



iColor MR g2

Intelligent RGB MR16 LED lamp for intense, saturated bursts of color

PHILIPS

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iColor® MR g2 is an intelligent, color-changing lamp that delivers intense, saturated bursts of color and color-changing effects. The stylish silver housing fits into most standard MR16 fixtures, including tracks, cables, rails, and pendants. High-intensity LEDs, two beam angles, and interchangeable clear and frosted lenses make iColor MR g2 suitable for a wide-range of architectural, theatrical, and retail applications.

- Compatible with most MR16 fixtures and sockets — With its standard GU5.3 base and two-pin MR16 connector, iColor MR g2 is compatible with most MR16 tracks, rails, cables, and pendant fixtures. An optional adapter ring is available to fit iColor MR g2 lamps in MR16 fixtures requiring a thin flange around the face of the lamp.
- Standard wiring and simple installation — iColor MR g2 lamps work with standard 2-conductor jacketed cable or hook-up wire. Power / data supplies specifically designed for use with iColor MR g2 use patented SmartJuice technology to multiplex power and data onto a two-wire circuit for use with conventional MR16 fixtures and sockets.
- Clear and frosted lenses — Each iColor MR g2 comes with clear and frosted lenses. Use the clear lens where you need a spot of light with sharply defined edges, and the frosted lens for a wider, softer spread of light with gradual diffusion and blending.
- Efficient and cost-effective — iColor MR g2 is easily adaptable to a wide range of interior environments where MR16 fixtures are commonly used. With long useful source life (50% lumen maintenance at 50,000 hours), low power draw (5 W), and low maintenance, iColorMR g2 lamps cost significantly less to own and operate than conventional MR16 lamps.
- Industry-leading controls — iColor MR g2 works seamlessly with the complete Philips Color Kinetics line of controllers, including iPlayer 3 and Light System Manager, as well as third-party DMX controllers.



Two Beam Angles

Available in 60° and 24° beam angles for a wide range of spot and narrow flood applications.

Lighting It Up with iColor MR g2

iColor MR g2 intelligent color-changing lamps can be used for stunning effect wherever conventional MR16 lamps are used — from cruise ships to casinos to museums and entertainment complexes,

Costa Concordia

Costa Concordia joined the fleet of Italy's Costa Cruise line in 2006, offering all the comforts of a floating palace with meticulous detail to its stylish design. It is the largest and longest ship among the fleet, and its visually striking interior features multiple applications of LED lighting technology.



As shown on the cover, the ship's main atrium dazzles passengers with custom-designed chandeliers that resemble glowing, colorful sea urchins. The chandeliers are illuminated by 1,250 iColor MR g2 lamps. Each lamp is individually controlled to generate dynamic, color-changing effects. iColor MR g2 lamps were also used to bring color to the more traditional crystal chandeliers that adorn the ship's disco (shown above).



eyecandy sound lounge and bar

Located in the center of Mandalay Bay's casino floor, eyecandy sound lounge & bar is a contemporary twist on the typical Las Vegas lounge, featuring an inviting atmosphere with an ever-changing landscape enabled by full-color LED lighting.

To create a unique vibe, the lighting designer decided to accentuate various areas of the lounge with color-changing effects. He created four glowing Party Pods — circular seating areas that give patrons the ultimate lighting control. Affixed to a circle track above the seating areas, iColor MR g2 lamps drench the sheer fabric encasing the pod in dynamic colorful light. During the lounge's off-hours the lighting is controlled to change slowly and subtly. During operation, however, these elements can be controlled by the guests via a custom touch-screen to give patrons a unique, interactive experience.

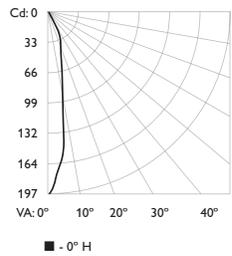
Photometrics

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at www.colorkinetics.com/support/ies.

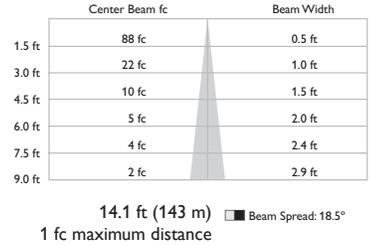
iColor MR g2 24° beam angle, clear lens

LED	Lumens	Watts	Efficacy
RGB	40.4	5	8.1

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	33.9	84%	84%
0-40	38.7	95.7%	95.7%
0-60	40.4	100%	100%
60-90	0.0	0%	0%
0-90	40.4	100%	100%
90-180	0	0%	0%
0-180	40.4	100%	100%
Total Efficiency: 100%			

