

LED Architectural Cylinder Downlight

MACD01



Indoor Architectural Cylinder Downlight MACD01 Series is a luminaire with endless possibilities. Whether you want to create a conspicuous effect or a low-key overhead effect, you can achieve it with multiple colors, mounting options, optics, beam angles, CCT and more. MACD01 is equipped with high-color-rendering LEDs (CRI 80/90), ensuring excellent color consistency. It provides smooth, uniform illumination of premium quality, creating a comfortable living experience for residents.



SPECIFICATION

Feature

- 3", 4", and 6" diameters.
- Black, white, silver gray, and any other custom-specified RAL finish.
- Durable aluminum heat sink dissipates LED module heat, boosting optical performance and service life.
- Seamless cylinder body with clean looks and field-interchangeable parts for easy installation.

Optics

- Scalable lumen packages range from 760 to 4,000 lumens.
- 5 Field-Selectable CCTs: 2700K, 3000K, 3500K, 4000K, 5000K.
- CRI 80/90.
- Adjustable beam angle (18°–50°) with preset detents at 18°, 24°, 36°, and 50°.
- 5 Lens Options: Softening, Single-Side Wall Wash, Double-Side Wall Wash, Linear Spread, and Hex Louver.
- 3 Baffle Options: Vortex, Cross, and Wall Wash.
- UGR < 13.

Electrical

- Universal 120–277 VAC input voltage.
- 3 Field-Selectable Wattage Levels: 100%, 75%, 50%.
- 0–10V dimming standard with a 1%–100% dimming range.
- PF > 0.9, THD < 20%.
- Operating Temperature Range: -20°C to 40°C (-4°F to 104°F).

Mounting

- Surface Mount.
- Cord Pendant Mount.
- Stem Pendant Mount.
- Adjustable Surface Mount.

Certification

- UL and cUL listed for damp locations.
- Energy Star certified.

Warranty

- 5-year limited warranty.

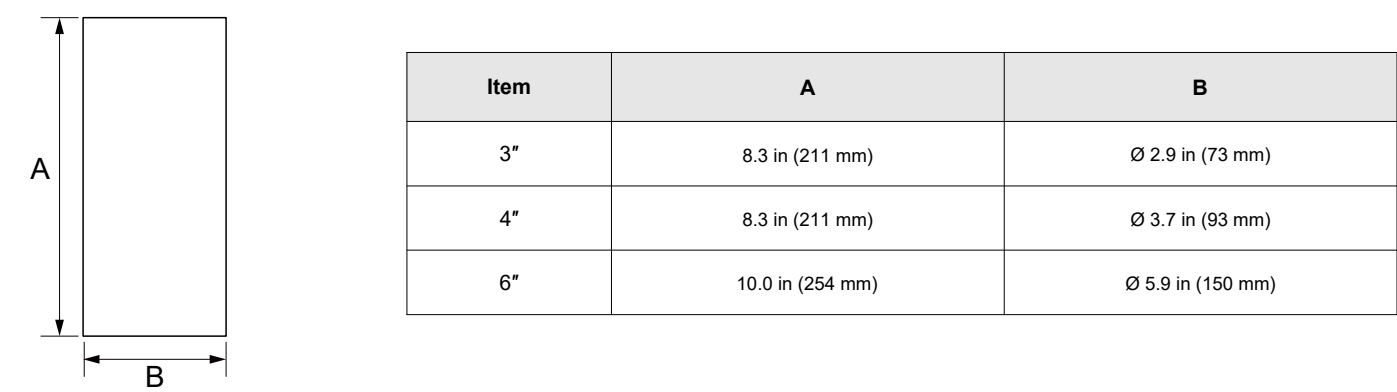
Lifespan

- Estimated LED lifespan (L70) ≥ 100,000 hours, based on IES TM-21 calculations at 25°C.

