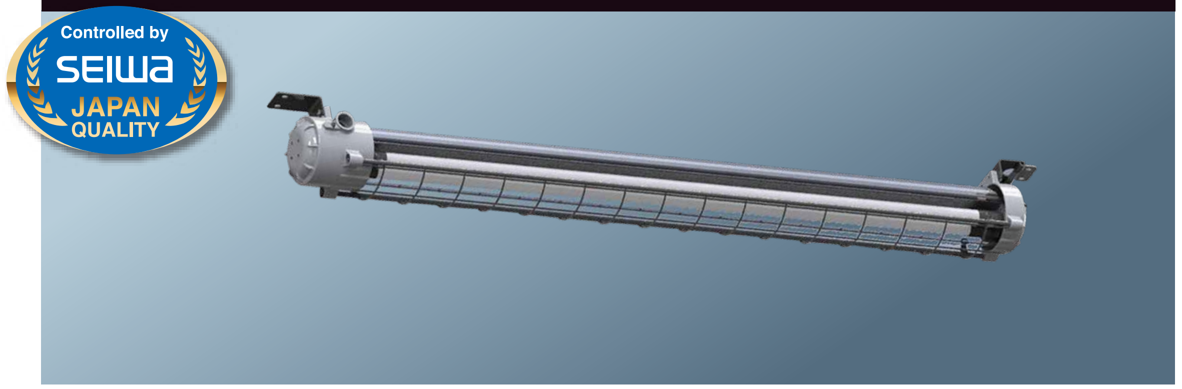
SEIWA

Explosion Proof Type LED Lighting Fittings
Dust Ignition proof Type LED Lighting Fittings

WLZAA



Hazardous Area Zone1/2
Hazardous Area Zone21/22
Degree of Protection IP 67
Type of Protection ExdⅡB+H2T6T5(T4)
Lamp Life 50,000 hours

(WLZAA14021) (WLZAA14021)
(WLZAA14021) TIS 1955-2551 (WLZAA14021)

- Exchangeable LED Lamp (PHILIPS)
- Certificate: IECEx, ATEX
- Application: Zone 1 and Zone 2, Zone 21 and Zone 22.
- Able to use in H_2 generated area
- Corrosion proof slim body

■Line-up

Mounting Type	15.5Wx2 (GB)	14Wx2 (GB)	14Wx2 (IECEx)
Direct	WLZAA15021-CA (Direct type)	WLZAA14021-CA (Direct type)	WLZAA14021 (Direct type)
Ceiling	WLZAA15021-CA (Ceiling type)	WLZAA14021-CA (Ceiling type)	WLZAA14021 (Ceiling type)
Pipe Pendant	WLZAA15021-CA (Pipe Pendant type)	WLZAA14021-CA (Pipe Pendant type)	WLZAA14021 (Pipe Pendant type)
Bracket	WLZAA15021-CA (Bracket type)	WLZAA14021-CA (Bracket type)	WLZAA14021 (Bracket type)
Stand	WLZAA15021-CA (Stand type)	WLZAA14021-CA (Stand type)	WLZAA14021 (Stand type)

■Model number constitution

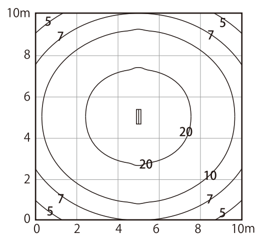
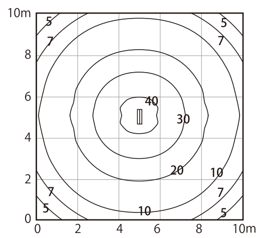
WLZAA 14021 - CA

Wattage
15021 : 15.5W×2
14021 : 14W×2

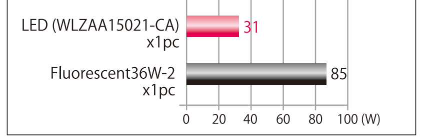
GB Standard Model

■Comparison

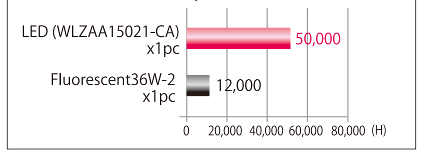
【1 Unit Comparison】 : Fluorescent36W-2x1pc / LED31W (WLZAA15021-CA)x1pc

Subject	Fluorescent36W-2 x1pc		LED (WLZAA15021-CA) x1pc
Distribution Curve			
Quantity	1 pc	Equivalent	1 pc
Average Illuminance	13.6 Lx	28% Up	17.4 Lx
Power Consumption	85 W	62% Down	31 W
Lamp Life	12,000 h	4.2 Times	50,000 h

Power Consumption (W)

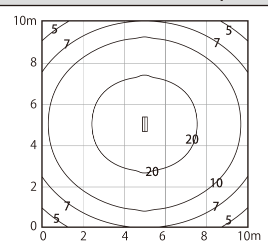
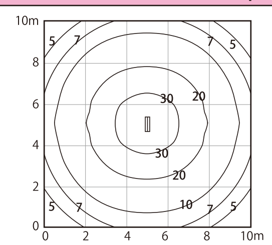


