



MINI LED DOWNLIGHT

MD1LG2 RECESSED HOUSING AND TRIM LOW VOLTAGE

Project: _____

Fixture Type: _____

Location: _____

Contact/Phone: _____

PRODUCT DESCRIPTION

The Mini LED recessed downlight 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 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 4100K color temperatures available • 80 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 regressed 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 [TL576](#) 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 [TL576](#) – 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.

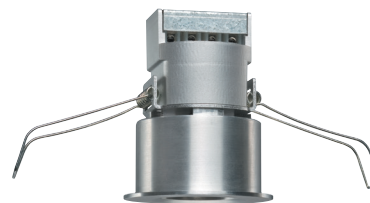
Product specifications subject to change without notice.

HOUSING FEATURES

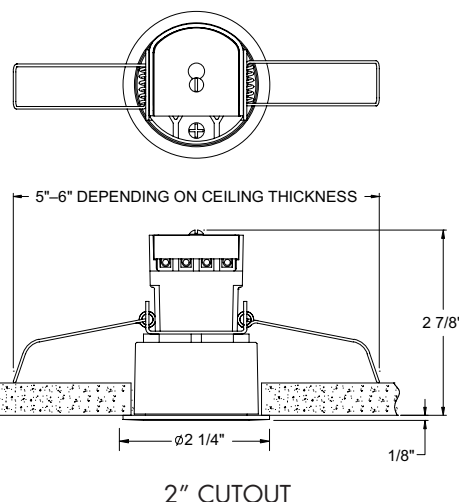
Housing Designed for use in IC (insulated ceiling) or non-IC construction • Die cast aluminum housing.

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" Cutout dimension corresponds to common hole saw size.



DIMENSIONS



ELECTRICAL DATA

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

ORDERING INFORMATION:

Example: **MD1LG2-27K-FL-WH**

Fixture

Catalog No.	Color Temp.	Optic	Finish
MD1LG2	27K 2700K 3K 3000K 35K 3500K 41K 4100K	SP Spot NFL Narrow Flood FL Flood	WH White BL Black SN Satin Nickel BZ Bronze

Transformers

Catalog Number	Finish	Description
TL602E-10-WH	White	10W 12V AC Electronic Driver/Transformer
TL602E-25-WH	White	25W 12V AC Electronic Driver/Transformer
TL602E-60-WH	White	60W 12V AC Electronic Driver/Transformer
TL576-10-BL	Black	10W 12V AC Magnetic Driver/Transformer
TL576-25-BL	Black	25W 12V AC Magnetic Driver/Transformer
TL576-60-BL	Black	60W 12V AC Magnetic Driver/Transformer

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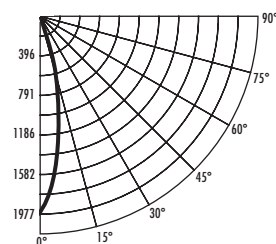
PHOTOMETRIC REPORT

Test Report #: PT10130702R

Catalog No: MD1LG2-35K-SP-WH

Luminaire Spacing Criterion: 0.34

Luminaire LPW: 64



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1977
5	1648
15	421
25	80
35	17
45	6
55	3
65	1
75	1
85	0
90	0

Multiplier: 27K - 0.92
3K - 0.96
41K - 1.06

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'	14	13	12
6'	10	9	9
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°	297	N/A	93.3
0 - 40°	309	N/A	96.9
0 - 60°	316	N/A	99.2
0 - 90°	319	N/A	100.0

INITIAL FOOTCANDLES One Unit, 5W, 19.4° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	123.6	1.4'
6	54.9	2.1'
8	30.9	2.7'
10	19.8	3.4'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	12095
55	6710
65	4720
75	4407
85	1634

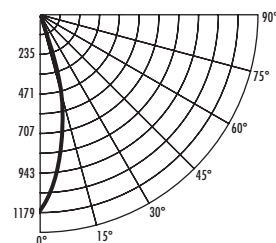
PHOTOMETRIC REPORT

Test Report #: PT10130703R

Catalog No: MD1LG2-35K-NFL-WH

Luminaire Spacing Criterion: 0.42

Luminaire LPW: 61



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	1179
5	1044
15	436
25	122
35	30
45	9
55	3
65	2
75	1
85	0
90	0

Multiplier: 27K - 0.92
3K - 0.96
41K - 1.06

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60' x 60' room)

Ceiling 80%, Wall 50%, Floor 20%

Spacing	RCR1	RCR4	RCR8
4'	21	19	17
5'	14	12	11
6'	9	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°	270	N/A	88.9
0 - 40°	290	N/A	95.5
0 - 60°	300	N/A	98.9
0 - 90°	304	N/A	100.0

INITIAL FOOTCANDLES One Unit, 5W, 24.6° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	73.7	1.7'
6	32.8	2.6'
8	18.4	3.5'
10	11.8	4.4'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	17336
55	7952
65	6071
75	5507
85	3268

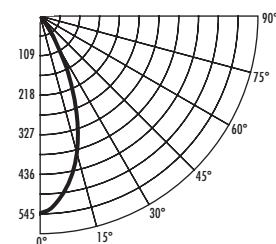
PHOTOMETRIC REPORT

Test Report #: PT10130704R

Catalog No: MD1LG2-35K-FL-WH

Luminaire Spacing Criterion: 0.64

Luminaire LPW: 55



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	545
5	527
15	366
25	158
35	44
45	14
55	6
65	3
75	2
85	0
90	0

Multiplier: 27K - 0.92
3K - 0.96
41K - 1.06

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	10
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°	221	N/A	81.2
0 - 40°	251	N/A	91.9
0 - 60°	267	N/A	98.0
0 - 90°	273	N/A	100.0

INITIAL FOOTCANDLES One Unit, 5W, 38.3° Beam

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	34.1	2.8'
6	15.1	4.2'
8	8.5	5.6'
10	5.5	6.9'

LUMINANCE (Average cd/m²)

Degrees	Average 0° Luminance
45	26205
55	13917
65	10455
75	9364
85	4902

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.



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