



Simkar's Reflect-A-Bay™ Gen2 updates our broad offering of industrial high bay products. Incorporating our unique spring latch, swing down, one piece reflector system, the RG2LED high bay is offered in 450W, delivering up to 45,500 lumens. Coupled with a wide array of options and accessories, RG2LED is the perfect choice for new installations and retrofits in manufacturing, warehouse, retail, and institutional applications.

- Spring-loaded latches secure LED Board tray/reflector and optional lens for swing-down access
- Energy efficient – up to 48% energy savings vs. HID
- Chain, pendant, cable, hook, and surface mounting options

HOUSING Die-formed heavy gauge steel housing with high-gloss baked white enamel finish over rust inhibiting phosphate coat. Die-formed steel end caps with center 7/8" KOs, and (2) 1/2" KOs, attaching via center interlocking tab into housing, secured by 2 screws. Smooth housing edges for ease of handling. Quick access plate located in center of housing.

OPTICS LED Board tray combines LEDs and reflectors; three reflector material options are available. Two distributions available: wide distribution (white reflector; standard) and narrow distribution (specular aluminum reflector, 89% reflectivity). 95% reflective specular aluminum reflector optional.

LEDS Thermal pad is used to back aluminum core LED boards. Screws attach LED boards to tray/reflector. Available in one wattage 450W and two distributions (wide and narrow); Output is: 45,490lm (**WR**), 5000K CCT (standard), >80 CRI. Also available in 4100K CCT. LEDs are LM80 tested. Operating life >80,000 hours (L70).

ELECTRICAL 120-277V LED power supply, power factor >90% with 0-10 dimming capability standard. Power supply output current is 2100mA and 3150mA. Power supply units (PSUs) are accessible from below. 450W model uses

- Wide and narrow distribution reflector options
- Optional wire guard and lenses provide safety and diffusion
- Smooth edges for ease of handling

4 PSUs. Multi-PSU fixtures are wired to allow for bi-level switching on 120/277V, consult factory for 480V. Operating temperature range -40°F (-40°C) to 104°F (40°C).

SENSORS RG2LED can be specified with PIR (Passive Infrared) occupancy sensors or daylight sensors. Title 24 compliant sensors available.

ACCESS / WIRING Center quick access plate on top of unit features 7/8" KO and allows access to PSU disconnect(s). Two 1/2" KOs and one 7/8" KO per end cap. LED Board tray and optional lens feature toolless, spring-loaded quick-release latches that allow reflector and optional lens to swing down independently to access PSU chamber.

MOUNTING Recommended mounting heights up to 50 feet. Pendant, slide box, chain, hook, and aircraft cable configurations available. May be surface mounted via slide box.

LISTINGS UL Listed damp location. DesignLights™ Consortium Qualified.

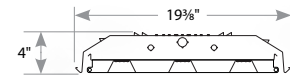
WARRANTY 5 year limited warranty. Contact factory for available extended warranties.

Project

Catalog Number

Type

Date



Reflect-A-Bay Gen2 Linear LED High Bay Configuration

| SERIES | REFLECTOR | WATTAGE* | COLOR TEMPERATURE | VOLTAGE | OPTIONS |
|--------|--|------------|--|--|---|
| RG2LED | WR = White (Standard) SR = Specular aluminum 89% reflectivity MR = Specular aluminum 95% reflectivity | 450 = 450W | 41 = 4100K CCT 50 = 5000K CCT | U1 = 120-277V 34 = 347V; contact factory 48 = 480V; contact factory | BP = Bulk Pack ELS = Emergency Backup (contact factory; max ambient temp 35°C) SENSORS (FACTORY WIRED) OS(x) = PIR Occupancy Sensor Specify # of drivers controlled: For 450W units: (1 / 2 / 3 / 4) 6' CORD AND PLUG CPT(x) 1 = 120V, (L5-15P) 2 = 277V, (L7-15P) 3 = 208V, (L6-15P) 4 = 240V, (L6-15P) 5 = 480V, (L8-20P) CP3 = Cord & Plug-120V Straight Blade 5-15P C6 = 6' Cord (Cord only) C10 = 10' Cord (Cord only) |

*Nominal. See performance table for actual power consumption.

| ACCESSORIES | MOUNTING ACCESSORIES |
|---|--|
| RG2C6 = Clear acrylic flat lens RG2F6 = Frosted acrylic flat lens RG2WG6 = Heavy duty wire guard Notes: 1. Wire guards can be installed in conjunction with swing-down lenses. 2. Operating max temperature 95°F (35°C) when used with lens. | CA24 = Chain hanger assembly: (2) 18" chains, (2) v-hooks, (2) s-hooks; 24" total drop CS24 = S-hook chain hanger assembly: (4) 18" chain & (4) s-hooks; 24" total drop RG2SBH = Center slide box with hook assembly RG2SBP = Center slide box for single pendant mount or surface mount SP(x) = Swivel pendant mount; white stem; specify length: (24" / 36" / 48" / 60" / 72") (Used with RG2SBP) PM2(X) = Twin pendant mount, (2) white stems (without canopies); specify length (24" / 36" / 48" / 60" / 72") HKSC = Hook & chain assembly; includes (4) 31.5" chains, mounting plate, and hook CAB(X)72 = Adjustable aircraft cables; specify "2" for (2) cables joined with Y hanger, or "4" for (4) individual 72" cables; includes toolless adjusters and mounting hardware |

