



ULTRA CONSTANT
DISCHARGE LAMP



WORLD'S FIRST!

*New light source,
Ultra power-saving UCD lamp*

PRODUCT FEATURES

- Highest lamp efficiency (108 Lm/W)
- Excellent energy-saving (overall luminous efficiency 94 Lm/W)
- Near daylight colour rendering (80 Ra)
- Instant turn-on and hot re-strike
- Dual-lamp for redundant operation
- World's first intelligent digital AC ballast for UCD lamp integral in all our luminaire range
- 20,000 hours lamp life

ECOLOGICAL AND ENVIRONMENTAL FEATURES

- Eco-friendly with a fraction of mercury (0.0054 mg)
- UV blocking lamp for protection of UV/bad rays
- Wider operating temperature range (-50°C - 85°C)











LIGHTING
TECHNOLOGIES
AUSTRALASIA
UCD... A Revolution in Lighting

KAIXEN
LED LIGHT SYSTEM



ULTRA CONSTANT DISCHARGE LAMP

PERFORMANCE COMPARISON

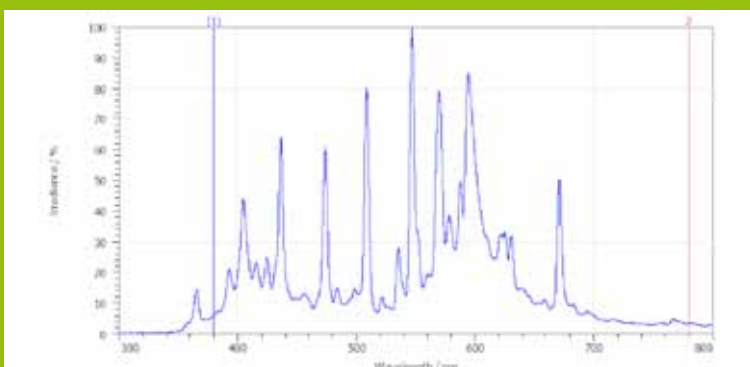
Lamp type	Lamp	Ballast	Luminous efficacy (lm/W)	Colour rendering (Ra)	Lifetime (hours)	Operating temperature (°C)	Turn-on speed	Hazardous substance	Indoor application	Outdoor application
Flores-cent lamp			37	60	3000	-20 - 50	Instant-on	Heavy metals (to be discontinued from 2013)	OK	NG
Conven-tional dis-charge lamp			68	65	8000	-20 - 50	5 - 10 minutes	Mercury 30 mg	NG	OK (But low efficiency)
Induc-tion lamp (non-elec-trode)			70	83	30000	-20 - 50	Instant-on	Mercury 60 mg	OK	NG
LED lamp			60	70	30000 (outdoor)	-20 - 40	Instant-on	Eco-friendly	OK	NG
UCD lamp			108	90	20000	-50 - 85	Instant-on	Eco-friendly	OK	OK

ENERGY SAVING EFFECT

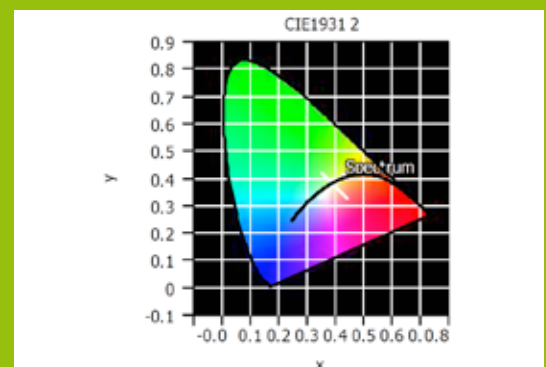
(UCD vs High Pressure Sodium, Mercury Vapour and Metal Halide Lamps)

HPS, MV or MH lamps (Watts)	UCD lamp, suggested replacement (Watts)	Saving effect by replacement
HPS 400 W	UCD 120 W	70% saving
HPS 250 W	UCD 60 W	76% saving
HPS 150 W	UCD 40 W	73% saving

