

[www.ledionopto-lighting.com](http://www.ledionopto-lighting.com)

**Ledionopto**  
雷 笛 揚 照 明

*A New Experience In Light*



**Ledionopto Lighting, Inc.**

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VER.1

**2013** CATALOG  
[www.ledionopto-lighting.com](http://www.ledionopto-lighting.com)



**Ledionopto is proud to contribute and make an effort in protecting our environment**

With the increasing demand for energy and the effect on global warming, Ledionopto Lighting plays a role in preserving the forest by reducing energy consumption, and CO<sub>2</sub> emission one step at a time.

## Our Vision

We have only one earth. Everyone can devote time to preserving the environment. By using one LED light bulb every day, we can save energy, and reduce power consumption and carbon dioxide emission.

Ledionopto Lighting has the mission to "guard the earth" and to develop the LED semi conductor business, replacing traditional, energy consuming tungsten lamps. We research and develop energy saving and high safety LED lighting products, leading the world to promote a green revolution. Throughout the world's lighting market, Ledionopto already sells into more than sixty countries.

This confirms our leading status within the green energy and low carbon industry.

Ledionopto Lighting constantly devotes time to researching and developing new technologies in the field of "green lighting". We have high specification laboratory equipment and expert engineers in the electrical and optical fields. We design high efficiency and low energy consuming LED lighting products with foresight, vision and flexible creativity to accomplish the mission of caring for the earth.

## Company Introduction

Ledionopto Lighting is an expert company dedicated in creating practical solid state lighting (SSL) products. With proficiency in LED technology, optical and thermal engineering, all Ledionopto Lighting products are highly integrated and carry the highest industry standards in performance and reliability.

Established in 2008.07

Headquartered in Taipei, Taiwan

Paid-In Capital: USD 5.2 Million

Major Product: LED Downlight / LED Spotlight / LED Bulb  
LED Pendant Lighting / LED Track Light



## Production Facility

Highly Automatic

Highly Efficient

High Quality



Quality Assurance Testing Equipments



Precise Instrument Lab



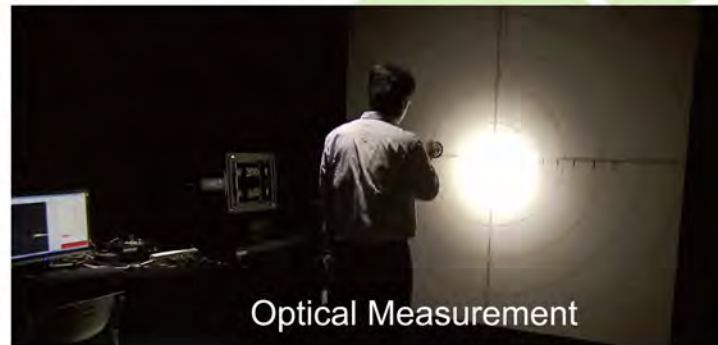
Reflow Process



Integrating Sphere



LM80 Lifetime Testing



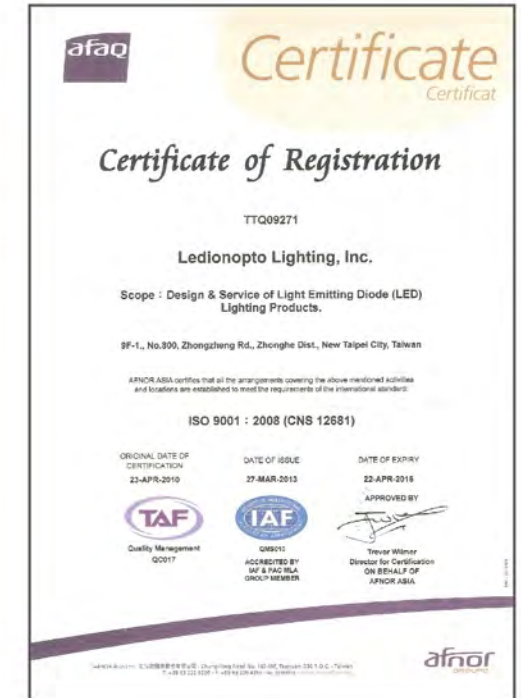
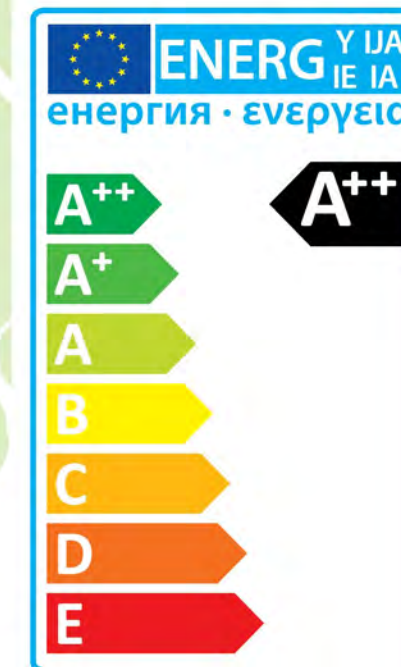
Optical Measurement

## Capacity Ability

Ledionopto Lighting possesses the most delicate technology in production. With a fully automatic production line, Ledionopto Lighting provides clients high-quality lighting products by extraordinary production management ability. In pursuit of excellent quality, Ledionopto Lighting uses high technology instruments to test and control the high standard of accuracy required for the products.

