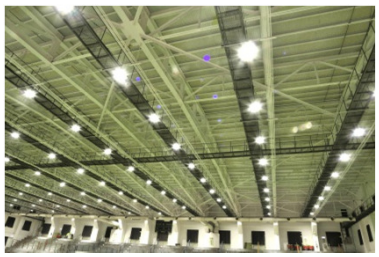
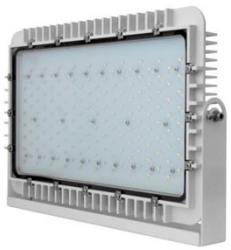


LON-ECO

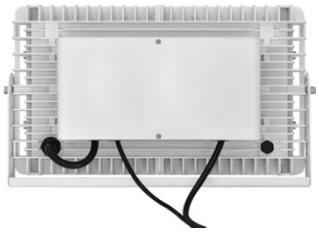
Industrial LED Hi-bay/ Flood light / Spot light

Standard Series	45W/60W/85W/105W/135W/150W/210W/270W/300W
Professional Series	200W/220W/250W/280W/420W/560W
Advanced Series	220W/250W/280W/420W/560W

-Smart Control Enabled-



DESIGNLIGHTS CONSORTIUM · lighting facts LED Product Partner · UL · CE · RoHS COMPLIANT · TÜV · ENEC

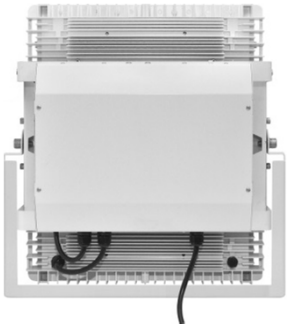


LON-ECO Standard
Compact Series

45W~150W
CRI>=80, Up to 106 lm/w
Smart control available

LON-ECO Series (45W~150W)						
Model No.	LON-E10C 045SOxxxx8	LON-E10C 060SOxxxx8	LON-E10C 085SOxxxx8	LON-E10C 105SOxxxx8	LON-E10C 135SOxxxx8	LON-E10C 150SOxxxx8
System Watts	45W±5%	60W±5%	85W±5%	105W±5%	135W±5%	150W±5%
LED Chip	OSRAM					
CRI	≧80					
LED nos.	64pcs	96pcs	128pcs	160pcs		
Total Lumens (Cool-White)	≧4,700 lm ≧106 lm/w	≧6,300 lm ≧106 lm/w	≧9,010 lm ≧106 lm/w	≧11,130 lm ≧106 lm/w	≧14,310 lm ≧106 lm/w	≧15,900 lm ≧106 lm/w
Drivers /Input	MeanWell CEN-60 IP67, PF>0.98		MeanWell CEN-100 IP67,PF>0.98		MeanWell HLG-150H, IP67, 1-10V Dimming,PF>0.98	
AC Input	Max. AC 90~305V					
Optional Driver	HLG-40H, 1-10V Dimmable	HLG-60H 1-10V Dimmable	HLG-100H or HLG-150H 1-10V Dimmable, PF>0.98		N/A	
Dimming	N/A (Standard driver) 1-10V (Optional driver)				1-10V	
Operation Temp.	-40°C~40°C, indoors and outdoors					
IP Rating	IP66					
Beam Angles	15°/30°/50°/80°/90°/110° (90°/110° Optional), PC Lens					
Color Temp.	5200~6200K(CW)/3500~4500K(NW)/2500~3500K(WW)					
Dimensions	387x220x82mm (include standard bracket)					
Weight	3.7~4.2kg (include driver and SPHC bracket)					
Material	Die-cast Aluminum Heat-Sink, White/Black painting Tempered proof glass cover SPHC Bracket Stainless 30° Tilt bracket (Optional)					
Surge Protection	10KA SPD (120-277V or 347-480V AC) (Optional)					
Smart Controlling	DALI supported via Meanwell DAP-04 DALI converter (optional) Bluetooth wireless supported via Neotroni BlueTech controller (optional)					
Warranty	5 Years, Life Span>=50,000 hrs					
COO	Made in Taiwan					
Certification	cUL/CE/CNS/DLC/Lighting Facts, ROHS					

Remarks
1.The tolerance of luminous flux is ±10%.
2.The dimension tolerance is ±5mm.
3.The appearance and specifications of the product may be modified for improvement without notice.
4.All parameters of products are based on the measurement of Laster Tech laboratory.



