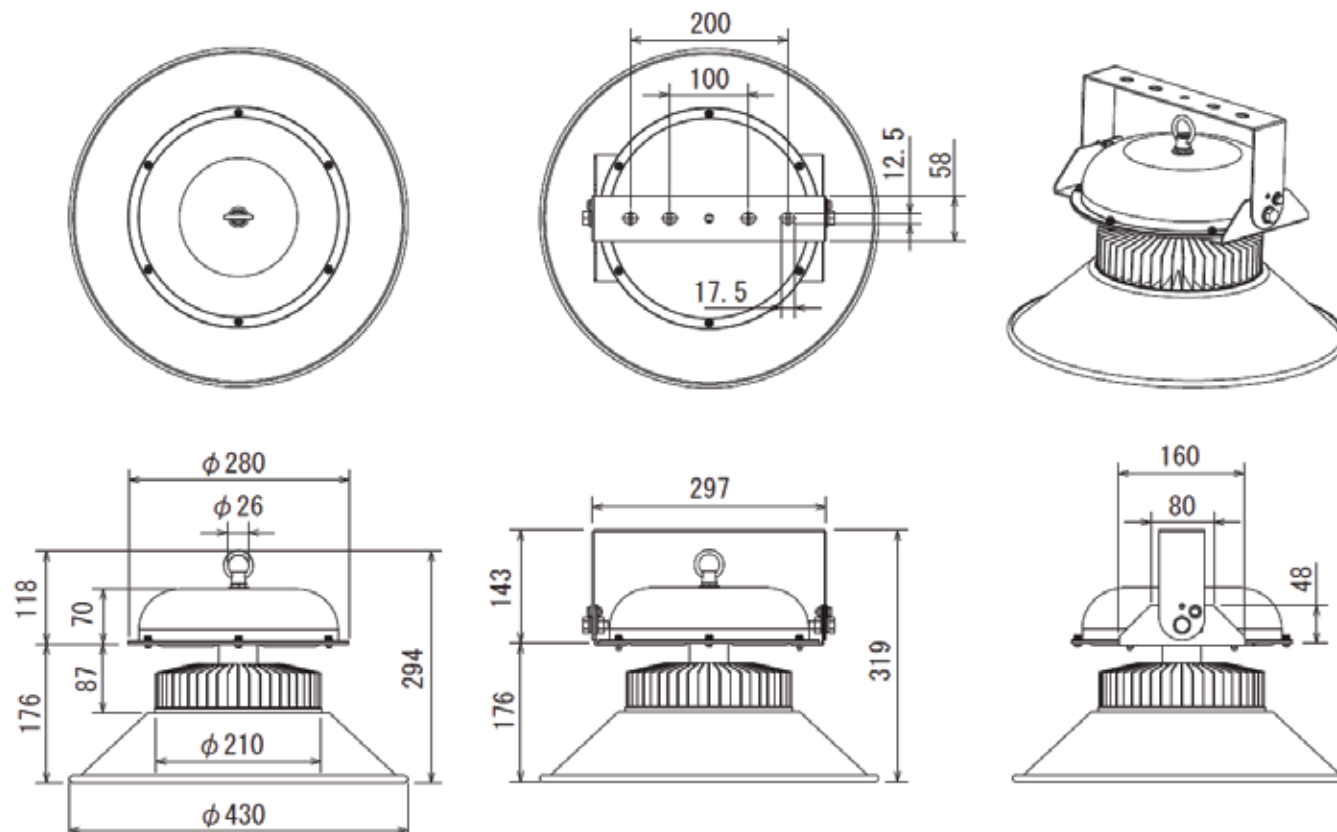


Light Emitting Diode Technology "M²D"

High output LED light & Power control system

GEAR -4100 (H)



Compare the differences between LED and conventional lamps



LED



Metal Halide



Mercury Lamp

	LED	Metal Halide	Mercury Lamp
Power	98Watt	300Watt	400Watt
Start up	Instant	Slow	Slow
CRI	70Ra	70Ra	50Ra
Lifespan	60.000Hr	15.000Hr	15.000Hr

SPECIFICATION

Input Voltage	AC90~ 265V	Luminous Flux (lm)	13,550lm ^{**}
Frequency	50Hz/60Hz	Color Temperature (K)	5000K
Powerconsumption	98W	Color-Rendering Index(Ra)	> 70
PowerFactor	> 0.98/100V > 0.95/230V	OperationEnvironment Temperature	-45~ +50℃
Power efficiency %	> 93.5%	IP Protection	IP65 conforming
LED Operation Voltage	51.3V	Using Time	60000hour over (Ta=40℃)
LED Current	1.79A (FULL SPEC 2.5A)	Weight	3.7Kg
LED Efficiency	138lm/W		

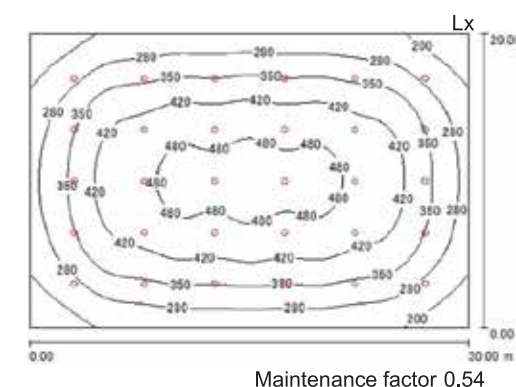
PERFORMANCE COMPARISON

Mercury lamp 400W type

Targets Illuminance 408Lx

GEAR -4100 (H) LED Light

Horizontal Illuminance



Maintenance factor 0.54

Illuminance Average
Mercury lamp number 30dev.

Power consumption
Total power consumption 12,000W

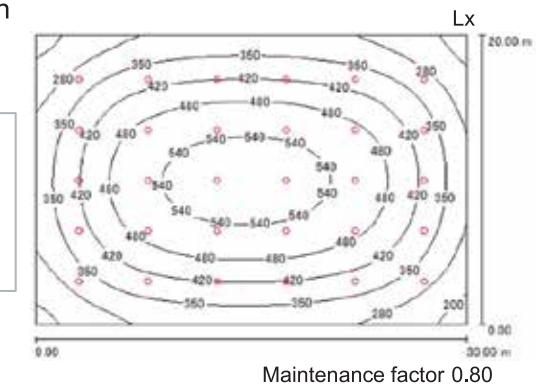
Performance comparison

Setting condition
Mounting Height 8m
Working Height 0m
Reflectance Ceiling 30%
Wall 30%
Floor 10%

Illuminance UP

76% DOWN

Horizontal Illuminance



Maintenance factor 0.80

Illuminance Average
GEAR4100(H) number 30dev.

Power consumption
Total power consumption 2,940W

Illumination of the test product

Test height (M)	Illuminance (lux)		
	Center point	Average Illuminance	Area lighting
1	7600	4936	Ø2M
2	1900	1234	Ø4M
3	844	548	Ø6M
4	475	308	Ø8M
5	304	197	Ø10M
6	211	137	Ø12M
7	155	100	Ø14M
8	118	77	Ø16M
9	94	60	Ø18M
10	76	49	Ø20M