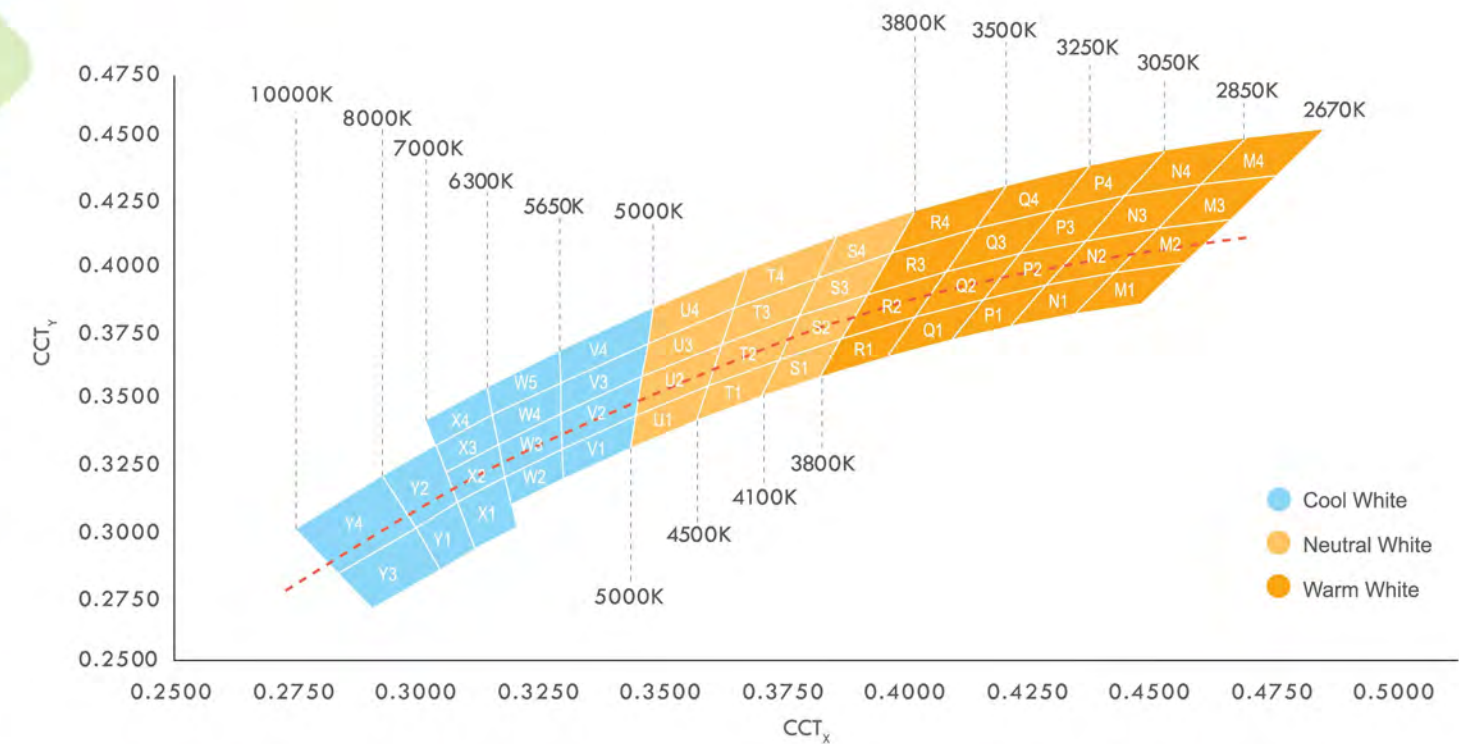


## CCT Ranks



ISO 9001:2008

## Cool White/Neutral White/Warm White



## Certification

✓ Pass ▲ Pending

Products	FC	CE			
		EMC	LVD	IEC 62471	Eco Design
5W TD16	✓	✓	✓	✓	▲
7W TD16		✓	✓	✓	▲
7W TD20	✓	✓	✓	✓	▲
12W TD20		✓	✓	✓	▲
15W TD36	✓	✓	✓	✓	▲
20W TD36		▲	▲	✓	▲
10W TD26	✓	✓	✓	✓	▲
15W TD32	✓	✓	✓	✓	▲
12W TD 20 HR / 15W TD HR		▲	▲	▲	▲
15W 4" Downlight		✓	▲	✓	▲
25W 6" Downlight		✓	▲	✓	▲
24W Downlight		✓	✓	▲	▲
30W 6" HR Downlight		▲	▲	▲	▲
25W 8" Downlight		✓	✓	✓	▲
35W 8" Downlight		✓	✓	✓	▲
30W 8" HR Downlight		▲	▲	▲	▲
40W 8" HR Downlight		▲	▲	▲	▲
50W 8" Downlight		✓	✓	✓	▲
15W Nature Series		✓	✓	✓	▲
17W / 30W Cylinder Series		✓	✓	✓	▲
9W Track Light		✓	✓	▲	▲
24W Track Light		✓	✓	▲	▲
3W MR16	✓	✓	▲	✓	
6W MR16	✓	✓		✓	▲
10W AR111	✓	✓	▲	✓	▲
7W MR16 Module		▲	▲	▲	▲

## Certification

✓ Pass ▲ Pending

Products	FC	CE			
		EMC	LVD	IEC 62471	Eco Design
15W AR111/	✓	✓	▲	▲	▲
3W GU10		✓		✓	
6W GU10	✓	✓	✓	✓	▲
7W GU10C		✓	✓	✓	▲
10W ES111	✓	✓	✓	✓	▲
15W ES111		▲	▲	▲	▲
7W A19(EOL)	✓	✓			
9W A19		✓			▲
7W PAR20A		✓	▲	▲	▲
12W PAR30F	✓	✓	✓	✓	▲
17W PAR38F	✓	✓	✓	✓	▲
17W AR111		▲	▲	▲	▲



Tatar cheese/Poland



## LED TD Series | 5W / 7W TD16

Circle Tiltable Type



Square Tiltable Type



Dimmer



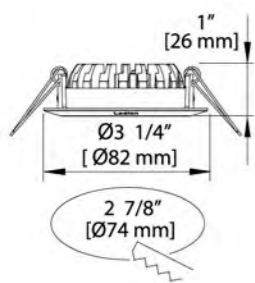
- ▶ Luminaire can be tilted by 0°~45°(5W TD16)
- ▶ Luminaire can be tilted by 0°~25°(7W TD16)
- ▶ DC 350mA, 16V (5W TD16)
- ▶ DC 500mA, 16V (7W TD16)
- ▶ CRI : CW 70, NW 75, WW 80
- ▶ Weight : 120 ± 5 g (5W TD16)
- ▶ 140 ± 5 g (7W TD16)
- ▶ Finished Colors : White, Silver, Alu. brushed

### 5W TD16

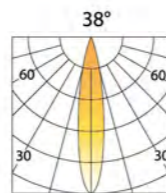
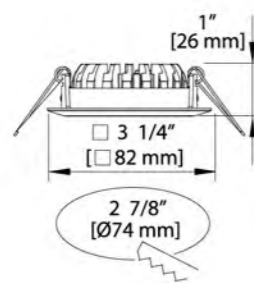
Compatible with 35W Halogen MR16

Energy cost savings **86%**

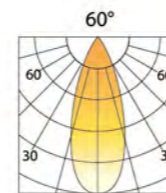
Circle Tiltable Type



Square Tiltable Type



Lux (Typ.)				
m	38°	CW	NW	WW
1	3000	2500	2000	
2	750	625	500	
3	333	278	223	



Lux (Typ.)				
m	60°	CW	NW	WW
1	940	850	750	
2	235	213	188	
3	104	95	84	

5W TD16

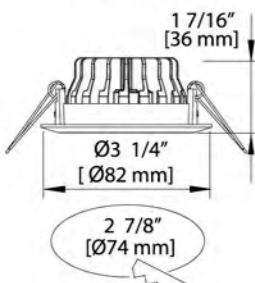
Part Number	Beam Angles	Field Angles	CCT(Typ.)	Lux@ 1m (Typ.)	Lm (Typ.)
TD16-0531xx			6000K	3000	360
TD16-0532xx	20°	38°	4000K	2500	310
TD16-0533xx			3000K	2000	280
TD16-0561xx			6000K	940	360
TD16-0562xx	40°	60°	4000K	850	310
TD16-0563xx			3000K	750	280

### 7W TD16

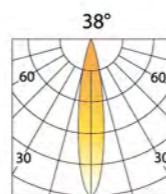
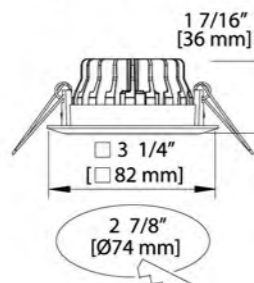
Compatible with 35W Halogen MR16

Energy cost savings **86%**

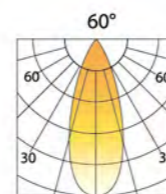
Circle Tiltable Type



Square Tiltable Type



Lux (Typ.)				
m	38°	CW	NW	WW
1	3250	2800	2400	
2	810	700	600	
3	360	311	267	



Lux (Typ.)				
m	60°	CW	NW	WW
1	1150	980	800	
2	290	245	200	
3	130	109	90	

7W TD16

TD16-0731xx			6000K	3250	430
TD16-0732xx	20°	38°	4000K	2800	390
TD16-0733xx			3000K	2400	320
TD16-0761xx			6000K	1150	430
TD16-0762xx	40°	60°	4000K	980	390
TD16-0763xx			3000K	800	320

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)  
2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.

Store/Denmark



## LED TD Series | 7W / 12W TD20

Circle Tiltable Type



Circle Fixed Type



Square Tiltable Type



Dimmer



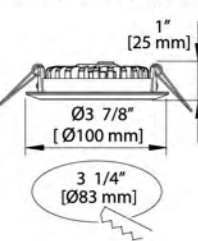
- Luminaire can be tilted by 0°~45°(7W TD20)
- Luminaire can be tilted by 0°~25°(12W TD20)
- DC 350mA, 16V (7W TD20)  
DC 500mA, 16V (12W TD20)
- CRI : CW 70, NW 75, WW 80
- Weight : 120 ± 5 g (7W TD20 /Tiltable type)  
140 ± 5 g (7W TD20/Fixed type)  
225 ± 5 g (7W TD20)
- Finished Colors : White, Silver, Alu. brushed

### 7W TD20

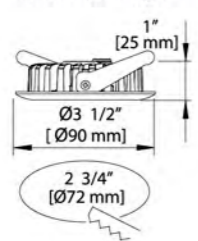
Compatible with 50W Halogen MR16

Energy cost savings **86%**

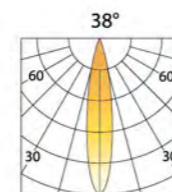
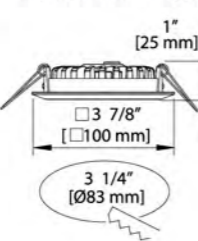
Circle Tiltable Type



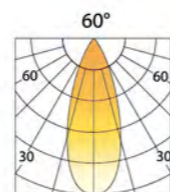
Circle Fixed Type



Square Tiltable Type



Lux (Typ.)		38°		
m		CW	NW	WW
1	1	5000	3700	3200
2	2	1250	925	800
3	3	556	412	356



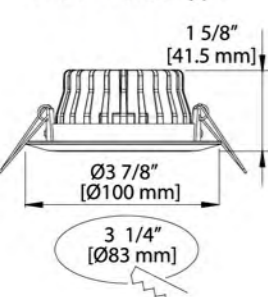
Lux (Typ.)		60°		
m		CW	NW	WW
1	1	1600	1350	1200
2	2	400	338	300
3	3	178	150	133

### 12W TD20

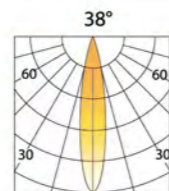
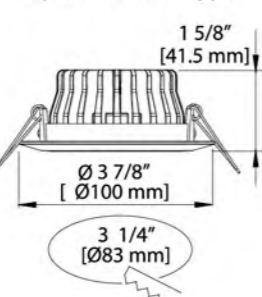
Compatible with 75W Halogen PAR30