LON-ECO Standard
Twin Series

210W~300W CRI>80,
Up to 106 lm/w
Smart control available

LON-ECO Twin Series (210W/270W/300W)			
Model No.	LON-E10C210SOxxxx8	LON-E10C270SOxxxx8	LON-E10C300SOxxxx8
System Watts	210W±5%	270W±5%	300W±5%
LED Chips	OSRAM		
CRI	≧80		
LED nos.	320pcs		
Total Luminous flux (Cool white)	≧22,000 lm ≧106 lm/w	≧28,000 lm ≧106lm/w	≧30,600 lm ≧106lm/w
Driver	MeanWell CEN-100 IP67,AC 90-305V, PF>0.98 x2	MeanWell HLG-150H,IP67 x 2 1-10V Dimmable, 90-305V, PF>0.98 x2	
Optional Driver	MeanWell HLG-100 IP67,1-10V,Dimmable, 90-305V, PF>0.98	N/A	
Dimming	N/A (Standard driver) 1-10V (Optional driver)	1-10V	
Operation Temp.	-40°C~40°C, indoors and outdoors		
IP rating	IP66		
Beam Angles	15°/30°/50°/80°/90°/110° (90°/110° Optional), PC Lens		
Color Temp.	5700~6200K(CW)/4000~4400K(NW)/ 2900~3200K(WW)		
Dimensions	436x473x172mm (include standard bracket)		
Weight	12.8 kg	13.8 kg	14.8 Kg
Material	Die-cast Aluminum Heat-Sink, White/Black painting Tempered proof glass cover SPHC Bracket Stainless 30° Tilt bracket (Optional)		
Surge Protection	10KA SPD (120-277V or 347-480AC) Standard		
Smart Controlling	DALI supported via Meanwell DAP-04 DALI converter (optional) Bluetooth wireless supported via Neotroni BlueTech controller (optional)		
Warranty	5 Years, Life Span>=50,000 hrs		
COO	Made in Taiwan		
Certification	cUL/CE/CNS/DLC/Lighting Facts, ROHS		

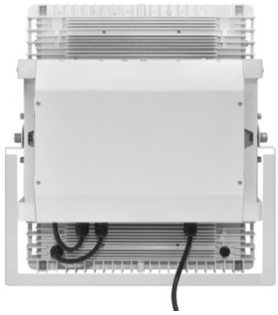
Remarks
1.The tolerance of luminous flux is ±10%.
2.The dimension tolerance is ±5mm.
3.The appearance and specifications of the product may be modified for improvement without notice.
4.All parameters of products are based on the measurement of Laster Tech laboratory.

LON-ECO Professional
Compact Series

200W~280W
Up to 110 lm/w, (200W>=120lm/w)
Smart control available

LON-ECO Professional Series(200W/220W/250W/280W)				
Model	LON-E10C200SNxxxx8	LON-E10C220SNxxxx8	LON-E10C250SNxxxx8	LON-E10C280SNxxxx8
System Watts	200W±3%	220W±3%	250W±3%	280W±3%
LED Chips	NICHIA			
CRI	≧70 (Cool White), >=80 (Warm White)			
LED nos.	96pcs	96pcs	112pcs	128pcs
Total Luminous flux (Cool white)	≧24,000 lm ≧120 lm/w	≧24,200 lm ≧110 lm/w	≧27,500 lm ≧110 lm/w	≧30,800 lm ≧110 lm/w
Driver	MeanWell HLG-240H, 90~305V AC, IP67,1-10V Dimmable, PF>0.98 x1			MeanWell HLG-320H 90~305V AC, IP65/IP67,1-10V Dimmable (IP65), PF>0.98 x1
Optional Driver	MeanWell HVG-240H, 180-518V AC, IP67, 1-10V Dimmable, PF>0.98 x1			MeanWell HVG-320H, 180-518V AC, 1-10V x1
Dimming	1-10V			
Operation Temp.	-40°C~40°C, indoors and outdoors			-40°C~40°C, outdoors
IP rating	IP66			
Beam Angle	15°/30°/50°/80°/90°/110° (90°/110° Optional), PC Lens			
Color Temp.	5700~6200K(CW)/4000~4400K(NW)/ 2900~3200K(WW)			
Dimensions	439x260x172mm (include standard bracket)			
Weight	8.0 Kg	8.0 Kg	8.2 Kg	8.4 Kg
Material	Die-cast Aluminum Heat-Sink, White/Black painting Tempered proof glass cover SPHC Bracket Stainless 30° Tilt bracket (Optional)			
Surge Protection	10KA SPD (120-277V or 347-480V AC) Standard			
Smart Controlling	DALI supported via Meanwell DAP-04 DALI converter (optional) Bluetooth wireless supported via Neotroni BlueTech controller (optional)			
Warranty	5 Years, Life Span>=50,000 hrs			
COO	Made in Taiwan			
Certification	cUL/CE/CNS/DLC/Lighting Facts, ROHS			