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

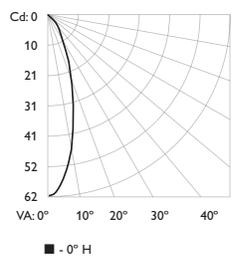
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RW %:	70	50	30	0	70	50	30	0	50	30	20	10	0						
RCR: 0	1.19	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.12	1.10	1.08	1.12	1.10	1.08	.96	1.06	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.96
2	1.10	1.06	1.03	1.00	1.08	1.05	1.02	.92	1.01	.99	.97	.95	.95	.96	.94	.93	.91	.91	.91
3	1.06	1.01	.97	.94	1.04	1.00	.96	.88	.97	.94	.92	.90	.90	.90	.89	.88	.87	.85	.84
4	1.02	.96	.92	.88	1.01	.95	.91	.85	.93	.90	.87	.87	.88	.86	.85	.84	.83	.81	.80
5	.99	.92	.87	.84	.97	.91	.87	.81	.89	.86	.83	.82	.82	.82	.81	.80	.78	.77	.77
6	.95	.88	.83	.80	.94	.87	.83	.78	.86	.82	.79	.78	.78	.77	.76	.75	.74	.73	.72
7	.92	.85	.80	.77	.91	.84	.80	.75	.83	.79	.76	.75	.75	.74	.73	.72	.71	.70	.69
8	.89	.81	.77	.74	.88	.81	.77	.72	.80	.76	.73	.72	.72	.71	.70	.69	.68	.67	.67
9	.86	.79	.74	.71	.85	.78	.74	.70	.77	.73	.71	.70	.70	.69	.68	.67	.66	.65	.64
10	.83	.76	.71	.68	.83	.76	.71	.68	.75	.71	.68	.67	.67	.66	.65	.64	.63	.62	.61

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

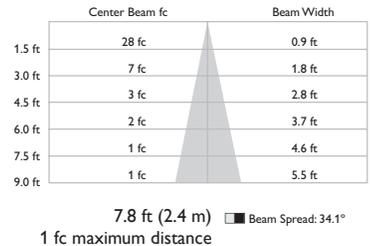
iColor MR g2 24° beam angle, frosted lens

LED	Lumens	Watts	Efficacy
RGB	34.9	5	7.0

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	23.0	66%	65.9%
0-40	28.4	81.3%	81.2%
0-60	33.6	96.2%	96.2%
60-90	1.3	3.8%	3.8%
0-90	34.9	100%	100%
90-180	0	0%	0%
0-180	34.9	100%	100%
Total Efficiency: 100%			

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80		70		50		30		10		0								
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	0						
RCR: 0	1.19	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.13	1.10	1.07	1.05	1.11	1.08	1.05	.93	1.04	1.02	1.00	1.00	.99	.97	.97	.95	.94	.92	.92
2	1.07	1.02	.97	.94	1.05	1.00	.96	.86	.97	.93	.91	.90	.91	.89	.89	.88	.87	.85	.84
3	1.01	.94	.89	.85	.99	.93	.88	.79	.90	.86	.83	.82	.82	.81	.81	.80	.78	.77	.76
4	.96	.88	.82	.77	.94	.87	.81	.74	.84	.80	.76	.75	.75	.74	.73	.72	.71	.70	.69
5	.91	.82	.76	.71	.89	.81	.75	.69	.79	.74	.70	.70	.70	.69	.68	.67	.66	.65	.64
6	.86	.77	.71	.66	.85	.76	.70	.64	.75	.69	.65	.65	.65	.64	.63	.62	.61	.60	.59
7	.82	.72	.66	.62	.81	.72	.66	.60	.70	.65	.61	.61	.61	.60	.59	.58	.57	.56	.55
8	.78	.68	.62	.58	.77	.68	.62	.57	.67	.61	.58	.58	.57	.56	.55	.54	.53	.52	.51
9	.75	.65	.59	.55	.73	.64	.59	.54	.63	.58	.54	.54	.54	.53	.52	.51	.50	.49	.48
10	.71	.62	.56	.52	.70	.61	.55	.51	.60	.55	.52	.52	.51	.50	.49	.48	.47	.46	.45

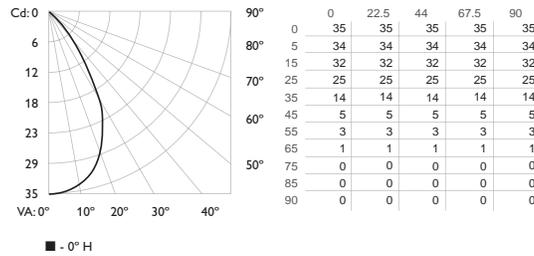
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

For lux multiply fc by 10.7

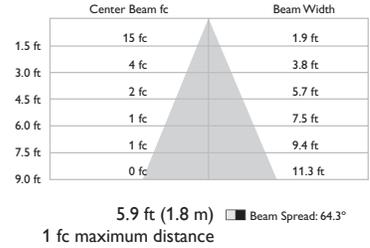
iColor MR g2 60° beam angle, clear lens

LED	Lumens	Watts	Efficacy
RGB	40	5	8.0

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	23.5	58.7%	58.7%
0-40	32.1	80.3%	80.3%
0-60	38.9	97.2%	97.2%
60-90	1.1	2.8%	2.8%
0-90	40.0	100%	100%
90-180	0	0%	0%
0-180	40.0	100%	100%