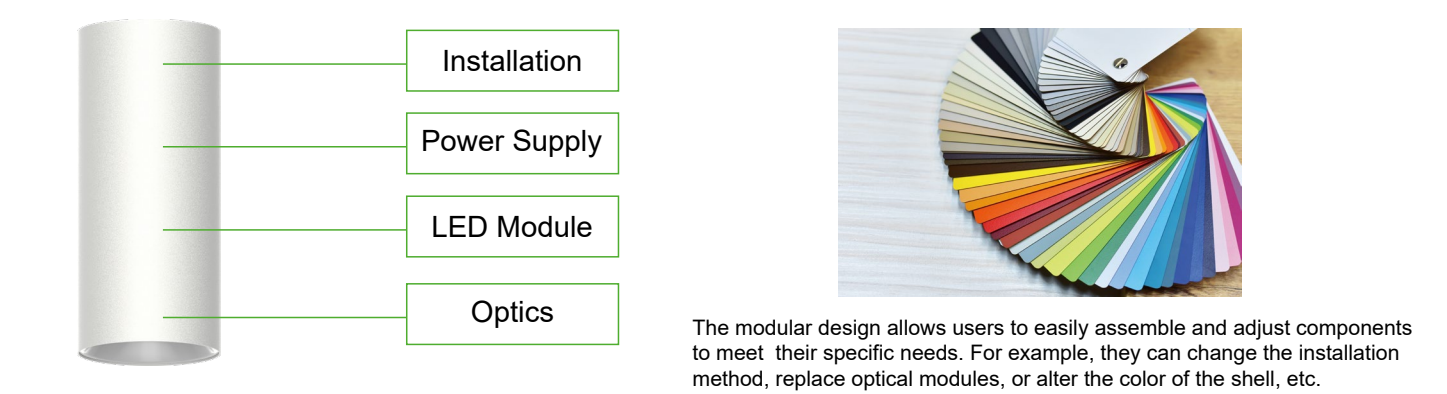
Note

- Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C (±5°C). Specifications are subject to change without notice.

DIMENSION



Modular Design and Multiple Colors are Available for Selection



ELECTRICAL DATA

Size	Number of Drivers	Driver Current(mA)	Setting	Wattage	Current(A)			
					120V	208V	240V	277V
3"	1	390	Lv1	15W	0.13	0.07	0.06	0.05
			Lv2	11W	0.09	0.05	0.05	0.04
			Lv3	8W	0.07	0.04	0.03	0.03
4"	1	630	Lv1	25W	0.21	0.12	0.10	0.09
			Lv2	19W	0.16	0.09	0.08	0.07
			Lv3	13W	0.11	0.06	0.05	0.05
6"	1	980	Lv1	40W	0.33	0.19	0.17	0.14
			Lv2	30W	0.25	0.14	0.13	0.11
			Lv3	20W	0.17	0.10	0.08	0.07

PERFORMANCE DATA

Size	Setting	Wattage	2700K(90CRI)		3000K(90CRI)		3500K(90CRI)		4000K(90CRI)		5000K(90CRI)	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
3"	Lv1	15W	1430 lm	95 lm/W	1430 lm	95 lm/W	1430 lm	95 lm/W	1500 lm	100 lm/W	1500 lm	100 lm/W
	Lv2	11W	1050 lm	95 lm/W	1050 lm	95 lm/W	1050 lm	95 lm/W	1100 lm	100 lm/W	1100 lm	100 lm/W
	Lv3	8W	760 lm	95 lm/W	760 lm	95 lm/W	760 lm	95 lm/W	800 lm	100 lm/W	800 lm	100 lm/W

Size	Setting	Wattage	2700K(90CRI)		3000K(90CRI)		3500K(90CRI)		4000K(90CRI)		5000K(90CRI)	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
4"	Lv1	25W	2380 lm	95 lm/W	2380 lm	95 lm/W	2380 lm	95 lm/W	2500 lm	100 lm/W	2500 lm	100 lm/W
	Lv2	19W	1800 lm	95 lm/W	1800 lm	95 lm/W	1800 lm	95 lm/W	1900 lm	100 lm/W	1900 lm	100 lm/W
	Lv3	13W	1240 lm	95 lm/W	1240 lm	95 lm/W	1240 lm	95 lm/W	1300 lm	100 lm/W	1300 lm	100 lm/W

Size	Setting	Wattage	2700K(90CRI)		3000K(90CRI)		3500K(90CRI)		4000K(90CRI)		5000K(90CRI)	
			Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
6"	Lv1	40W	3800 lm	95 lm/W	3800 lm	95 lm/W	3800 lm	95 lm/W	4000 lm	100 lm/W	4000 lm	100 lm/W
	Lv2	30W	2850 lm	95 lm/W	2850 lm	95 lm/W	2850 lm	95 lm/W	3000 lm	100 lm/W	3000 lm	100 lm/W
	Lv3	20W	1900 lm	95 lm/W	1900 lm	95 lm/W	1900 lm	95 lm/W	2000 lm	100 lm/W	2000 lm	100 lm/W

