



SQUARE MINI LED DOWNLIGHT

OUTDOOR/WET LOCATION

MD1LG2 (SQ, WL) RECESSED HOUSING AND TRIM

LOW VOLTAGE

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____



PRODUCT DESCRIPTION

The square MD1LG2 (SQ, WL) mini LED recessed downlight is for use in wet locations and is IC rated for insulated or non-insulated applications

- Sleek, compact form factor provides direct accent lighting with low glare optic system that approximates the light output and distribution of 20W halogen lamps
- Ideal for both residential and commercial wet location applications including bathrooms and eave lighting
- 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 is deeply recessed into an internal reflector to produce a low glare system
- Reflectors finished to match trim ring color for uniform appearance
- 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 wet 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

- Die cast aluminum housing
- Finished with either corrosion resistant painted finishes or E-coat for decorative plated finishes.

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 Zinc plated 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" Cutout dimension corresponds to common hole saw size.

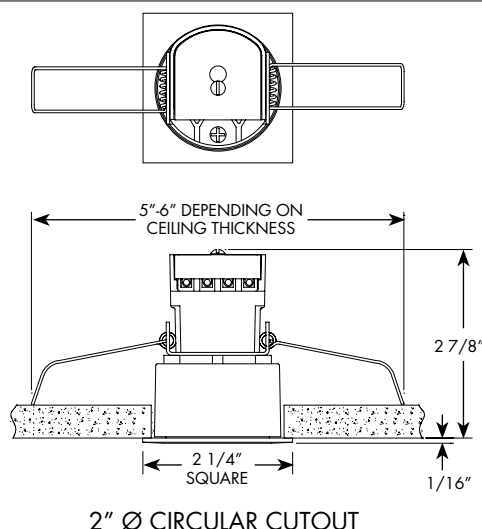
ORDERING INFORMATION

Example: MD1LG2 SQ 03LM 27K 80CRI FL WL WH

Series	Fixture Form	Lumens	Color Temperature	CRI	Distribution	Environment	Trim Finish
MD1LG2	SQ Square	03LM 300 Nominal Lumens	27K 2700K	80CRI 80+ CRI	FL Flood	WL Wet Location	BL Black
			30K 3000K	90CRI 90+ CRI	NFL Narrow Flood		BRZ Bronze
			35K 3500K		SP Spot		SN Satin Nickel
			40K 4000K				WH White



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

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PHOTOMETRICS

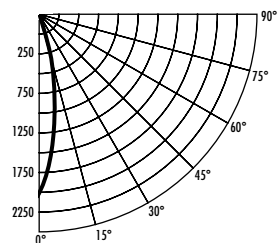
PHOTOMETRIC REPORT

Test Report #: PT02140501R

Catalog No: MD1LG2 SQ 03LM 35K
80CRI SP WL WH

Luminaire Spacing Criterion: 0.34

Luminaire LPW: 67



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2061
5	1701
15	437
25	67
35	13
45	5
55	2
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'	23	21	19
5'	15	13	12
6'	10	9	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°	305	N/A	94.3
0 - 40°	315	N/A	97.3
0 - 60°	321	N/A	99.3
0 - 90°	324	N/A	100.0

INITIAL FOOTCANDLES

One Unit, 5W, 19.6° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	128.8	1.4'
6	57.3	2.1'
8	32.2	2.8'
10	20.6	3.5'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	11169
55	7031
65	5169
75	4544
85	1928

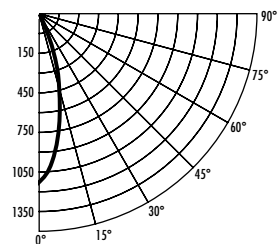
PHOTOMETRIC REPORT

Test Report #: PT02140502R

Catalog No: MD1LG2 SQ 03LM 35K
80CRI NFL WL WH

Luminaire Spacing Criterion: 0.44

Luminaire LPW: 63



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1128
5	999
15	441
25	122
35	29
45	8
55	4
65	2
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'	23	20	18
5'	14	13	12
6'	10	9	8
7'	8	7	7
8'	6	6	5
9'	5	4	4
10'	4	3	3

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0 - 30°	269	N/A	88.3
0 - 40°	289	N/A	94.9
0 - 60°	300	N/A	98.7
0 - 90°	304	N/A	100.0

INITIAL FOOTCANDLES

One Unit, 5W, 24.9° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	70.5	1.8'
6	31.3	2.6'
8	17.6	3.5'
10	11.3	4.4'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	19723
55	12304
65	9542
75	8440
85	1928

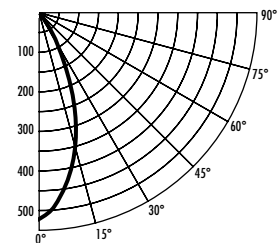
PHOTOMETRIC REPORT

Test Report #: PT02140503R

Catalog No: MD1LG2 SQ 03LM 35K
80CRI FL WL WH

Luminaire Spacing Criterion: 0.62

Luminaire LPW: 55



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	533
5	519
15	355
25	135
35	39
45	13
55	7
65	4
75	2
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'	18	16	14
5'	12	10	9
6'	8	7	6
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°	213	N/A	79.8
0 - 40°	241	N/A	90.3
0 - 60°	259	N/A	97.4
0 - 90°	266	N/A	100.0

INITIAL FOOTCANDLES

One Unit, 5W, 37.1° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	33.3	2.7'
6	14.8	4.0'
8	8.3	5.4'
10	5.3	6.7'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	31367
55	21678
65	17096
75	12984
85	3856

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.