Lamp Life (H)

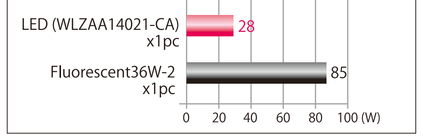


【Calculation Condition】
Lighting Quantity : 1pc Lighting Height : 5m
Area : 10mx10m Reflectance : Ceiling50%,Wall30%,Floor10%

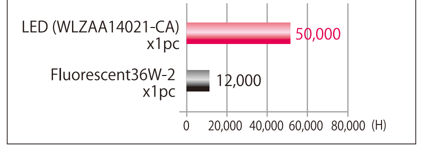
【1 Unit Comparison】 : Fluorescent36W-2x1pc / LED28W (WLZAA14021-CA)x1pc

Subject	Fluorescent36W-2 x1pc		LED (WLZAA14021-CA) x1pc
Distribution Curve			
Quantity	1 pc	Equivalent	1 pc
Average Illuminance	13.6 Lx	7% Up	14.6 Lx
Power Consumption	85 W	67% Down	28 W
Lamp Life	12,000 h	4.2 Times	50,000 h

Power Consumption (W)



Lamp Life (H)

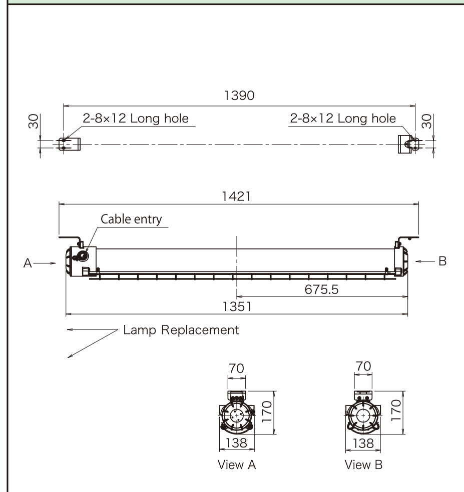


【Calculation Condition】
Lighting Quantity : 1pc Lighting Height : 5m
Area : 10mx10m Reflectance : Ceiling50%,Wall30%,Floor10%

■Specify for Order
1) Model no. 2) Cable entry

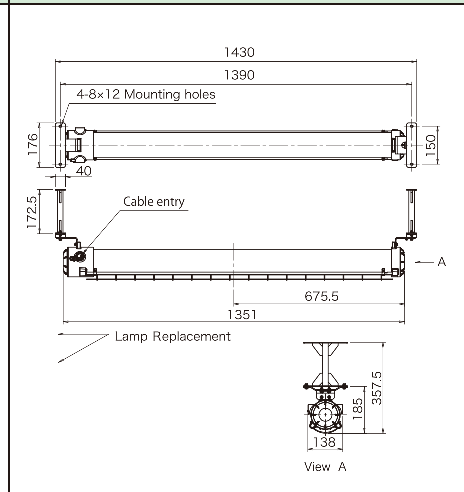
■Dimensions <WLZAA15021-CA/14021-CA/14021>