Efficiency Total: 100%

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

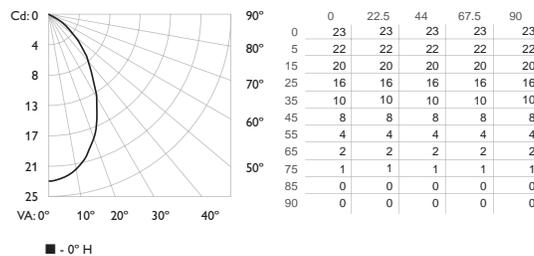
RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0			
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	1.00	1.00	1.00			
1	1.13	1.10	1.07	1.04	1.10	1.07	1.05	.92	1.03	1.01	.99	1.00	.98	.97	.96	.95	.94	.92	.91	.89	.88			
2	1.06	1.01	.96	.92	1.04	.99	.95	.84	.96	.92	.89	.93	.90	.87	.84	.81	.78	.85	.81	.77	.74			
3	1.00	.93	.87	.82	.98	.91	.86	.77	.88	.84	.80	.86	.82	.79	.74	.71	.67	.74	.71	.67	.64			
4	.94	.85	.79	.74	.92	.84	.78	.71	.82	.77	.73	.80	.76	.72	.67	.64	.60	.67	.64	.60	.57			
5	.88	.79	.72	.68	.87	.78	.72	.65	.76	.71	.67	.74	.70	.66	.62	.58	.54	.61	.58	.54	.51			
6	.83	.73	.67	.62	.82	.72	.66	.60	.71	.65	.61	.69	.64	.61	.56	.52	.48	.55	.52	.48	.45			
7	.79	.68	.62	.57	.77	.68	.61	.56	.66	.61	.56	.65	.60	.56	.52	.48	.44	.51	.48	.44	.41			
8	.74	.64	.57	.53	.73	.63	.57	.52	.62	.56	.52	.61	.56	.52	.48	.44	.40	.47	.44	.40	.37			
9	.70	.60	.53	.49	.69	.59	.53	.48	.58	.53	.49	.57	.52	.48	.44	.40	.36	.43	.40	.36	.33			
10	.67	.56	.50	.46	.66	.56	.50	.45	.55	.49	.45	.54	.49	.45	.41	.37	.33	.40	.37	.33	.30			

RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

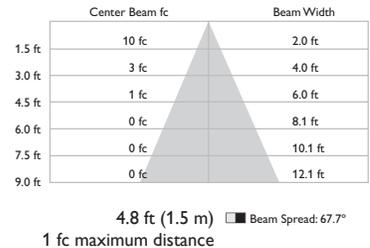
iColor MR g2 60° beam angle, frosted lens

LED	Lumens	Watts	Efficacy
RGB	33.4	5	6.7

Polar Candela Distribution



Illuminance at Distance



Zonal Lumen

Zone	Lumens	% Lamp	% Luminaire
0-30	15.0	44.8%	44.8%
0-40	21.7	65%	65%
0-60	30.3	90.8%	90.8%
60-90	3.1	9.2%	9.2%
0-90	33.4	100%	100%
90-180	0	0%	0%
0-180	33.4	100%	100%

Efficiency Total: 100%

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0			
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0			
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00	1.00	1.00	1.00			
1	1.11	1.08	1.04	1.01	1.09	1.05	1.02	.90	1.01	.99	.97	.97	.95	.94	.94	.92	.91	.89	.88	.86	.83			
2	1.03	.97	.91	.87	1.01	.95	.90	.79	.92	.87	.84	.88	.85	.82	.78	.74	.71	.78	.74	.71	.69			
3	.96	.87	.81	.75	.94	.86	.80	.71	.83	.78	.74	.81	.76	.72	.67	.64	.61	.68	.64	.61	.59			
4	.89	.79	.72	.67	.87	.78	.71	.63	.76	.70	.65	.74	.69	.64	.60	.56	.53	.60	.56	.53	.51			
5	.83	.72	.65	.59	.81	.71	.64	.57	.69	.63	.58	.68	.62	.58	.54	.50	.47	.54	.50	.47	.45			
6	.78	.66	.59	.53	.76	.66	.58	.52	.64	.58	.53	.62	.57	.52	.48	.44	.41	.48	.44	.41	.39			
7	.73	.61	.54	.48	.71	.61	.53	.47	.59	.53	.48	.58	.52	.48	.44	.40	.37	.44	.40	.37	.35			
8	.69	.57	.49	.44	.67	.56	.49	.43	.55	.48	.44	.54	.48	.44	.40	.36	.33	.40	.36	.33	.31			
9	.65	.53	.46	.41	.63	.52	.45	.40	.51	.45	.40	.50	.44	.40	.36	.32	.29	.36	.32	.29	.27			
10	.61	.49	.42	.38	.60	.49	.42	.37	.48	.42	.37	.47	.41	.37	.33	.29	.26	.33	.29	.26	.24			

