



SQUARE MINI LED GIMBAL

MG1LG2 (SQ) RECESSED HOUSING AND TRIM LOW VOLTAGE

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

The square MG1LG2 (SQ) mini LED recessed gimbal is IC rated for insulated or non-insulated applications • Sleek, compact form factor provides aimable accent lighting with performance that approximates the light output and distribution of 20W halogen lamps • Ideal for both residential and commercial limited space applications including niches, bookshelves, displays and cabinets • Remote mount Class 2 120V to 12V AC electronic or magnetic transformer required • Designed to provide 50,000 hours of life • 5 year limited warranty on LED components.

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury
- Comparable light output to 20W MR11 halogen lamps while consuming 5W

PRODUCT SPECIFICATIONS

LED Light Engine High performance, low power LEDs provide outstanding reliability, performance and color quality/consistency • 2700K, 3000K, 3500K or 4000K color temperatures available • 80 or 90 CRI minimum.

Optical System Fixtures are offered with a choice of spot, narrow flood or flood beam patterns • LED source concealed with lensed optic • Aimable gimbal design provides up to 30° off vertical adjustment and 360° rotation • Field replacement of optical lenses is NOT recommended.

Transformer Requires remote mount Class 2, 120V to 12V AC electronic or magnetic transformer for operation • Juno [TL602E](#) electronic transformer and [MAGXFMR](#) magnetic transformer are designed specifically for use with these fixtures.

Dimming May be dimmed with dimmers tested and qualified by Juno for use with [TL602E](#) and [MAGXFMR](#) – see transformer specifications for compatible dimmers • Color temperature remains constant over dimming range • Consult factory for additional information.

Life Rated for 50,000 hours at 70% lumen maintenance.

Labels UL Listed for indoor damp locations and daisy chaining • Union made • UL and cUL listed • RoHS compliant.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance. Specifications subject to change without notice.

HOUSING FEATURES

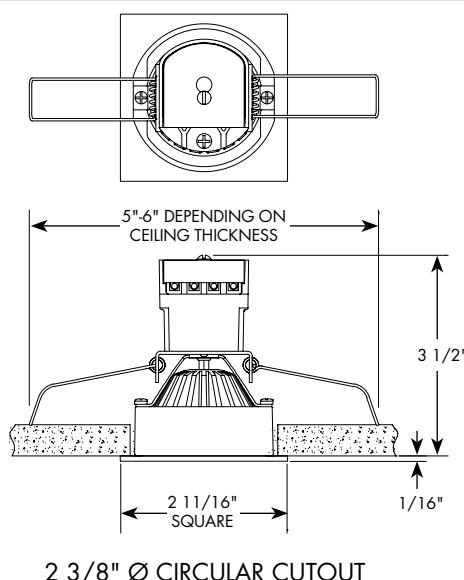
Housing Designed for use in IC (insulated ceiling) or non-IC construction • If using in an IC application, it is recommended that the insulation be pulled away from the fixture due to adjustment feature • Die cast aluminum housing.

Wiring Compartment Provided with removable access plate • Four pole terminal block allows for quick, secure connection • UL /cUL listed for daisy chaining • Easy to wire with commonly available low voltage cable (Type CL2 or NEC Equivalent, 18-12 AWG). Consult local codes for compliant wiring methods.

Mounting Tempered spring steel torsion clips are provided fully assembled to housing • Springs allow for fast, secure installation or removal in mounting surfaces from 1/8" to 1" thick material • 2-3/8" Cutout dimension corresponds to common hole saw size.



DIMENSIONS



TRANSFORMERS

Catalog Number	Finish	Description
TL602E 10W 120 12AC WH	White	10W 12V AC Electronic Transformer
TL602E 25W 120 12AC WH	White	25W 12V AC Electronic Transformer
TL602E 60W 120 12AC WH	White	60W 12V AC Electronic Transformer
MAGXFMR 1C 10W 120 12AC BL	Black	10W 12V AC Magnetic Transformer
MAGXFMR 1C 25W 120 12AC BL	Black	25W 12V AC Magnetic Transformer
MAGXFMR 1C 60W 120 12AC BL	Black	60W 12V AC Magnetic Transformer

To order, specify catalog number.

