GEN-TECH
Eco - LED professional

Ceiling Panel Lighting Data Sheet

Mode : MT-PL40W-101

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CONTENTS

1. Applications

-Area: Indoor use only
-Purpose: Office Lighting (Meeting Room/Conference Room Lighting. Library /Classroom Lighting/ Factory Lighting)

2. Feature

※Energy Cost Saving

The Slim LED ceiling light is a drop replaceable solution to existing standard ceiling light with 60 x 60cm fluorescent tubes. But it saves 70% energy with high efficiency LED lighting design.

※Maintenance Cost Saving

The Slim LED ceiling light provides 50,000 hours of operation life. It is five times life of standard fluorescent tube. User can save more than 80% maintenance cost in long operation application.

※Comfort Vision

The Slim LED ceiling light provides homogenous light source, no hot spot, and no stacking shadow. And it also provides saturated color rendering which gives user similar vision under the sun. It gives human eyes the most comfortable vision.

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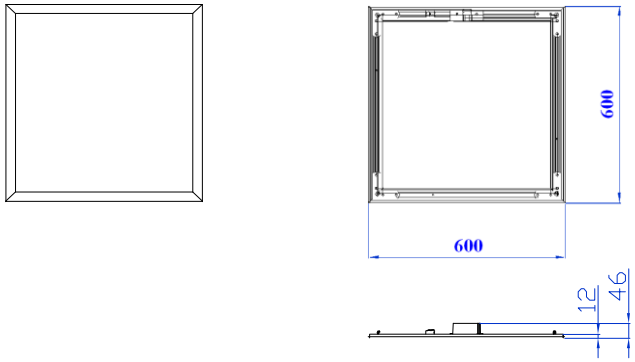
3. Specification

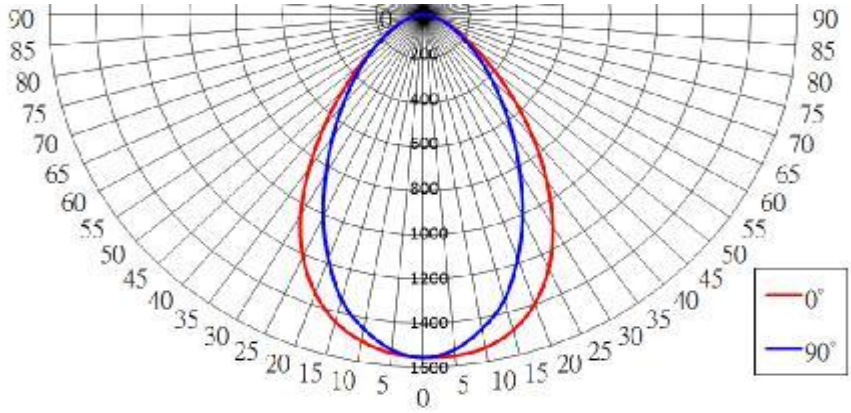
GENERAL CHARACTERISTICS			
Case Material	Aluminum		
Intensity Degradation 90% @ 25°C	10,000 hrs		
Intensity Degradation 70% @ 25°C	35,000 hrs		
Operation Temperature	-40~35°C		
OPTICAL CHARACTERISTICS			
Total LED Flux	3000lm(TYP.)	3600lm(TYP.)	
Optical Efficiency	≥80lm/w	≥80 lm/w	
Color Temperature	3000K	6000K	
IIIuminance @ 1m	1250 lux	1550 lux	
Color Rendering Index (CRI)	>80 (TYP.)		
Uniformity of Lighting Surface	>75%		
ELECTRICAL CHARACTERISTICS			
Input Power	100-240 VAC / 50-60Hz		
Power consumption	40W		
Power Efficiency	86%		
Power Factor	>0.9		
MECHANICAL CHARACTERISTICS			
Light Module Dimension	600x600x10 mm		
Light Emitting Area	550x550mm		
Total Height	46mm		

Outline Dimension:



4. Optical Performance

POLAR CANDELA DISTRIBUTION PLOT



CANDLEPOWER DISTRIBUTION

VERTICAL ANGLE	HORIZONTAL ANGLE 0	45	90	ZONAL LUMENS
0	1556	1556	1556	
5	1543	1534	1526	145.3
15	1444	1385	1341	393.1
25	1212	1069	1009	516.9
35	843	700	670	485.2
45	480	409	417	362.0
55	245	226	244	231.8
65	131	127	135	139.3
75	69	65	68	77.0
85	23	19	16	26.1
90	4	4	0	