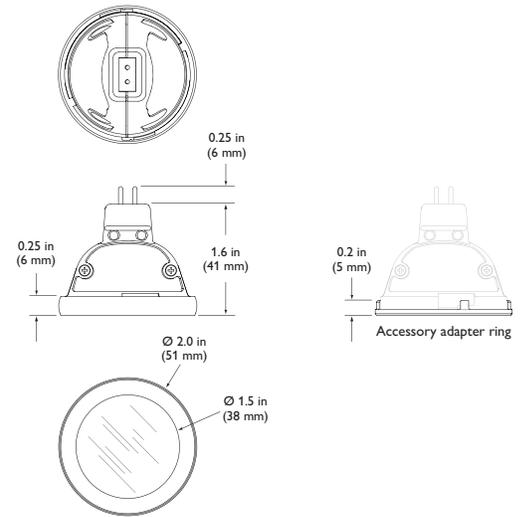
RCC %: Ceiling reflectance percentage, RW %: Wall reflectance percentage, RCR: Room cavity ratio

For lux multiply fc by 10.7

Specifications

Due to continuous improvements and innovations, specifications may change without notice.

Item	Specification	Details
Output	Beam Angle	24° / 60°
	Lumens†	40.4 (24° beam angle, clear) 40 (60° beam angle, clear) 34.9 (24° beam angle, frosted) 33.9 (60° beam angle, frosted)
	Color Range	16.7 million additive RGB colors; continuously variable intensity
	Mixing Distance	2.5 in (63 mm) to uniform light
	Lumen Maintenance‡	50,000+ hours L50 @ 50° C (full output)
Electrical	Input Voltage	24 VDC from PDS-70mr
	Power Consumption	5 W maximum at full output, steady state
Control	Interface	PDS-70mr 24V (DMX or Ethernet)
	Control System	Philips full range of controllers, including Light System Manager and iPlayer 3, or third-party DMX controllers
Physical	Dimensions (Height x Width x Depth)	2 x 2 x 1.9 in (51 x 51 x 48 mm)
	Weight	3.4 oz (97 g)
	Housing	Die-cast zinc, silver
	Lens	Clear or frosted tempered glass
	Fixture Connections	Standard 2-pin MR16 connector
	Operating Temperature	4° – 104° F (-20° – 40° C) 167° F (75° C) Surface
	Humidity	0 – 95%, non-condensing
	Maximum Fixture Run	14 maximum per PDS-70mr Maximum cable length 50 ft (15 m)
Certification and Safety	Certifications	UL / cUL, CE
	LED Class	Class 2 LED product
	Environment	Dry Location, IP20

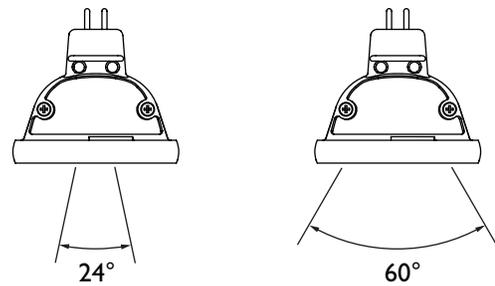


† Lumen measurement complies with IES LM-79-08

‡ L50 = 50% maintenance of lumen output. (When light output drops below 50% of initial output.)



CHROMACORE[®] CKTECHNOLOGY | OPTIBIN[®] CKTECHNOLOGY | SMARTJUICE[®] CKTECHNOLOGY



Fixtures and Accessories

Included in the box

iColor MR g2 lamp
Clear tempered glass lens
Frosted tempered glass lens
Lens bezel
Installation Instructions

iColor MR g2 lamps are part of a complete low-voltage system which includes:

- One or more PDS-70mr 24V power / data supplies
- Low-voltage 2-wire track (without transformer) or compatible MR16 fixtures wired in parallel
- Any Philips controller, including Light System Manager and iPlayer 3, or a third-party DMX controller

iColor MR g2 fixtures

Item	Type	Item Number	Philips 12NC
iColor MR g2	24° beam angle	101-000049-06	910503700215
	60° beam angle	101-000049-02	910503700214