Energy cost savings **86%**

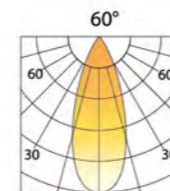
Circle Tiltable Type



Square Tiltable Type



Lux (Typ.)		38°		
m		CW	NW	WW
1	1	6000	5000	4100
2	2	1500	1250	1025
3	3	660	550	450



Lux (Typ.)		60°		
m		CW	NW	WW
1	1	2000	1700	1470
2	2	500	425	360
3	3	220	180	160

7W TD20

Part Number	Beam Angles	Field Angles	CCT(Typ.)	Lux@ 1m (Typ.)	Lm (Typ.)
TD20-0731xx			6000K	5000	600
TD20-0732xx	20°	38°	4000K	3700	540
TD20-0733xx			3000K	3200	440
TD20-0761xx			6000K	1600	600
TD20-0762xx	40°	60°	4000K	1350	540
TD20-0763xx			3000K	1200	440

12W TD20

TD20-0731xx			6000K	6000	780
TD20-0732xx	20°	38°	4000K	5000	680
TD20-0733xx			3000K	4100	540
TD20-0761xx			6000K	2000	780
TD20-0762xx	40°	60°	4000K	1700	680
TD20-0763xx			3000K	1470	540

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)

2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.

Salon fiat jeep/Poland



## LED TD Series | 15W / 20W TD36

Circle Tiltable Type



Circle Fixed Type



Square Tiltable Type



Dimmer



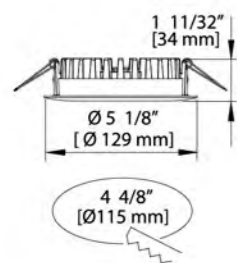
- ✔ Luminaire can be tilted by 0°~45° (15W TD36)
- ✔ Luminaire can be tilted by 0°~25° (20W TD36)
- ✔ DC 350mA, 16V (15W TD36)  
DC 500mA, 16V (20W TD36)
- ✔ CRI : CW 70, NW 75, WW 80
- ✔ Weight : 350 ± 5 g (15W TD36 / Tiltable type)  
310 ± 5 g (15W TD36 / Fixed type)  
570 ± 5 g (20W TD36)
- ✔ Finished Colors : White, Silver, Alu. brushed

### 15W TD36

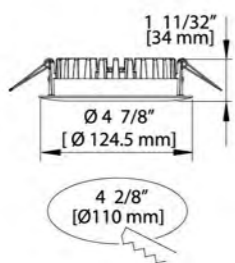
Compatible with 120W Halogen PAR38

Energy cost savings **83%**

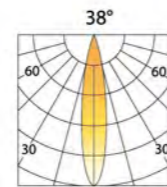
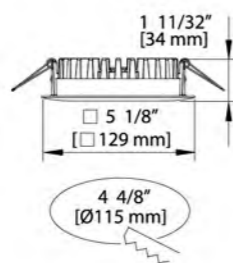
Circle Tiltable Type



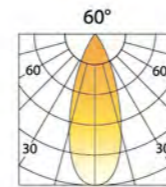
Circle Fixed Type



Square Tiltable Type



Lux (Typ.)				
m	38°	CW	NW	WW
1		8000	7000	5800
2		2000	1750	1450
3		889	778	645



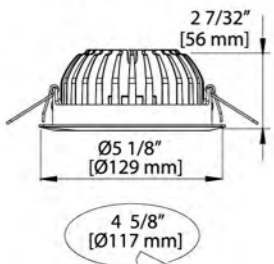
Lux (Typ.)				
m	60°	CW	NW	WW
1		2800	2500	1900
2		700	625	475
3		312	278	212

### 20W TD36

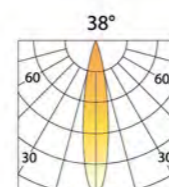
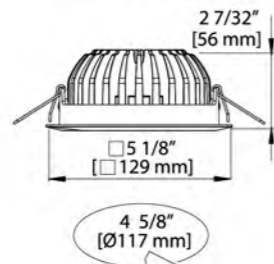
Compatible with 120W Halogen PAR38

Energy cost savings **83%**

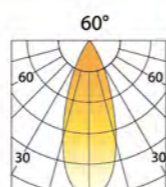
Circle Tiltable Type



Square Tiltable Type



Lux (Typ.)				
m	38°	CW	NW	WW
1		9800	8200	7000
2		2450	2050	1750
3		1088	911	777



Lux (Typ.)				
m	60°	CW	NW	WW
1		3400	3000	2500
2		850	750	625
3		378	333	278

15W TD36

Part Number	Beam Angles	Field Angles	CCT(Typ.)	Lux@ 1m (Typ.)	Lm (Typ.)
TD36-1531xx			6000K	8000	1100
TD36-1532xx	20°	38°	4000K	7000	950
TD36-1533xx			3000K	5800	750
TD36-1561xx			6000K	2800	1100
TD36-1562xx	40°	60°	4000K	2500	950
TD36-1563xx			3000K	1800	750

20W TD36

TD36-2031xx			6000K	8800	1400
TD36-2032xx	20°	38°	4000K	8200	1300
TD36-2033xx			3000K	7000	1050
TD36-2061xx			6000K	3400	1400
TD36-2062xx	40°	60°	4000K	3000	1300
TD36-2063xx			3000K	2500	1050

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)  
2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.

Deli-Express/Venezuela



## LED TD Series | 15W TD HR

- Flux @ Warm White 1,000 lm
- Up to 70 lm/W
- CRI 90

Diffuser



Hybrid lens



Dimmer

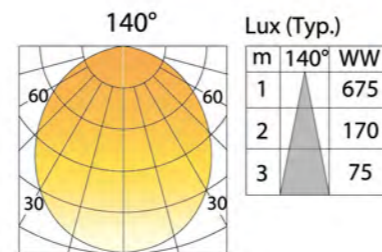
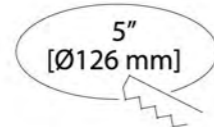
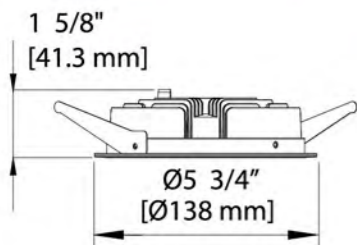


- DC 350mA, 36V
- CRI : CW 90
- Weight : 415 ± 5 g (For Diffuser)  
540 ± 5 g (For Hybrid)
- Finished Colors : White

### 15W TD HR

Compatible with 75W Downlight

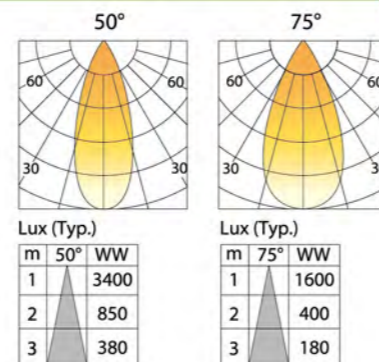
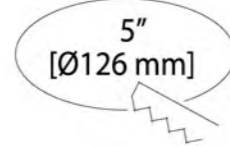
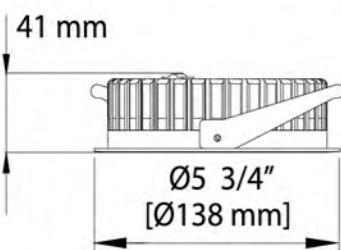
Energy cost savings **83%**



### 15W TD HR (Hybrid lens)

Compatible with 75W Downlight

Energy cost savings **83%**



### 15W TD HR (Milky Diffuser)

Part Number	Beam Angles	Field Angles	CCT(Typ.)	Lux@ 1m (Typ.)	Lm (Typ.)
TDHR-15011x			6000K	675	1000
TDHR-15012x	75°	140°	4000K	675	1000
TDHR-15013x			3000K	675	1000

### 15W TD HR (Hybrid lens)

TDHR-15512x			6000K	3400	1000
TDHR-15512x	25°	50°	4000K	3400	1000
TDHR-15512x			3000K	3400	1000
TDHR-15712x			6000K	1600	1000
TDHR-15712x	45°	75°	4000K	1600	1000
TDHR-15712x			3000K	1600	1000

Notes: 1. The photometric datas were measured at TJ=85°C  
2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.