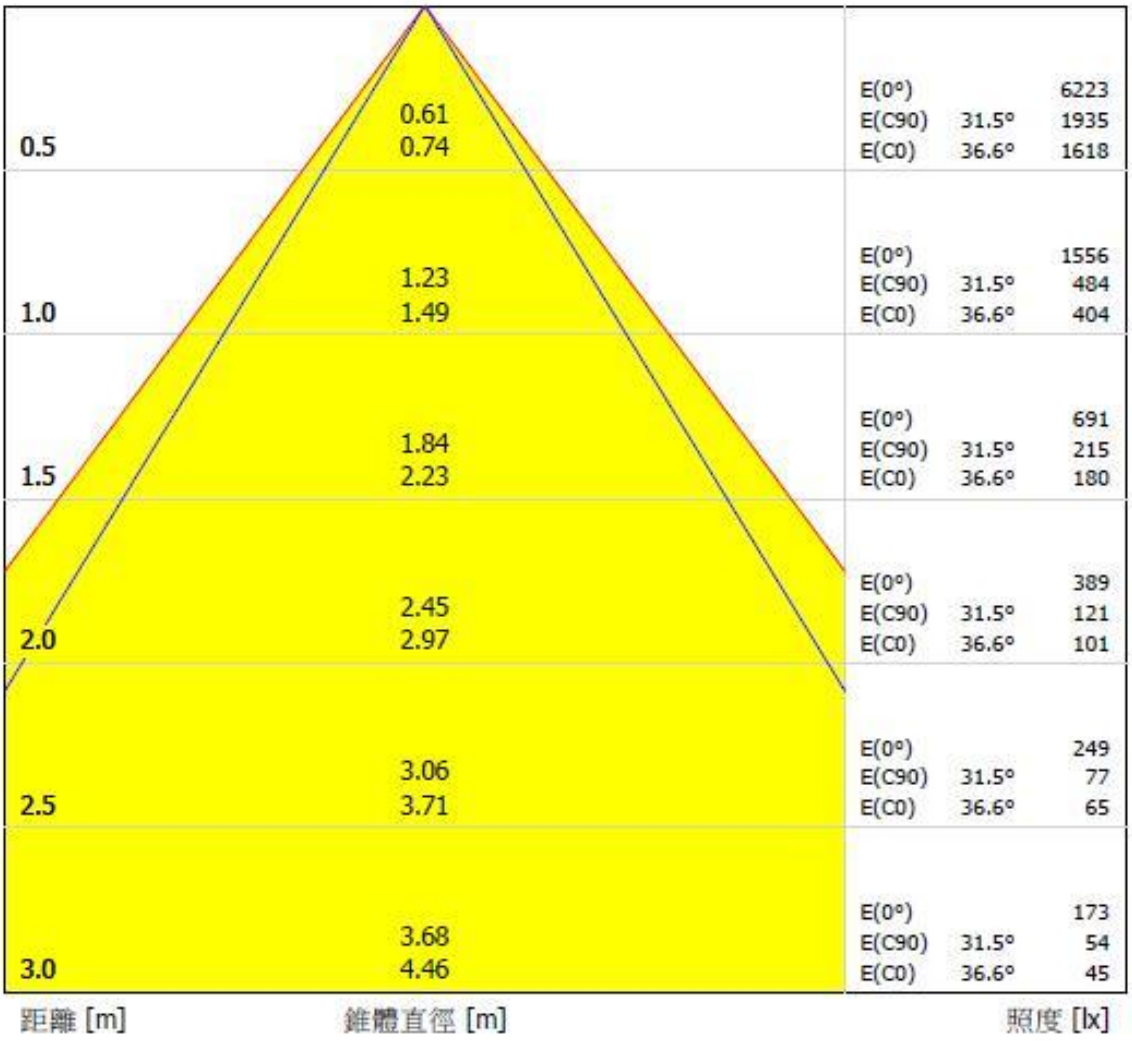
LUMEN SUMMARY

ZONE	LUMENS	%LAMP	%FIXTURE
0-30	1055.3		44.4%
0-40	1540.5		64.8%
0-60	2134.4		89.8%
0-90	2376.7		100.0%
60-90	242.3		10.2%
90-180	0.0		0.0%
0-180	2376.7		100.0%

TOTAL LUMINAIRE

SPACING CRITERIA: 0°= 1.1 90°= 0.9

ILLUMINANCE-CONE OF LIGHT



BEAM ANGLE:		C0-C180:	97.8°
BEAM ANGLE:		C90-C270:	88°

5. Safety Warning

a. The luminaire is operated at AC voltage (110/ 220V).
b. The luminaire must be protected and preserved by the original package, do not press and throw it strongly.
c. The luminaire should not be fallen down; otherwise the luminaire will be damaged.
d. Do not connect the luminaire to VAC/ VDC exceeding 240V, otherwise the driver will be damaged.
e. Do not expose the luminaire to the high temperature and high humidity environment; use it indoor.