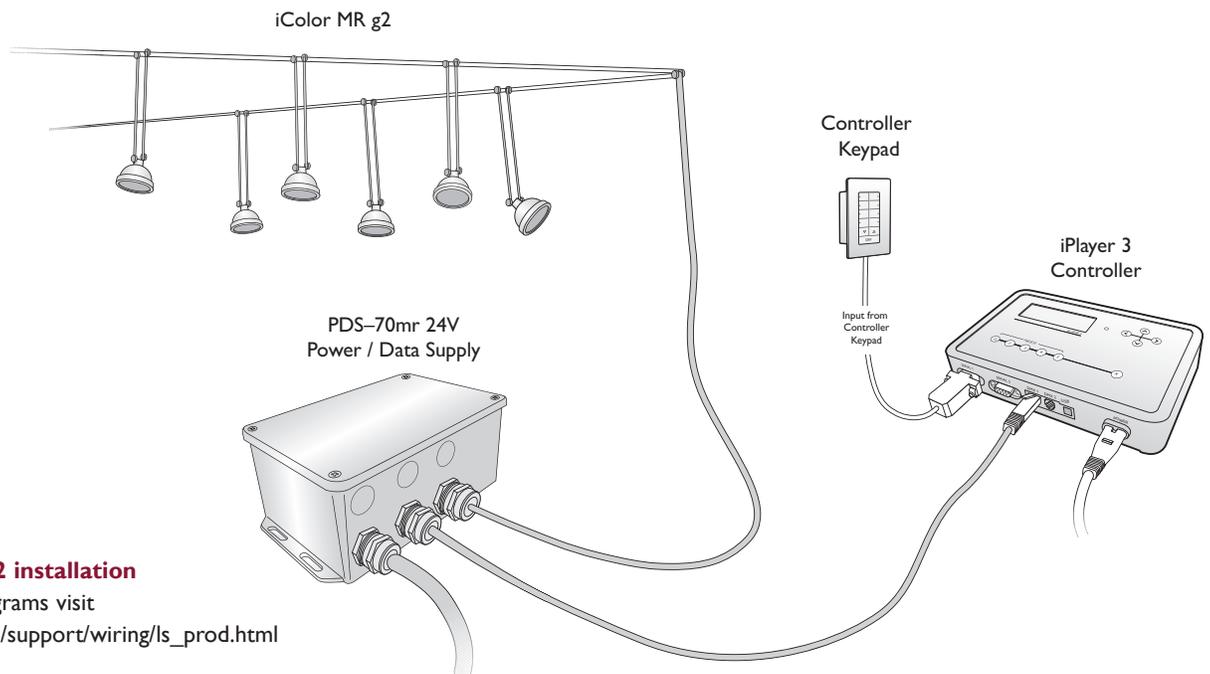
iColor MR g2 Accessory / Adapter rings (10 rings)		101-000050-00	910503700216
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PDS-70mr 24V Power / Data Supply	Pre-programmed	109-000018-00	910503700098
	DMX	109-000018-01	910503700099
	Ethernet	109-000018-02	910503700100

You can use any Philips controller or third-party DMX controller.

Light System Manager	Ethernet	103-000015-02	910503700221
iPlayer 3 North America Power Cord	DMX	103-000019-00	910403327101
iPlayer 3 Europe Power Cord	DMX	103-000019-01	910503700392
ColorDial Pro	Ethernet	103-000025-00	910503700790
Synchronizer	DMX	103-000001-00	—
Multi Synchronizer	DMX	103-000002-00	—

Use Item Number when ordering in North America.



Typical iColor MR g2 installation

For detailed wiring diagrams visit www.colorkinetics.com/support/wiring/ls_prod.html

Installation

iColor MR g2 receives power and data via the PDS-70mr 24V power / data supply with Smartjuice® technology. Smartjuice multiplexes incoming power and data onto an outgoing two-wire circuit for use with conventional MR16 fixtures and sockets. Fourteen iColor MR g2 lamps can be powered by one PDS-70mr 24V.

Owner / User Responsibilities

It is the responsibility of the contractor, installer, purchaser, owner, and user to install, maintain, and operate iColor MR g2 in such a manner as to comply with all applicable codes, state and local laws, ordinances, and regulations. Consult with the appropriate electrical inspector to ensure compliance.

Refer to the iColor MR g2 Installation Instructions for specific warning and caution statements.

Planning Your Installation

Like conventional MR lamps, iColor MR g2 color-changing LED lamps plug directly into compatible MR16 fixtures. iColor MR g2 lamps are compatible with many, but not all, MR16 fixtures. Keep the following considerations in mind as you plan your installation:

- iColor MR g2 lamps plug into many standard, low-voltage MR16 lighting tracks, cables, rails, pendants, and other fixtures. iColor MR g2 will not work with MR16 fixtures that have individually attached transformers.
- iColor MR g2 may not fit all MR16 lighting fixtures. Verify fit prior to installation. You can replace the lens bezel with an MR Adapter ring to reduce the overall dimensions of the lamp.
- iColor MR g2 requires adequate ventilation around the lamp housing to ensure peak performance and life expectancy. Using iColor MR g2 in sealed fixtures and recessed fixtures, therefore, is not recommended. Using iColor MR g2 within small enclosures is recommended only if the enclosed space is adequately vented or cooled.
- At 3.4 ounces, iColor MR g2 weighs more than traditional MR16 lamps and could loosen with use and vibration. Use fixtures and lamp holders that have locking devices. Failure to do so can result in property damage and personal injury.
- Do not install iColor MR g2 on the same fixture, track, rail, or cable with any other type of MR16 lamp.
- iColor MR g2 works only with PDS-70mr 24V power / data supplies, which are available with DMX, Ethernet, or pre-programmed data controls. The pre-programmed version is best suited for installations using simple effects (Chasing Rainbow, Fixed Color, Color Wash, or Random Fade) across all fixtures.