Howard Plaza Boutique/Taiwan



## LED Downlight Series

15W 4" Downlight 25W 6" Downlight

Clear Glass



Milky Diffuser



Dimmer

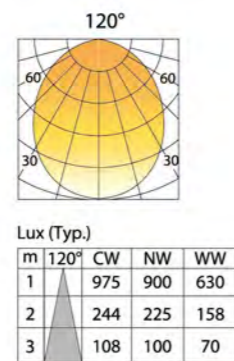
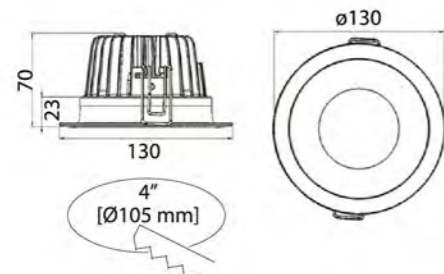


- 15W-DC 1A, 15V
- 25W-DC 1.3A, 18V
- CRI : CW 70, NW75, WW80
- Weight : 4" 15W- 380 ± 5 g  
6" 25W- 760 ± 5 g
- Finished Colors : White

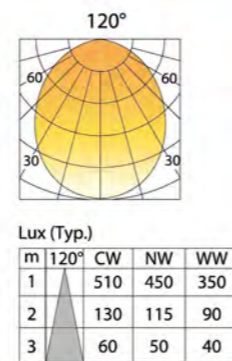
### 15W 4" Downlight

Compatible with 60W Downlight

Energy cost savings **75%**



Clear Glass



Milky Diffuser

### Clear Glass

Power (W)	Part Number	Beam Angle	Field Angle	CCT(Typ.)	Lux* @ 1m (Typ.)	Lm (Typ.)
15W (4")	D4-15010x			6000K	975	1050
	D4-15020x	60°	120°	4000K	900	865
	D4-15030x			3000K	630	710
25W (6")	D6-25010x			6000K	2200	1600
	D6-25020x	60°	120°	4000K	1630	1400
	D6-25030x			3000K	1300	1150

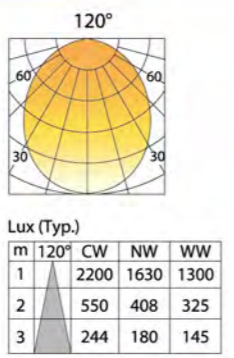
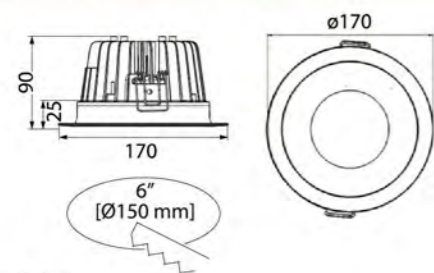
### Milky Diffuser

Power (W)	Part Number	Beam Angle	Field Angle	CCT(Typ.)	Lux* @ 1m (Typ.)	Lm (Typ.)
15W (4")	D4-15011x			6000K	510	910
	D4-15021x	60°	120°	4000K	450	800
	D4-15031x			3000K	350	620
25W (6")	D6-25011x			6000K	870	1400
	D6-25021x	60°	120°	4000K	750	1200
	D6-25031x			3000K	630	1000

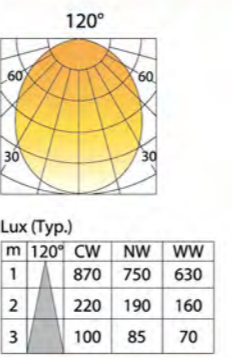
### 25W 6" Downlight

Compatible with 75W Downlight

Energy cost savings **66%**



Clear Glass



Milky Diffuser

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)

2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.

- Notes:
- Unit: mm
  - Tolerance: ±5.0 mm
  - Recommended thickness of ceiling : 10mm±2mm

Watch Shop/Poland



## LED Downlight Series | 30W 6" HR Downlight

Clear Glass



White

Milky Diffuser



White

Dimmer



- DC700mA, 36V
- CRI : 90
- Weight : 6000 ± 5 g
- Finished Colors : White

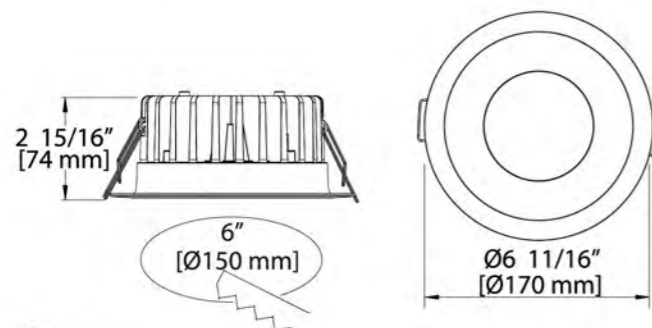


- Flux @ Warm White 2,150 lm
- Up to 70 lm/W
- CRI 90

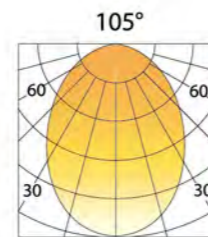
### 30W 6" HR Downlight

Compatible with 35W CDM-R

Energy cost savings **75%**

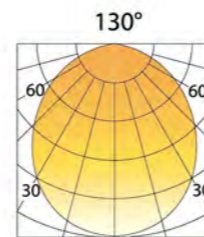


- Notes:
1. Unit: mm
  2. Tolerance: ±5.0 mm
  3. Recommended thickness of ceiling : 10mm±2mm



Lux (Typ.)		
m	105°	WW
1		2250
2		560
3		250

Clear Glass



Lux (Typ.)		
m	130°	WW
1		1350
2		340
3		150

Milky Diffuser

### Clear Glass

Power (W)	Part Number	Beam Angle	Field Angle	CCT(Typ.)	Lux*@ 1m (Typ.)	Lm (Typ.)
30W	2D6HR-30010x			6000K	2250	2150
	2D6HR-30020x	50°	105°	4000K	2250	2150
	2D6HR-30030x			3000K	2250	2150

### Milky Diffuser

Power (W)	Part Number	Beam Angle	Field Angle	CCT(Typ.)	Lux*@ 1m (Typ.)	Lm (Typ.)
30W	2D6HR-30011x			6000K	1350	2000
	2D6HR-30021x	70°	130°	4000K	1350	2000
	2D6HR-30031x			3000K	1350	2000

Notes: 1. The photometric datas were measured at initial state. (T<sub>A</sub>=25°C)

2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.

L'BEL/Columbia



## LED Downlight Series

### 30W / 40W 8" HR Downlight

Clear Glass



Milky Diffuser



Dimmer



- 30W - DC 0.7A, 40V
- 40W - DC 1.05A, 40V
- CRI : 90
- Weight : 1027 ± 5 g
- Finished Colors : White

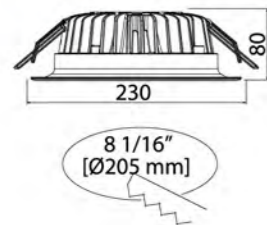


- Flux @ Warm White 2,700 lm
- Up to 70 lm/W
- CRI 90

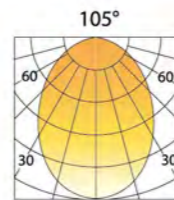
## 30W/40W 8" HR Downlight

Compatible with 35W CDM-R

Energy cost savings **75%**

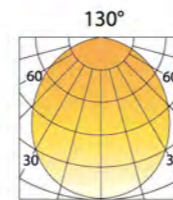


- Notes:
- Unit: mm
  - Tolerance: ±5.0 mm
  - Recommended thickness of ceiling : 10mm±2mm



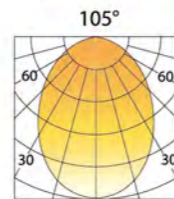
Lux (Typ.)	
m	105° WW
1	2250
2	560
3	250

30W - Clear Glass



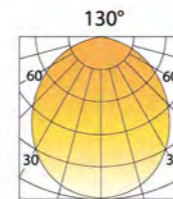
Lux (Typ.)	
m	130° WW
1	1350
2	340
3	150

30W - Milky Diffuser



Lux (Typ.)	
m	105° WW
1	4000
2	1000
3	400

40W - Clear Glass



Lux (Typ.)	
m	130° WW
1	2150
2	540
3	240

40W - Milky Diffuser

## Clear Glass

Power (W)	Part Number	Beam Angle	Field Angle	CCT(Typ.)	Lux* @ 1m (Typ.)	Lm (Typ.)
30W	2D8HR-30010x	50°	105°	6000K	2250	2150
	2D8HR-30020x			4000K	2250	2150
	2D8HR-30030x			3000K	2250	2150
40W	2D8HR-40010x	50°	105°	6000K	4000	2700
	2D8HR-40020x			4000K	4000	2700
	2D8HR-40030x			3000K	4000	2700

## Milky Diffuser

Power (W)	Part Number	Beam Angle	Field Angle	CCT(Typ.)	Lux* @ 1m (Typ.)	Lm (Typ.)
30W	2D8HR-30011x	70°	130°	6000K	1350	2000
	2D8HR-30021x			4000K	1350	2000
	2D8HR-30031x			3000K	1350	2000
40W	2D8HR-40011x	70°	130°	6000K	2150	2500
	2D8HR-40021x			4000K	2150	2500
	2D8HR-40031x			3000K	2150	2500

Notes: 1. The photometric datas were measured at initial state. (T<sub>A</sub>=25°C)

2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.



