

# iColor MR gen3

Date: \_\_\_\_\_  
Type: \_\_\_\_\_  
Firm Name: \_\_\_\_\_  
Project: \_\_\_\_\_

**30° beam angle**

## Interior MR16 lamp with intelligent RGB light

iColor MR gen3 is an intelligent color-changing lamp that delivers intense, saturated bursts of color and color-changing effects. The stylish housing fits into most standard MR16 luminaires, including tracks, cables, rails, and pendants. With high-intensity LED light sources and three beam angles, iColor MR gen3 is suitable for a wide-range of architectural, theatrical, and retail applications.



- Compatible with most MR16 luminaires and sockets—With its standard GU5.3 base and two-pin MR16 connector, iColor MR gen3 is compatible with most MR16 tracks, rails, cables, and pendant luminaires.
- Standard wiring and simple installation—iColor MR gen3 lamps work with standard 2-conductor jacketed cable or hook-up wire. Power/data supplies specifically designed for use with iColor MR gen3 multiplex power and data onto a two-wire circuit for use with conventional MR16 luminaires and sockets.
- Three beam angles—Use the 17° lamp when you need a spot of light with sharply defined edges, the 30° lamps for a wider spread of light, and the 90° (no optic) lamp for a soft, diffuse light.
- Efficient and cost-effective—iColor MR gen3 is easily adaptable to a wide range of interior environments where MR16 luminaires are commonly used. With long useful source life, low power draw of just 5 W, and low-maintenance operation, iColor MR gen3 lamps cost significantly less to own and operate than conventional MR16 lamps.
- Industry-leading controls—Works seamlessly with the complete Color Kinetics line of controllers, including Light System Manager, iPlayer 3, and ColorDial Pro, as well as third-party controllers.

For detailed product information, please refer to the MR Product Guide at [www.colorkinetics.com/global/products/rgb/icolormrgen3/](http://www.colorkinetics.com/global/products/rgb/icolormrgen3/)

# Specifications

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

## Output

Beam Angle	30°
Lumens <sup>†</sup>	151
Efficacy	11.5
LED Channels	Red/Green/Blue

## Electrical

Input Voltage	24 VDC from PDS-70mr
Power Consumption	5 W
(Maximum at full output, steady state)	

For additional Surge Protection Requirements for LED Lighting Systems, please refer to [www.colorkinetics.com/KB/surge-protection](http://www.colorkinetics.com/KB/surge-protection).

## Control

Interface	PDS-70mr 24V (DMX/Ethernet)
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### Control System

Color Kinetics full range of controllers, including Light System Manager, Video System Manager Pro, iPlayer 3, Antumbra iColor Keypad, and ColorDial Pro, or third-party controllers

## Lumen Maintenance

Threshold <sup>§</sup>	Ambient Temperature	Reported <sup>¶¶</sup>	Calculated <sup>¶¶</sup>
L <sub>70</sub>	25 °C	100,000	
	40 °C	100,000	
L <sub>50</sub>	25 °C	100,000	
	40 °C	100,000	

## Physical

Dimensions (Height x Width x Depth)	49 x 49 x 49 mm (1.9 x 1.9 x 1.9 in)
Weight	86 g (3 oz)
Housing Material	Die-cast zinc, silver finish
Lens	Polycarbonate
Luminaire Connections	Standard 2-pin MR16 connector

### Temperature Ranges

-20 to 40 °C (-4 to 104 °F) Operating  
-20 to 40 °C (-4 to 104 °F) Startup  
-40 to 80 °C (-40 to 176 °F) Storage

Humidity	0 to 95%, non-condensing
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### Luminaire Run Lengths

14 maximum per PDS-70mr  
Maximum cable length 15 m (50 ft)

## Certification and Safety

Approbation	UL/cUL, FCC Class A, CE
Environment	Dry Location, IP20

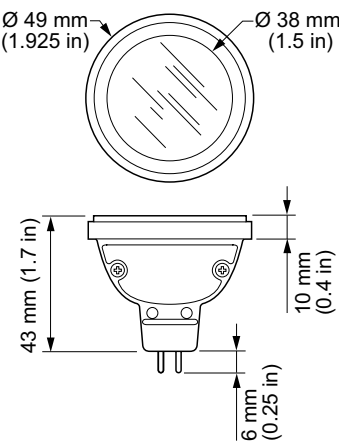


<sup>†</sup> Lumen output measurements comply with IES LM-79-08 testing procedures.