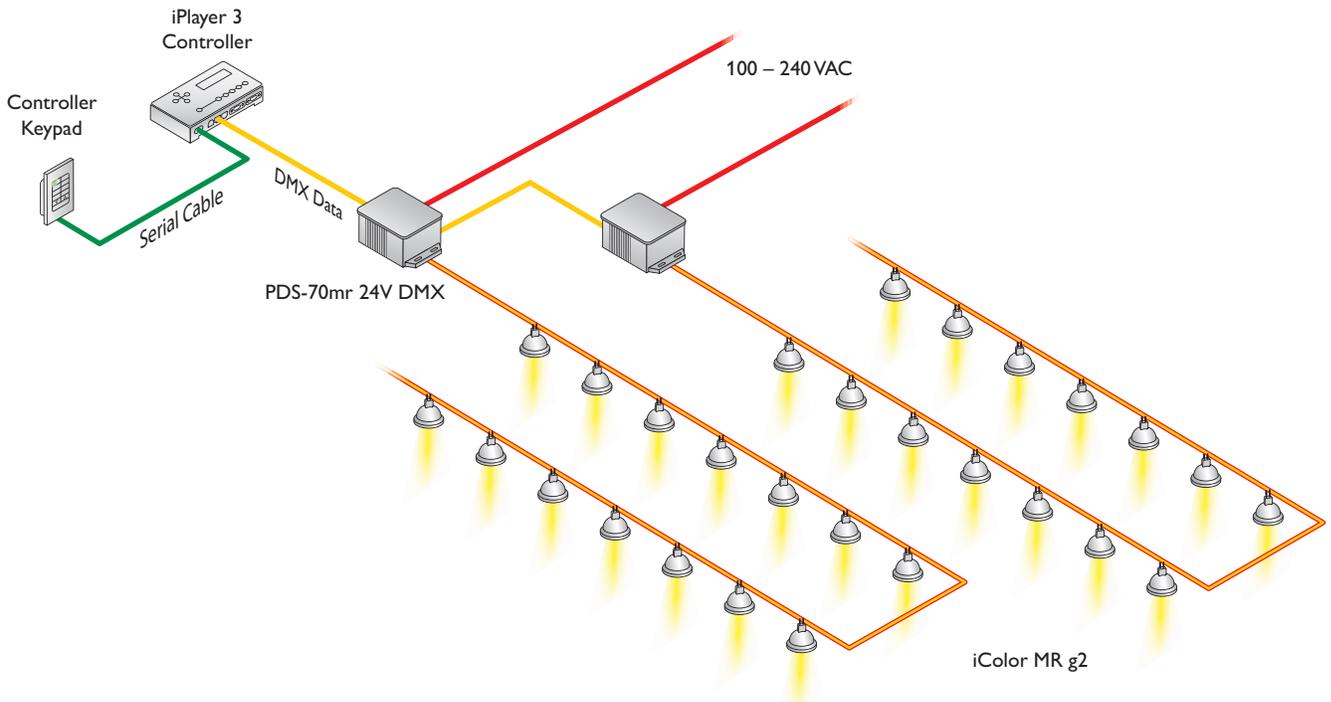
Create a Lighting Design Plan and Layout Grid

1. Select compatible low-voltage MR16 fixtures, and follow the manufacturer's guidelines for installation and wiring.
2. Determine the appropriate location of each PDS-70mr power / data supply in relation to the MR16 fixtures.