Direct



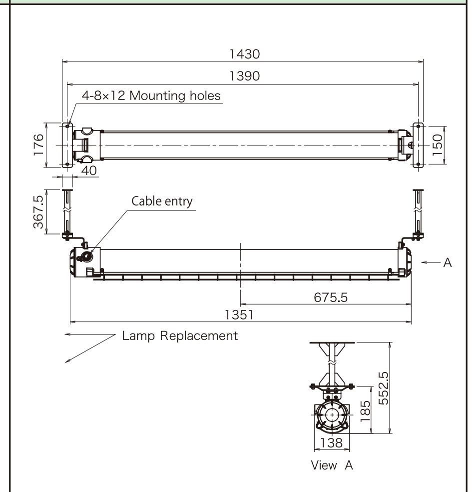
■ Cable entry : 2 ways with 1 plugs

Ceiling



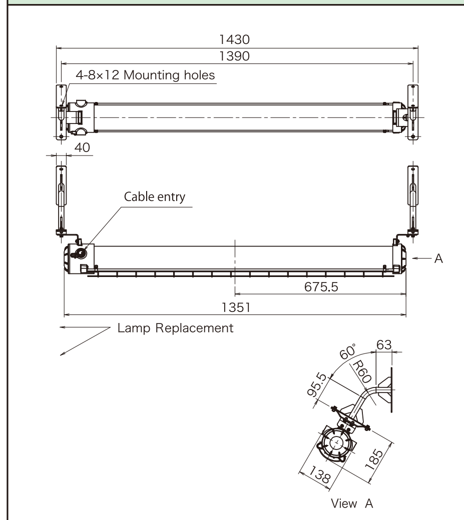
■ Cable entry : 2 ways with 1 plugs

Pipe Pendant



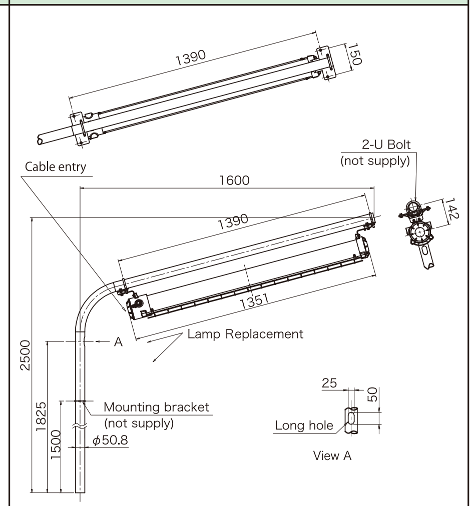
■ Cable entry : 2 ways with 1 plugs

Bracket



■ Cable entry : 2 ways with 1 plugs

Stand



■ Applicable pole outer diameter: Φ19.5~Φ63.5
■ Cable entry : 2 ways with 1 plugs

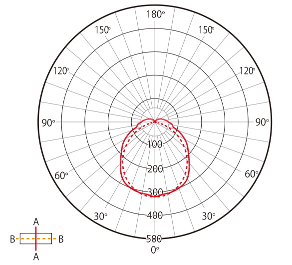
■Spare LED Lamp

Lamp Luminaire Flux
15.5W : PHILIPS HO15.5W865 T8
14W : PHILIPS HO14W865 T8

※When you wire it, the gaining over with the cable ground is necessary.

WLZAA1402-CA

■Light Distribution (Unit: cd/1,000 ℓm)



■Luminance Intensity Table

Vertical Angle	Luminance	Vertical Angle	Luminance
0	319.8	100	42.1
10	312.6	110	32.8
20	297.5	120	24.6
30	259.3	130	18.3
40	208.2	140	12.8
50	176.2	150	4.6
60	141.0	160	3.5
70	91.0	170	0.1
80	76.9	180	0.2
90	55.5		

■Utilization Factor Table

Light Source : LED
Luminaire Flux : 3,550 ℓm
Luminaire Efficiency : 100%

Reflectance Ceiling	70%			50%			30%		0%
Wall	50%	30%	10%	50%	30%	10%	30%	10%	0%
Floor	10%								
Room Index (R1)	Utilization Factor								
0.60	0.418	0.346	0.296	0.401	0.336	0.290	0.326	0.284	0.259
0.80	0.509	0.435	0.382	0.487	0.422	0.373	0.409	0.365	0.336
1.00	0.585	0.515	0.461	0.560	0.498	0.451	0.483	0.440	0.409
1.25	0.648	0.580	0.527	0.619	0.561	0.514	0.542	0.501	0.467
1.50	0.695	0.632	0.580	0.665	0.610	0.565	0.589	0.550	0.514
2.00	0.758	0.702	0.654	0.725	0.677	0.635	0.652	0.617	0.577
2.50	0.801	0.750	0.706	0.766	0.723	0.685	0.696	0.664	0.622
3.00	0.830	0.784	0.744	0.794	0.755	0.720	0.727	0.697	0.654
4.00	0.870	0.832	0.797	0.833	0.800	0.770	0.770	0.745	0.699
5.00	0.893	0.859	0.828	0.854	0.826	0.799	0.794	0.772	0.724
10.00	0.951	0.930	0.911	0.911	0.894	0.878	0.859	0.846	0.795

■Specifications

	GB		IECEx
	WLZAA15021-CA	WLZAA14021-CA	WLZAA14021
Rated Voltage	220～242V AC		
Frequency	50/60 Hz		
Power Consumption ※1	31W	28W	
Luminaire Flux	4,300 ℓm	3,550 ℓm	
Light Source	White LED		
Correlated Color Temperature	6,500K		
Luminaire Life	more than 50,000 hours (Ta 30℃)		
General Color Rendering Index	Ra 83		
Degree of Protection	IP 67		
Beam Angle	115°		
Ambient Temperature	-20 ～ +40℃	-20 ～ +55℃	
Weight	Approx. 11.6kg		

	GB		IECEx
	WLZAA15021-CA	WLZAA14021-CA	WLZAA14021
Body Material	ADC 12		
Paint Specification	Baked acrylic paint		
Cable entry	NPT3/4※2, NPT1/2, M25, M20, G3/4, G1/2		
Type of Protection	GB: Exde ⅡB+H2T6 Gb DIP A20 TA, T5		IECEx: Ex db op is ⅡB+H2 T6 Gb Ex op istb ⅡC T85℃ Db ATEX: Ⅱ2 G Ex db op is ⅡB+H2 T6 Gb Ⅱ2 D Ex op is tb ⅡC T85℃ Db

※1 at AC200V

※2 Standard

WLZAA Hazardous Area (World Model)