Remarks
1.The tolerance of luminous flux is ±10%.
2.The dimension tolerance is ±5mm.
3.The appearance and specifications of the product may be modified for improvement without notice.
4.All parameters of products are based on the measurement of Laster Tech laboratory.



LON-ECO Professional
Twin Series

420W/560W
Up to 110 lm/w
Smart control available

LON-ECO Professional Twin Series (420W/560W)		
Model No.	LON-E10C420SNxxxx8	LON-E10C560SNxxxx8
System Watts	420W±3%	560W±3%
LED Chips	NICHIA	
CRI	≧70 (Cool White), >=80 (Warm White)	
LED nos.	192pcs	256pcs
Total Luminous flux (Coolwhite)	≧46,200 lm ≧110 lm/w	≧61,600 lm ≧110 lm/w
Driver	MeanWell HLG-600H 90~305V AC, IP67,1-10V Dimming, PF>0.98 x1	
Optional Driver	MeanWell HVG-320H, 180~518V AC, IP67, 1-10V Dimming, PF>0.98 x2	
Dimming	1-10V	
Operation Temp.	-40°C~40°C, indoors and outdoors	-40°C~40°C, outdoors
IP rating	IP66	
Beam Angles	15°/30°/50°/80°/90°/110° (90°/110° Optional), PC Lens	
Color Temp.	5700~6200KK(CW)/4000~4400K(NW)/ 2900~3200K(WW)	
Dimensions	436x473x172mm (include standard bracket)	
Weight	17.8 kg	18 Kg
Material	Die-cast Aluminum Heat-Sink, White/Black painting Tempered proof glass cover SPHC Bracket Stainless 30° Tilt bracket (Optional)	
Surge Protection	10KA SPD (120-277V or 347-480V AC) Standard	
Smart Controlling	DALI supported via Meanwell DAP-04 DALI converter (optional) Bluetooth wireless supported via Neotroni BlueTech controller (optional)	
Warranty	5 Years, Life Span>=50,000 hrs	
COO	Made in Taiwan	
Certification	cUL/CE/CNS/DLC/Lighting Facts, ROHS	

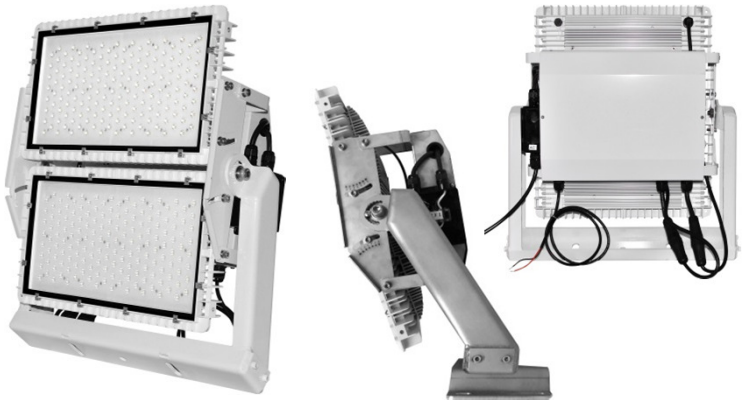
Remarks
1.The tolerance of luminous flux is ±10%.
2.The dimension tolerance is ±5mm.
3.The appearance and specifications of the product may be modified for improvement without notice.
4.All parameters of products are based on the measurement of Laster Tech laboratory.