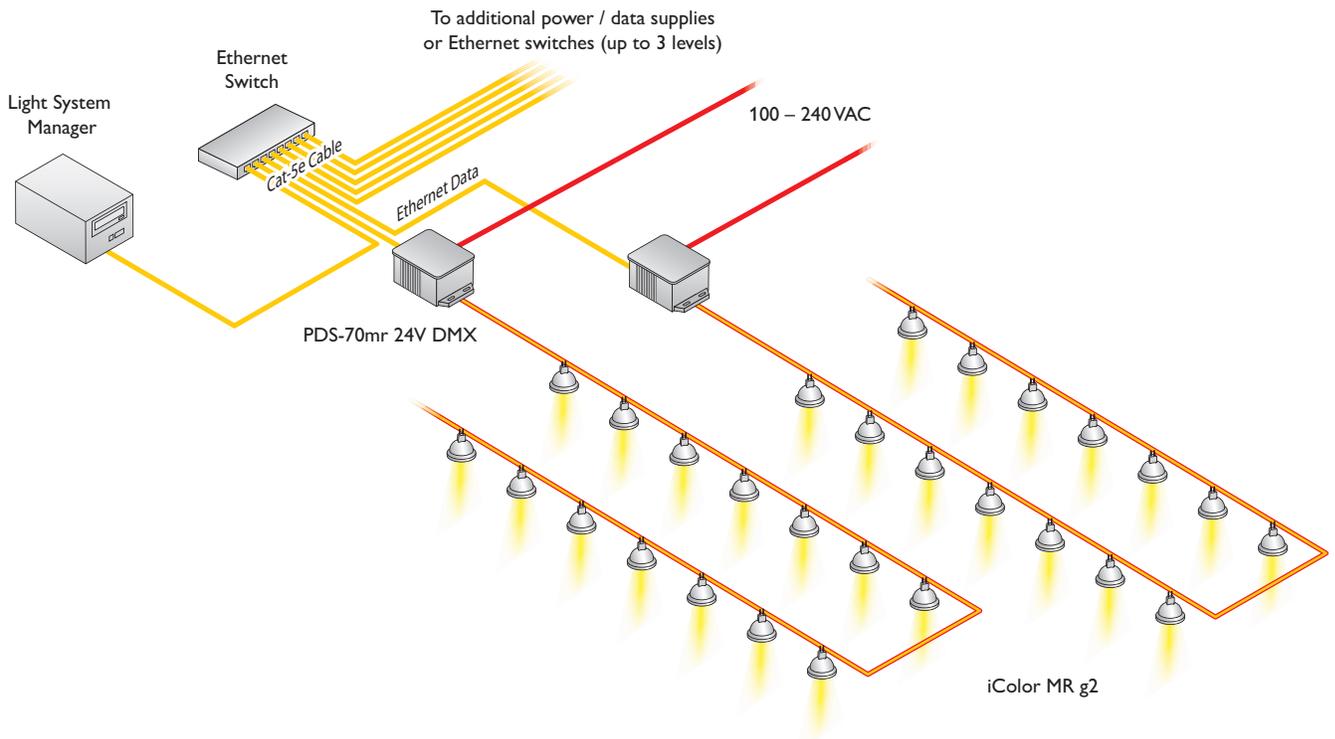
Each PDS-70mr can power up to 14 iColor MR g2 lamps in a single run. The farthest lamp in the run can be no more than 50 ft (15 m) from the PDS-70mr. Refer to the PDS-70mr documentation for guidelines on configuring and positioning the PDS-70mr in relation to the controller.

3. On an architectural diagram or other diagram that shows the physical layout of the installation, identify the locations of all switches, controllers, power supplies, fixtures, and cables.
4. Each iColor MR g2 lamp comes pre-programmed with a unique serial number. As you unpack the lamps, record the serial numbers in a layout grid (typically a spreadsheet or list) for easy reference and light addressing.
5. Assign each fixture and lamp to a position in the lighting design plan.

DMX Installation with iPlayer 3



Ethernet Installation with Light System Manager



Install the Fixtures and Lamps

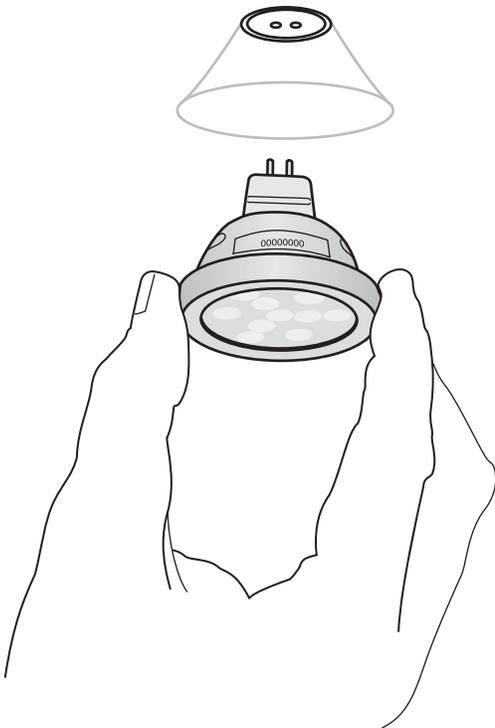
Make sure the power is OFF before installing MR16 fixtures and iColor MR g2 lamps.

1. Install all power / data supplies, including any interfaces with controllers.
2. Verify that all additional supporting equipment (switches, controllers) is in place.
3. Install compatible low-voltage MR16 fixtures following the manufacturer's instructions, adhering to all safety precautions.
4. Using wire nuts, attach 14 – 18 AWG, 2-conductor jacketed cable or hook-up wire to the fixture wires.
5. Remove the PDS-70mr cover, pull the cable or wire into the PDS-70mr, and connect the wires to the 2-pin terminal block connector labeled OUTPUT. The connector is non-polar, so you can connect either way to either terminal.

