | ILHBC152 |
| Tough-Shell High Bay 100W 4000K 13000lm Dimmable 60 deg Beam Angle | ILHBC160 |
| Tough-Shell High Bay 100W 4000K 15000lm Dimmable 60 deg Beam Angle | ILHBC162 |
| Tough-Shell High Bay 150W 4000K 19500lm Dimmable 60 deg Beam Angle | ILHBC164 |



Product design and specification subject to change or modification without notice. Image for illustration only. E&OE

| | |
|---|---|
| Tough-Shell High Bay 150W 4000K 22500lm Dimmable 60 deg Beam Angle | ILHBC166 |
| Tough-Shell High Bay 200W 4000K 26000lm Dimmable 60 deg Beam Angle | ILHBC168 |
| Tough-Shell High Bay 240W 4000K 31200lm Dimmable 60 deg Beam Angle | ILHBC170 |
| Tough-Shell High Bay 240W 4000K 36000lm Dimmable 60 deg Beam Angle | ILHBC172 |

## Summary Performance criteria

### Minimum luminaire efficacies for white LED lighting units

| Category | Minimum luminaire efficacy (in luminaire lumens per circuit watt) |
|---|---|
| Amenity, accent and display lighting units | >= 75 |
| General interior lighting, using downlighting units (DLOR/LOR>=0.9) | >= 82 |
| General interior lighting using uplighting units (DLOR/LOR<0.1) | >= 100 |
| General interior lighting using combined up and down lighting units (DLOR/LOR>=0.1 and <0.9) | >= 100 - ( 18 x DLOR/LOR) |
| Exterior area lighting units | >= 82 |
| Exterior floodlighting units | >= 82 |

“>=” means “greater than or equal to”.

All products must:

- Have a luminaire efficacy (i.e. lighting efficacy) that is greater than, or equal to, the thresholds set out in Table 1 above, after 100 hours of continuous operation.
- Provide a light output (in lumens) after 6000 hours of continuous operation that is not less than 90% of their initial light output (in lumens).
- Have a colour rendering index that meets the requirements of Section 2.2 of Commission Regulation (EU) no 1194/2012 (implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to eco-design requirements for directional lamps, light emitting diode lamps and related equipment) Ra >= 80
- Have a power factor that is greater than, or equal to, 0.9 at all levels of product light output.

Authorised for and behalf of Integral LED

A. Gooding

Andrew Gooding

Technical and Compliance Manager

*Product data last updated on: Wednesday, September 5, 2018 - 11:44*



Product design and specification subject to change or modification without notice. Image for illustration only. E&OE