<sup>§</sup> L<sub>xx</sub> = xx% lumen maintenance (when light output drops below xx% of initial output). All values are given at B10, or the median value where 90% of the LED population is better than the reported or calculated lumen maintenance measurement.

<sup>¶¶</sup> Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, Reported values represent the interpolated value based on six times the LM-80-08 total test duration (in hours). Calculated values represent time durations that exceed six times the total test duration.

Dimensions

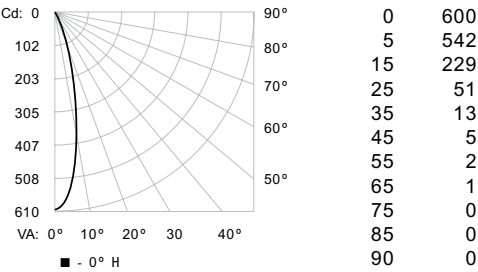


Photometrics 30° Beam Angle

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at [www.colorkinetics.com/global/support/ies](http://www.colorkinetics.com/global/support/ies).

Beam Angle	30°
LED	RGB
Lumens	151
Efficacy	11.5

Polar Candela Distribution



Illuminance at Distance

	Center Beam fc	Beam Width
4 ft	38 fc	1.8 ft
8 ft	9 fc	3.6 ft
12 ft	4 fc	5.4 ft
16 ft	2 fc	7.2 ft
20 ft	2 fc	9.0 ft
24 ft	1 fc	10.8 ft

24.5 ft (7.5 m)  
1 fc maximum distance  
Vert. Spread: 25.4°

Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	135	89.6
0- 40	144	95.4
0- 60	149	99.1
0- 90	151	100.0
90-180	0	0.0
0-180	151	100.0

For lux multiply fc by 10.7

Coefficients of Utilization - Zonal Cavity Method

		Effective Floor Cavity Reflectance: 20%															
RC	RM	80				70				50				30			
		70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	10
0	1	191	191	191	191	116	161	161	161	111	111	111	106	106	106	102	102
1	1	151	121	101	108	112	101	108	107	106	105	103	103	101	100	99	98
2	1	101	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95
3	1	106	101	97	94	105	100	96	94	98	95	92	95	93	91	93	91
4	1	103	97	93	89	101	96	92	89	94	90	88	92	89	87	90	88
5	1	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85
6	1	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82
7	1	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79
8	1	90	83	78	75	89	82	78	75	81	78	75	81	77	75	80	77
9	1	87	80	76	73	87	80	76	73	79	75	72	78	75	72	77	74
10	1	85	78	73	70	84	77	73	70	77	73	70	76	72	70	75	72

# Luminaire and Accessories

Use Item Number when ordering in North America

Luminaire	Item Number	Item 12NC
iColor MR gen3, 30° beam angle	101-000074-01	910503704288
<b>Power Supplies</b>		
PDS-70mr 24V Power/Data Supply, Pre-programmed	109-000018-00	910503700098
PDS-70mr 24V Power/Data Supply, DMX	109-000018-01	910503700099
PDS-70mr 24V Power/Data Supply, Ethernet	109-000018-02	910503700583



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Color Kinetics  
[www.colorkinetics.com/global/products/rgb/icolormrgen3/](http://www.colorkinetics.com/global/products/rgb/icolormrgen3/)