## LED Downlight Series

### | 24W 6" HR Downlight

24W Downlight



#### Dimmer



- AC 100-240 50/60Hz
- CRI : 90
- Weight : 960 ± 5 g
- Finished Colors : White

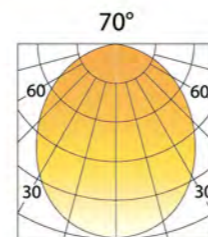
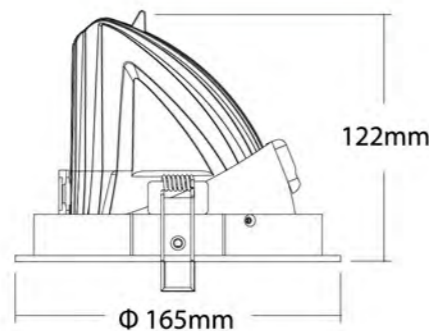
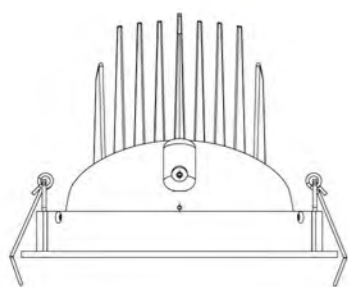


- Flux @ Warm White 2,150 lm
- Up to 90 lm/W
- CRI 90

## 24W Downlight

Compatible with 35W CDM

Energy cost savings **80%**



Lux (Typ.)

m	70°	CW	NW	WW
1	5000	5000	5000	
2	1250	1250	1250	
3	556	556	556	

Part Number	Beam Angle	Field Angle	CCT(Typ.)	Lux*@ 1m (Typ.)	Lm (Typ.)
ETL-247100			6000K	5000	2150
ETL-247200	24°	70°	4000K	5000	2150
ETL-247300			3000K	5000	2150

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)

2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.

Store/Spain



## LED Downlight Series

### | 40W 7" HR Downlight

40W HR Downlight



#### Dimmer



- AC 100-240 50/60Hz
- CRI : 90
- Weight : 1420 ± 5 g
- Finished Colors : White

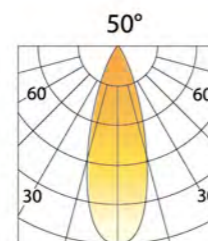
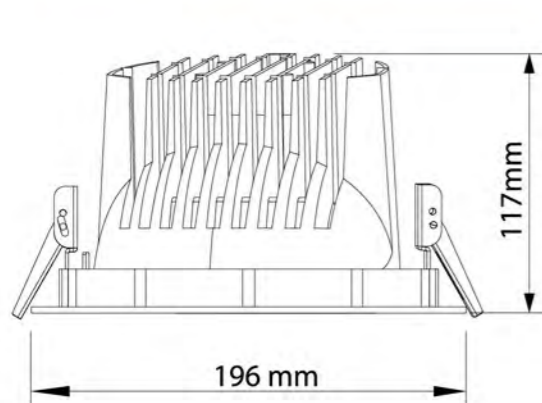


- Flux @ Warm White 3000 lm
- Up to 75 lm/W
- CRI 90

## 40W HR Downlight

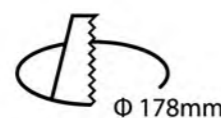
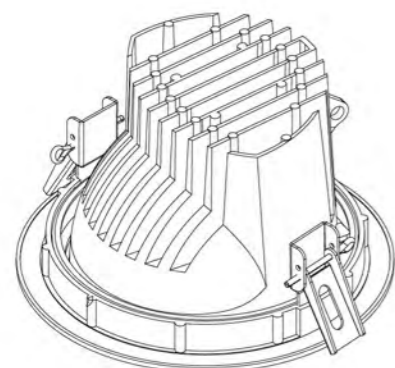
Compatible with 40W CDM

Energy cost savings **80%**



Lux (Typ.)

m	50°	CW	NW	WW
1		14000	14000	14000
2		3500	3500	3500
3		1555	1555	1555



Part Number	Beam Angle	Field Angle	CCT(Typ.)	Lux*@ 1m (Typ.)	Lm (Typ.)
ETL-357100			6000K	14000	3000
ETL-357200	25°	50°	4000K	14000	3000
ETL-357300			3000K	14000	3000

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)

2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.



## LED Downlight Series | 40W Panel Light

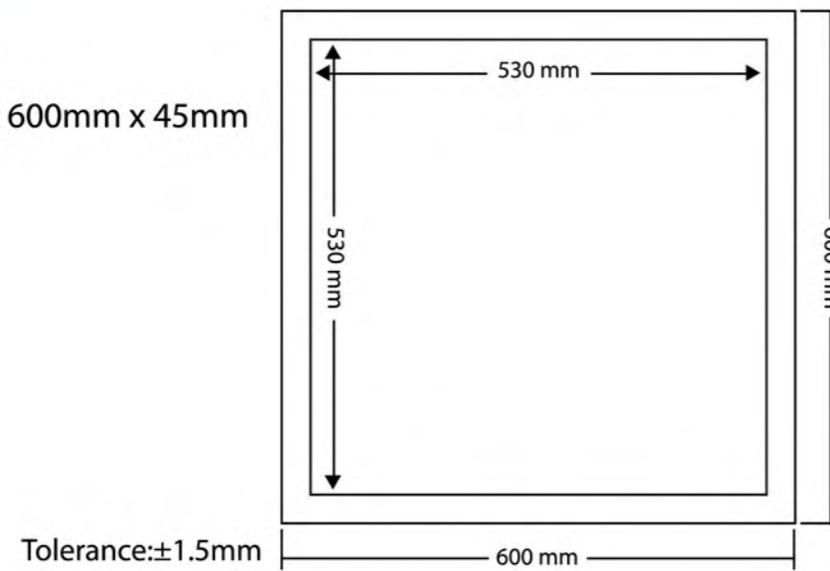
40W Panel Light



- ✦ AC 90-264V 50/60Hz
- ✦ CRI : 70
- ✦ Weight : 2850 ± 10 g
- ✦ Finished Colors : White

### 40W Panel Light

600mm x 600mm x 45mm



Part Number	Field Angle	CCT(Typ.)	Lm (Typ.)
Panel Light-401100	140°	6000K	3100

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)  
2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.



## Cylinder Series | 9W Track Light

9W Track Light

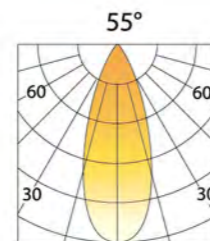
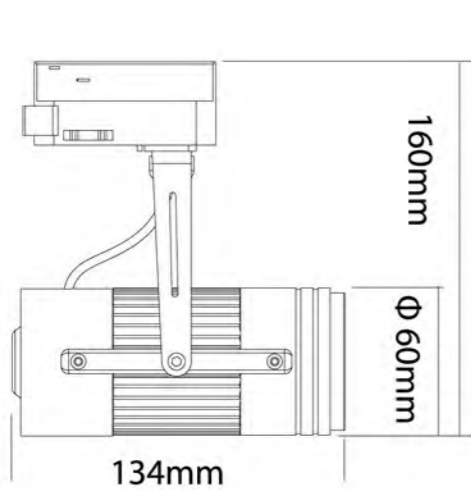


- AC 200-240V ,50HZ
- CRI :90
- Weight : 460 ± 5 g (Track Light)
- Finished Colors : White



- Flux @ Warm White 600 lm
- Up to 67 lm/W
- CRI 90

### Track Light



Lux (Typ.)

m	55°	CW	NW	WW
1		3300	3300	3300
2		825	825	825
3		367	367	367

### Track Light



Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
TL-EHR-095100x			6000K	3300	600
TL-EHR-095200x	24°	50°	4000K	3300	600
TL-EHR-095300x			3000K	3300	600