FIELD-SELECTABLE WATTAGE AND CCT



Selectable Wattage

Lv1

Lv2

Lv3

Selectable CCT

2700K

3000K

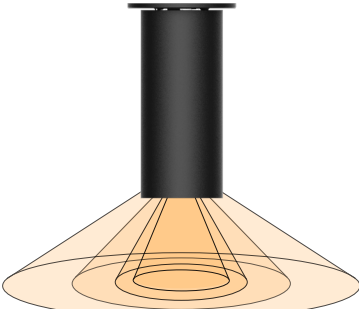
3500K

4000K

5000K

ADJUSTABLE BEAM ANGLE

Stepless beam angle adjustment (18°–50°), complemented by 4 preset detents for rapid deployment.

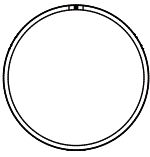
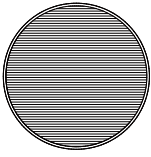
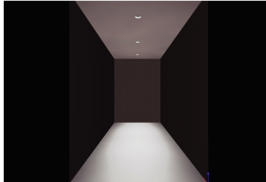
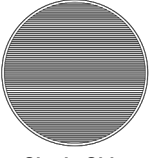
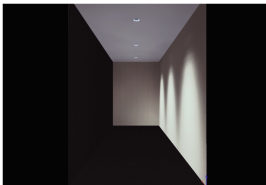
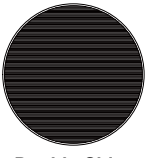
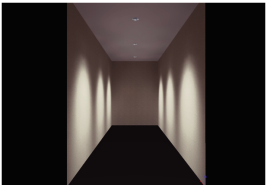
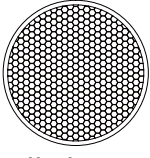


VERY NARROW FLOOD	NARROW FLOOD	MEDIUM FLOOD	WIDE FLOOD
			
18°	24°	36°	50°

LENS

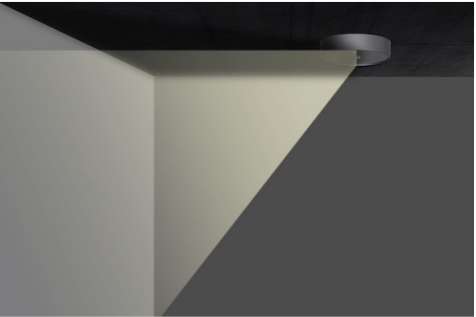
By changing different optical lenses, the cylinder light can achieve various lighting effects.

Choosing different lenses to achieve various effects—such as a Linear Lens (to elongate the beam for wall illumination), a Hexcell Lens (for further glare reduction), or a Softening Lens (for light diffusion)—enhances its performance.

 Softening	 Casts uniform, soft, and comfortable light.	 Linear Spread	 Elongating the beam changes the light type from a circular spot to a rectangular spot.		
 Single-Side Wall Wash Lens	 The light type changes from a circular spot to a soft, uniform wash of light on the wall.	 Double-Side Wall Wash Lens	 The light type changes from circular spots to a soft, uniform wash of light on both sides of the wall.	 Hex Louver	 Provides focused lighting with reduced glare (UGR < 9).

BAFFLE

The cylinder features a universal housing that allows adding different baffles to achieve various light distributions.

 Vortex Baffle	 Cross Baffle	 Wall Wash Baffle
The Vortex Baffle casts a uniform, comfortable light free of harsh shadows.	The Cross Baffle delivers focused, glare-free lighting.	The Wash Baffle allows for a soft, uniform wash of light on the wall.
		