ELECTRICAL DATA

Input Voltage	12VAC
Input Power	4.8W
Input Current	0.42A
Frequency	Varies with Transformer

ORDERING INFORMATION

Example: MG1LG2 SQ 03LM 27K 80CRI FL WH

Series	Fixture Form	Lumens	Color Temperature	CRI	Distribution	Trim Finish
MG1LG2	SQ Square	03LM 300 Nominal Lumens	27K 2700K	80CRI 80+ CRI 90CRI 90+ CRI	FL Flood NFL Narrow Flood SP Spot	BL Black
			30K 3000K			BRZ Bronze
			35K 3500K			SN Satin Nickel
			40K 4000K			WH White

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LOW VOLTAGE

PHOTOMETRICS

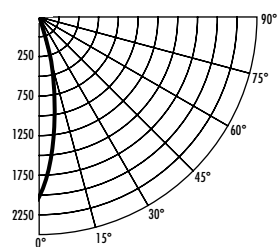
PHOTOMETRIC REPORT

Test Report #: PT02140504R

Catalog No: MG1LG2 SQ 03LM
35K 80CRI SP WH

Luminaire Spacing Criterion: 0.34

Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2057
5	1744
15	430
25	61
35	14
45	5
55	2
65	0
75	0
85	0
90	0

Multiplier: 80CRI 27K - 0.91 90CRI 27K - 0.67
30K - 0.95 30K - 0.72
35K - 1.00 35K - 0.77
40K - 1.01 40K - 0.80

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	23	22	20
5'	15	14	13
6'	10	10	9
7'	8	8	7
8'	7	6	6
9'	5	5	4
10'	4	3	3

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	306	N/A	94.3
0 - 40°	316	N/A	97.5
0 - 60°	323	N/A	99.6
0 - 90°	324	N/A	100.0

INITIAL FOOTCANDLES

One Unit, 5W, 19.5° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	128.8	1.4'
6	57.3	2.1'
8	32.2	2.7'
10	20.6	3.4'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	12594
55	6445
65	3578
75	1948
85	0

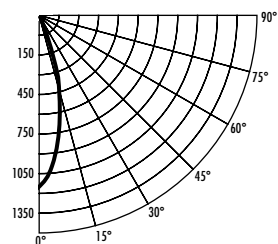
PHOTOMETRIC REPORT

Test Report #: PT02140505R

Catalog No: MG1LG2 SQ 03LM
35K 80CRI NFL WH

Luminaire Spacing Criterion: 0.42

Luminaire LPW: 61



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1158
5	1030
15	437
25	123
35	32
45	9
55	3
65	1
75	0
85	0
90	0

Multiplier: 80CRI 27K - 0.91 90CRI 27K - 0.67
30K - 0.95 30K - 0.72
35K - 1.00 35K - 0.77
40K - 1.01 40K - 0.80

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	21	19	18
5'	14	12	11
6'	10	9	8
7'	8	7	6
8'	6	5	5
9'	5	4	4
10'	3	3	3

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	269	N/A	88.2
0 - 40°	292	N/A	95.5
0 - 60°	304	N/A	99.3
0 - 90°	306	N/A	100.0

INITIAL FOOTCANDLES

One Unit, 5W, 24.6° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	72.4	1.7'
6	32.3	2.6'
8	18.1	3.5'
10	11.6	4.4'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	21862
55	9374
65	5566
75	3895
85	0

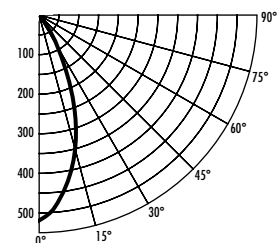
PHOTOMETRIC REPORT

Test Report #: PT02140506R

Catalog No: MG1LG2 SQ 03LM
35K 80CRI FL WH

Luminaire Spacing Criterion: 0.64

Luminaire LPW: 54



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	531
5	513
15	354
25	150
35	44
45	16
55	5
65	3
75	1
85	0
90	0

Multiplier: 80CRI 27K - 0.91 90CRI 27K - 0.67
30K - 0.95 30K - 0.72
35K - 1.00 35K - 0.77
40K - 1.01 40K - 0.80

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	19	17	15
5'	12	11	9
6'	8	7	7
7'	7	6	5
8'	5	5	4
9'	4	4	3
10'	3	3	2

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	216	N/A	79.9
0 - 40°	249	N/A	91.7
0 - 60°	267	N/A	98.5
0 - 90°	271	N/A	100.0

INITIAL FOOTCANDLES

One Unit, 5W, 38.3° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	33.2	2.8'
6	14.8	4.2'
8	8.3	5.6'
10	5.3	6.9'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	37545
55	15526
65	9940
75	7141
85	1928

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit at 12VAC in a 25°C ambient represents a baseline of performance for the fixture. Results may vary in the field and when multiple fixtures are used in a system.