## Cylinder Series | 13W Track Light

13W Track Light

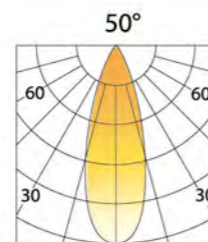
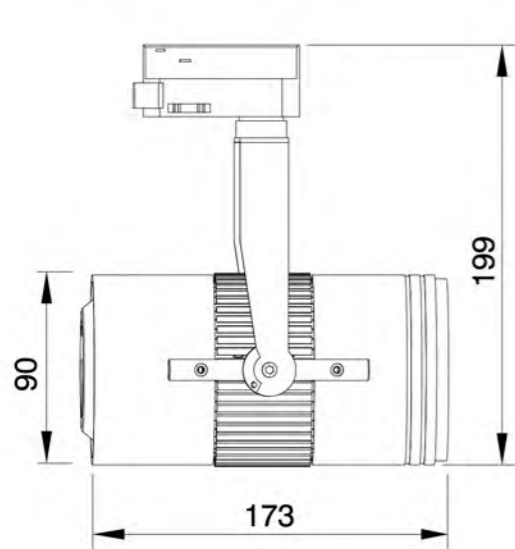


- AC 200-240 50Hz
- CRI :90
- Weight : 1040 ± 5 g
- Finished Colors : White



- Flux @ Warm White **950lm**
- Up to **75lm/W**
- CRI **90**

### Track Light



Lux (Typ.)

m	50°	CW	NW	WW
1		3000	750	335
2		750	188	84
3		333	83	37

### Track Light



Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
TL-EHR-135100x			6000K	3000	950
TL-EHR-135200x	24°	50°	4000K	750	950
TL-EHR-135300x			3000K	335	950





## Cylinder Series | 24W Track Light

24W Track Light

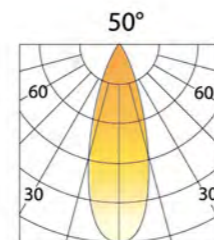
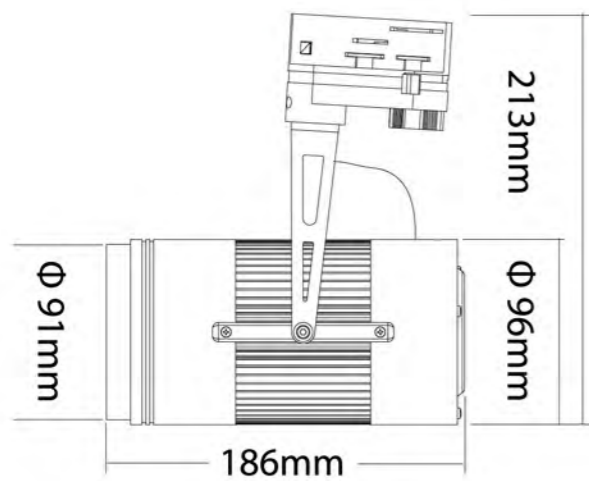


- AC 200-240 50Hz
- CRI :90
- Weight : 1480 ± 5 g (Track Light)
- Finished Colors : White



- Flux @ Warm White 1,800 lm
- Up to 75lm/W
- CRI 90

### Track Light



Lux (Typ.)

m	50°	CW	NW	WW
1	7500	7500	7500	
2	1875	1875	1875	
3	833	833	833	

### Track Light



Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
TL-EHR-245100x			6000K	7500	1800
TL-EHR-245200x	24°	50°	4000K	7500	1800
TL-EHR-245300x			3000K	7500	1800



## Low Voltage Lamp Series | 6W MR16

6W MR16



Dimmer

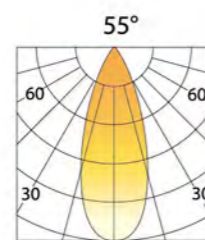


- AC/DC, 12V
- GU5.3 base
- CRI: CW70, NW75, WW80
- High performance CRI: CW75, NW80, WW80
- Weight : 45 ± 5 g
- Finished Colors : White

### 6W MR16

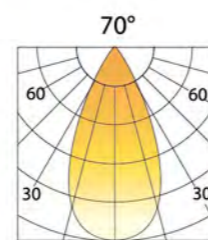
Compatible with 50W Halogen MR16

Energy cost savings **88%**



Lux (Typ.)

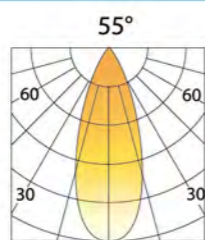
m	55°	CW	NW	WW
1	1200	1200	1200	1200
2	300	300	300	300
3	133	133	133	133



Lux (Typ.)

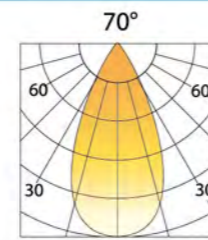
m	70°	CW	NW	WW
1	900	900	900	900
2	225	225	225	225
3	100	100	100	100

### High Performance



Lux (Typ.)

m	45°	CW	NW	WW
1	1650	1550	1360	
2	413	388	550	
3	183	172	151	



Lux (Typ.)

m	70°	CW	NW	WW
1	1150	1100	1050	
2	288	275	263	
3	128	122	117	

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
MR16-06510x			6000K	1200	390
MR16-06520x	25°	55°	4000K	1200	360
MR16-06530x			3000K	1200	330
MR16-06710x			6000K	900	390
MR16-06720x	38°	70°	4000K	900	360
MR16-06730x			3000K	900	330

### High Performance

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
MR16A-06510x			6000K	1650	580
MR16A-06520x	25°	55°	4000K	1550	500
MR16A-06530x			3000K	1360	430
MR16A-06710x			6000K	1150	580
MR16A-06720x	38°	70°	4000K	1100	500
MR16A-06730x			3000K	1050	430

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)

2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.



## Low Voltage Lamp Series | 10W AR111

10W AR111



Dimmer

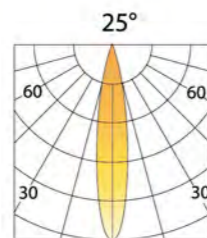
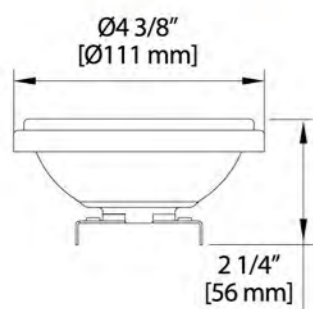


- AC/DC, 12V
- GU5.3 base
- CRI : CW70, NW75, WW80
- Weight : 190 ± 5 g
- Finished Colors : White , Silver , Black

### 10W AR111

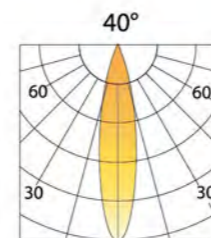
Compatible with 75W Halogen AR111(Lux)

Energy cost savings **86%**



Lux (Typ.)

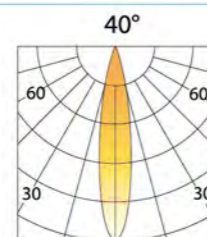
m	25°	CW	NW	WW
1	6000	5000	4200	
2	1500	1250	1050	
3	667	556	467	



Lux (Typ.)

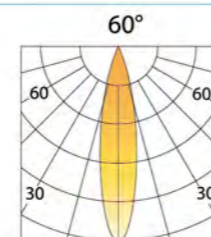
m	40°	CW	NW	WW
1	4300	4000	3100	
2	1075	1000	775	
3	478	445	345	

### High Performance



Lux (Typ.)

m	40°	CW	WW
1	6200	5200	
2	1550	1300	
3	689	578	



Lux (Typ.)

m	60°	CW	WW
1	2300	1800	
2	575	450	
3	256	200	

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
AR111-10210x			6000K	6000	650
AR111-10220x	18°	25°	4000K	5000	570
AR111-10230x			3000K	4200	450
AR111-10410x			6000K	4300	650
AR111-10420x	25°	40°	4000K	4000	570
AR111-10430x			3000K	3100	450

### High Performance

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
AR111B-10410x			6000K	6200	850
AR111B-10430x	20°	40°	3000K	5200	650
AR111B-10610x			6000K	2300	850
AR111B-10630x	36°	60°	3000K	1800	650

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)  
2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.



## Low Voltage Lamp Series | 15W AR111

15W AR111



Dimmer

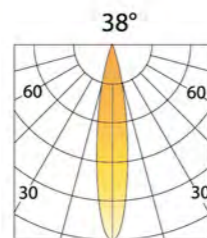
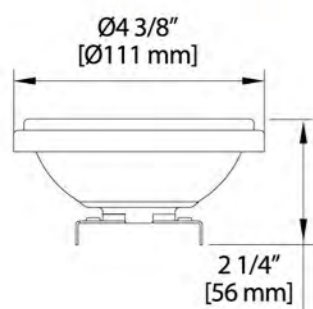


- High Power Factor > 0.9
- AC/DC, 12V
- GU5.3 base
- CRI : CW70, NW75, WW80
- High performance CRI: CW75, NW80, WW80
- Weight : 220 ± 5 g
- Finished Colors : Silver

### 15W AR111

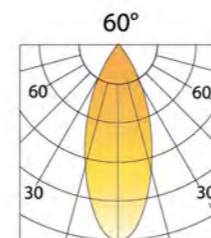
Compatible with 75W Halogen AR111(Lm)

Energy cost savings **86%**



Lux (Typ.)