For complete instructions on how to wire the PDS-70mr, refer to the PDS-70mr Installation Guide or Product Guide. For sample wiring diagrams, visit www.colorkinetics.com/support/wiring/lis_prod.html.

Provide strain relief for the cable by using a cord grip, cable clamp, or threaded conduit attached directly to the PDS-70mr housing or to a threaded hub,

6. Plug the iColor MR g2 lamps into the MR16 fixtures.



7. When all connections have been made, secure the PDS-70mr cover.
8. Repeat steps 4 – 7 for each PDS-70mr in your installation.

Address and Configure the Lamps

Make sure the power is ON before addressing and configuring fixtures.

Each iColor MR g2 lamp has a *light number*, which controllers use to communicate with the fixture. iColor MR g2 lamps come factory-addressed to light number 1.

For light show designs where all lamps work in unison, all lamps must be set to the same light number. If lamps were previously readdressed for use in other installations, make sure to reset them all to the same light number, if necessary. For light show

designs that show different colors on different lamps at the same time, you must readdress the lamps with unique light numbers.

You can download the QuickPlay Pro software from www.colorkinetics.com/support/addressing/

You can assign unique light numbers to lamps, or set all lamps to the same light number, using QuickPlay Pro. Lamps are identified within QuickPlay Pro by serial number, so you will need the layout grid that you created when you recorded the serial numbers during installation planning.

- In Ethernet installations, you can address your lamps using QuickPlay Pro with a computer connected to your light system's network. QuickPlay Pro can automatically discover all of your lamps, controllers, and Data Enablers for quick configuration.
- In DMX installations, you can address and configure your lamps using QuickPlay Pro with iPlayer 3 or SmartJack Pro. You can manually enter serial numbers, or you can import a spreadsheet listing each lamp's serial number and starting DMX address.

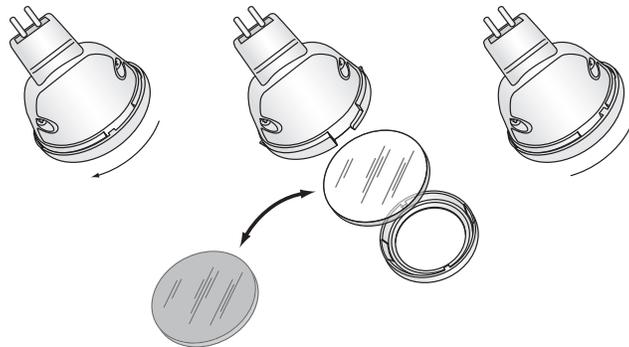
For complete details on addressing and configuration, refer to *Addressing and Configuration using QuickPlay Pro* at: www.colorkinetics.com/support/addressing.

Exchanging iColor MR g2 Lenses

iColor MR g2 comes with a factory-installed clear lens and an additional frosted lens. These lenses are easily interchangeable. Use the clear lens where you need a spot of light with sharply defined edges, and the frosted lens for a wider, softer spread of light with gradual diffusion and blending.

Be careful not to damage the lamp optics when removing and replacing lenses.

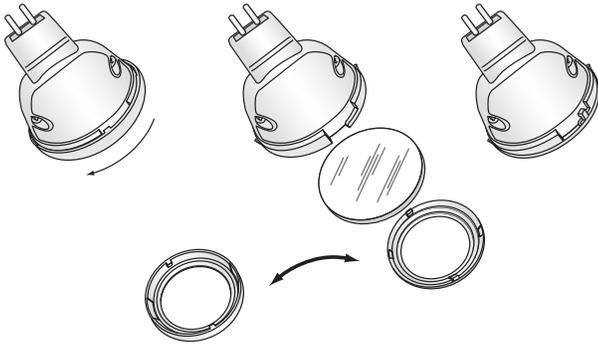
1. Rotate the bezel counterclockwise to release it from the housing. Pull the bezel and housing apart, taking care not to drop the lens.
2. Remove the lens from the bezel, and replace it with the other lens. With the lens resting in the bezel, align the mounting ears with the housing notches,
3. Press bezel and housing together, and turn the bezel clockwise until it snaps into place.



Using MR Adapter Rings

The MR Adapter Ring is the solution for MR16 fixtures that require a thin flange around the base of the lamp, instead of the iColor MR g2 lamp's thicker lens bezel. Replacing the lens bezel with an MR Adapter Ring makes iColor MR g2 lamps compatible with most standard MR16 fixtures,

1. Rotate the bezel counterclockwise to release it from the housing. Pull the bezel and housing apart, taking care not to drop the lens.
2. Remove the lens from the bezel, and place it in an MR Adapter Ring. Align the mounting ears on the MR Adapter Ring with the housing notches,
3. Press the MR Adapter Ring and housing together, and turn the MR Adapter Ring clockwise until it snaps into place.



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