LON-ECO Advanced
Compact Series

200W~280W
Support 180-518V AC
Up to 130 lm/w
Smart control available

LON-ECO Advanced Series(200W/220W/250W/280W)			
Model	LON-E10C220SNxxxx8	LON-E10C250SNxxxx8	LON-E10C280SNxxxx8
System Watts	220W±3%	250W±3%	280W±3%
LED Chips	NICHIA		
CRI	≧70		
LED nos.	128pcs	144pcs	160pcs
Total Luminous flux (Cool white)	≧28,600 lm ≧130 lm/w	≧32,500 lm ≧130 lm/w	≧36,400 lm ≧130 lm/w
Driver	MeanWell HLG-240H, 90~305V AC, IP67,1-10V Dimmable, PF>0.98 x1		MeanWell HLG-320H 90~305V AC, IP65/IP67,1-10V Dimmable (IP65), PF>0.98 x1
Optional Driver	MeanWell HVG-240H, 180-518V AC, 1-10V x1		MeanWell HVG-320H, 180-518V AC, 1-10V x1
Dimming	1-10V		
Operation Temp.	-40°C~40°C, indoors and outdoors		-40°C~40°C, outdoors
IP rating	IP66		
Beam Angle	15°/30°/50°/80°/90°/110° (90°/110° Optional), PC Lens		
Color Temp.	5700~6200K(CW)/4000~4400K(NW)/ 2900~3200K(WW)		
Dimensions	439x260x172mm (include standard bracket)		
Weight	8.4 Kg	8.6 Kg	8.8 Kg
Material	Die-cast Aluminum Heat-Sink, White/Black painting Tempered proof glass cover SPHC Bracket Stainless 30° Tilt bracket (Optional)		
Smart Controlling	DALI supported via Meanwell DAP-04 DALI converter (optional) Bluetooth wireless supported via Neotroni BlueTech controller (optional)		
Warranty	5 Years, Life Span>=50,000 hrs		
COO	Made in Taiwan		
Certification	cUL/CE/CNS/DLC/Lighting Facts, ROHS		

Remarks
1.The tolerance of luminous flux is ±10%.
2.The dimension tolerance is ±5mm.
3.The appearance and specifications of the product may be modified for improvement without notice.
4.All parameters of products are based on the measurement of Laster Tech laboratory.



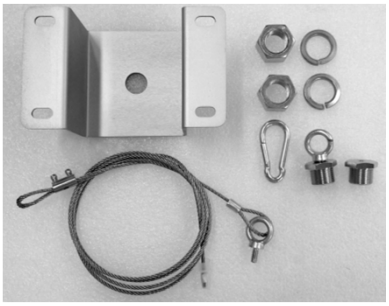
LON-ECO Advanced
Twin Series

420W~560W
Support 180-518V AC
Anti-Corrosion, Anti-Vibration
Up to 130 lm/w
Smart control available

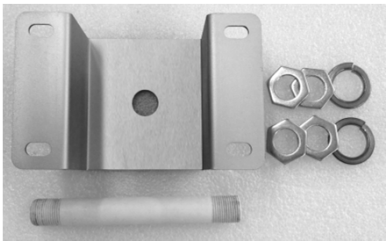
LON-ECO Advanced Twin Series (420W/560W)		
Model No.	LON-E10C420SNxxxx8	LON-E10C560SNxxxx8
System Watts	420W±3%	560W±3%
LED Chips	NICHIA	
CRI	≧70	
LED nos.	256pcs	320pcs
Total Luminous flux (Coolwhite)	≧54,600 lm ≧130 lm/w	≧72,800 lm ≧130 lm/w
Driver	MeanWell HLG-600H 90~305V AC, IP67,1-10V Dimming, PF>0.98 x1	
Optional Driver	MeanWell HVG-320H, 180~518V AC, IP67, 1-10V Dimming, PF>0.98 x2	
Dimming	1-10V	
Operation Temp.	-40°C~40°C, indoors and outdoors	-40°C~40°C, outdoors
IP rating	IP66	
Beam Angles	15°/30°/50°/80°/90°/110° (90°/110° Optional), PC Lens	
Color Temp.	5700~6200KK(CW)/4000~4400K(NW)/ 2900~3200K(WW)	
Dimensions	480x510x220mm (include Tilt bracket)	
Weight	21 Kg	22 Kg
Material	Die-cast Aluminum Heat-Sink, White/Black PVDF painting Tempered proof glass cover Stainless 30° Tilt bracket, Anti-corrosion, Anti-Vibration Independent rotary modules with angle mark	
Surge Protection	10KA SPD (120-277V or 347-480V AC) Standard	
Smart Controlling	DALI supported via Meanwell DAP-04 DALI converter (optional) Bluetooth wireless supported via Neotroni BlueTech controller (optional)	
Warranty	5 Years, Life Span>=50,000 hrs	
COO	Made in Taiwan	
Certification	cUL/CE/CNS/DLC/Lighting Facts, ROHS	