UCD SPECTRUM AND CIE COORDINATE



Continuous spectrum in visible light wavelength (400~700nm), showing 7 rainbow colors mixture



Positioning at ideal white color coordinate



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FIELD PERFORMANCE COMPARISON

HPS (250W + 150W sidewalk)
(Total 400W)



UCD (120W)



Same site comparison post UCD lamp retrofit – Jeonju-city (Korea)

MH (400W)



UCD (100W)



Same site comparison post UCD lamp retrofit – California (USA)

UCD (120W)

MH (250W)

Compare road surface visibility



Same site comparison – Incheon (Korea)

UCD (60W)

LED (132W)

Compare road surface visibility



Same site comparison – Iksan-city (Korea)



ULTRA CONSTANT DISCHARGE LAMP



UCD LUMINAIRES RANGE



STREET LIGHT
STA - 60W / 80W / 120W
Casing Dimension:
880 x 354 x 260 x ø65 (mm)
Weight : 11.5 kg



SECURITY/STREET LIGHT
SCA - 40W / 60W
Casing Dimension:
639 x 269 x 170 x ø50 (mm)
Weight : 5.9 kg



WALL MOUNT FLOOD LIGHT
FDA - 40W / 60W
Casing Dimension:
420 x 300 x 130 (mm)
Weight : 3.8 kg



CROSSWALK LIGHT
CWA - 40W / 60W
Casing Dimension:
420 x 300 x 220 (mm)
Weight : 4.8 kg



SMALL HI-BAY LIGHT
SPCA - 40W / 60W
Casing Dimension:
278 x 251 (mm)
Weight : 3.0 kg



WALL MOUNT LIGHT
SPDA - 60W
Casing Dimension:
350 (mm), ø370 (mm)
Weight : 3.5 kg



SPOT LIGHT
SPA - 60W
Casing Dimension:
278 x 251 (mm)
Weight : 3.6 kg



TUNNEL LIGHT
TNB - 60W / 80W / 120W
Casing Dimension:
450 x 320 x 180 (mm)
Weight : 3.6 kg



OFFICE & ROOM LIGHT
RMA - 80W / 120W
Casing Dimension:
540 x 540 x 100 (mm)
Weight : 6 kg



SECURITY/STREET LIGHT
SCC - 40W / 60W
Casing Dimension:
540 x 240 x 170 x ø50 (mm)
Weight : 3.0 kg



STREET LIGHT
STB - 60W / 80W / 120W
Casing Dimension:
712 x 334 x 277 x ø73 (mm)
Weight : 8 kg



SECURITY/STREET LIGHT
SCB - 40W / 60W
Casing Dimension:
540 x 240 x 170 x ø50 (mm)
Weight : 3.0 Kg



WALL MOUNT FLOOD LIGHT
FDC - 120W
Casing Dimension:
510 x 410 x 150 (mm)
Weight : 5.2 kg



CROSSWALK LIGHT
CWB - 120W
Casing Dimension:
510 x 410 x 170 (mm)
Weight : 7 kg



LARGE HI-BAY LIGHT
SPCB - 80W / 120W
Casing Dimension:
590 x 515 (mm)
Weight : 9.0 kg



WALL MOUNT LIGHT
SPDB - 120W
Casing Dimension:
590 (mm), ø515 (mm)
Weight : 12 kg



POLE TOP LIGHT
GD - 60W / 80W / 120W
Casing Dimension:
440 x 705, ø76 (mm)
Weight : 8.5 kg



EXPLOSION-PROOF LIGHT
EXA - 60W / 120W
Casing Dimension:
648 x 480 x 287 (mm)
Weight : 13 kg



OFFICE & ROOM LIGHT
RMB - 80W / 120W
Casing Dimension:
700 x 430 x 100 (mm)
Weight : 10.6 kg



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