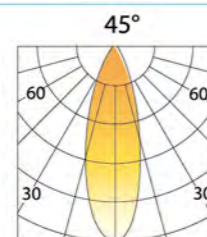
m	38°	CW	NW	WW
1	10100	6400	6000	
2	2500	1600	1500	
3	1100	720	670	



Lux (Typ.)

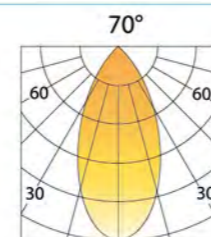
m	60°	CW	NW	WW
1	3000	1850	1740	
2	750	460	435	
3	300	200	190	

### High Performance



Lux (Typ.)

m	45°	CW	NW	WW
1	5700	5200	4600	
2	1425	1300	1150	
3	633	577	511	



Lux (Typ.)

m	70°	CW	NW	WW
1	2100	1900	1800	
2	525	475	450	
3	233	211	200	

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
AR111-15210x			6000K	10100	900
AR111-15220x	20°	38°	4000K	6400	800
AR111-15230x			3000K	6000	750
AR111-15210x			6000K	3000	900
AR111-15210x	40°	60°	4000K	1850	800
AR111-15210x			3000K	1740	750

### High Performance

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
AR111C-1541xx			6000K	5700	1050
AR111C-1542xx	25°	45°	4000K	5200	950
AR111C-1543xx			3000K	4600	900
AR111C-1571xx			6000K	2100	1050
AR111C-1572xx	38°	70°	4000K	1900	950
AR111C-1573xx			3000K	1800	900

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)

2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.



## LED Lamp Series | 12W PAR30F

12W PAR30F



Dimmer

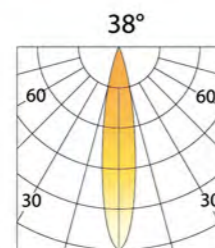
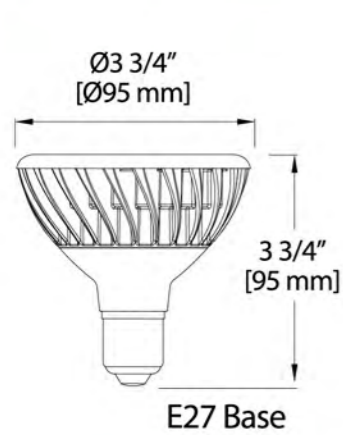


- ▣ AC 100~120V / AC 220~240V
- ▣ E26 , E27 base
- ▣ CRI : CW 80, NW 75, WW 70
- ▣ High Performance CRI: CW 75, NW 80, WW 80
- ▣ Dimming Range : 20 ~ 100%
- ▣ Weight : 300 ± 5 g
- ▣ Finished Colors : White

### 12W PAR30F

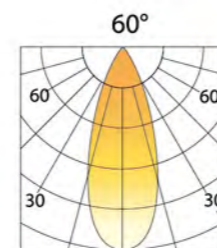
Compatible with 75W Halogen PAR30

Energy cost savings **84%**



Lux (Typ.)

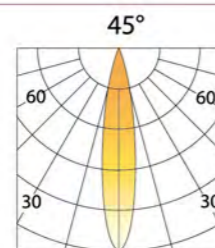
m	38°	CW	NW	WW
1	5500	4600	3600	
2	1375	1150	900	
3	612	512	400	



Lux (Typ.)

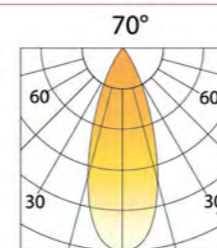
m	60°	CW	NW	WW
1	1750	1500	1200	
2	438	375	300	
3	195	167	133	

### High Performance



Lux (Typ.)

m	45°	CW	NW	WW
1	4800	4300	4000	
2	1200	1075	1000	
3	533	478	444	



Lux (Typ.)

m	70°	CW	NW	WW
1	1600	1500	1300	
2	400	375	325	
3	178	167	144	

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
PAR30F-1231xx			6000K	5500	700
PAR30F-1232xx	20°	38°	4000K	4600	600
PAR30F-1233xx			3000K	3600	500
PAR30F-1261xx			6000K	1750	700
PAR30F-1262xx	40°	60°	4000K	1500	600
PAR30F-1263xx			3000K	1200	500

### High Performance

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
PAR30FC-1241xx			6000K	4800	1020
PAR30FC-1242xx	25°	45°	4000K	4300	940
PAR30FC-1243xx			3000K	4000	850
PAR30FC-1271xx			6000K	1600	1020
PAR30FC-1272xx	38°	70°	4000K	1500	940
PAR30FC-1273xx			3000K	1300	850

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)

2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.

Clothing store/Philippines



## LED Lamp Series | 17W PAR38F

17W PAR38F



Dimmer

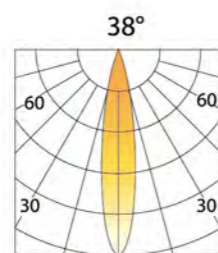


- AC 100~120V / AC 220~240V
- E26 , E27 base
- CRI : CW 70, NW 75, WW 80
- High Performance CRI: CW 70, NW 80, WW 80
- Dimming Range : 20 ~ 100%
- Weight : 500 ± 5 g
- Finished Colors : White

### 17W PAR38F

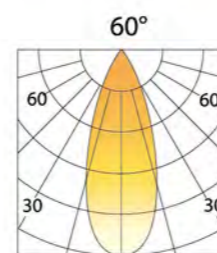
Compatible with 75W Halogen PAR30

Energy cost savings **86%**



Lux (Typ.)

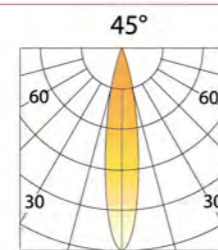
m	38°	CW	NW	WW
1	7000	6000	5500	
2	1750	1500	1375	
3	778	667	612	



Lux (Typ.)

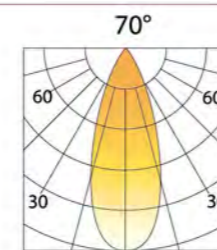
m	60°	CW	NW	WW
1	2700	2000	1800	
2	450	400	350	
3	200	178	156	

### High Performance



Lux (Typ.)

m	45°	CW	NW	WW
1	6700	6200	5500	
2	1675	1550	1375	
3	744	688	611	



Lux (Typ.)

m	70°	CW	NW	WW
1	2400	2200	2000	
2	600	550	500	
3	266	244	222	

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
PAR38F-1231xx			6000K	7000	1000
PAR38F-1232xx	20°	38°	4000K	6000	900
PAR38F-1233xx			3000K	5500	700
PAR38F-1261xx			6000K	2700	1000
PAR38F-1262xx	40°	60°	4000K	2000	900
PAR38F-1263xx			3000K	1800	700

### High Performance

Part Number	Beam Angles	Field Angles	CCT	Lux@1m (Typ.)	Lm(Typ.)
PAR38FC-1241xx			6000K	6700	1400
PAR38FC-1242xx	25°	45°	4000K	6200	1300
PAR38FC-1243xx			3000K	5500	1150
PAR38FC-1271xx			6000K	2400	1400
PAR38FC-1272xx	38°	70°	4000K	2200	1300
PAR38FC-1273xx			3000K	2000	1150

Notes: 1. The photometric datas were measured at initial state. (T<sub>a</sub>=25°C)  
2. Specifications are subject to change without notice. Please refer to the datasheets for final specifications.