Remarks
1.The tolerance of luminous flux is ±10%.
2.The dimension tolerance is ±5mm.
3.The appearance and specifications of the product may be modified for improvement without notice.
4.All parameters of products are based on the measurement of Laster Tech laboratory.

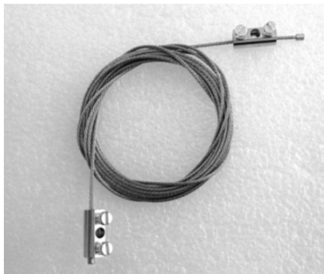
Despite bracket for wall mount, LON-ECO offers other accessories for different purpose. Ex: Pendant, Stem for Hi-bay and pole clamp, even customer-design accessories for special requirement.



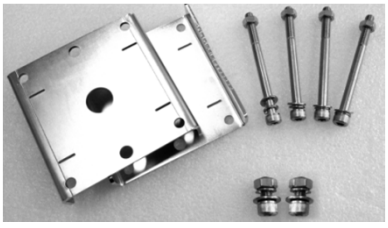
For Hi-bay	AS-W01
Contents	1. Stainless ceiling mount base x1 2. Stainless cable, length adjustable x1 3. Standard cable length 1.2M, customer made length is available
Purpose	Pendant for Hi-Bay



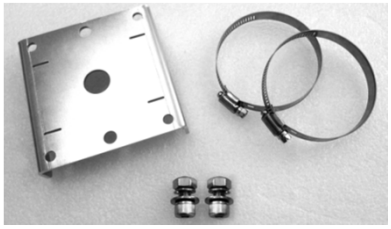
For Hi-bay	AS-S01
Contents	1. Stainless ceiling mount base x1 2. SPCC tube x1 3. Standard tube length 1.2M, customer made length is available
Purpose	Stem for Hi-Bay



For Hi-bay or Others	AS-D01
Contents	1. Stainless cable, adjustable x1 2. Standard length 1.2M, customer made length is available
Purpose	Anti-drop cable for ceiling mount



For Clamp on Pole	AS-C01
Contents	1. Stainless Pole Clamp set x2 2. Stainless long screws 3. Supporting pole diameter: 30mm~80mm
Purpose	Pole Clamping



For Clamp on Pole	AS-C01
Contents	1. Stainless Pole Clamp set x1 2. Stainless Clamping Belt x2 3. Supporting pole diameter: 25mm~82mm
Purpose	Pole Clamping