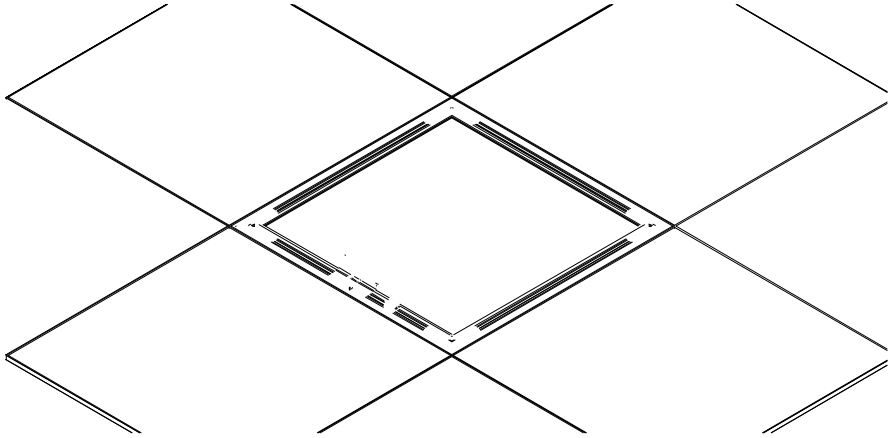
f. Keeping the film clean, otherwise clean it by soft wiper with ethanol.
g. This luminaire is not a water proof product, use it in indoor only.
h. Beware of the sharp edge and corner of the luminaire to prevent injury.
i. Installing firmly to ensure the luminaire will not fall down to hurt people.
j. Do not modify the component or disassembly the luminaire.

6. Installation Information

Luminaire installation:

a. Ensuring the electricity has been turned on.
b. The luminaire can be put on light steel frame.

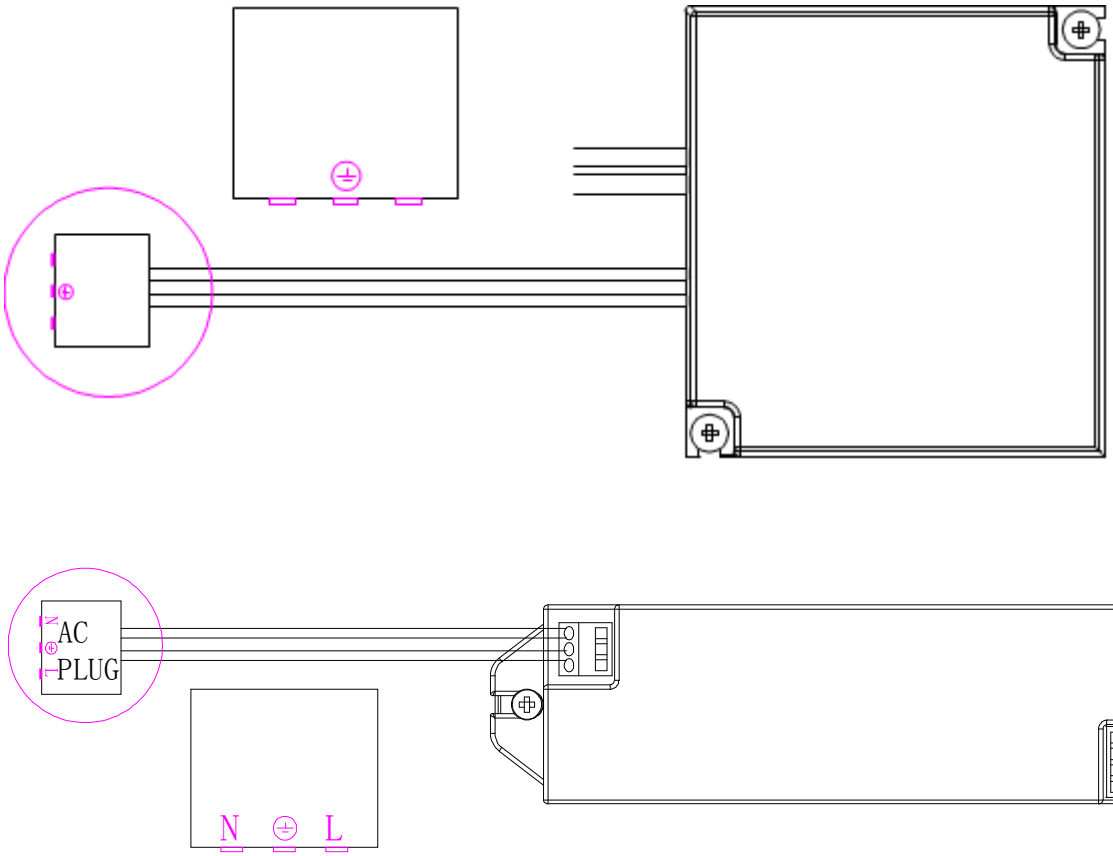
The installation types are as followings:



c. Connect the AC Power

Power Installation:

Please insert the wire into either L1 or L2 of the white connector, and insert another wire into either N1 or N2, then insert the ground wire into G.



7. Simple Malfunction Elimination

Please turn off the power before malfunction inspection.

Question	Possible Cause	Solution
The luminaire cannot connect with the adaptor	The white connector is connected in wrong side	Reverse the connection side
	The white connector is broken	Contact us for repairment
The luminaire does not work	The power is not turned on	Inspect whether the power has been turned on
	Wrong input voltage	Inspect whether the input voltage is between 100 ~240 VAC
	Does not use the specific adaptor	Inspect whether the adaptor is the specific one for the luminaire
	The connector and wires are not connected well	Inspect whether the connector is connected well with wires

	The adaptor is broken	Please contact our customer service division
	The luminaire noumenon is broken	Please contact our customer service division
The luminaire appears the partly dark shadow	LED is malfunctioned or its life expectancy is end	Please contact our customer service division