## Suggestion Driver List (Non Dimming)

P.S. S : Series, P : Parallel

Driver Item	Specifications	5W TD16	7W TD16	7W TD20	12W TD20	15W TD36	20W TD36	10W TD26	15W TD32	15W TD32 HR
TD16-driver-001	AC 100-240V DC 3-30V 0.35A CC	1S								
TD16-driver-005	AC 100-240V DC 9-36V 0.35A CC	1S								
TD20-driver-001	AC 100-240V DC 3-34V 0.3A CC			1S						
TD20-driver-002	AC 100-240V DC 9-42V 0.3A CC			1S						
TD26-driver-002	AC 100-240V DC 3-24V 0.5A CC		1S					1S		
10W TD26 / 7W TD16 / 12W TD20-driver-002	AC 100-240V DC 9-28V 0.5A CC		1S		1S			1S		
TD26-driver-004	AC 100-240V DC 9-24V 0.5A CC		1S					1S		
TD32/36-driver-003	AC 100-240V DC 18-24V 0.7A CC					1S			1S	
TD32/36-driver-005	AC 100-240V DC 9-24V 0.7A CC					1S			1S	
TD32/36-driver-001	AC 100-240V DC 12-24V 0.7A CC					1S			1S	
20W TD36-driver-001	AC 100-240V DC 17-24V 10.5A CC						1S			
15W TDHR-driver-001	AC 100-240V DC 12-48V 0.35A CC	1S								1S
17W Cylinder HR -C.C. driver-1	AC 100-240V DC 15-50V 0.5A CC				1S			1S		

Driver Item	Specifications	15W 4" Downlight	25W 6" 8" Downlight	30W 6" 8" HR Downlight	35W 8" Downlight	50W 8" Downlight	40W 8" HR Downlight
4" 15W driver-001	AC 100-277V DC 11.2-15V 1.05A CC	1S					
4" 15W driver-005	AC 100-277V DC 11-18V 1A CC	1S					
6" 25W driver-001	AC 100-277V DC 12-18V 1.3A CC		1S				
6" 8" HR 30W driver-002	AC 100-240V DC 25.2-39V 700mA CC			1S			
6" 8" 25W driver-004	AC 100-277V DC 14-20V 1.3A CC		1S				
8" 35W driver-001	AC 100-277V DC 14-20V 1.5A CC				1S		
8" 50W driver-004	AC 100-277V DC 18-24V 2A CC					1S	
8" 40W driver-002	AC 100-240V DC 27-39V 1.05A CC						1S

## Suggestion Driver List (Non Dimming)

P.S. S : Series, P : Parallel

Driver Item	Specifications	3W MR16	4W MR16	6W MR16	10W AR111	15W AR111
LB-MR16-000004	18W AC 115V DC 12V CV	1-4P	1-3P	1-2P	1P	1P
LB-MR16-000003	18W AC 230V DC 12V CV	1-4P	1-3P	1-2P	1P	1P
Electronic transformer-1	70W AC 220-240V AC 12V CV	1-8P	1-4P	1P	1-2P	
MR16/AR111 constant Vol driver-1	12W AC 100-240V DC 12V CV	1-3P	1-2P	1P	1P	

## Suggestion Driver List ( EU ) (Non Dimming)

Driver Item	Specifications	5W TD16	7W TD20	10W TD26	15W TD32	15W TD36
5W TD16/7W TD20-C.C. driver-1	AC 220-240V /2-34V 0.35A CC	1-2S	1S			
7W TD16/12W TD20-C.C. driver-1	AC 220-240V /2-24V 0.5A CC			1S		
15W TD32/36W -C.C. driver-1	AC 220-240V /2-29V 0.7A CC				1S	1S
15W TD HR -C.C. driver-1	AC 220-240V /2-58V 0.35A CC	1-3S	1-2S			

## Suggestion Driver List (Dimming)

Driver Item	Specifications	3W MR16	4W MR16	6W MR16	10W AR111	15W AR111
TD16-driver-004	AC100-120V DC16-24V 0.35A CC				1S	
10W TD28/7W TD16/12W TD20-driver-001	AC100-120V DC16-28V 0.5A CC					1S
TD16-driver-003	AC220-240V DC6-26V 0.35A CC	1-2S	1-2S			
TD16-driver-006	AC220-240V DC18-35V 0.35A CC				1S	1S
TD16-driver-002	AC220-240V DC15-52V 0.35A CC				1-2S	

1-10V Dimming  
TRIAC Dimming

## Suggestion Driver List (Dimming)

Driver Item	Specifications	5W TD16	7W TD16	7W TD20	12W TD20	15W TD36	20W TD36	10W TD26	15W TD32	15W TD HR
TD series-driver -1-10V-001	AC 220-240V DC 43-63V 0.25-0.7A CC	1-4S 350mA	1-2S 500mA	1-2S 350mA	1S 500mA	1-2S 700mA		1-2S 500mA	1-2S 700mA	1S 350mA
20W TD36-driver-004	AC 100-240V DC 13-23V1A CC						1S			

## Suggestion Driver List ( Dimming )

P.S. S : Series, P : Parallel

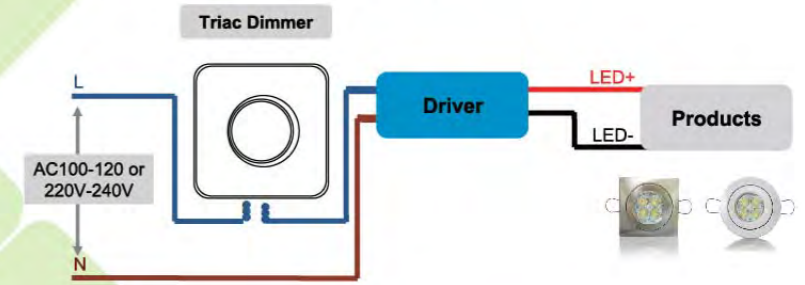
Driver Item	Specifications	5W TD16	7W TD16	7W TD20	12W TD20	15W TD36	20W TD36	10W TD26	15W TD32	15W TD HR
TD16-driver-003	AC 220-240V DC 6-26V 0.35A CC	1S		1S						
TD16-driver-004	AC 100-120V DC 16-24V 0.35A CC			1S						
TD16-driver-002	AC 220-240V DC 15-52V 0.35A CC			1-2S						1S
TD26-driver-003	AC 220-240V DC 9-36V 0.5A CC		1S		1S			1S		
10W TD26 / 7W TD16 / 12W TD20-driver-001	AC 100-120V DC 16-28V 0.5A CC				1S			1S		
TD32/36-driver-002	AC 220-240V DC 6-26V 0.7A CC					1S			1S	
TD32/36-driver-004	AC 100-120V DC 16-24V 0.7A CC					1S			1S	
20W TD36-driver-003	AC 100-120V DC 16-24V 1.05A CC						1S			
20W TD36-driver-002	AC 220-240V DC 16-35V 1.05A CC						1S			

Driver Item	Specifications	15W 4" Downlight	25W 6" 8" Downlight	30W 6" 8" HR Downlight	35W 8" Downlight	50W 8" Downlight	40W 8" HR Downlight
20W TD36-driver-004	AC 100-240V DC 13-23V 1A CC	1S					
20W TD36-driver-002	AC 220-240V DC 16-35V 1.05A CC	1S					
8" 25W driver-004	AC 100-277V DC 15-24V 1.3A CC		1S				
8" 35W driver-004	AC 100-277V DC 15-24V 1.5A CC				1S		
8" 50W driver-006	AC 100-277V DC 15-24V 2A CC					1S	
8"HR 40W driver-004	AC 220-240V DC 24-36V 1.0A						1S
8"HR 40W driver-001	AC 100-277V DC 21.6-39V 1.05A CC						1S
8"HR 40W driver-003	AC 100-277V DC 26-42V 1.05A CC						1S
6" 8" HR 30W driver-001	AC 100-277V DC 25.2-42V 0.7A CC			1S			
6" 8" HR 30W driver-003	AC 100-240V DC 30-50V 0.7A CC			1S			
TD series-driver-1-10V-001	AC 220-240V DC 43-63V 0.25-0.7A CC			1S			
6" 8" HR 30W driver-004	AC 220-240V DC 28-50V 0.7A			1S			

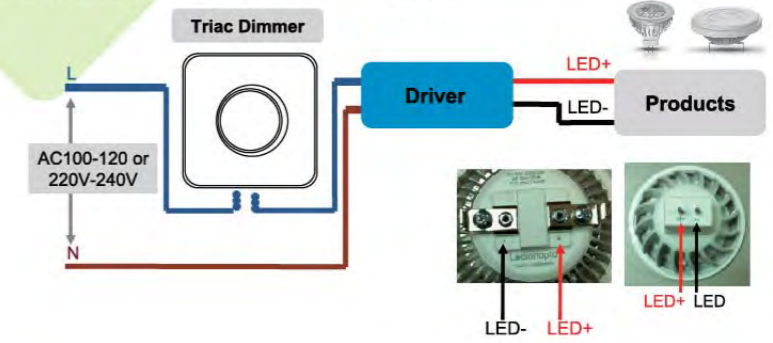
1-10V Dimming  
TRIAC Dimming

## Triac Dimming Connection Instruction

### TD Series / Downlight Series



### MR16 Series / AR111 Series



## 1-10V Dimming Connection Instruction

### Downlight Series