Mounting Accessories



CA24
Chain hanger (2) assembly



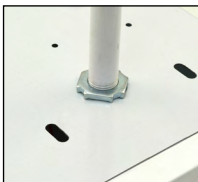
HKSC
Hook & chain assembly



RG2SBH
Center mount
slide box w/hook
assembly



CS24
"S" Hook (4) Chain
hanger assembly



PM2(x)
Twin pendant mount
SEE ORDERING INFO

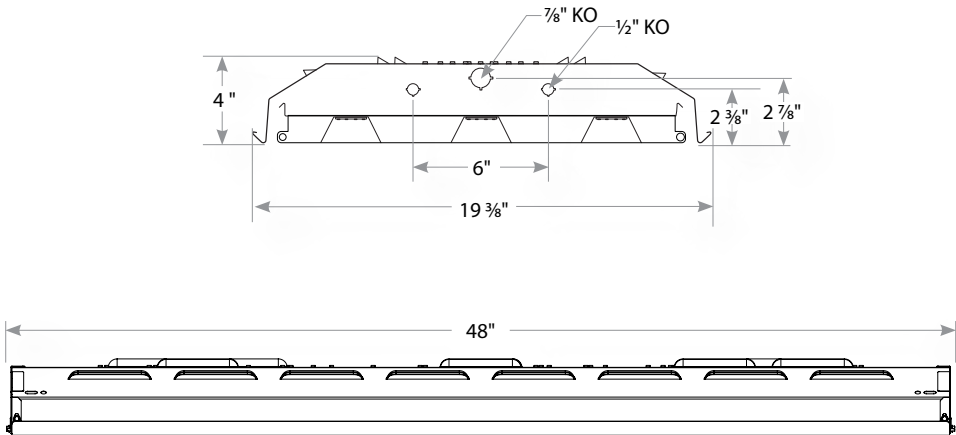


RG2SBP
Center mount slide
box for single
pendant or surface
mount
SEE ORDERING INFO



CAB(x)72
Adjustable aircraft cables
SEE ORDERING INFO

Dimensions



Performance

| Model | Input Power | Efficacy (lm/W) | Light Output* | Mounting Ht.** | Equivalent** | Operating Temperature*** |
|-----------------|-------------|-----------------|---------------|----------------|-----------------|-------------------------------|
| RG2LEDWR45041U1 | 456W | 100 | 45,490 lm | Up to 50' | Up to 750W PSMH | -40°F (-40°C) to 104°F (40°C) |

* Delivered lumens
** Consult a lighting engineer to meet specific requirements
*** Operating max temperature 85°F (30°C) when used with lens.

Photometric DataLuminaire Data – 450W WR Reflector

| | |
|-------------------|------------------------------|
| Catalog Number | RG2LEDWR45041U1 |
| Lab Test# | UL1119567 |
| (#) Power Supply | (2) 2100mA and (2) 3150mA |
| (#) Boards | (6) LED boards, 84 LEDs each |
| Color Temperature | 4100K |
| Input Watts | 455.9 |
| Delivered Lumens | 45,490 |
| Operating Life | 80,000 Hours (L70) |
| Fixture Efficacy | 99.8 lm/W |

Utilization of Lumens

| CC Wall | 80 | | | | 50 | | | 30 | | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| RCR | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| 0 | 54150 | 54150 | 54150 | 54150 | 50538 | 50538 | 50538 | 48387 | 48387 | 48387 |
| 1 | 49516 | 47360 | 45429 | 43688 | 44391 | 42942 | 41614 | 42612 | 41431 | 40338 |
| 2 | 44960 | 41191 | 38072 | 35450 | 38707 | 36291 | 34203 | 37213 | 35194 | 33420 |
| 3 | 40911 | 36071 | 32326 | 29342 | 33984 | 31005 | 28552 | 32723 | 30183 | 28048 |
| 4 | 37391 | 31875 | 27836 | 24751 | 30115 | 26830 | 24228 | 29047 | 26199 | 23892 |
| 5 | 34333 | 28414 | 24277 | 21224 | 26925 | 23495 | 20866 | 26019 | 23002 | 20633 |
| 6 | 31663 | 25529 | 21413 | 18459 | 24264 | 20793 | 18204 | 23491 | 20399 | 18037 |
| 7 | 29325 | 23105 | 19074 | 16249 | 22024 | 18574 | 16061 | 21361 | 18255 | 15939 |
| 8 | 27273 | 21052 | 17140 | 14453 | 20124 | 16732 | 14312 | 19552 | 16471 | 14219 |
| 9 | 25461 | 19297 | 15522 | 12972 | 18496 | 15184 | 12864 | 18000 | 14968 | 12792 |
| 10 | 23856 | 17786 | 14154 | 11736 | 17091 | 13872 | 11651 | 16659 | 13691 | 11595 |

Zonal cavity method Effective floor reflectance = 20%

Zonal Lumens and Percentages

| ZONE | LUMENS | % LUMINAIRE |
|--------|--------|-------------|
| 0-40 | 19877 | 43.7 |
| 0-60 | 35886 | 78.8 |
| 0-90 | 45481 | 100.0 |
| 90-180 | 5 | 0.0 |

Average Luminance (Candela/M²)

| ANGLE | 0-DEG | 45-DEG | 90-DEG |
|-------|-------|--------|--------|
| 0 | 27350 | 27350 | 27350 |
| 45 | 27600 | 27310 | 27210 |
| 55 | 27040 | 26840 | 26720 |
| 65 | 25600 | 25580 | 25450 |
| 75 | 21580 | 22470 | 16230 |
| 85 | 11700 | 8266 | 7004 |

SC: 0-180: 1.30

90-270: 1.30

Candela Plot