MOUNTING

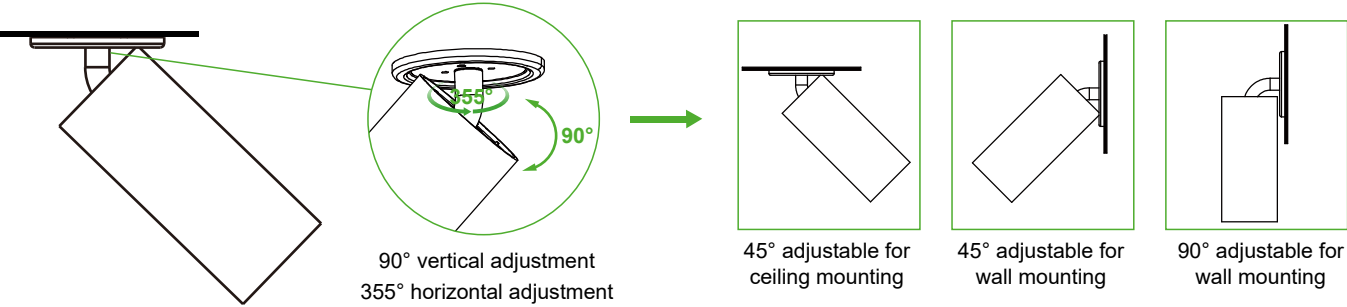
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Surface Mount
- 2

Cord Pendant Mount
- 3

Stem Pendant Mount
- 4

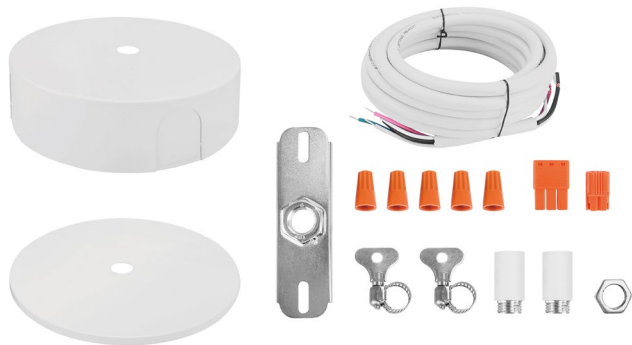
Adjustable Surface Mount



MOUNTING ACCESSORY

1 SURFACE MOUNT KIT	• MACD01-3/4I-SM-Kit-W ACD01_3"/4" _Surface Mount Kit_White • MACD01-3/4I-SM-Kit-B ACD01_3"/4" _Surface Mount Kit_Black • MACD01-3/4I-SM-Kit-SG ACD01_3"/4" _Surface Mount Kit_Silver Gray	• MACD01-6I-SM-Kit-W ACD01_6" _Surface Mount Kit_White • MACD01-6I-SM-Kit-B ACD01_6" _Surface Mount Kit_Black • MACD01-6I-SM-Kit-SG ACD01_6" _Surface Mount Kit_Silver Gray
2 ADJUSTABLE SURFACE MOUNT KIT	• MACD01-3I-AS-Kit-W ACD01_3" _Adjustable Surface Mount Kit_White • MACD01-3I-AS-Kit-B ACD01_3" _Adjustable Surface Mount Kit_Black • MACD01-3I-AS-Kit-SG ACD01_3" _Adjustable Surface Mount Kit_Silver Gray	• MACD01-4I-AS-Kit-W ACD01_4" _Adjustable Surface Mount Kit_White • MACD01-4I-AS-Kit-B ACD01_4" _Adjustable Surface Mount Kit_Black • MACD01-4I-AS-Kit-SG ACD01_4" _Adjustable Surface Mount Kit_Silver Gray

