

Product Description

The LR24 SKY is a revolutionary architectural lay-in designed for applications that require high ambient light levels including offices, schools, and hospitals. It utilizes Cree LLS technology that generates white light with LEDs in a new way and is the first to combine high efficacy, beautiful color, and affordability. The use of this technology releases the design constraints of traditional lay-in's and enables a fresh approach to the architectural appearance of the light. It also allows an optimal distribution of light that delivers high light levels to horizontal surfaces balanced with an ideal amount of light to vertical surfaces resulting in an effective, attractive, and comfortable environment.

Performance Summary

(Preliminary data)

The LR24 was designed to deliver optimal amount of light with typical luminaire spacing.

All Versions:

- 92 CRI
- 3500K
- Dimmable to 5% with 0-10VDC control

LR24 38SKY

- 3800 lumens – 40FC maintained with typical 8'x10' spacing*
- Nominal input power = 58 Watts

LR24 32SKY

- 3200 lumens – 40FC maintained with typical 8'x8' spacing*
- Nominal input power = 48 Watts

*Note: Light levels based on common room/hall configurations will vary based upon actual conditions

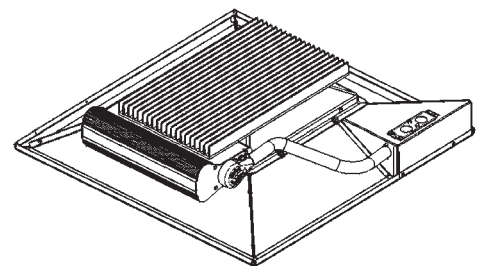
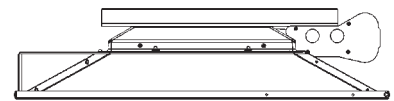
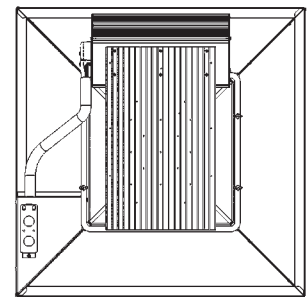
Ordering Information

(Estimated availability = Fall 2008)

- LR24-38SKY35 - 120V-277V, 3800 lumens, 3500K
- LR24-32SKY35 - 120V-277V, 3200 lumens, 3500K
- LR24-20SKY35 - 120V-277V, 2000 lumens, 3500K



LR24 SKY



Specifications and Features

Light Emitting Diodes

- Proprietary technology delivers high quality white light by mixing the light from yellow and red LEDs
- Designed for 50,000 hours of useful life
- Active color management system maintains color consistency

Construction

- Cold rolled steel lower reflector for installation in nominal 2' x 2' ceiling openings.
- Field replaceable light engine integrates LEDs, driver, power supply, thermal management, and optical mixing components. Access to light engine from adjoining ceiling tiles.
- Integrated thermal management system conducts heat away from LEDs and transfers it to the surrounding environment. LED's stay below specified maximum temperatures in commercial installations.
- Height = 5-3/4"

Optical System

- Proprietary optical system utilizes a unique combination of reflective and refractive optical components to achieve a uniform, comfortable appearance. Pixelation and direct view of uncomfortable LEDs is eliminated.
- Lower reflector finished with textured high reflectance white polyester powder to create a comfortable visual transition from the diffuser to the ceiling plane.
- Mechanical shielding of diffuser delivers a subtle glowing appearance at high angles for visual integration with the ceiling plane.
- Distribution of light balances the delivery high light levels to horizontal surfaces with an ideal amount of light to vertical surfaces.

Electrical System

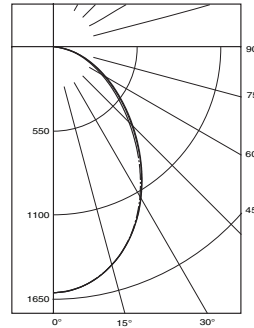
- Integral, high efficiency driver and power supply. Power factor > 0.95 Input voltage = 120V, 60Hz
- Dimmable to 20% with some incandescent dimmers (reference www.creeLLS.com for recommended dimmers)

Regulatory

- Tested and certified to UL standards. Suitable for damp locations.

Photometry

LR24 32SKY35 – ITL Test 59648



Intensity (Candlepower) Summary

ANGLE	CP°	CP45°
0°	1600	1600
5°	1582	1584
15°	1467	1469
25°	1258	1263
35°	981	996
45°	695	721
55°	459	482
65°	276	294
75°	131	142
85°	2	5
90°	0	0

Zonal Lumen Summary

ZONE	LUMENS	%LAMP	%FIX
0° - 30°	1145	53.5	53.5
0° - 40°	1767	76.9	76.9
0° - 60°	2750	98.8	98.8
0° - 90°	3200	100.00	100.00

NOTE: For calculations with 38SKY35 adjust lumens or candlepower by the ratio of the lumen output.