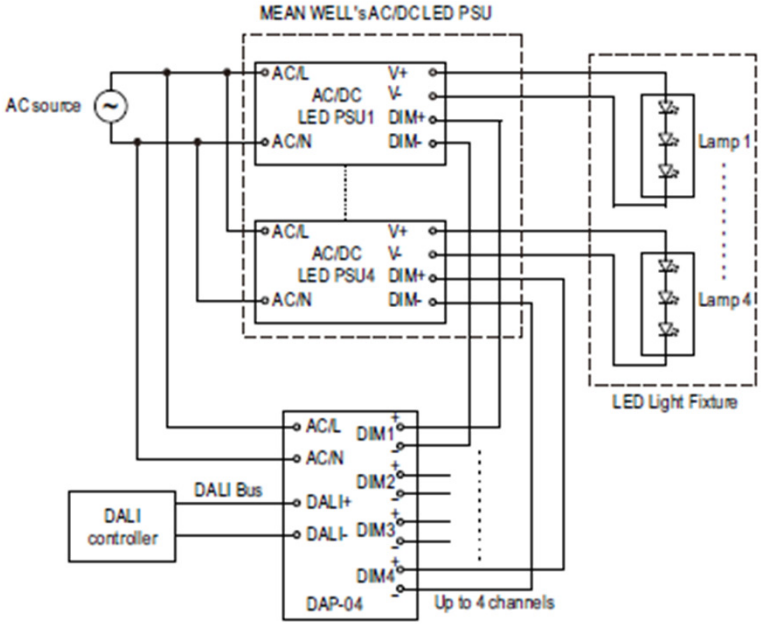
DALI Ready

LON-ECO series supports DALI (Digital Addressed Lighting Interface) control via DAP-04 DALI-PWM converter. (optional)

DAP-04 has 4 DALI channels can connect with MeanWell 3 in 1 dimming line to do PWM dimming control. Its scalable connections expand its application to many kinds of scenarios.

The dimming range can be between 1%~100% (suggested not lower to 3% to prevent from LED flickering)

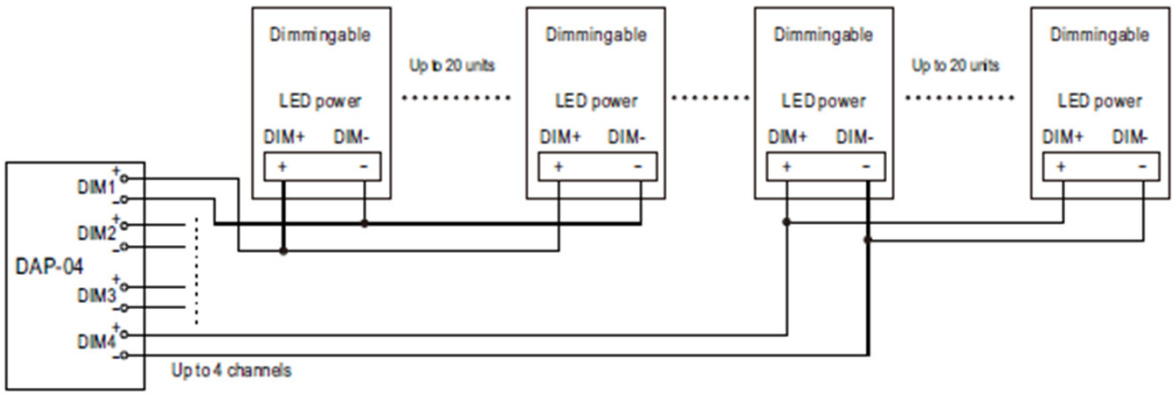
DALI Dimming Control Mode



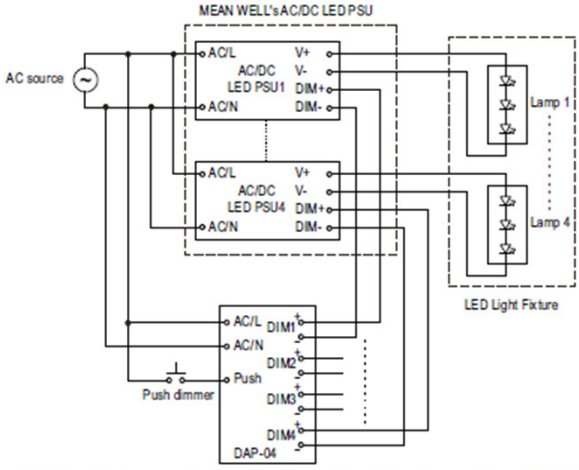
You can use PC or 3rd Party DALI controller via DALI Bus to control every LON-ECO via DAP-04.
In this drawing, each DIM# connect one LON-ECO LED driver with 1-10V cable.

Furthermore, it is able to let each DIM# to connect multiple LON-ECO 1-10V cable in parallel to achieve “Synchronous controlling”.

Synchronous connection



Push Dim Mode



※Note: Only use Normally Open Push Button without light indicator .

Dimming control mechanism

Function	Pushing time
No change of state	<0.05 sec
Turn ON/OFF	0.1~1 sec
Dimming up or down	1.5~10 sec
Setting light to 100%	>11 sec

- Every long pushing action will change the dimming direction.
- Factory default dimming setting : 100%

Under Push Dim mode, it is able to dim LON-ECO via only a Open Push Button without connecting with outer DALI controller and software.
It is also suitable to connect using “Synchronous connection” to control up to 80pcs LON-ECO via only one DAP-04.