3 7FT CORD PENDANT MOUNT KIT



- MACD01-3/4I-CM-Kit-7F-W
ACD01_3/4" Cord Pendant Mount Kit_7Ft_White

- MACD01-6I-CM-Kit-7F-W
ACD01_6" Cord Pendant Mount Kit_7Ft_White

- MACD01-3/4I-CM-Kit-7F-B
ACD01_3/4" Cord Pendant Mount Kit_7Ft_Black

- MACD01-6I-CM-Kit-7F-B
ACD01_6" Cord Pendant Mount Kit_7Ft_Black

- MACD01-3/4I-CM-Kit-7F-SG
ACD01_3/4" Cord Pendant Mount Kit_7Ft_Silver Gray

- MACD01-6I-CM-Kit-7F-SG
ACD01_6" Cord Pendant Mount Kit_7Ft_Silver Gray

4 12FT CORD PENDANT MOUNT KIT



- MACD01-3/4I-CM-Kit-12F-W
ACD01_3/4" Cord Pendant Mount Kit_12Ft_White

- MACD01-6I-CM-Kit-12F-W
ACD01_6" Cord Pendant Mount Kit_12Ft_White

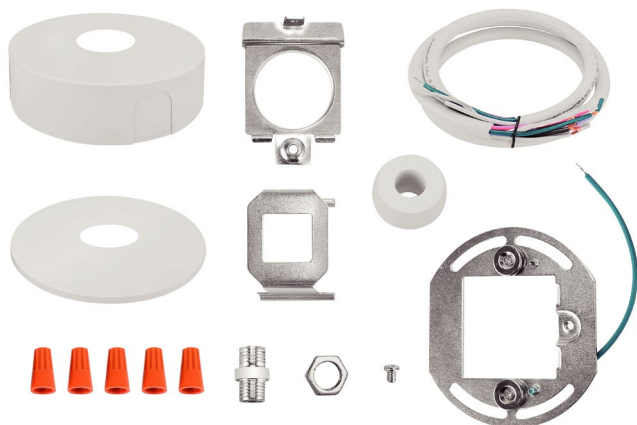
- MACD01-3/4I-CM-Kit-12F-B
ACD01_3/4" Cord Pendant Mount Kit_12Ft_Black

