

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/icolormr/gen3/

Specifications

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

Output

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

Electrical

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

For additional Surge Protection Requirements for LED Lighting Systems, please refer to 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§	Ambient Temperature	Reported¶¶	Calculated¶¶
L ₇₀	25 °C	100,000	
	40 °C	100,000	
L ₅₀	25 °C	100,000	
	40 °C	100,000	

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

§ L_{xx} = 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.

¶¶ 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.

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

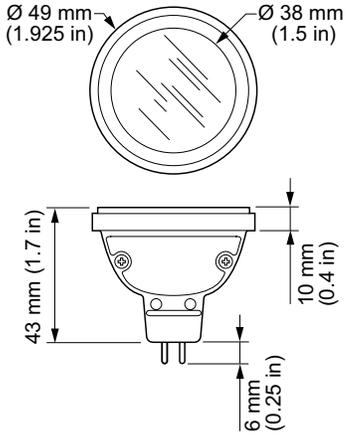
14 maximum per PDS-70mr
Maximum cable length 15 m (50 ft)

Certification and Safety

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



Dimensions

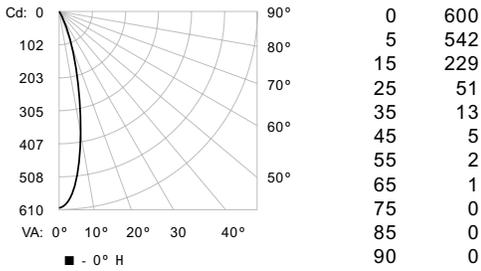


Photometrics 30° Beam Angle

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.

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	80			70			50			30			10			0		
Rm	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96
2	110	106	103	100	108	105	102	99	102	99	97	99	97	95	96	95	93	92
3	106	101	97	94	105	100	96	94	98	95	92	95	93	91	93	91	89	88
4	103	97	93	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	83	81
6	96	89	85	81	95	88	84	81	87	83	81	86	83	80	85	82	80	78
7	93	86	81	78	92	85	81	78	84	80	78	83	80	77	82	79	77	76
8	90	83	78	75	89	82	78	75	81	78	75	81	77	75	80	77	74	73
9	87	80	76	73	87	80	76	73	79	75	72	78	75	72	77	74	72	71
10	85	78	73	70	84	77	73	70	77	73	70	76	72	70	75	72	70	69

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
Power Supplies		
PDS-70mr 24V Power/Data Suppy, Pre-programmed	109-000018-00	910503700098
PDS-70mr 24V Power/Data Suppy, DMX	109-000018-01	910503700099
PDS-70mr 24V Power/Data Suppy, Ethernet	109-000018-02	910503700583



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Color Kinetics
www.colorkinetics.com/global/products/rgb/icolormrgen3/