



# iColor MR gen3

17° beam angle

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

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 fixtures, 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.

# iColor MR gen3

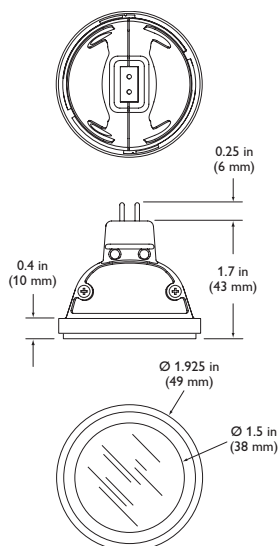
Intelligent RGB MR16 LED lamp for intense, saturated bursts of color

- Compatible with most MR16 fixtures 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 fixtures.
- 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 fixtures 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 fixtures 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 Philips 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 iColor MR gen3 Product Guide at [www.colorkinetics.com/ls/rgb/icolormr/gen3/](http://www.colorkinetics.com/ls/rgb/icolormr/gen3/)

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## Dimensions



# Specifications

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

iColor MR gen3, 17° beam angle

## Output

Beam Angle	17°
Lumens†	143
Efficacy	10.9
LED Channels	Red/Green/Blue

## Electrical

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

## Control

Interface	PDS-70mr 24V (DMX/Ethernet)
Control System	Philips Color Kinetics full range of controllers, including Light System Manager and iPlayer 3, or third-party controllers

## Lumen Maintenance

Threshold§	Ambient Temperature	Reported¶	Calculated¶
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 <i>(Height x Width x Depth)</i>	49 x 49 x 49 mm (1.9 x 1.9 x 1.9 in)
Weight	88 g (3.1 oz)
Housing Material	Die-cast zinc, silver finish
Lens	Polycarbonate
Fixture Connections	Standard 2-pin MR16 connector
Temperature Ranges	-20° – 40° C (-4° – 104° F) Operating -20° – 40° C (-4° – 104° F) Startup -40° – 80° C (-40° – 176° F) Storage
Humidity	0 – 95%, non-condensing
Fixture 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



† Lumen output measurements comply with IES LM-79-08 testing procedures.

§ 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 50% of the LED population is better than the reported or calculated lumen maintenance measurement.

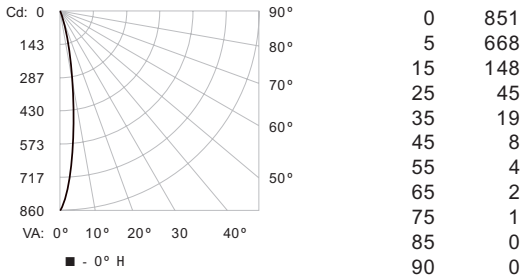
¶ Lumen maintenance figures are based on lifetime prediction graphs supplied by LED source manufacturers. Whenever possible, figures use measurements that comply with IES LM-80-08 testing procedures. In accordance with TM-21-11, Reported values represent the interpolated value based on six times the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

# iColor MR gen3 Photometrics 17° Beam Angle

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

Beam Angle	17°
LED	RGB
Lumens	143
Efficacy	10.9

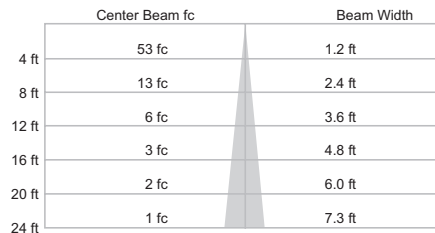
## Polar Candela Distribution



## Zonal Lumen

ZONE	LUMENS	%FIXT
0- 30	118	82.3
0- 40	130	90.7
0- 60	139	97.4
0- 90	143	100.0
90-180	0	0.0
0-180	143	100.0

## Illuminance at Distance



29.2 ft (8.9 m)  
 1 fc maximum distance  
 ■ Vert. Spread: 17.2°

## Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RC	80		70		50		30		10		0							
RW	70	50	30	10	70	50	30	10	50	30	10	0						
0	1191	1911	1911	1191	1161	1611	1611	1161	1111	1111	1111	1061	1061	1061	1021	1021	1021	100
1	1141	1211	1010	810	1121	1101	0810	106	1061	0410	3	1021	01100	99	98	97	95	
2	1101	0510	2	99	1071	104	101	98	101	98	96	98	96	94	95	93	92	90
3	1051	00	96	92	104	99	95	92	96	93	90	94	91	89	92	89	87	86
4	101	95	91	87	100	94	90	87	92	88	86	90	87	85	88	86	84	82
5	98	91	86	83	96	90	86	82	89	85	82	87	84	81	86	83	80	79
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76
7	92	84	79	76	90	84	79	76	82	78	75	81	78	75	80	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	79	74	71	85	78	74	71	77	73	71	77	73	70	76	73	70	69
10	84	76	72	69	83	76	72	69	75	71	68	74	71	68	74	70	68	67

For lux multiply fc by 10.7

## Fixture and Accessories

Use Item Number when ordering in North America.

Fixture	Item Number	Philips 12NC
iColor MR gen3 17° beam angle	101-000074-00	910503704252
<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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