Dimming with Automatic Relay ON/OFF

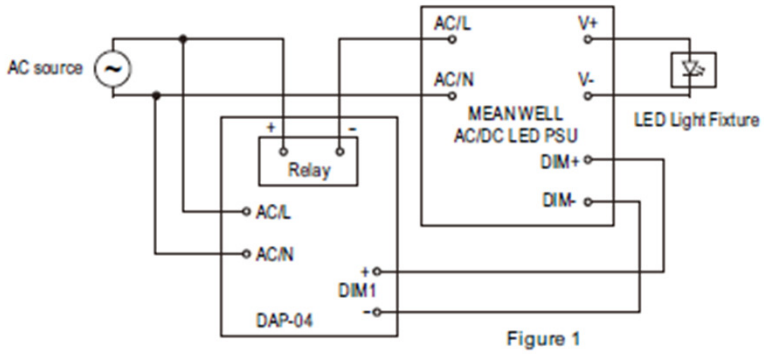
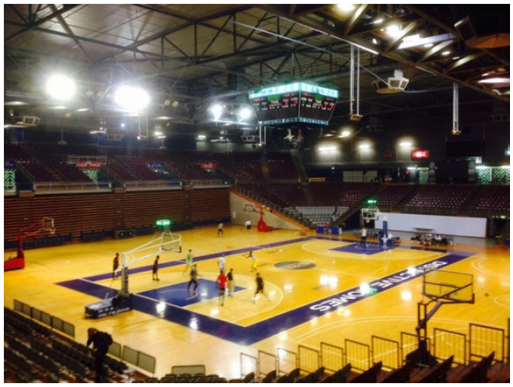


Figure 1

It is possible to turn LON-ECO ON/ OFF automatically according to if there is dimming signal.

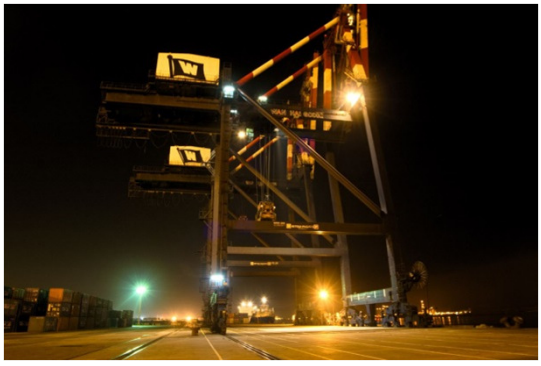
It means you don’t need to control the ON/OFF in the software or via a switch. DAP-04 built in a replay can be connected with LON-ECO AC input together, when there is a dimming signal, the LON-ECO will be automatically turn ON, and when there is no signal , the light will turn OFF automatically.



Indoors or outdoors professional stadium

Factory / Warehouse

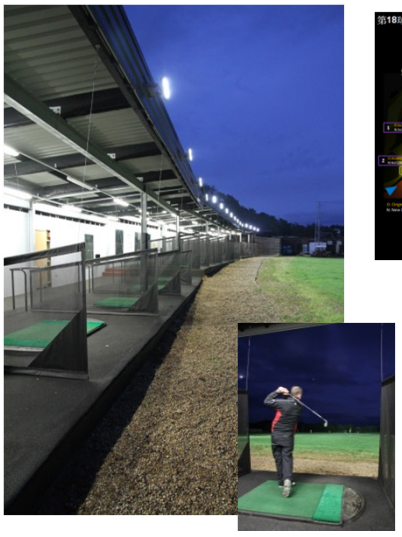
Gymnasium

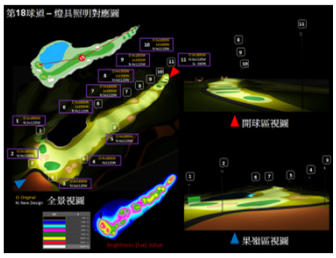


Heavy Duty Machine lighting

Pole light in Airport / Dock /Logistics Center

Long Distance Professional Lighting





Golf course & other practice range