- MACD01-6I-CM-Kit-12F-B
ACD01_6" Cord Pendant Mount Kit_12Ft_Black

- MACD01-3/4I-CM-Kit-12F-SG
ACD01_3/4" Cord Pendant Mount Kit_12Ft_Silver Gray

- MACD01-6I-CM-Kit-12F-SG
ACD01_6" Cord Pendant Mount Kit_12Ft_Silver Gray

5 STEM PENDANT MOUNT KIT



- MACD01-3/4I-ST-Kit-7F-W
ACD01_3/4" Stem Pendant Mount Kit_7Ft_White

- MACD01-6I-ST-Kit-7F-W
ACD01_6" Stem Pendant Mount Kit_7Ft_White

- MACD01-3/4I-ST-Kit-7F-B
ACD01_3/4" Stem Pendant Mount Kit_7Ft_Black

- MACD01-6I-ST-Kit-7F-B
ACD01_6" Stem Pendant Mount Kit_7Ft_Black

- MACD01-3/4I-ST-Kit-7F-SG
ACD01_3/4" Stem Pendant Mount Kit_7Ft_Silver Gray

- MACD01-6I-ST-Kit-7F-SG
ACD01_6" Stem Pendant Mount Kit_7Ft_Silver Gray

6 STEM PENDANT POLE



- MACD01-ST-1F-W
ACD01_Stem Pendant Mount _1Ft Long Poles_White

- MACD01-ST-2F-W
ACD01_Stem Pendant Mount _2Ft Long Poles_White

- MACD01-ST-1F-B
ACD01_Stem Pendant Mount _1Ft Long Poles_Black

- MACD01-ST-2F-B
ACD01_Stem Pendant Mount _2Ft Long Poles_Black

- MACD01-ST-1F-SG
ACD01_Stem Pendant Mount _1Ft Long Poles_Silver Gray

- MACD01-ST-2F-SG
ACD01_Stem Pendant Mount _2Ft Long Poles_Silver Gray

7 SOFTENING LENS



- MACD01-3I-S
ACD01_3"_Softening Lens

- MACD01-4I-S
ACD01_4"_Softening Lens

- MACD01-6I-S
ACD01_6"_Softening Lens

8 LINEAR SPREAD LENS



- MACD01-3I-LS
ACD01_3"_Linear Spread Lens

- MACD01-4I-LS
ACD01_4"_Linear Spread Lens

- MACD01-6I-LS
ACD01_6"_Linear Spread Lens

9 SINGLE-SIDE WALL WASH LENS



- MACD01-3I-SW
ACD01_3"_Single Side Wall Wash Lens

- MACD01-4I-SW
ACD01_4"_Single Side Wall Wash Lens

- MACD01-6I-SW
ACD01_6"_Single Side Wall Wash Lens

10 DOUBLE-SIDE WALL WASH LENS

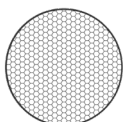


- MACD01-3I-DW
ACD01_3"_Double Side Wall Wash Lens

- MACD01-4I-DW
ACD01_4"_Double Side Wall Wash Lens

- MACD01-6I-DW
ACD01_6"_Double Side Wall Wash Lens

11 HEX LOUVER LENS



- MACD01-3I-HL-B
ACD01_3"_Hex Louver Lens_Black

- MACD01-4I-HL-B
ACD01_4"_Hex Louver Lens_Black

- MACD01-6I-HL-B
ACD01_6"_Hex Louver Lens_Black

12 VORTEX BAFFLE



- MACD01-3I-VB-W
ACD01_3"_Vortex Baffle_White

- MACD01-4I-VB-W
ACD01_4"_Vortex Baffle_White

- MACD01-6I-VB-W
ACD01_6"_Vortex Baffle_White

- MACD01-3I-VB-B
ACD01_3"_Vortex Baffle_Black

- MACD01-4I-VB-B
ACD01_4"_Vortex Baffle_Black

- MACD01-6I-VB-B
ACD01_6"_Vortex Baffle_Black

- MACD01-3I-VB-SG
ACD01_3"_Vortex Baffle_Silver Gray

- MACD01-4I-VB-SG
ACD01_4"_Vortex Baffle_Silver Gray

- MACD01-6I-VB-SG
ACD01_6"_Vortex Baffle_Silver Gray

- MACD01-3I-VB-S
ACD01_3"_Vortex Baffle_Bright Silver

- MACD01-4I-VB-S
ACD01_4"_Vortex Baffle_Bright Silver

- MACD01-6I-VB-S
ACD01_6"_Vortex Baffle_Bright Silver

- MACD01-3I-VB-GB
ACD01_3"_Vortex Baffle_Gun Black

- MACD01-4I-VB-GB
ACD01_4"_Vortex Baffle_Gun Black

- MACD01-6I-VB-GB
ACD01_6"_Vortex Baffle_Gun Black

- MACD01-3I-VB-CG
ACD01_3"_Vortex Baffle_Champagne Gold

- MACD01-4I-VB-CG
ACD01_4"_Vortex Baffle_Champagne Gold

- MACD01-6I-VB-CG
ACD01_6"_Vortex Baffle_Champagne Gold

13 CROSS BAFFLE



- MACD01-3I-CB-W
ACD01_3" _Cross Baffle
_White

- MACD01-3I-CB-B
ACD01_3" _Cross Baffle
_Black

- MACD01-3I-CB-SG
ACD01_3" _Cross Baffle
_Silver Gray

- MACD01-4I-CB-W
ACD01_4" _Cross Baffle
_White

- MACD01-4I-CB-B
ACD01_4" _Cross Baffle
_Black

- MACD01-4I-CB-SG
ACD01_4" _Cross Baffle
_Silver Gray

- MACD01-6I-CB-W
ACD01_6" _Cross Baffle
_White

- MACD01-6I-CB-B
ACD01_6" _Cross Baffle
_Black

- MACD01-6I-CB-SG
ACD01_6" _Cross Baffle
_Silver Gray

14 WALL WASH BAFFLE



- MACD01-3I-WB-S
ACD01_3" _Wall Wash Baffle
_Bright Silver

- MACD01-4I-WB-S
ACD01_4" _Wall Wash Baffle
_Bright Silver

ORDERING GUIDE

Example: MACD01 6 40W 27V DDK Y Y Y Y Y Y Y

Fixture Type	Size	Power	Voltage	CCT	Finish	CRI	Beam Angle	Lens	Baffle Finish	Mounting	Internal Code
MACD01 Architectural Cylinder Downlight Series	3 3 inch	15W 15Watts	27V 120-277V	DDK	B	H 80 Y 90	18 18 Degrees	S	VB Vortex Baffle	SM	Blank Alphanumeric
	4 4 inch	25W 25Watts		Selectable	Black		24 24 Degrees	Softening Lens	CB Cross Baffle	Surface Mount	
	6 6 inch	40W 40Watts		Color	W		36 36 Degrees	LS	WB Wall Wash Baffle	CM7	
				Temperature	White		50 50 Degrees	Linear Spread Lens	7ft Cord Pendant Mount		
				27K 2700K	SG		AT 18-50 Degrees	SW	CM12		
30K 3000K	Silver Gray	Adjustable	Single Side Wall	12ft Cord Pendant Mount							
35K 3500K							Wash Lens	DW	ST1	1ft Stem Pendant Mount	
40K 4000K								Double Side Wall	ST2	2ft Stem Pendant Mount	
50K 5000K								Wash Lens	ST7	7ft Stem Pendant Mount	
								HL		AS	
								Hex Louver Lens		Adjustable Surface Mount	
								Blank		Blank	
								Without Lens			